



element

Kymeta Corp.

U8 Hawk

FCC 15.247:2023

RSS-247 Issue 2:2017

RSS-Gen Issue 5:2018+A1:2019+A2:2021

Wi-Fi 802.11 b/g/n/AX 2x2 MIMO radio

Report: KYME0082.0 Rev. 2, Issue Date: August 31, 2023



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CERTIFICATE OF TEST

Last Date of Test: June 16, 2023

Kymeta Corp.

EUT: U8 Hawk

Radio Equipment Testing

Standards

| Specification | Method |
|--------------------------------------|--|
| FCC 15.247:2023 | ANSI C63.10:2013, FCC KDB 558074 v05r02:2019 |
| RSS-247 Issue 2:2017 | ANSI C63.10:2013 |
| RSS-Gen Issue 5:2018+A1:2019+A2:2021 | ANSI C63.10:2013 |

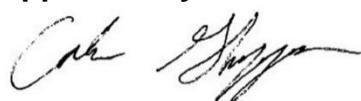
Results

| Test Description | Result | FCC Section(s) | RSS Section(s) | ANSI C63.10 Section(s) | Comments |
|--|--------|---------------------------------|---------------------------------|----------------------------|-------------------------------------|
| Powerline Conducted Emissions | Pass | 15.207 | RSS-Gen 8.8 | 6.2 | |
| Duty Cycle | N/A | KDB 558074 -6.0 | RSS-Gen 3.2 | 11.6 | Characterization of radio operation |
| DTS Bandwidth | Pass | 15.247(a)(2), KDB 558074 -8.2 | RSS-247 5.2(a) | 11.8.2 | |
| Occupied Bandwidth | Pass | KDB 558074 -2.1 | RSS-Gen 6.7 | 6.9.3 | |
| Output Power | Pass | 15.247(b)(3), KDB 558074 -8.3.2 | RSS-247 5.4(d, f), RSS-Gen 6.12 | 11.9.2.2.4 | |
| Equivalent Isotropic Radiated Power (EIRP) | Pass | 15.247(b)(3), KDB 558074 -8.3.2 | RSS-247 5.4(d, f), RSS-Gen 6.12 | 11.9.2.2.4 | |
| Power Spectral Density | Pass | 15.247(e), KDB 558074 -8.4 | RSS-247 5.2(b) | 11.10.2 | |
| Band Edge Compliance | Pass | 15.247(d), KDB 558074 -8.5 | RSS-247 5.5 | 11.11 | |
| Spurious Conducted Emissions | Pass | 15.247(d), KDB 558074 -8.5 | RSS-247 5.5 | 11.11 | |
| Spurious Radiated Emissions | Pass | 15.247(d), KDB 558074 -8.6, 8.7 | RSS-247 5.5, RSS-Gen 6.13, 8.10 | 11.12.1, 11.13.2, 6.5, 6.6 | |

Deviations From Test Standards

None

Approved By:



Cole Ghizzone, Department 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. As indicated in the Statement of Work sent with the quotation, Element's standard process is to always use the latest published version of the test methods even when earlier versions are cited in the test specification. Issuance of a purchase order was de facto acceptance of this approach. Otherwise, the client would have advised Element in writing of the specific version of the test methods they wanted applied to the subject testing.

REVISION HISTORY



| Revision Number | Description | Date (yyyy-mm-dd) | Page Number |
|---|--|-------------------|--|
| 01 | Updated test dates. | 2023-06-30 | 2, 10, 16, 23, 59, 95, 115, 134, 153, 173, 192, 211, 231, 250, 269, 290, 292, 294, 297, 316, 335, 355, 368, 382, 395, 448, 501 |
| | Changed test specification to FCC 15.247:2023 on COT. | 2023-06-30 | 2 |
| | Added RSS to the certificate of test and reordered the tests. | 2023-06-30 | 2 |
| | Corrected antenna gain to 2.4 dBi. Updated EIRP siso chain 0 and the MIMO data modules. | 2023-06-30 | 289-295 |
| | Updated test equipment list in Duty Cycle. | 2023-06-30 | 94 |
| | Adjusted print area and updated antenna gains in SISO chain 0 and MIMO to account for change from 2.9 to 2.4 dBi in EIRP. | 2023-06-30 | 289-295 |
| | Corrected DCCF in Power Spectral Density | 2023-06-30 | 296-353 |
| | Additional data that was added to the SRE. | 2023-06-30 | 557-572 |
| | Updated radio in testing objective. | 2023-06-30 | 10 |
| | Added MIMO capabilities to the antenna and power settings page. | 2023-06-30 | 11-12 |
| | Added test description to Duty Cycle, MIMO. | 2023-06-30 | 94 |
| Updated the formula in the data to properly calculate EIRP. | 2023-06-30 | 305-323 | |
| 02 | Added AX to the cover | 2023-08-31 | 1 |
| | Added info that EUT does not support OFDMA Removed incorrect data rate from the HE20 portion of the power settings table. | 2023-08-31 | 11 |
| | Updated calculations for EIRP. | 2023-08-31 | All |

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 - Each laboratory is accredited by A2LA to ISO / IEC 17025, and as a product certifier to ISO / IEC 17065 which allows Element to certify transmitters to FCC and IC specifications.

Canada

ISED - Recognized by Innovation, Science and Economic Development Canada as a Certification Body (CB) and as a CAB for the acceptance of test data.

European Union

European Commission – Recognized as an EU Notified Body validated for the EMCD and RED Directives.

United Kingdom

BEIS – Recognized by the UK as an Approved Body under the UK Radio Equipment and UK EMC Regulations.

Australia/New Zealand

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

Korea

MSIT / 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:

[California](#)

[Minnesota](#)

[Oregon](#)

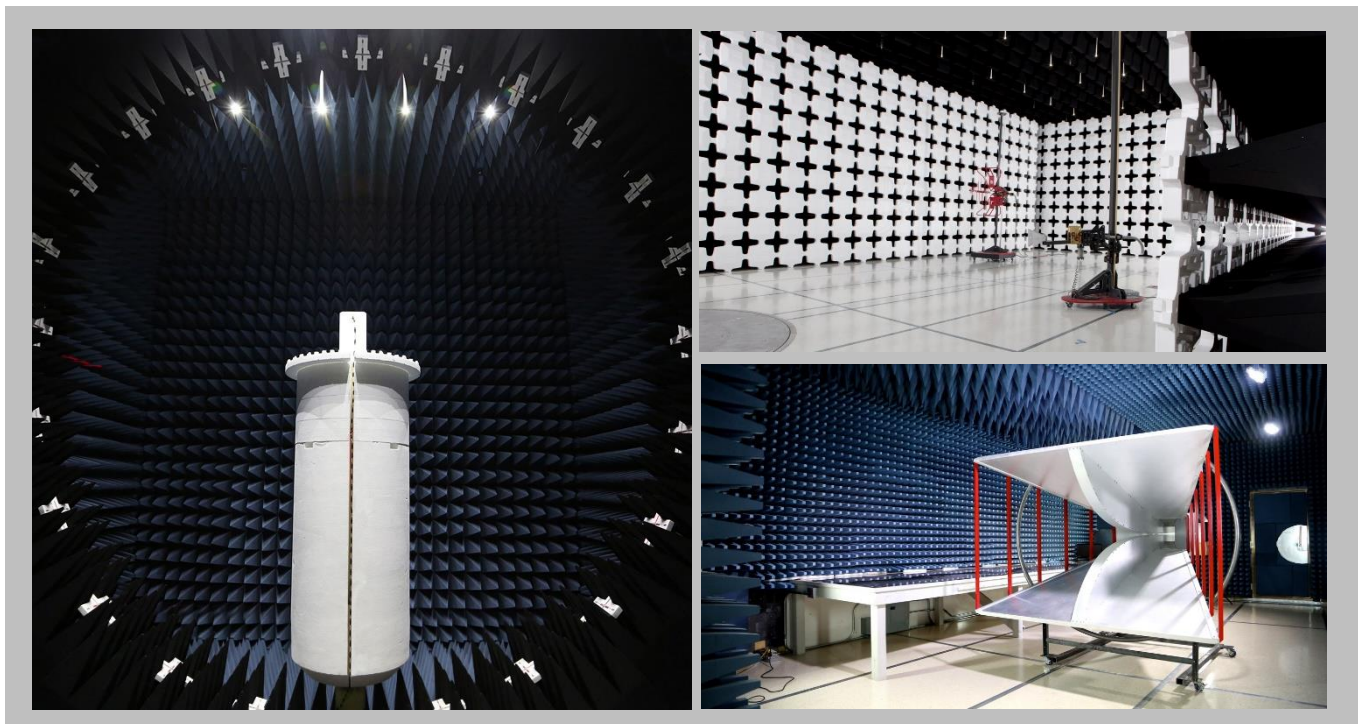
[Texas](#)

[Washington](#)

FACILITIES



| | | | | |
|---|---|---|--|---|
| California Labs OC01-17 41 Tesla Irvine, CA 92618 (949) 861-8918 | Minnesota Labs MN01-11 9349 W Broadway Ave. Brooklyn Park, MN 55445 (612)-638-5136 | Oregon Labs EV01-12 6775 NE Evergreen Pkwy #400 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 |
| A2LA | | | | |
| Lab Code: 3310.04 | Lab Code: 3310.05 | Lab Code: 3310.02 | Lab Code: 3310.03 | Lab Code: 3310.06 |
| Innovation, Science and Economic Development Canada | | | | |
| 2834B-1, 2834B-3 | 2834E-1, 2834E-3 | 2834D-1 | 2834G-1 | 2834F-1 |
| BSMI | | | | |
| SL2-IN-E-1154R | SL2-IN-E-1152R | SL2-IN-E-1017 | SL2-IN-E-1158R | SL2-IN-E-1153R |
| VCCI | | | | |
| A-0029 | A-0109 | A-0108 | A-0201 | A-0110 |
| Recognized Phase I CAB for ISED, ACMA, BSMI, IDA, KCC/RRA, MIC, MOC, NCC, OFCA | | | | |
| US0158 | US0175 | 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 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 in the table below. A lab specific value may also be found in the applicable test description section. 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 | 0.0007% | -0.0007% |
| Amplitude Accuracy (dB) | 1.2 dB | -1.2 dB |
| Conducted Power (dB) | 1.2 dB | -1.2 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) | 3.2 dB | -3.2 dB |

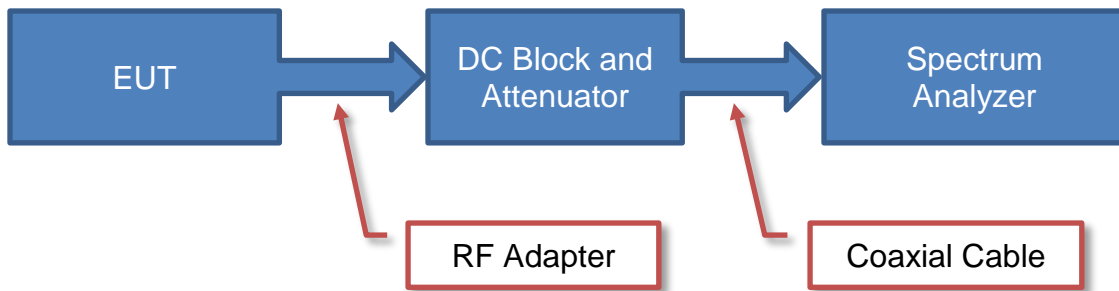
TEST SETUP BLOCK DIAGRAMS

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 |

Unless otherwise stated, measurements were made using the bandwidths and detectors specified. No video filter was used.

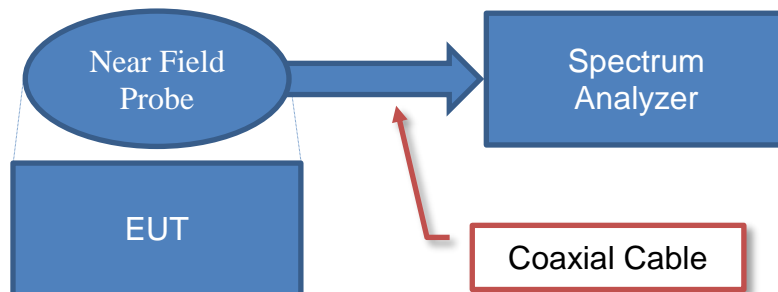
Antenna Port Conducted Measurements



Sample Calculation (logarithmic units)

| | | | | |
|----------------|---|----------------|---|------------------------|
| Measured Value | = | Measured Level | + | Reference Level Offset |
| 71.2 | | 42.6 | | 28.6 |

Near Field Test Fixture Measurements

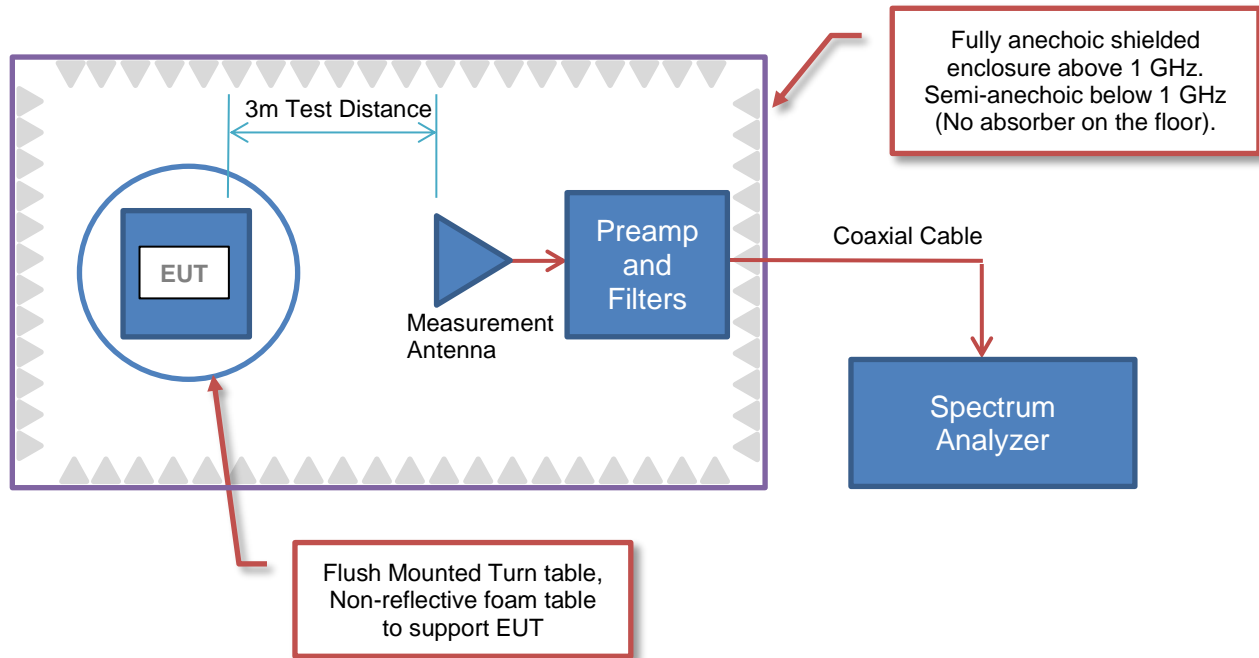


Sample Calculation (logarithmic units)

| | | | | |
|----------------|---|----------------|---|------------------------|
| Measured Value | = | Measured Level | + | Reference Level Offset |
| 71.2 | | 42.6 | | 28.6 |

TEST SETUP BLOCK DIAGRAMS

Emissions Measurements



Sample Calculation (logarithmic units)

Radiated Emissions:

| Measured Level (Amplitude) | Factor | | | Distance Adjustment Factor | External Attenuation | Field Strength |
|----------------------------|----------------|--------------|----------------|----------------------------|----------------------|----------------|
| | Antenna Factor | Cable Factor | Amplifier Gain | | | |
| 42.6 | 28.6 | 3.1 | 40.8 | 0.0 | 0.0 | 33.5 |

42.6 + 28.6 + 3.1 - 40.8 + 0.0 + 0.0 = 33.5

Conducted Emissions:

| Measured Level (Amplitude) | Factor | | External Attenuation | Adjusted Level |
|----------------------------|-------------------|--------------|----------------------|----------------|
| | Transducer Factor | Cable Factor | | |
| 26.7 | 0.3 | 0.1 | 20.0 | 47.1 |

26.7 + 0.3 + 0.1 + 20.0 = 47.1

Radiated Power (ERP/EIRP) – Substitution Method:

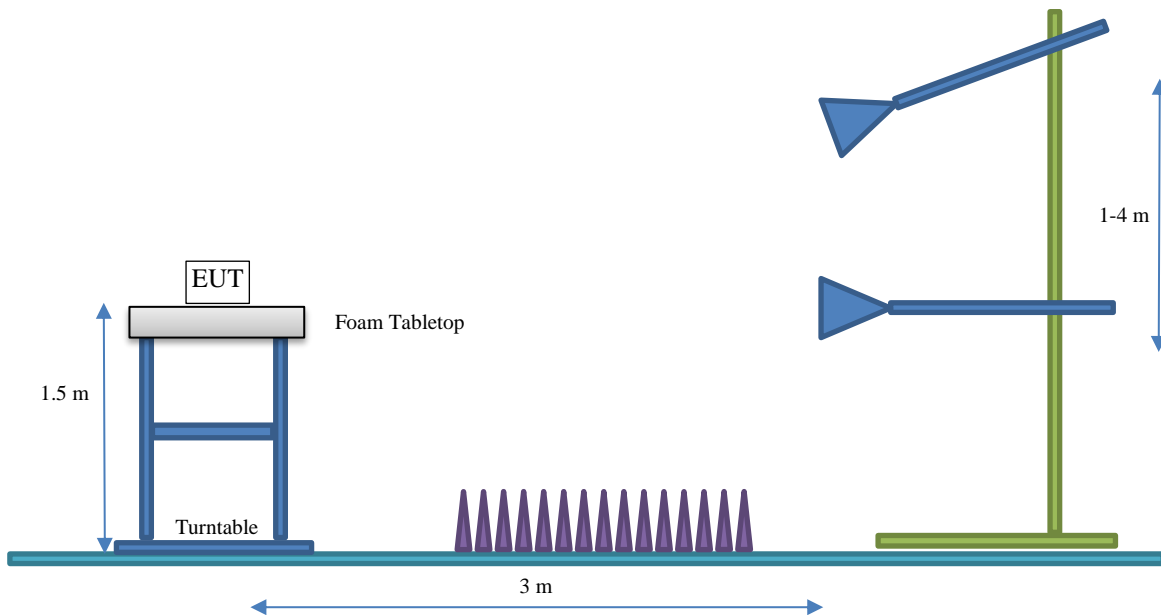
| Measured Level into Substitution Antenna (Amplitude dBm) | Substitution Antenna Factor (dBi) | EIRP to ERP (if applicable) | Measured power (dBm ERP/EIRP) |
|--|-----------------------------------|-----------------------------|-------------------------------|
| 10.0 | 6.0 | 2.15 | 13.9/16.0 |

10.0 + 6.0 - 2.15 = 13.9/16.0

TEST SETUP BLOCK DIAGRAMS

Bore Sighting (>1GHz)

The diameter of the illumination area is the dimension of the line tangent to the EUT formed by 3 dB beamwidth of the measurement antenna at the measurement distance. At a 3 meter test distance, the diameter of the illumination area was 3.8 meters at 1 GHz and greater than 2.1 meters up to 6 GHz. Above 1 GHz, when required by the measurement standard, the antenna is pointed for both azimuth and elevation to maintain the receive antenna within the cone of radiation from the EUT. The specified measurement detectors were used for comparison of the emissions to the peak and average specification limits.



PRODUCT DESCRIPTION



Client and Equipment under Test (EUT) Information

| | |
|---------------------------------|--------------------------------|
| Company Name: | Kymeta Corp. |
| Address: | 12034 134th Court NE, Ste. 102 |
| City, State, Zip: | Redmond, WA 98052 |
| Test Requested By: | Michael Olsen |
| EUT: | U8 Hawk |
| First Date of Test: | October 6, 2022 |
| Last Date of Test: | June 16, 2023 |
| Receipt Date of Samples: | October 6, 2022 |
| 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 Kymeta U8 Hawk is a flat panel electronically beam steered Satellite Earth Station which has been integrated with Cellular and Wi-Fi modem capabilities into a complete turnkey terminal.

Testing Objective:

To demonstrate compliance of the Wi-Fi 802.11 b/g/n/ax 2x2 MIMO radio under FCC 15.247/RSS-247 for operation in the 2.4 GHz band.

POWER SETTINGS AND ANTENNAS



The power settings, antenna gain value(s) and cable loss (if applicable) used for the testing contained in this report were provided by the customer and will affect the validity of the results. Element assumes no responsibility for the accuracy of this information. The power settings below reflect the maximum power that the EUT is allowed to transmit at during normal operation.

ANTENNA GAIN (dBi)

| Antenna Position | Type | Provided by: | Frequency Range (MHz) | PK Gain (dBi) |
|------------------|--------------|--------------|-----------------------|---------------|
| Chain 0 | Ceramic Chip | Kymeta Corp. | 2400 – 2500 | 2.4 |
| Chain 1 | Ceramic Chip | Kymeta Corp. | 2400 – 2500 | 3.2 |

The EUT was tested using the power settings provided by the manufacturer which were based upon:

- Test software settings Test software/firmware installed on EUT: **8.2.1S105 Build 5080**
 Rated power settings

| Select which applies | Transmitter configuration |
|----------------------|--|
| Support | Single transmitter with multiple outputs |
| Support | Multiple transmitters operating simultaneously |
| No | OFDMA Capability |
| Select which applies | Antenna configuration |
| Support | SISO – Chain 0 |
| Support | SISO – Chain 1 |
| Support | Spatial diversity multiplexing: Chains 0 + 1 |
| Support | Cyclic Delay Diversity: Chains 0 + 1 |
| Support | Space-Time Block Coding: Chains 0 + 1 |
| No | Beam-forming |

SETTINGS FOR ALL TESTS IN THIS REPORT

| Chain | Modulation Mode | Modulation Types | Channel Bandwidths (MHz) | 20 MHz Channels | Channel Position | Frequency Range (MHz) | Power Setting (dBm) |
|-------|-----------------|------------------|--------------------------|-----------------|------------------|-----------------------|---------------------|
| 0, 1 | CCK | 1 Mbps | 20 | 1, 6, 11 | L / M / H | 2400-2483.5 | 20 |
| 0, 1 | | 11 Mbps | 20 | 1, 6, 11 | L / M / H | 2400-2483.5 | 20 |
| 0, 1 | Legacy OFDM | 6 Mbps | 20 | 1, 6, 11 | L / M / H | 2400-2483.5 | 20 |
| 0, 1 | | 36 Mbps | 20 | 1, 6, 11 | L / M / H | 2400-2483.5 | 20** |
| 0, 1 | | 54 Mbps | 20 | 1, 6, 11 | L / M / H | 2400-2483.5 | 20** |
| 0, 1 | HT20 | MCS0 | 20 | 1, 6, 11 | L / M / H | 2400-2483.5 | 18 |
| 0, 1 | | MCS7 | 20 | 1, 6, 11 | L / M / H | 2400-2483.5 | 18 |
| *01 | | MCS8 | 20 | 1, 6, 11 | L / M / H | 2400-2483.5 | 18 |
| *01 | | MCS15 | 20 | 1, 6, 11 | L / M / H | 2400-2483.5 | 18 |
| 0, 1 | VHT20 | MCS0 | 20 | 1, 6, 11 | L / M / H | 2400-2483.5 | 18 |
| 0, 1 | | MCS8 | 20 | 1, 6, 11 | L / M / H | 2400-2483.5 | 18 |
| *01 | | MCS0 | 20 | 1, 6, 11 | L / M / H | 2400-2483.5 | 18 |
| *01 | | MCS8 | 20 | 1, 6, 11 | L / M / H | 2400-2483.5 | 18 |
| 0, 1 | HE20 | MCS0 | 20 | 1, 6, 11 | L / M / H | 2400-2483.5 | 18 |
| 0, 1 | | MCS11 | 20 | 1, 6, 11 | L / M / H | 2400-2483.5 | 18 |
| *01 | | MCS0 | 20 | 1, 6, 11 | L / M / H | 2400-2483.5 | 18 |
| *01 | | MCS11 | 20 | 1, 6, 11 | L / M / H | 2400-2483.5 | 18 |

*Indicates MIMO mode of operation

**Power setting for Chain 1, Legacy OFDM, Channel 11 = 18 dBm

CONFIGURATIONS



Configuration KYME0068-1

| Software/Firmware Running During Test | |
|---------------------------------------|----------------------|
| Description | Version |
| Wifi Firmware | 8.2.1S105 Build 5080 |

| EUT | | | |
|---------------|--------------|-------------------|----------------|
| Description | Manufacturer | Model/Part Number | Serial Number |
| 802.11ax Wifi | Peplink | Peplink MAX HD1 | 192F-85E2-1761 |

| Peripherals in Test Setup Boundary | | | |
|------------------------------------|-------------------------------|-------------------|---------------|
| Description | Manufacturer | Model/Part Number | Serial Number |
| Switching Adapter | DEE VAN ENTERPRISES CO., LTD. | DAS-26PFN-12FUS | None |

| Remote Equipment Outside of Test Setup Boundary | | | |
|---|--------------|-------------------|---------------|
| Description | Manufacturer | Model/Part Number | Serial Number |
| Laptop | Dell | Latitude 7480 | 5550067478 |

| Cables | | | | | |
|------------|--------|------------|---------|---------------|-------------------|
| Cable Type | Shield | Length (m) | Ferrite | Connection 1 | Connection 2 |
| LMR240 | Yes | 0.9 | No | 802.11ax Wifi | Unterminated |
| DC Power | No | 1.5 | No | 802.11ax Wifi | Switching Adapter |
| Cat5 | No | 1.0 | No | 802.11ax Wifi | Laptop |

Configuration KYME0068-2

| Software/Firmware Running During Test | |
|---------------------------------------|----------------------|
| Description | Version |
| Wifi Firmware | 8.2.1S105 Build 5080 |

| EUT | | | |
|-------------------------|--------------|-------------------|------------------|
| Description | Manufacturer | Model/Part Number | Serial Number |
| Satellite Earth Station | Kymeta Corp. | U8 Hawk | ACK207K220907009 |

| Peripherals in Test Setup Boundary | | | |
|------------------------------------|--------------|-------------------|---------------|
| Description | Manufacturer | Model/Part Number | Serial Number |
| AC/DC Adapter | Mean Well | HLG-600H-24 | TC13090268 |

| Remote Equipment Outside of Test Setup Boundary | | | |
|---|--------------|-------------------|---------------|
| Description | Manufacturer | Model/Part Number | Serial Number |
| Laptop | Dell | Latitude 7480 | 5550067478 |

| Cables | | | | | |
|------------|--------|------------|---------|-------------------------|-------------------------|
| Cable Type | Shield | Length (m) | Ferrite | Connection 1 | Connection 2 |
| AC Power | No | 1.8 | Yes | AC Power | AC/DC Adapter |
| DC Power | No | 3.2 | No | AC/DC Adapter | Satellite Earth Station |
| Cat5 | Yes | 7 | No | Satellite Earth Station | Laptop |

CONFIGURATIONS



Configuration KYME0068-5

| Software/Firmware Running During Test | |
|---------------------------------------|----------------------|
| Description | Version |
| Wifi Firmware | 8.2.1S105 Build 5080 |

| EUT | | | |
|---------------|--------------|-------------------|----------------|
| Description | Manufacturer | Model/Part Number | Serial Number |
| 802.11ax Wifi | Peplink | Peplink MAX HD1 | 192F-85E1-1752 |

| Peripherals in Test Setup Boundary | | | |
|------------------------------------|-------------------------------|-------------------|------------------|
| Description | Manufacturer | Model/Part Number | Serial Number |
| Switching Adapter | DEE VAN ENTERPRISES CO., LTD. | DAS-26PFN-12FUS | None |
| Laptop | Dell | Latitude 7430 | Asset Tag: 11217 |

| Cables | | | | | |
|------------|--------|------------|---------|---------------|-------------------|
| Cable Type | Shield | Length (m) | Ferrite | Connection 1 | Connection 2 |
| LMR240 | Yes | 0.9 | No | 802.11ax Wifi | Unterminated |
| DC Power | No | 1.5 | No | 802.11ax Wifi | Switching Adapter |
| Cat5 | No | 1.0 | No | 802.11ax Wifi | Laptop |

Configuration KYME0071- 6

| Software/Firmware Running During Test | |
|---------------------------------------|----------------------|
| Description | Version |
| Wifi Firmware | 8.2.1S105 Build 5080 |

| EUT | | | |
|-------------------------|--------------|-------------------|------------------|
| Description | Manufacturer | Model/Part Number | Serial Number |
| Satellite Earth Station | Kymeta Corp. | U8 Hawk | ACN214K220915001 |

| Peripherals in Test Setup Boundary | | | |
|------------------------------------|--------------|-------------------|---------------|
| Description | Manufacturer | Model/Part Number | Serial Number |
| AC/DC Adapter | Mean Well | HLG-600H-24 | TC13090268 |

| Remote Equipment Outside of Test Setup Boundary | | | |
|---|--------------|-------------------|---------------|
| Description | Manufacturer | Model/Part Number | Serial Number |
| Laptop | Dell | Latitude 7480 | 5550067478 |

| Cables | | | | | |
|------------|--------|------------|---------|-------------------------|-------------------------|
| Cable Type | Shield | Length (m) | Ferrite | Connection 1 | Connection 2 |
| AC Power | No | 1.8 | Yes | AC Power | AC/DC Adapter |
| DC Power | No | 3.2 | No | AC/DC Adapter | Satellite Earth Station |
| Cat5 | Yes | 7 | No | Satellite Earth Station | Laptop |

CONFIGURATIONS



Configuration KYME0082- 9

| Software/Firmware Running During Test | |
|---------------------------------------|----------------------|
| Description | Version |
| Wifi Firmware | 8.2.1S105 Build 5080 |

| EUT | | | |
|-------------------------|--------------|-------------------|------------------|
| Description | Manufacturer | Model/Part Number | Serial Number |
| Satellite Earth Station | Kymeta Corp. | U8 Hawk | ACN214K220915001 |

| Peripherals in Test Setup Boundary | | | |
|------------------------------------|--------------|-------------------|---------------|
| Description | Manufacturer | Model/Part Number | Serial Number |
| AC/DC Adapter | Mean Well | HLG-600H-24 | TC13090266 |

| Remote Equipment Outside of Test Setup Boundary | | | |
|---|--------------|-------------------|---------------|
| Description | Manufacturer | Model/Part Number | Serial Number |
| Laptop | Dell | Latitude 7480 | 5550067478 |

| Cables | | | | | |
|------------|--------|------------|---------|-------------------------|-------------------------|
| Cable Type | Shield | Length (m) | Ferrite | Connection 1 | Connection 2 |
| AC Power | No | 1.8 | Yes | AC Power | AC/DC Adapter |
| DC Power | No | 3.2 | No | AC/DC Adapter | Satellite Earth Station |
| Cat5 | Yes | 7 | No | Satellite Earth Station | Laptop |

MODIFICATIONS



Equipment Modifications

| Item | Date | Test | Modification | Note | Disposition of EUT |
|------|------------|--|--------------------------------------|---|---|
| 1 | 2022-10-06 | DTS 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 | 2022-10-17 | Powerline 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. |
| 3 | 2023-03-15 | 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. |
| 4 | 2023-03-15 | 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. |
| 5 | 2023-03-15 | 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 | 2023-03-15 | Equivalent Isotropic 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. |
| 7 | 2023-03-15 | 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. |
| 8 | 2023-03-15 | 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. |
| 9 | 2023-03-15 | 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. |
| 10 | 2023-06-16 | Spurious Radiated Emissions | Tested as delivered to test Station. | No EMI suppression devices were added or modified during this test. | Scheduled testing was completed. |

POWERLINE CONDUCTED EMISSIONS



TEST DESCRIPTION

Using the mode of operation and configuration noted within this report, conducted emissions tests were performed. The frequency range investigated (scanned), is also noted in this report. Conducted power line measurements are made, unless otherwise specified, over the frequency range from 150 kHz to 30 MHz to determine the line-to-ground radio-noise voltage that is conducted from the EUT power-input terminals that are directly (or indirectly via separate transformer or power supplies) connected to a public power network. Per the standard, an insulating material was also added to ground plane between the EUT's power and remote I/O cables. Equipment is tested with power cords that are normally used or that have electrical or shielding characteristics that are the same as those cords normally used. Typically those measurements are made using a LISN (Line Impedance Stabilization Network), the 50ohm measuring port is terminated by a 50ohm EMI meter or a 50ohm resistive load. All 50ohm measuring ports of the LISN are terminated by 50ohm. The test data represents the configuration / operating mode/ model that produced the highest emission levels as compared to the specification limit.

TEST EQUIPMENT

| Description | Manufacturer | Model | ID | Last Cal. | Cal. Due |
|----------------------------------|-------------------|------------------|------|------------|------------|
| Receiver | Gauss Instruments | TDEMI 30M | ARN | 2022-04-20 | 2023-04-20 |
| Cable - Conducted Cable Assembly | Northwest EMC | EVG, HHD, RKT | EVGA | 2022-01-04 | 2023-01-04 |
| LISN | Solar Electronics | 9252-50-R-24-BNC | LIP | 2022-09-08 | 2023-09-08 |

MEASUREMENT UNCERTAINTY

| Description | | |
|--------------|--------|---------|
| Expanded k=2 | 3.2 dB | -3.2 dB |

CONFIGURATIONS INVESTIGATED

| |
|------------|
| KYME0068-2 |
|------------|

MODES INVESTIGATED

| |
|--|
| On - WiFi: Tx - Chain 0, Ch. 6, 1 Mbps |
|--|

POWERLINE CONDUCTED EMISSIONS



| | | | |
|-------------------|------------------------|-----------------------|------------|
| EUT: | U8 Hawk | Work Order: | KYME0068 |
| Serial Number: | ACK207K220907009 | Date: | 2022-10-17 |
| Customer: | Kymeta Corp. | Temperature: | 22.3°C |
| Attendees: | Dean Busch | Relative Humidity: | 44.9% |
| Customer Project: | None | Bar. Pressure (PMSL): | 1023 mb |
| Tested By: | Jeff Alcoke | Job Site: | EV07 |
| Power: | 12 VDC via 110VAC/60Hz | Configuration: | KYME0068-2 |

TEST SPECIFICATIONS

| | |
|--------------------------------------|------------------|
| Specification: | Method: |
| FCC 15.207:2022 | ANSI C63.10:2013 |
| RSS-Gen Issue 5:2018+A1:2019+A2:2021 | ANSI C63.10:2013 |

TEST PARAMETERS

| | | | | | |
|--------|---|-------|---------|-----------------------------|---|
| Run #: | 2 | Line: | Neutral | Add. Ext. Attenuation (dB): | 0 |
|--------|---|-------|---------|-----------------------------|---|

COMMENTS

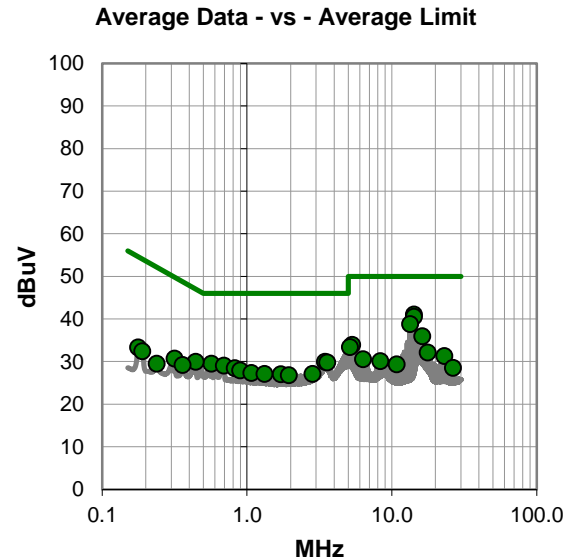
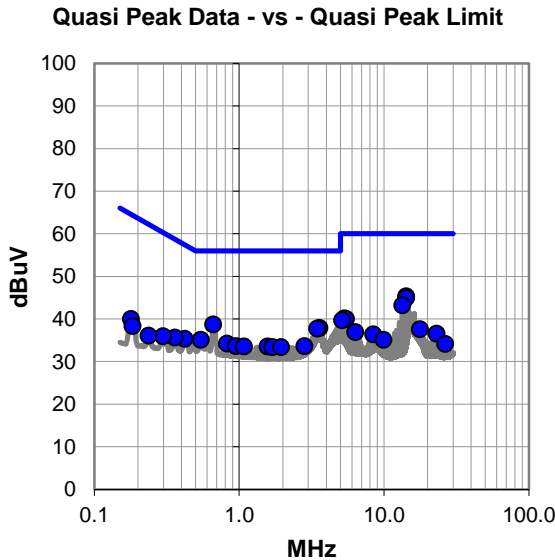
None

EUT OPERATING MODES

On - WiFi: Tx - Chain 0, Ch. 6, 1 Mbps

DEVIATIONS FROM TEST STANDARD

None



POWERLINE CONDUCTED EMISSIONS



RESULTS - Run #2

Quasi Peak Data - vs - Quasi Peak Limit

| Freq (MHz) | Amp. (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Margin (dB) |
|------------|-------------|-------------|-----------------|--------------------|-------------|
| 14.213 | 25.0 | 20.3 | 45.3 | 60.0 | -14.7 |
| 14.273 | 24.6 | 20.3 | 44.9 | 60.0 | -15.1 |
| 13.418 | 22.9 | 20.3 | 43.2 | 60.0 | -16.8 |
| 0.661 | 19.0 | 19.7 | 38.7 | 56.0 | -17.3 |
| 3.585 | 17.9 | 20.0 | 37.9 | 56.0 | -18.1 |
| 3.461 | 17.7 | 20.0 | 37.7 | 56.0 | -18.3 |
| 5.339 | 20.0 | 20.1 | 40.1 | 60.0 | -19.9 |
| 5.461 | 19.9 | 20.1 | 40.0 | 60.0 | -20.0 |
| 5.159 | 19.6 | 20.1 | 39.7 | 60.0 | -20.3 |
| 0.542 | 15.4 | 19.7 | 35.1 | 56.0 | -20.9 |
| 0.824 | 14.4 | 19.8 | 34.2 | 56.0 | -21.8 |
| 0.420 | 15.5 | 19.8 | 35.3 | 57.4 | -22.1 |
| 0.953 | 13.8 | 19.8 | 33.6 | 56.0 | -22.4 |
| 2.829 | 13.6 | 20.0 | 33.6 | 56.0 | -22.4 |
| 17.692 | 17.1 | 20.5 | 37.6 | 60.0 | -22.4 |
| 1.078 | 13.7 | 19.8 | 33.5 | 56.0 | -22.5 |
| 1.572 | 13.7 | 19.8 | 33.5 | 56.0 | -22.5 |
| 1.699 | 13.5 | 19.9 | 33.4 | 56.0 | -22.6 |
| 1.949 | 13.4 | 20.0 | 33.4 | 56.0 | -22.6 |
| 6.336 | 16.8 | 20.1 | 36.9 | 60.0 | -23.1 |
| 0.359 | 15.8 | 19.8 | 35.6 | 58.8 | -23.2 |
| 23.127 | 15.8 | 20.7 | 36.5 | 60.0 | -23.5 |
| 8.446 | 16.3 | 20.1 | 36.4 | 60.0 | -23.6 |
| 0.298 | 16.0 | 19.9 | 35.9 | 60.3 | -24.4 |
| 0.179 | 20.1 | 19.9 | 40.0 | 64.5 | -24.5 |

Average Data - vs - Average Limit

| Freq (MHz) | Amp. (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Margin (dB) |
|------------|-------------|-------------|-----------------|--------------------|-------------|
| 14.213 | 20.7 | 20.3 | 41.0 | 50.0 | -9.0 |
| 14.274 | 20.2 | 20.3 | 40.5 | 50.0 | -9.5 |
| 13.418 | 18.5 | 20.3 | 38.8 | 50.0 | -11.2 |
| 16.227 | 15.4 | 20.5 | 35.9 | 50.0 | -14.1 |
| 5.338 | 13.8 | 20.1 | 33.9 | 50.0 | -16.1 |
| 3.456 | 9.9 | 20.0 | 29.9 | 46.0 | -16.1 |
| 3.585 | 9.8 | 20.0 | 29.8 | 46.0 | -16.2 |
| 0.568 | 9.8 | 19.7 | 29.5 | 46.0 | -16.5 |
| 5.155 | 13.3 | 20.1 | 33.4 | 50.0 | -16.6 |
| 0.693 | 9.3 | 19.7 | 29.0 | 46.0 | -17.0 |
| 0.443 | 10.2 | 19.7 | 29.9 | 47.0 | -17.1 |
| 0.823 | 8.6 | 19.8 | 28.4 | 46.0 | -17.6 |
| 17.694 | 11.6 | 20.5 | 32.1 | 50.0 | -17.9 |
| 0.901 | 8.1 | 19.8 | 27.9 | 46.0 | -18.1 |
| 23.129 | 10.6 | 20.7 | 31.3 | 50.0 | -18.7 |
| 1.076 | 7.5 | 19.8 | 27.3 | 46.0 | -18.7 |
| 1.322 | 7.3 | 19.8 | 27.1 | 46.0 | -18.9 |
| 2.834 | 7.1 | 20.0 | 27.1 | 46.0 | -18.9 |
| 1.712 | 7.1 | 19.9 | 27.0 | 46.0 | -19.0 |
| 0.316 | 10.9 | 19.8 | 30.7 | 49.8 | -19.1 |
| 1.950 | 6.8 | 20.0 | 26.8 | 46.0 | -19.2 |
| 6.336 | 10.4 | 20.1 | 30.5 | 50.0 | -19.5 |
| 0.359 | 9.4 | 19.8 | 29.2 | 48.8 | -19.6 |
| 8.345 | 10.0 | 20.1 | 30.1 | 50.0 | -19.9 |
| 10.794 | 9.0 | 20.3 | 29.3 | 50.0 | -20.7 |

CONCLUSION

Pass

Tested By

POWERLINE CONDUCTED EMISSIONS



| | | | |
|-------------------|------------------------|-----------------------|------------|
| EUT: | U8 Hawk | Work Order: | KYME0068 |
| Serial Number: | ACK207K220907009 | Date: | 2022-10-17 |
| Customer: | Kymeta Corp. | Temperature: | 22.3°C |
| Attendees: | Dean Busch | Relative Humidity: | 44.9% |
| Customer Project: | None | Bar. Pressure (PMSL): | 1023 mb |
| Tested By: | Jeff Alcoke | Job Site: | EV07 |
| Power: | 12 VDC via 110VAC/60Hz | Configuration: | KYME0068-2 |

TEST SPECIFICATIONS

| | |
|--------------------------------------|------------------|
| Specification: | Method: |
| FCC 15.207:2022 | ANSI C63.10:2013 |
| RSS-Gen Issue 5:2018+A1:2019+A2:2021 | ANSI C63.10:2013 |

TEST PARAMETERS

| | | | | | |
|--------|---|-------|-----------|-----------------------------|---|
| Run #: | 3 | Line: | High Line | Add. Ext. Attenuation (dB): | 0 |
|--------|---|-------|-----------|-----------------------------|---|

COMMENTS

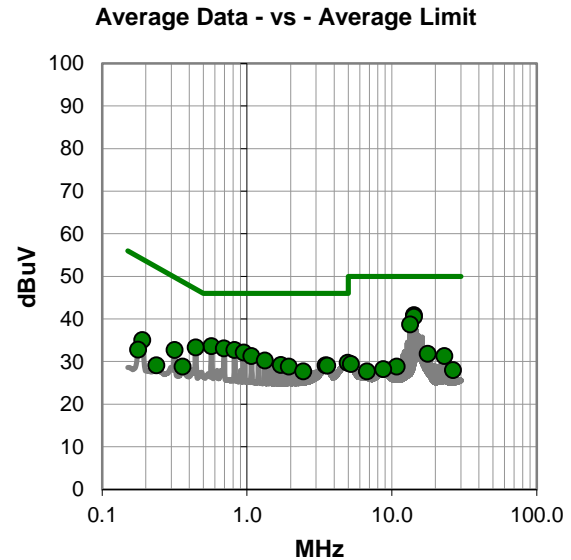
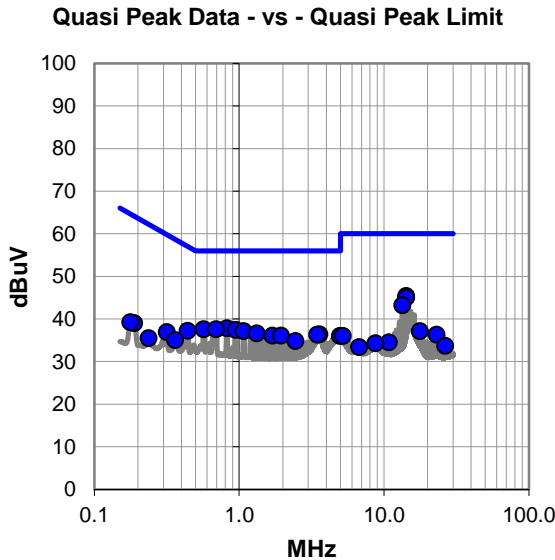
None

EUT OPERATING MODES

On - WiFi: Tx - Chain 0, Ch. 6, 1 Mbps

DEVIATIONS FROM TEST STANDARD

None



POWERLINE CONDUCTED EMISSIONS



RESULTS - Run #3

Quasi Peak Data - vs - Quasi Peak Limit

| Freq (MHz) | Amp. (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Margin (dB) |
|------------|-------------|-------------|-----------------|--------------------|-------------|
| 14.213 | 25.1 | 20.3 | 45.4 | 60.0 | -14.6 |
| 14.273 | 24.7 | 20.3 | 45.0 | 60.0 | -15.0 |
| 13.418 | 22.9 | 20.3 | 43.2 | 60.0 | -16.8 |
| 0.824 | 18.0 | 19.8 | 37.8 | 56.0 | -18.2 |
| 0.570 | 17.9 | 19.7 | 37.6 | 56.0 | -18.4 |
| 0.693 | 17.9 | 19.7 | 37.6 | 56.0 | -18.4 |
| 0.943 | 17.6 | 19.8 | 37.4 | 56.0 | -18.6 |
| 1.076 | 17.3 | 19.8 | 37.1 | 56.0 | -18.9 |
| 1.320 | 16.8 | 19.8 | 36.6 | 56.0 | -19.4 |
| 3.582 | 16.4 | 20.0 | 36.4 | 56.0 | -19.6 |
| 3.463 | 16.3 | 20.0 | 36.3 | 56.0 | -19.7 |
| 0.440 | 17.4 | 19.8 | 37.2 | 57.1 | -19.9 |
| 1.697 | 16.2 | 19.9 | 36.1 | 56.0 | -19.9 |
| 1.950 | 16.1 | 20.0 | 36.1 | 56.0 | -19.9 |
| 4.972 | 15.9 | 20.1 | 36.0 | 56.0 | -20.0 |
| 2.454 | 14.8 | 20.0 | 34.8 | 56.0 | -21.2 |
| 0.316 | 17.1 | 19.8 | 36.9 | 59.8 | -22.9 |
| 17.694 | 16.6 | 20.5 | 37.1 | 60.0 | -22.9 |
| 0.361 | 15.2 | 19.8 | 35.0 | 58.7 | -23.7 |
| 23.129 | 15.6 | 20.7 | 36.3 | 60.0 | -23.7 |
| 5.210 | 15.9 | 20.1 | 36.0 | 60.0 | -24.0 |
| 0.188 | 19.1 | 19.9 | 39.0 | 64.1 | -25.1 |
| 0.177 | 19.3 | 19.9 | 39.2 | 64.6 | -25.4 |
| 10.792 | 14.2 | 20.3 | 34.5 | 60.0 | -25.5 |
| 8.716 | 14.2 | 20.1 | 34.3 | 60.0 | -25.7 |

Average Data - vs - Average Limit

| Freq (MHz) | Amp. (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Margin (dB) |
|------------|-------------|-------------|-----------------|--------------------|-------------|
| 14.212 | 20.6 | 20.3 | 40.9 | 50.0 | -9.1 |
| 14.274 | 20.2 | 20.3 | 40.5 | 50.0 | -9.5 |
| 13.418 | 18.4 | 20.3 | 38.7 | 50.0 | -11.3 |
| 0.568 | 13.9 | 19.7 | 33.6 | 46.0 | -12.4 |
| 0.695 | 13.4 | 19.7 | 33.1 | 46.0 | -12.9 |
| 0.821 | 12.9 | 19.8 | 32.7 | 46.0 | -13.3 |
| 0.443 | 13.6 | 19.7 | 33.3 | 47.0 | -13.7 |
| 0.948 | 12.3 | 19.8 | 32.1 | 46.0 | -13.9 |
| 1.076 | 11.5 | 19.8 | 31.3 | 46.0 | -14.7 |
| 1.331 | 10.4 | 19.8 | 30.2 | 46.0 | -15.8 |
| 4.962 | 9.6 | 20.1 | 29.7 | 46.0 | -16.3 |
| 1.711 | 9.3 | 19.9 | 29.2 | 46.0 | -16.8 |
| 3.488 | 9.1 | 20.0 | 29.1 | 46.0 | -16.9 |
| 3.582 | 9.0 | 20.0 | 29.0 | 46.0 | -17.0 |
| 0.316 | 12.9 | 19.8 | 32.7 | 49.8 | -17.1 |
| 1.952 | 8.8 | 20.0 | 28.8 | 46.0 | -17.2 |
| 17.694 | 11.3 | 20.5 | 31.8 | 50.0 | -18.2 |
| 2.452 | 7.7 | 20.0 | 27.7 | 46.0 | -18.3 |
| 23.129 | 10.6 | 20.7 | 31.3 | 50.0 | -18.7 |
| 0.190 | 15.1 | 19.9 | 35.0 | 54.1 | -19.1 |
| 0.359 | 9.0 | 19.8 | 28.8 | 48.8 | -20.0 |
| 5.214 | 9.3 | 20.1 | 29.4 | 50.0 | -20.6 |
| 10.792 | 8.5 | 20.3 | 28.8 | 50.0 | -21.2 |
| 8.716 | 8.1 | 20.1 | 28.2 | 50.0 | -21.8 |
| 0.177 | 12.9 | 19.9 | 32.8 | 54.6 | -21.8 |

CONCLUSION

Pass

Tested By

DUTY CYCLE - CHAIN 0



XMit 2022.02.07.0

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 | Keysight | N5182B | TFU | 2020-11-20 | 2022-11-20 |
| Cable | Micro-Coax | UFD150A-1-0720-200200 | EVI | 2021-12-05 | 2022-12-05 |
| Attenuator | S.M. Electronics | SA26B-10 | AWR | 2022-07-05 | 2023-07-05 |
| Attenuator | S.M. Electronics | SA26B-20 | AUY | 2022-03-15 | 2023-03-15 |
| Block - DC | Fairview Microwave | SD3379 | AMW | 2022-03-14 | 2023-03-14 |
| Analyzer - Spectrum Analyzer | Agilent | E4440A | AAW | 2022-01-26 | 2023-01-26 |

TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer.

The Duty Cycle (x) of the single channel operation of the radio as controlled by the provided test software was measured for each of the EUT operating modes.

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

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

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

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

DUTY CYCLE - CHAIN 0



TbTt 2022.06.03.0 XMI 2022.02.07.0

| | | | | | | | |
|--|---------------------------|-----------------------------|------------|------------------|-----------|-----------|---------|
| EUT: U8 Hawk | | Work Order: KYME0068 | | | | | |
| Serial Number: 192F-85E2-1761 | | Date: 10-Oct-22 | | | | | |
| Customer: Kymeta Corp. | | Temperature: 22 °C | | | | | |
| Attendees: Dean Busch | | Humidity: 44.1% RH | | | | | |
| Project: None | | Barometric Pres.: 1025 mbar | | | | | |
| Tested by: Jeff Alcock | | Power: 12 VDC | | | | | |
| Job Site: EV06 | | | | | | | |
| TEST SPECIFICATIONS | | Test Method | | | | | |
| FCC 15.247:2022 | | ANSI C63.10:2013 | | | | | |
| RSS-247 Issue 2:2017 | | ANSI C63.10:2013 | | | | | |
| COMMENTS | | | | | | | |
| Reference level offset includes: DC Block, 30 dB attenuation, and measurement cable. Only reporting duty cycle for Chain 0 as this is also representative of Chain 1. | | | | | | | |
| DEVIATIONS FROM TEST STANDARD | | | | | | | |
| None | | | | | | | |
| Configuration # | 1 | Signature | | | | | |
| | | Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results |
| Chain 0 | | | | | | | |
| CCK, 1 Mbps | | | | | | | |
| | Low Channel 1, 2412 MHz | 664.97 us | 2.119 ms | 2 | 62.8 | N/A | N/A |
| | Low Channel 1, 2412 MHz | N/A | N/A | 10 | N/A | N/A | N/A |
| | Mid Channel 6, 2437 MHz | 665.006 us | 2.128 ms | 2 | 62.5 | N/A | N/A |
| | Mid Channel 6, 2437 MHz | N/A | N/A | 10 | N/A | N/A | N/A |
| | High Channel 11, 2462 MHz | 665.002 us | 2.119 ms | 2 | 62.8 | N/A | N/A |
| | High Channel 11, 2462 MHz | N/A | N/A | 10 | N/A | N/A | N/A |
| CCK, 11 Mbps | | | | | | | |
| | Low Channel 1, 2412 MHz | 235.832 us | 2.121 ms | 3 | 33.4 | N/A | N/A |
| | Low Channel 1, 2412 MHz | N/A | N/A | 15 | N/A | N/A | N/A |
| | Mid Channel 6, 2437 MHz | 235.626 us | 2.121 ms | 3 | 33.4 | N/A | N/A |
| | Mid Channel 6, 2437 MHz | N/A | N/A | 14 | N/A | N/A | N/A |
| | High Channel 11, 2462 MHz | 235.832 us | 2.121 ms | 3 | 33.4 | N/A | N/A |
| | High Channel 11, 2462 MHz | N/A | N/A | 15 | N/A | N/A | N/A |
| Legacy OFDM, 6 Mbps | | | | | | | |
| | Low Channel 1, 2412 MHz | 1.977 ms | 2.146 ms | 1 | 92.1 | N/A | N/A |
| | Low Channel 1, 2412 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| | Mid Channel 6, 2437 MHz | 1.977 ms | 2.146 ms | 1 | 92.1 | N/A | N/A |
| | Mid Channel 6, 2437 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| | High Channel 11, 2462 MHz | 1.977 ms | 2.146 ms | 1 | 92.1 | N/A | N/A |
| | High Channel 11, 2462 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| Legacy OFDM, 36 Mbps | | | | | | | |
| | Low Channel 1, 2412 MHz | 348.922 us | 598.004 us | 1 | 58.3 | N/A | N/A |
| | Low Channel 1, 2412 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| | Mid Channel 6, 2437 MHz | 349.044 us | 607.088 us | 1 | 57.5 | N/A | N/A |
| | Mid Channel 6, 2437 MHz | N/A | N/A | 6 | N/A | N/A | N/A |
| | High Channel 11, 2462 MHz | 348.8 us | 562.1 us | 1 | 62.1 | N/A | N/A |
| | High Channel 11, 2462 MHz | N/A | N/A | 5 | N/A | N/A | N/A |
| Legacy OFDM, 54 Mbps | | | | | | | |
| | Low Channel 1, 2412 MHz | 240.678 us | 499.1 us | 1 | 48.2 | N/A | N/A |
| | Low Channel 1, 2412 MHz | N/A | N/A | 6 | N/A | N/A | N/A |
| | Mid Channel 6, 2437 MHz | 240.6 us | 499.1 us | 1 | 48.2 | N/A | N/A |
| | Mid Channel 6, 2437 MHz | N/A | N/A | 6 | N/A | N/A | N/A |
| | High Channel 11, 2462 MHz | 240.922 us | 499.134 us | 1 | 48.3 | N/A | N/A |
| | High Channel 11, 2462 MHz | N/A | N/A | 6 | N/A | N/A | N/A |

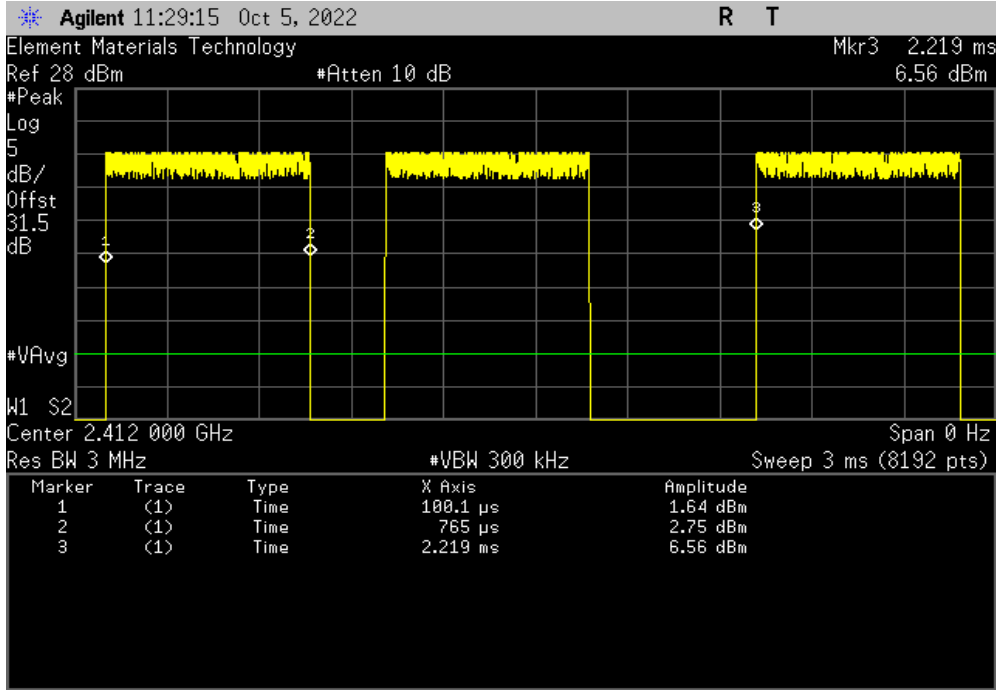
| | | | | | | | |
|---------------------------|----------|----------|---|------|-----|-----|-----|
| HT20, MCS0 | | | | | | | |
| Low Channel 1, 2412 MHz | 5.429 ms | 6.255 ms | 1 | 86.8 | N/A | N/A | N/A |
| Low Channel 1, 2412 MHz | N/A | N/A | 5 | N/A | N/A | N/A | N/A |
| Mid Channel 6, 2437 MHz | 5.429 ms | 6.255 ms | 1 | 86.8 | N/A | N/A | N/A |
| Mid Channel 6, 2437 MHz | N/A | N/A | 5 | N/A | N/A | N/A | N/A |
| High Channel 11, 2462 MHz | 5.429 ms | 6.255 ms | 1 | 86.8 | N/A | N/A | N/A |
| High Channel 11, 2462 MHz | N/A | N/A | 5 | N/A | N/A | N/A | N/A |
| HT20, MCS7 | | | | | | | |
| Low Channel 1, 2412 MHz | 5.429 ms | 6.254 ms | 1 | 86.8 | N/A | N/A | N/A |
| Low Channel 1, 2412 MHz | N/A | N/A | 5 | N/A | N/A | N/A | N/A |
| Mid Channel 6, 2437 MHz | 5.429 ms | 6.254 ms | 1 | 86.8 | N/A | N/A | N/A |
| Mid Channel 6, 2437 MHz | N/A | N/A | 5 | N/A | N/A | N/A | N/A |
| High Channel 11, 2462 MHz | 5.429 ms | 6.245 ms | 1 | 86.9 | N/A | N/A | N/A |
| High Channel 11, 2462 MHz | N/A | N/A | 5 | N/A | N/A | N/A | N/A |
| VHT20, MCS0 | | | | | | | |
| Low Channel 1, 2412 MHz | 5.429 ms | 6.246 ms | 1 | 86.9 | N/A | N/A | N/A |
| Low Channel 1, 2412 MHz | N/A | N/A | 5 | N/A | N/A | N/A | N/A |
| Mid Channel 6, 2437 MHz | 5.429 ms | 6.246 ms | 1 | 86.9 | N/A | N/A | N/A |
| Mid Channel 6, 2437 MHz | N/A | N/A | 5 | N/A | N/A | N/A | N/A |
| High Channel 11, 2462 MHz | 5.429 ms | 6.246 ms | 1 | 86.9 | N/A | N/A | N/A |
| High Channel 11, 2462 MHz | N/A | N/A | 5 | N/A | N/A | N/A | N/A |
| VHT20, MCS8 | | | | | | | |
| Low Channel 1, 2412 MHz | 5.43 ms | 6.254 ms | 1 | 86.8 | N/A | N/A | N/A |
| Low Channel 1, 2412 MHz | N/A | N/A | 5 | N/A | N/A | N/A | N/A |
| Mid Channel 6, 2437 MHz | 5.429 ms | 6.253 ms | 1 | 86.8 | N/A | N/A | N/A |
| Mid Channel 6, 2437 MHz | N/A | N/A | 5 | N/A | N/A | N/A | N/A |
| High Channel 11, 2462 MHz | 5.429 ms | 6.253 ms | 1 | 86.8 | N/A | N/A | N/A |
| High Channel 11, 2462 MHz | N/A | N/A | 5 | N/A | N/A | N/A | N/A |
| HE20, MCS0 | | | | | | | |
| Low Channel 1, 2412 MHz | 5.446 ms | 6.244 ms | 1 | 87.2 | N/A | N/A | N/A |
| Low Channel 1, 2412 MHz | N/A | N/A | 5 | N/A | N/A | N/A | N/A |
| Mid Channel 6, 2437 MHz | 5.446 ms | 6.244 ms | 1 | 87.2 | N/A | N/A | N/A |
| Mid Channel 6, 2437 MHz | N/A | N/A | 5 | N/A | N/A | N/A | N/A |
| High Channel 11, 2462 MHz | 5.446 ms | 6.244 ms | 1 | 87.2 | N/A | N/A | N/A |
| High Channel 11, 2462 MHz | N/A | N/A | 5 | N/A | N/A | N/A | N/A |
| HE20, MCS11 | | | | | | | |
| Low Channel 1, 2412 MHz | 5.446 ms | 6.252 ms | 1 | 87.1 | N/A | N/A | N/A |
| Low Channel 1, 2412 MHz | N/A | N/A | 5 | N/A | N/A | N/A | N/A |
| Mid Channel 6, 2437 MHz | 5.446 ms | 6.252 ms | 1 | 87.1 | N/A | N/A | N/A |
| Mid Channel 6, 2437 MHz | N/A | N/A | 5 | N/A | N/A | N/A | N/A |
| High Channel 11, 2462 MHz | 5.446 ms | 6.252 ms | 1 | 87.1 | N/A | N/A | N/A |
| High Channel 11, 2462 MHz | N/A | N/A | 5 | N/A | N/A | N/A | N/A |

DUTY CYCLE - CHAIN 0

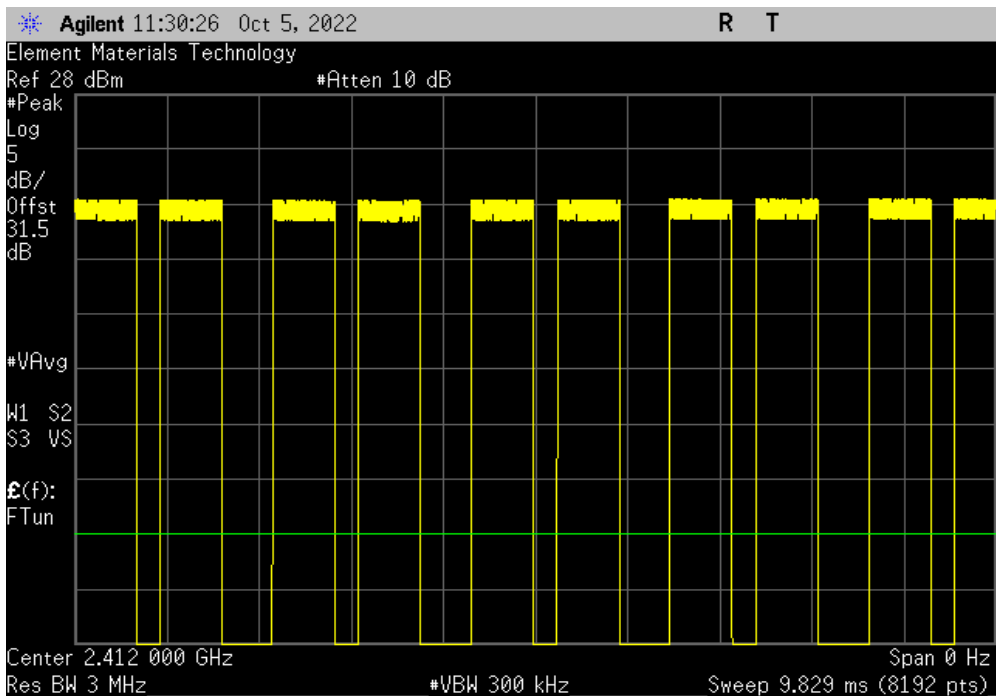


TuTx 2022.06.03.0 XMI 2022.02.07.0

| Chain 0, CCK, 1 Mbps, Low Channel 1, 2412 MHz | | | | | | |
|---|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 664.97 us | 2.119 ms | 2 | 62.8 | N/A | N/A | |



| Chain 0, CCK, 1 Mbps, Low Channel 1, 2412 MHz | | | | | | |
|---|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 10 | N/A | N/A | N/A | |

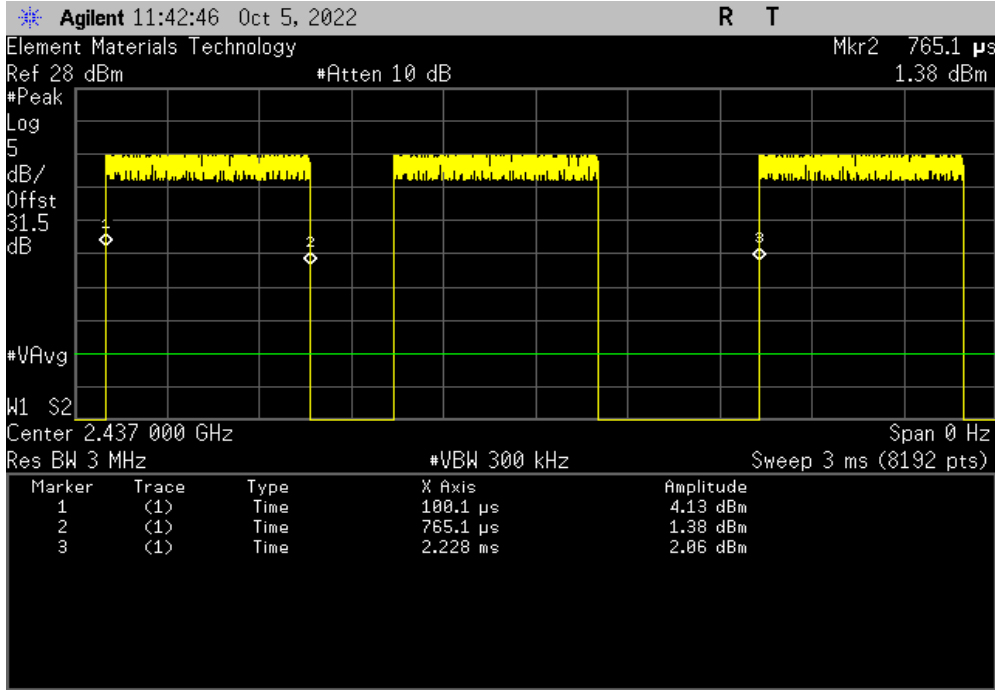


DUTY CYCLE - CHAIN 0

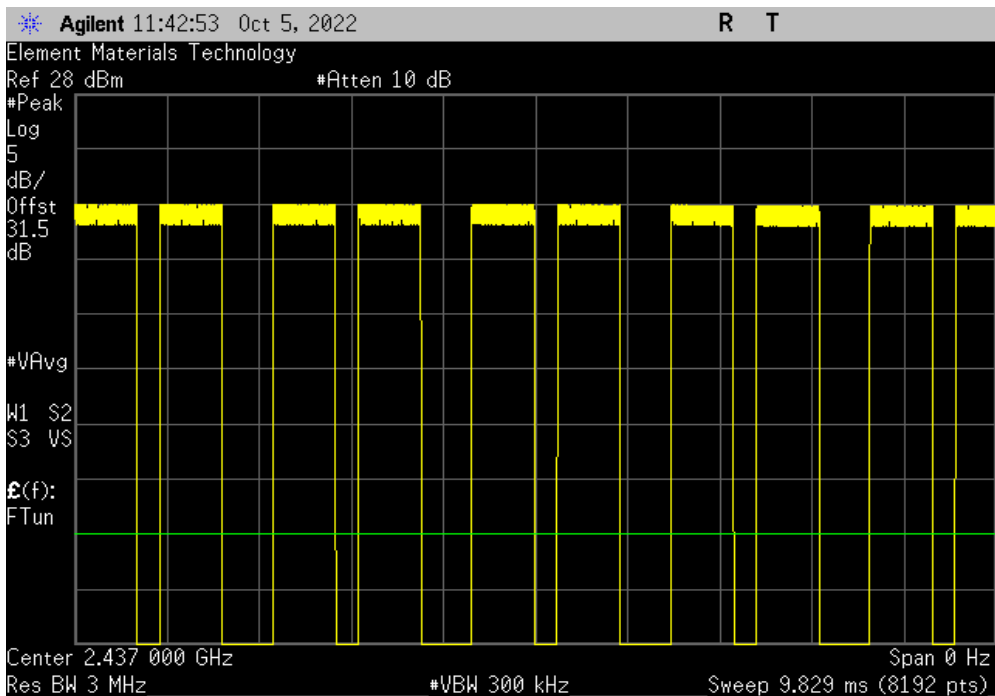


TuTx 2022.06.03.0 XMt 2022.02.07.0

| Chain 0, CCK, 1 Mbps, Mid Channel 6, 2437 MHz | | | | | | |
|---|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 665.006 us | 2.128 ms | 2 | 62.5 | N/A | N/A | |



| Chain 0, CCK, 1 Mbps, Mid Channel 6, 2437 MHz | | | | | | |
|---|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 10 | N/A | N/A | N/A | |

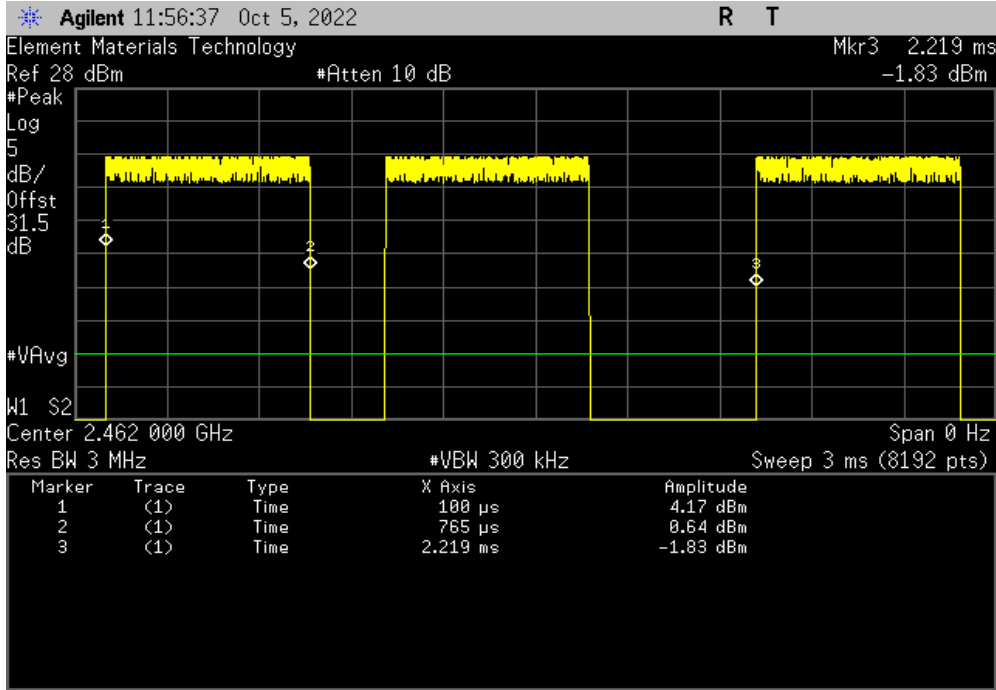


DUTY CYCLE - CHAIN 0

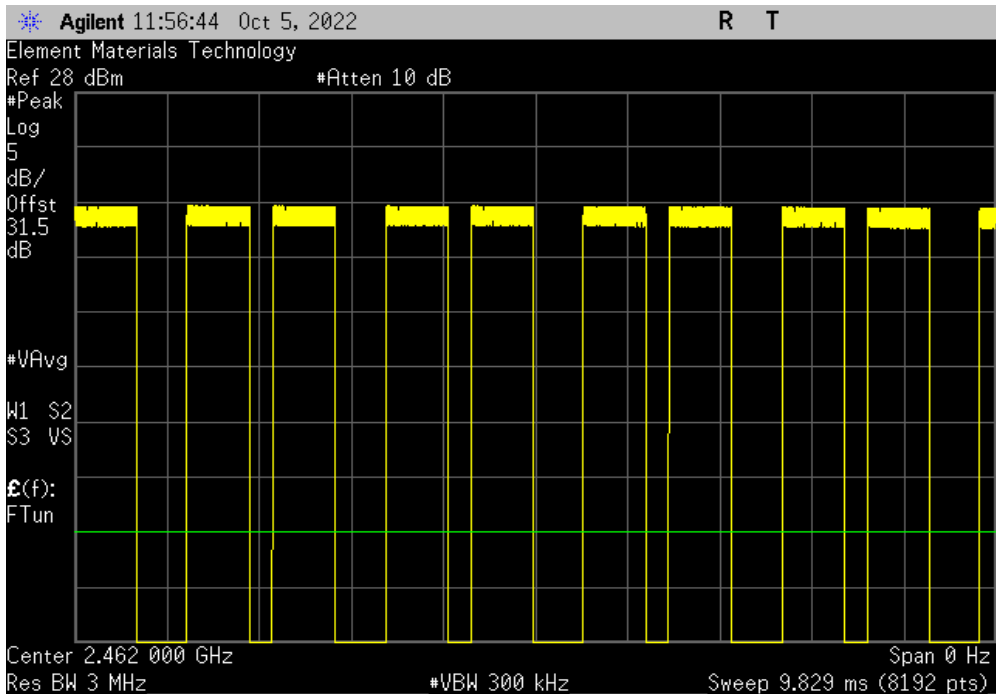


TuTx 2022.06.03.0 XMt 2022.02.07.0

| Chain 0, CCK, 1 Mbps, High Channel 11, 2462 MHz | | | | | | |
|---|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 665.002 us | 2.119 ms | 2 | 62.8 | N/A | N/A | |



| Chain 0, CCK, 1 Mbps, High Channel 11, 2462 MHz | | | | | | |
|---|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 10 | N/A | N/A | N/A | |

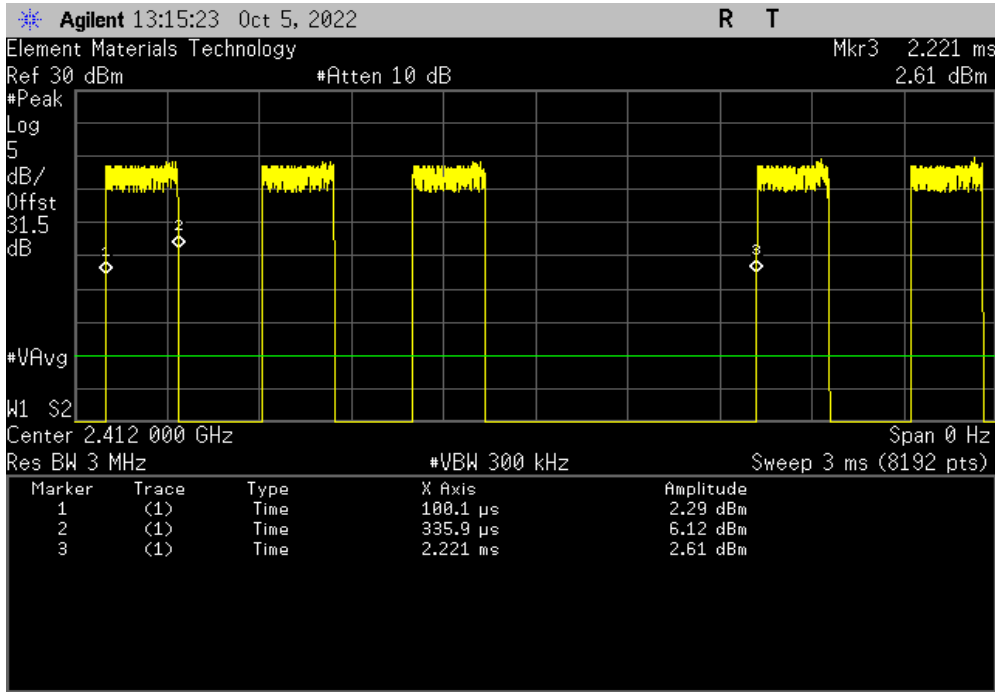


DUTY CYCLE - CHAIN 0

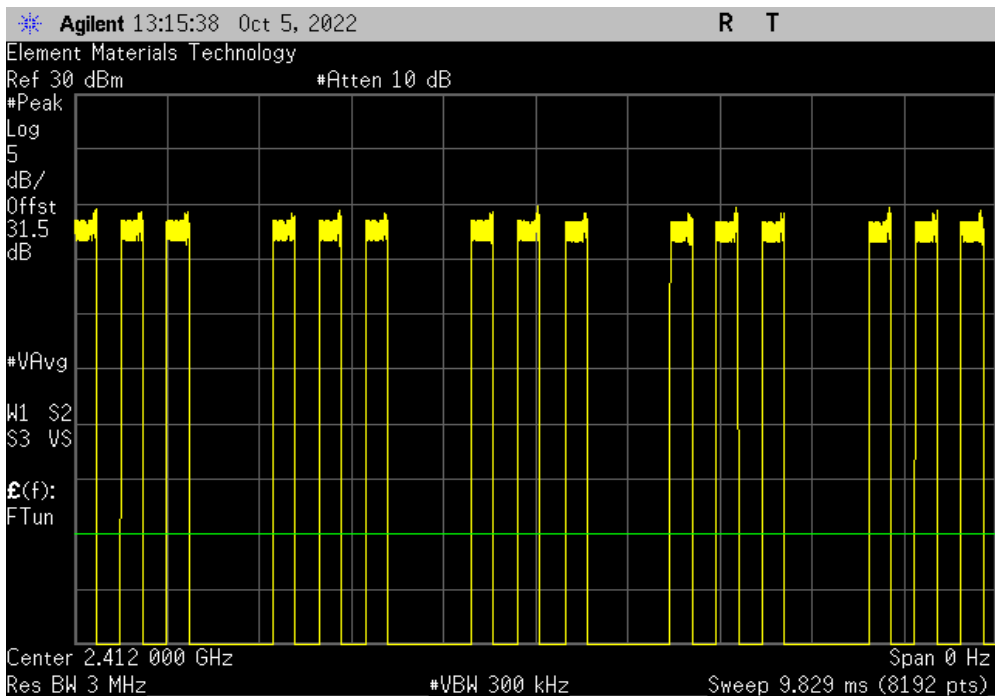


TuTx 2022.06.03.0 XMi 2022.02.07.0

| Chain 0, CCK, 11 Mbps, Low Channel 1, 2412 MHz | | | | | | |
|--|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 235.832 us | 2.121 ms | 3 | 33.4 | N/A | N/A | |



| Chain 0, CCK, 11 Mbps, Low Channel 1, 2412 MHz | | | | | | |
|--|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 15 | N/A | N/A | N/A | |

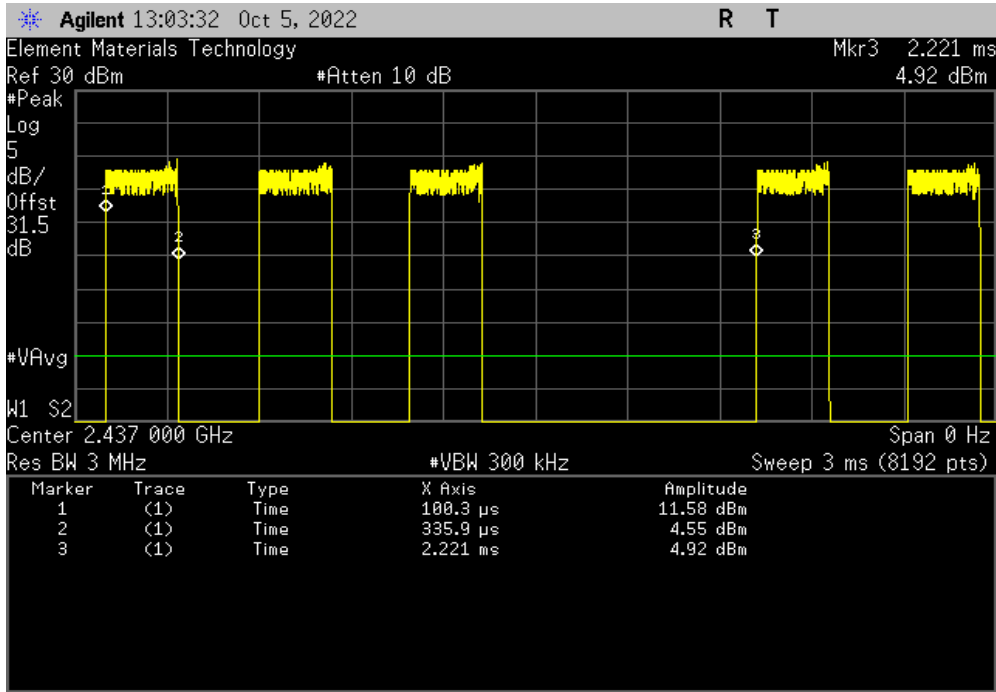


DUTY CYCLE - CHAIN 0

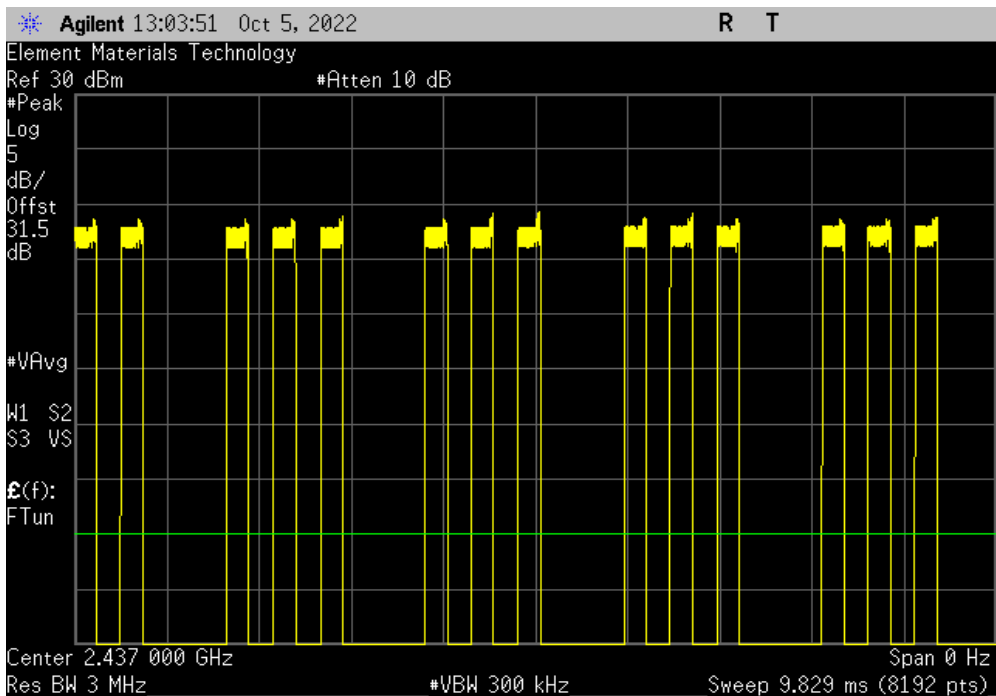


TuTx 2022.06.03.0 XMt 2022.02.07.0

| Chain 0, CCK, 11 Mbps, Mid Channel 6, 2437 MHz | | | | | | |
|--|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 235.626 us | 2.121 ms | 3 | 33.4 | N/A | N/A | |



| Chain 0, CCK, 11 Mbps, Mid Channel 6, 2437 MHz | | | | | | |
|--|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 14 | N/A | N/A | N/A | |

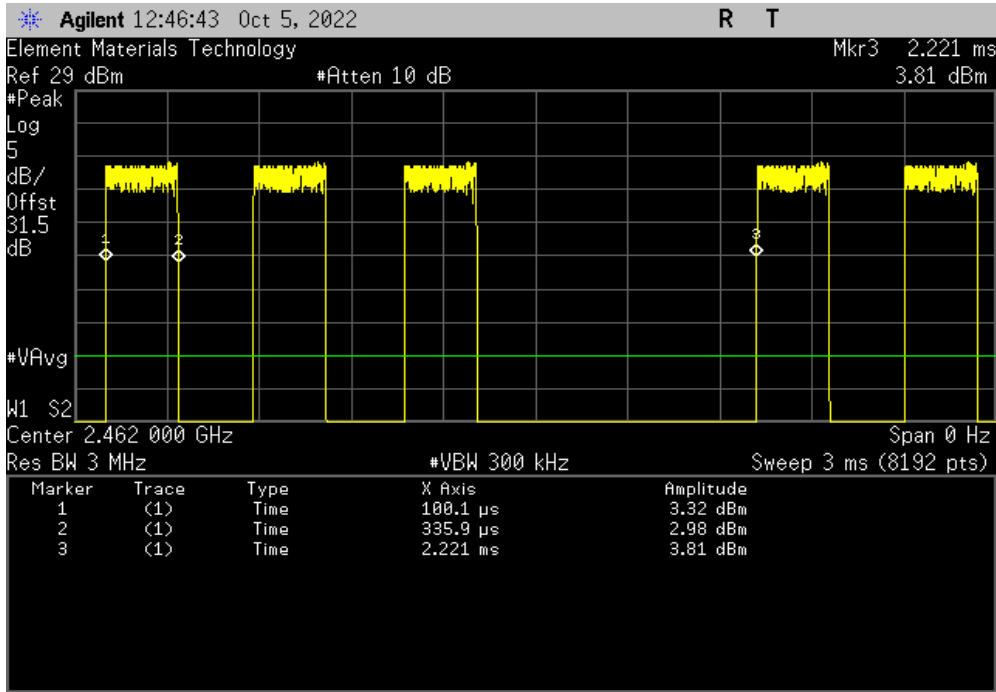


DUTY CYCLE - CHAIN 0

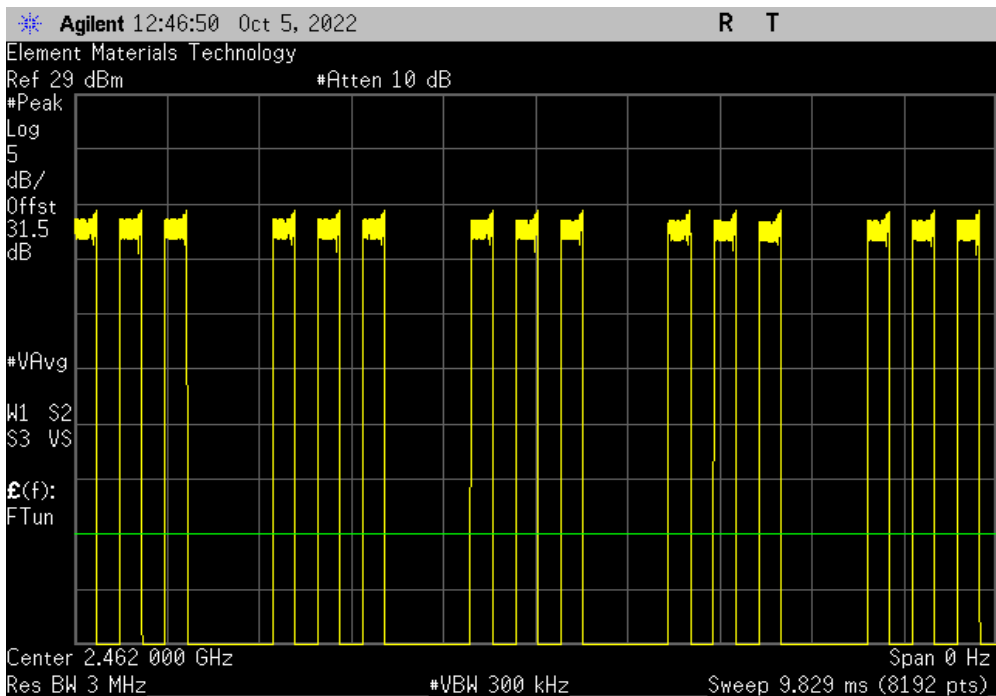


TuTx 2022.06.03.0 XMi 2022.02.07.0

| Chain 0, CCK, 11 Mbps, High Channel 11, 2462 MHz | | | | | | |
|--|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 235.832 us | 2.121 ms | 3 | 33.4 | N/A | N/A | |



| Chain 0, CCK, 11 Mbps, High Channel 11, 2462 MHz | | | | | | |
|--|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 15 | N/A | N/A | N/A | |

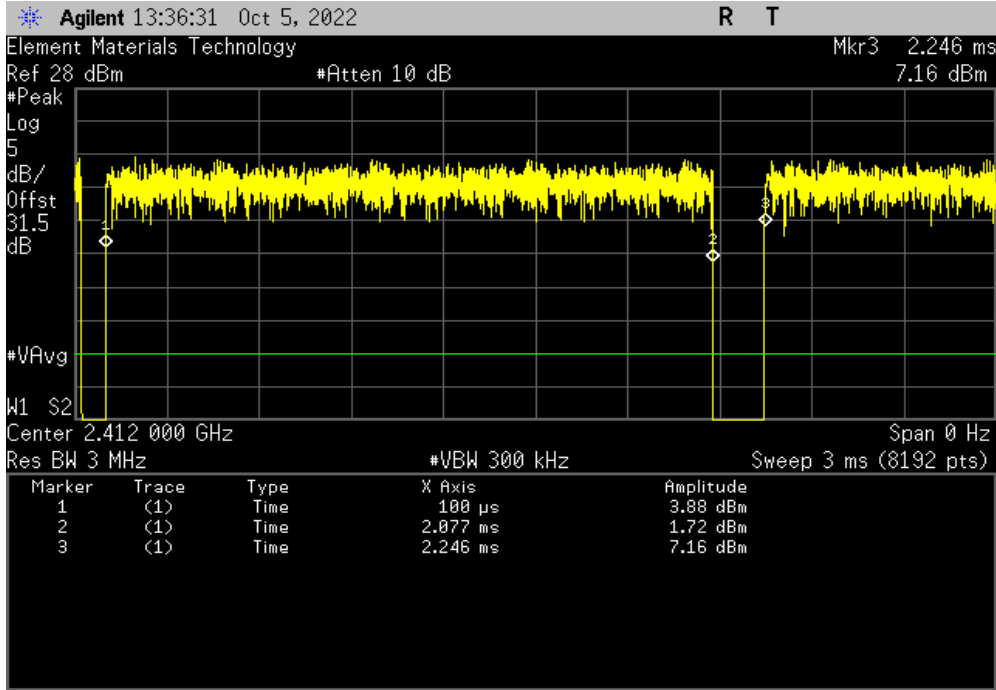


DUTY CYCLE - CHAIN 0

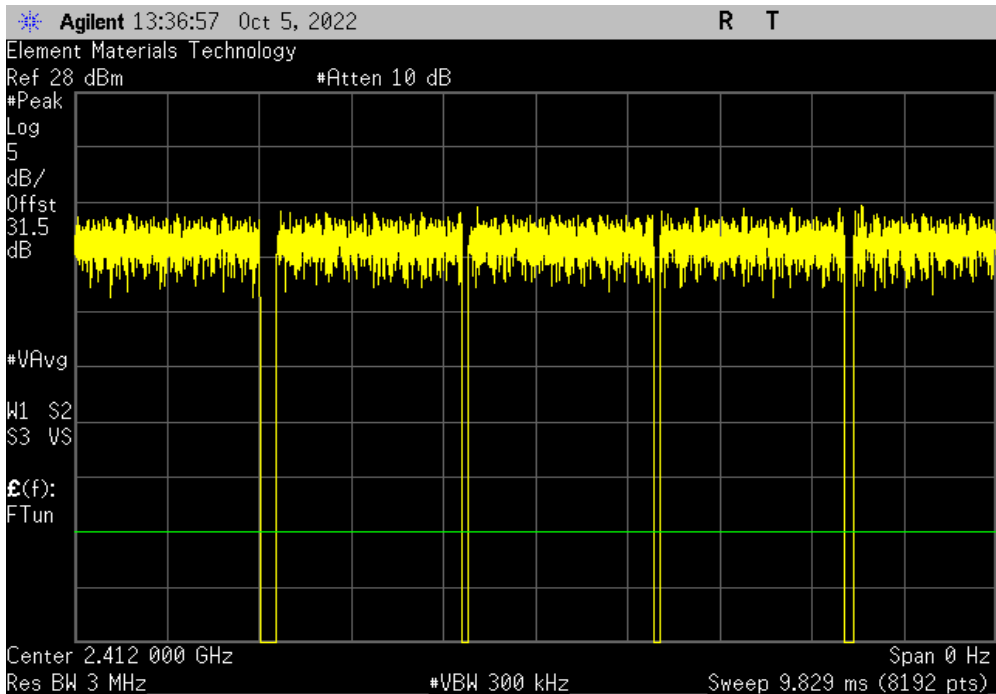


TuTx 2022.06.03.0 XMt 2022.02.07.0

| Chain 0, Legacy OFDM, 6 Mbps, Low Channel 1, 2412 MHz | | | | | | |
|---|-------------|----------|------------------|-----------|-----------|---------|
| | Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results |
| | 1.977 ms | 2.146 ms | 1 | 92.1 | N/A | N/A |



| Chain 0, Legacy OFDM, 6 Mbps, Low Channel 1, 2412 MHz | | | | | | |
|---|-------------|--------|------------------|-----------|-----------|---------|
| | Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results |
| | N/A | N/A | 5 | N/A | N/A | N/A |

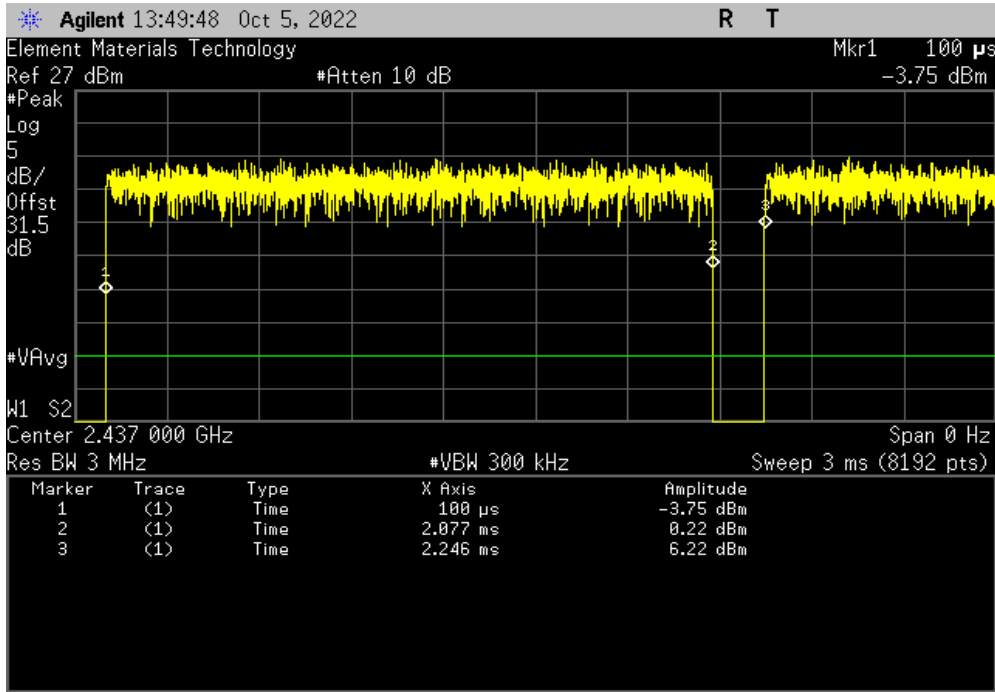


DUTY CYCLE - CHAIN 0

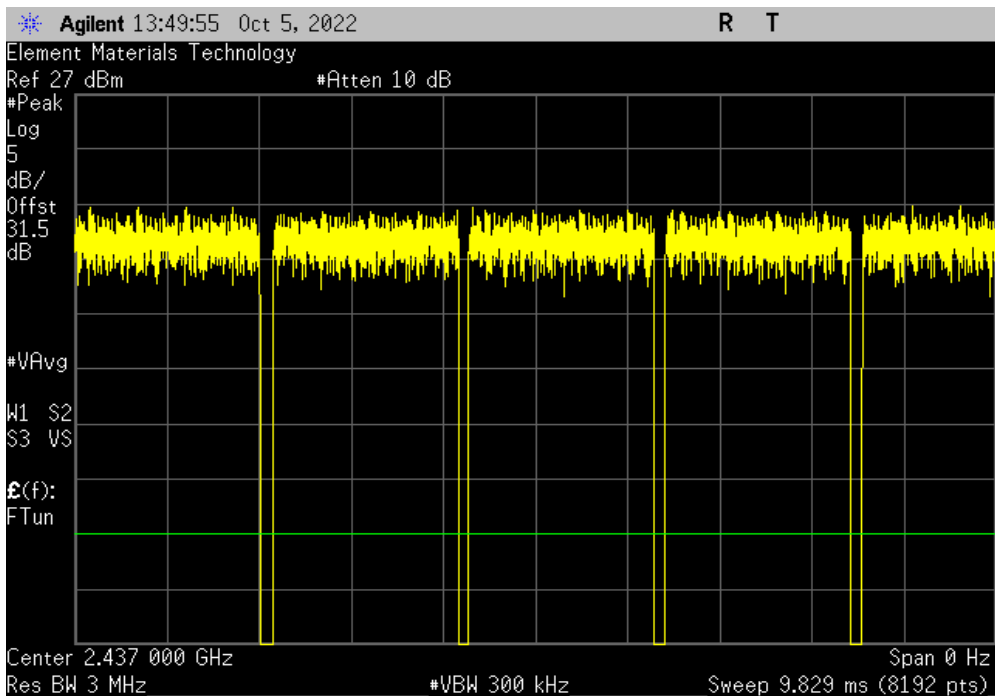


TbTx 2022.06.03.0 XMI 2022.02.07.0

| Chain 0, Legacy OFDM, 6 Mbps, Mid Channel 6, 2437 MHz | | | | | | |
|---|-------------|----------|------------------|-----------|-----------|---------|
| | Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results |
| | 1.977 ms | 2.146 ms | 1 | 92.1 | N/A | N/A |



| Chain 0, Legacy OFDM, 6 Mbps, Mid Channel 6, 2437 MHz | | | | | | |
|---|-------------|--------|------------------|-----------|-----------|---------|
| | Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results |
| | N/A | N/A | 5 | N/A | N/A | N/A |

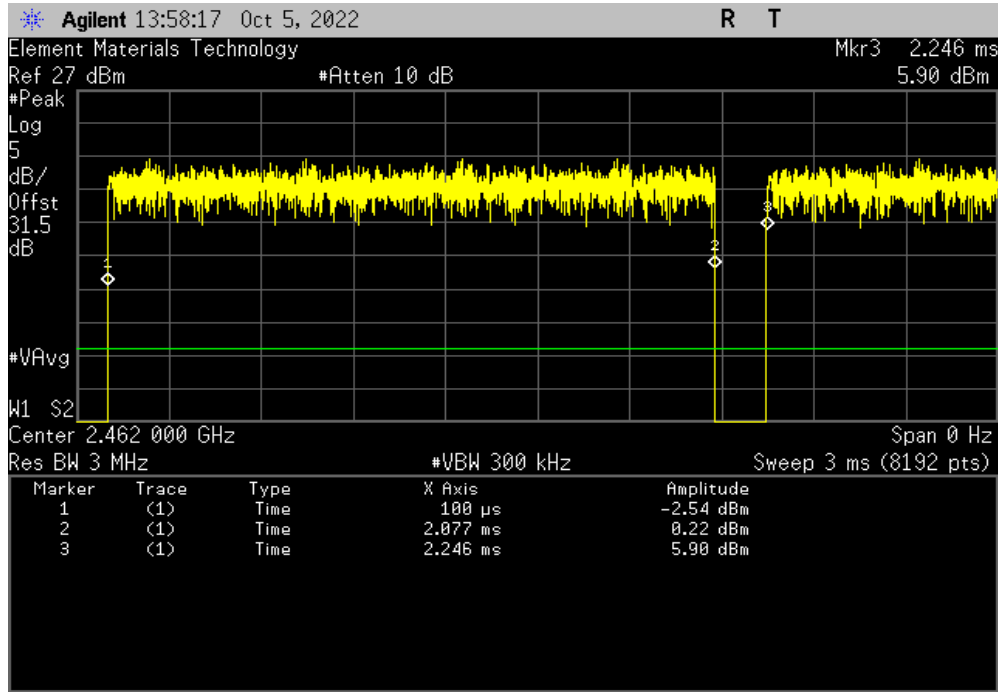


DUTY CYCLE - CHAIN 0

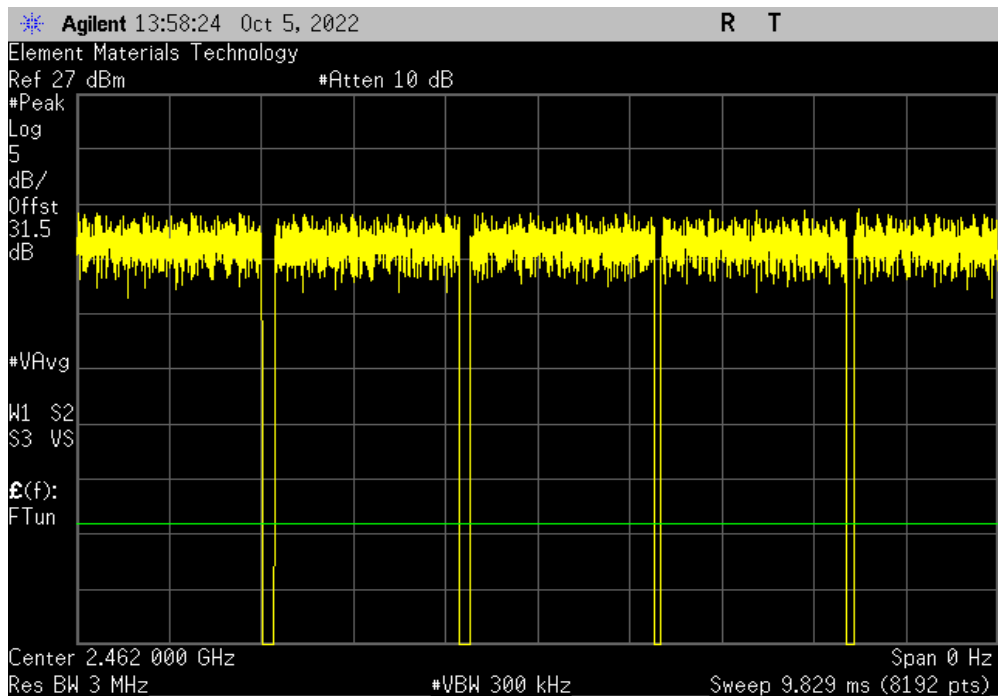


TbTx 2022.06.03.0 XMI 2022.02.07.0

| Chain 0, Legacy OFDM, 6 Mbps, High Channel 11, 2462 MHz | | | | | | |
|---|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 1.977 ms | 2.146 ms | 1 | 92.1 | N/A | N/A | |



| Chain 0, Legacy OFDM, 6 Mbps, High Channel 11, 2462 MHz | | | | | | |
|---|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |

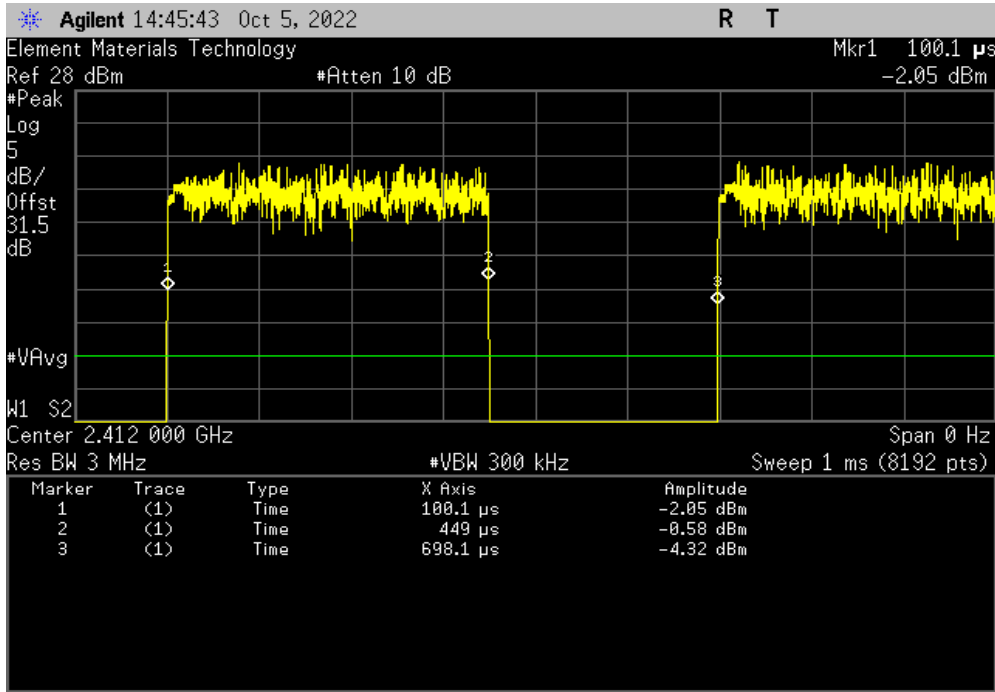


DUTY CYCLE - CHAIN 0

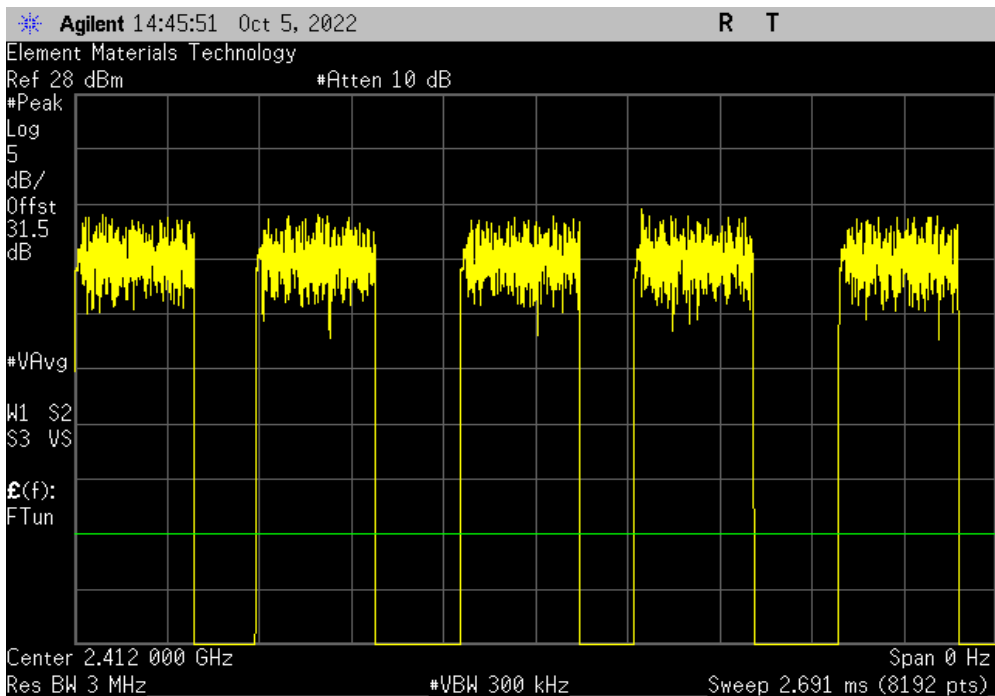


TbTx 2022.06.03.0 XMI 2022.02.07.0

| Chain 0, Legacy OFDM, 36 Mbps, Low Channel 1, 2412 MHz | | | | | | |
|--|------------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 348.922 us | 598.004 us | 1 | 58.3 | N/A | N/A | |



| Chain 0, Legacy OFDM, 36 Mbps, Low Channel 1, 2412 MHz | | | | | | |
|--|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |

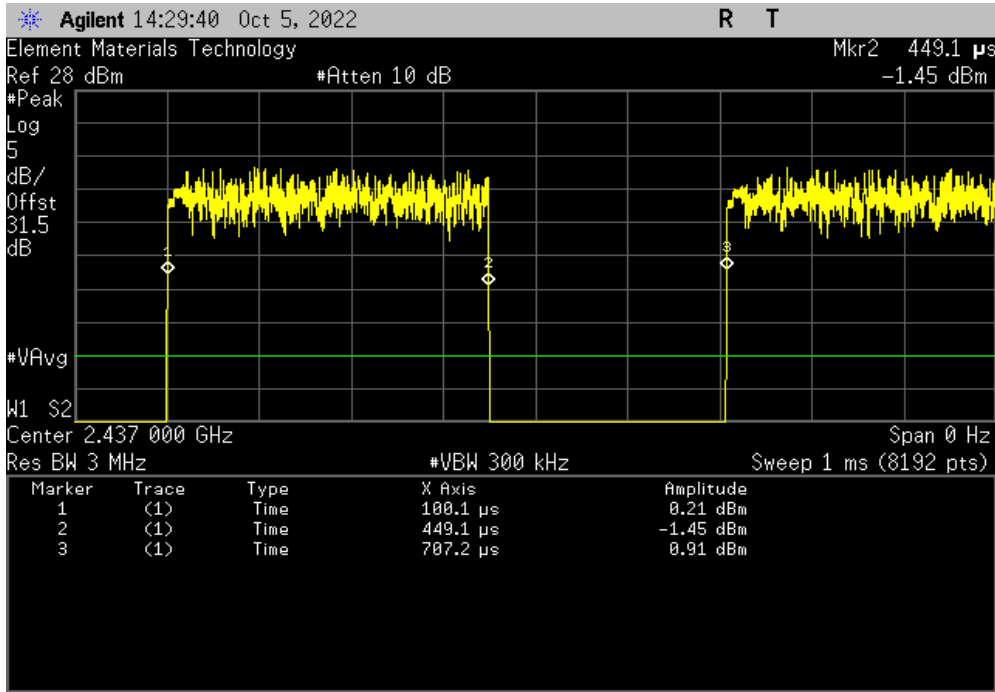


DUTY CYCLE - CHAIN 0

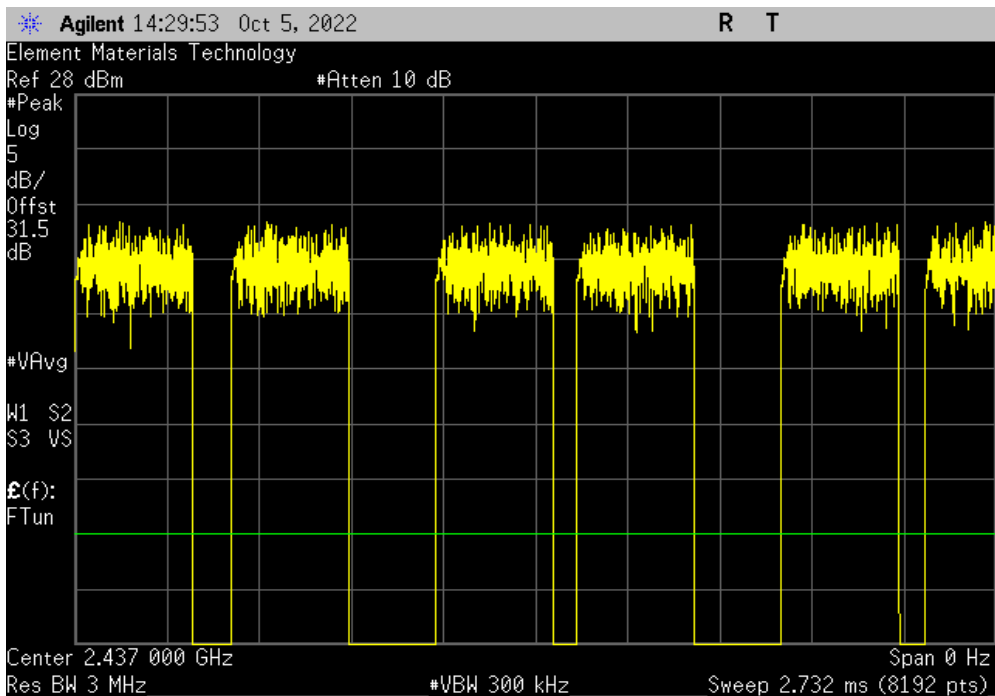


TbTx 2022.06.03.0 XMI 2022.02.07.0

| Chain 0, Legacy OFDM, 36 Mbps, Mid Channel 6, 2437 MHz | | | | | | |
|--|------------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 349.044 us | 607.088 us | 1 | 57.5 | N/A | N/A | |



| Chain 0, Legacy OFDM, 36 Mbps, Mid Channel 6, 2437 MHz | | | | | | |
|--|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 6 | N/A | N/A | N/A | |

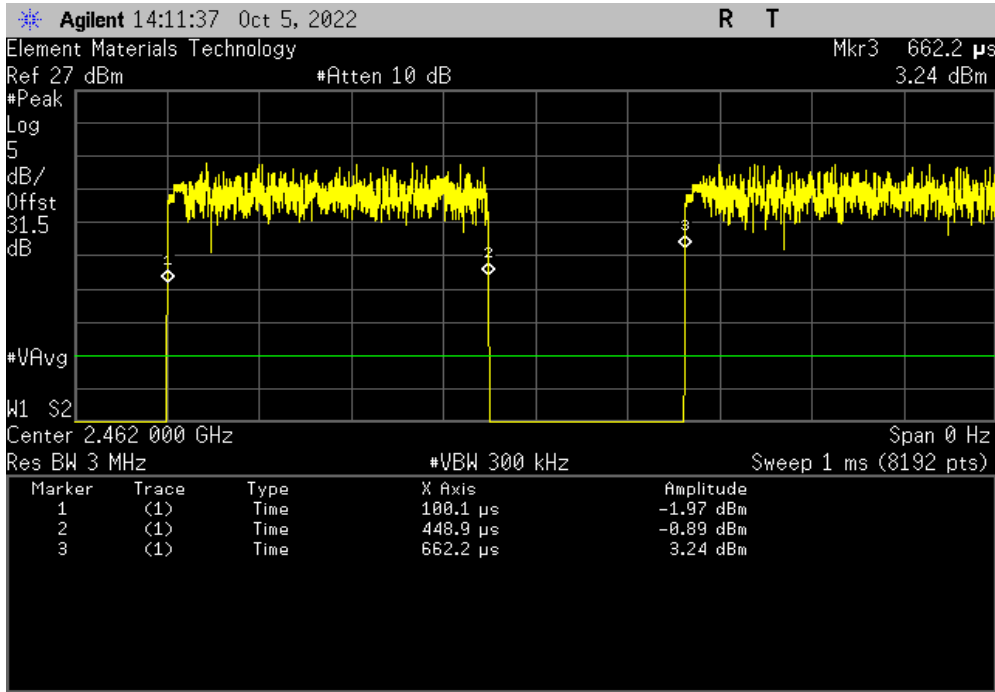


DUTY CYCLE - CHAIN 0

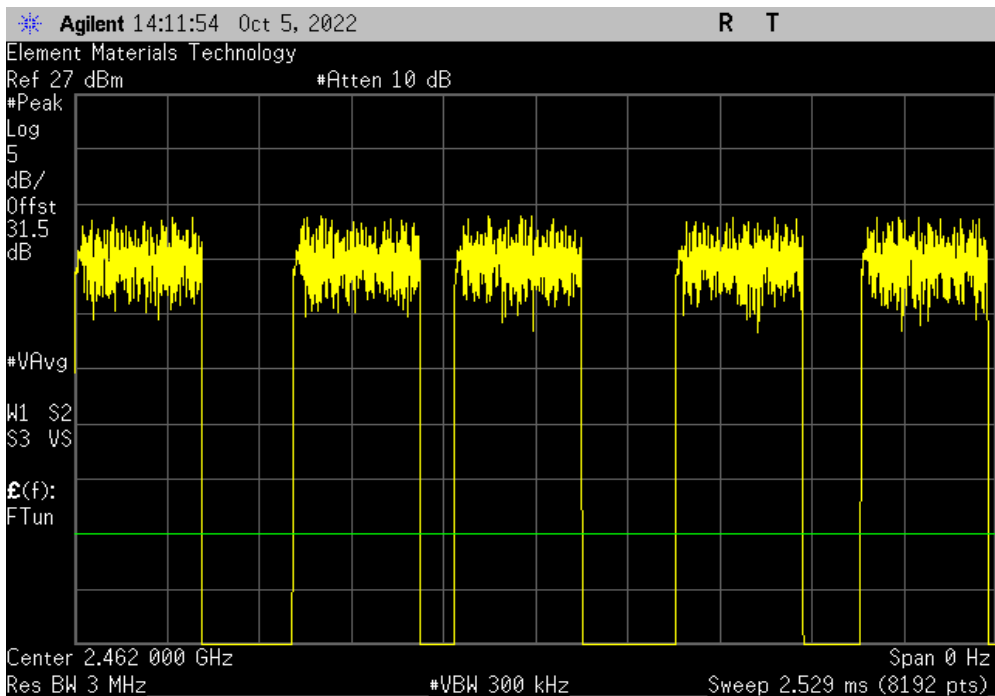


TuTx 2022.06.03.0 XMt 2022.02.07.0

| Chain 0, Legacy OFDM, 36 Mbps, High Channel 11, 2462 MHz | | | | | | |
|--|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 348.8 us | 562.1 us | 1 | 62.1 | N/A | N/A | |



| Chain 0, Legacy OFDM, 36 Mbps, High Channel 11, 2462 MHz | | | | | | |
|--|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |

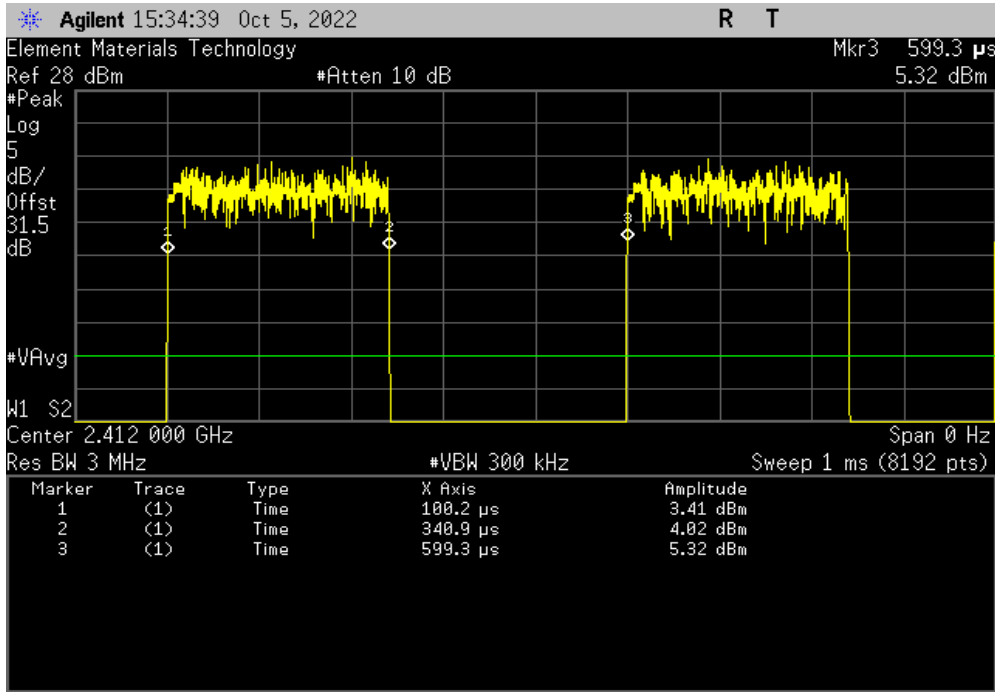


DUTY CYCLE - CHAIN 0

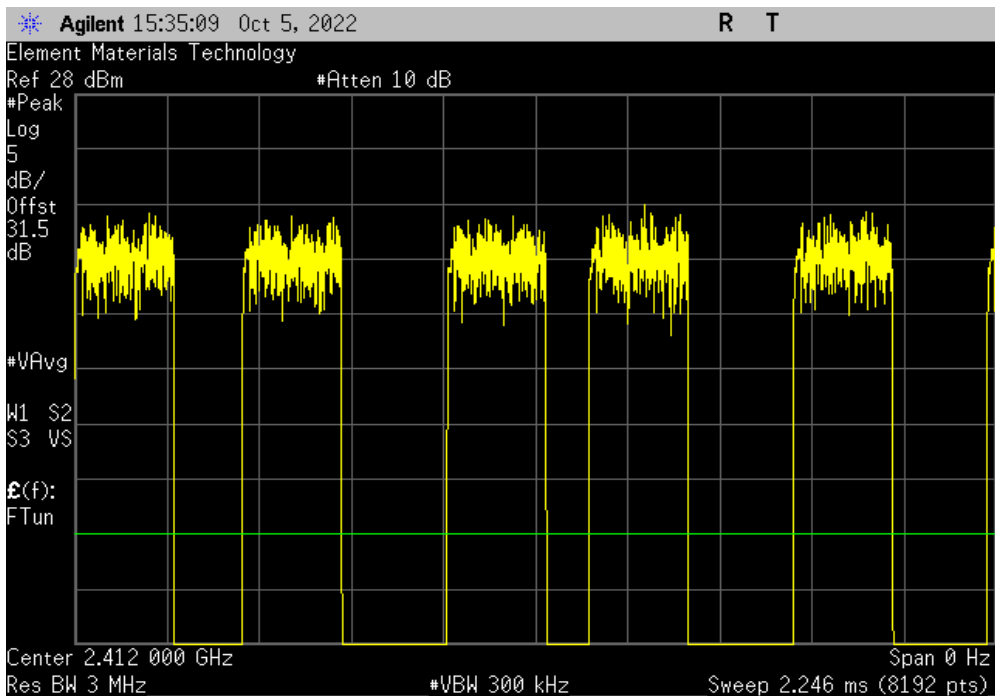


TuTx 2022.06.03.0 XMt 2022.02.07.0

| Chain 0, Legacy OFDM, 54 Mbps, Low Channel 1, 2412 MHz | | | | | | |
|--|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 240.678 us | 499.1 us | 1 | 48.2 | N/A | N/A | |



| Chain 0, Legacy OFDM, 54 Mbps, Low Channel 1, 2412 MHz | | | | | | |
|--|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 6 | N/A | N/A | N/A | |

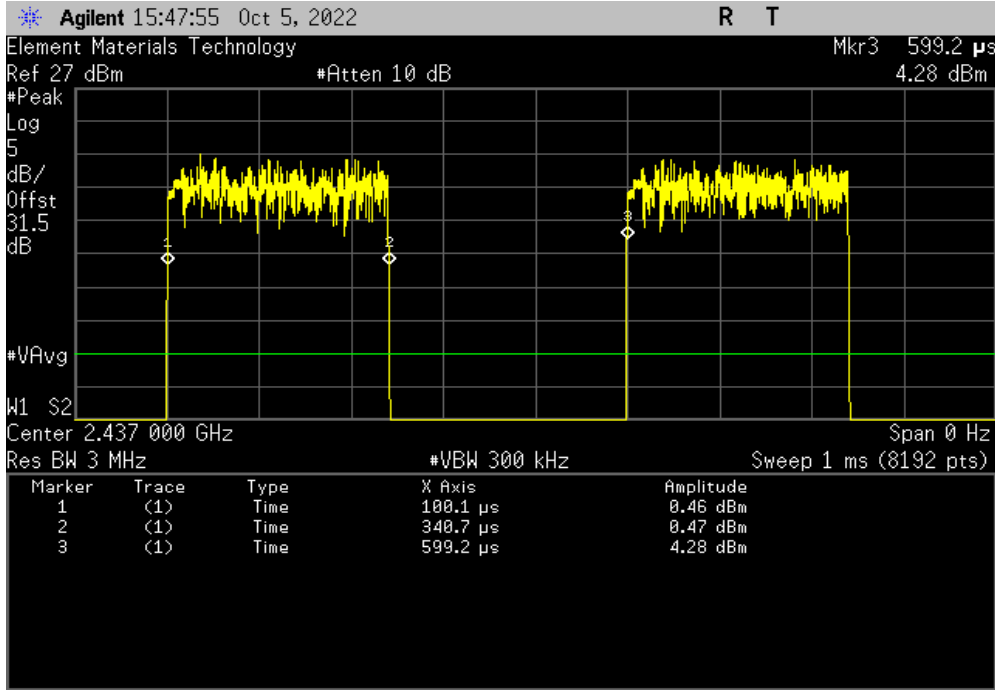


DUTY CYCLE - CHAIN 0

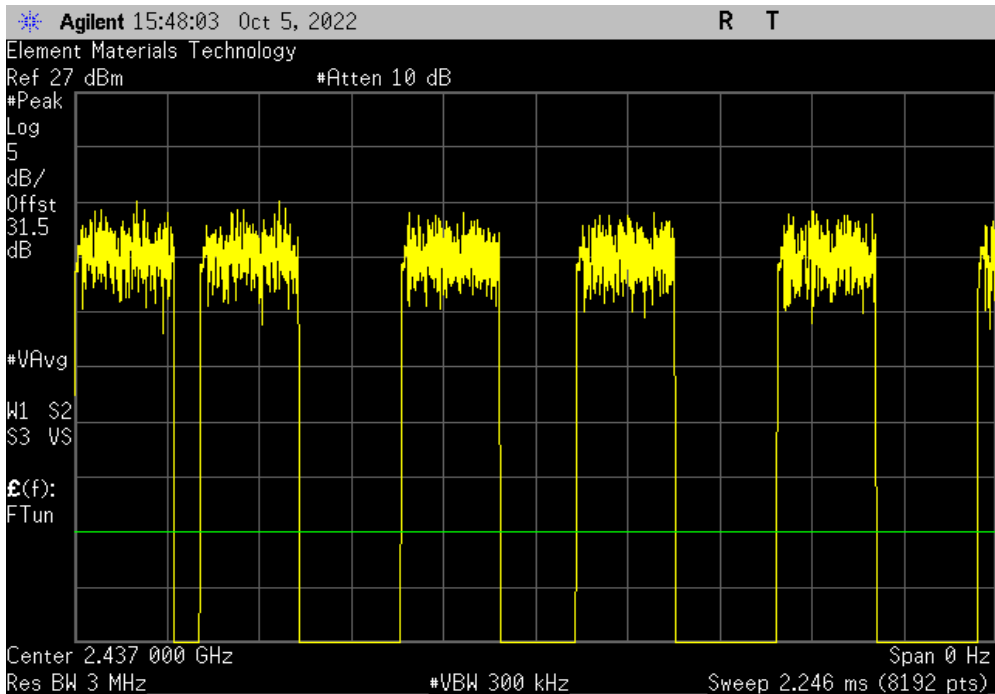


TuTx 2022.06.03.0 XMt 2022.02.07.0

| Chain 0, Legacy OFDM, 54 Mbps, Mid Channel 6, 2437 MHz | | | | | | |
|--|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 240.6 us | 499.1 us | 1 | 48.2 | N/A | N/A | |



| Chain 0, Legacy OFDM, 54 Mbps, Mid Channel 6, 2437 MHz | | | | | | |
|--|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 6 | N/A | N/A | N/A | |

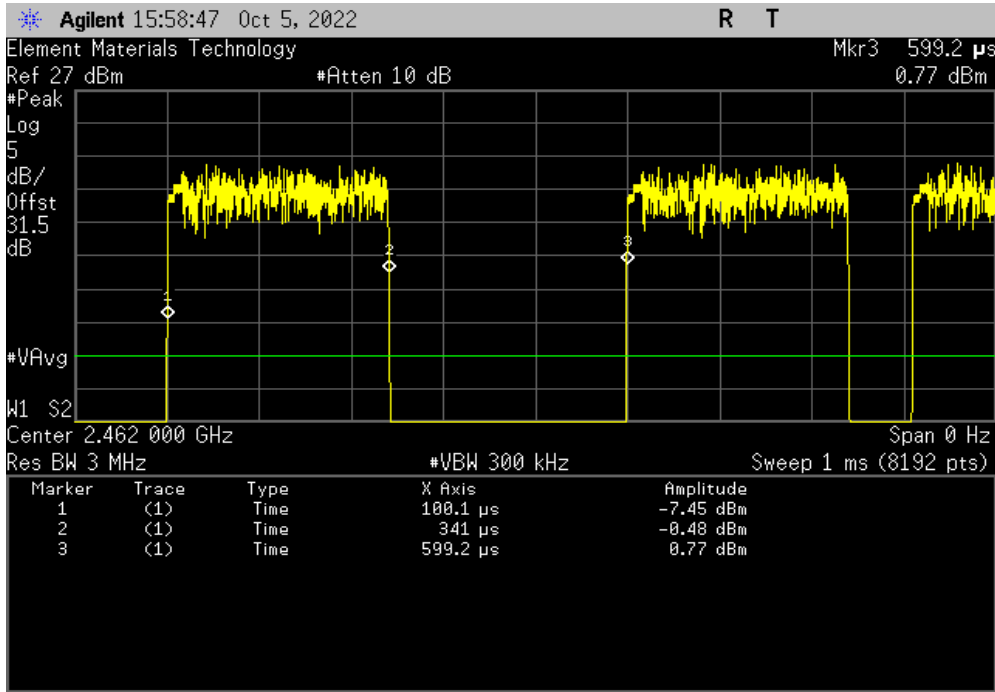


DUTY CYCLE - CHAIN 0

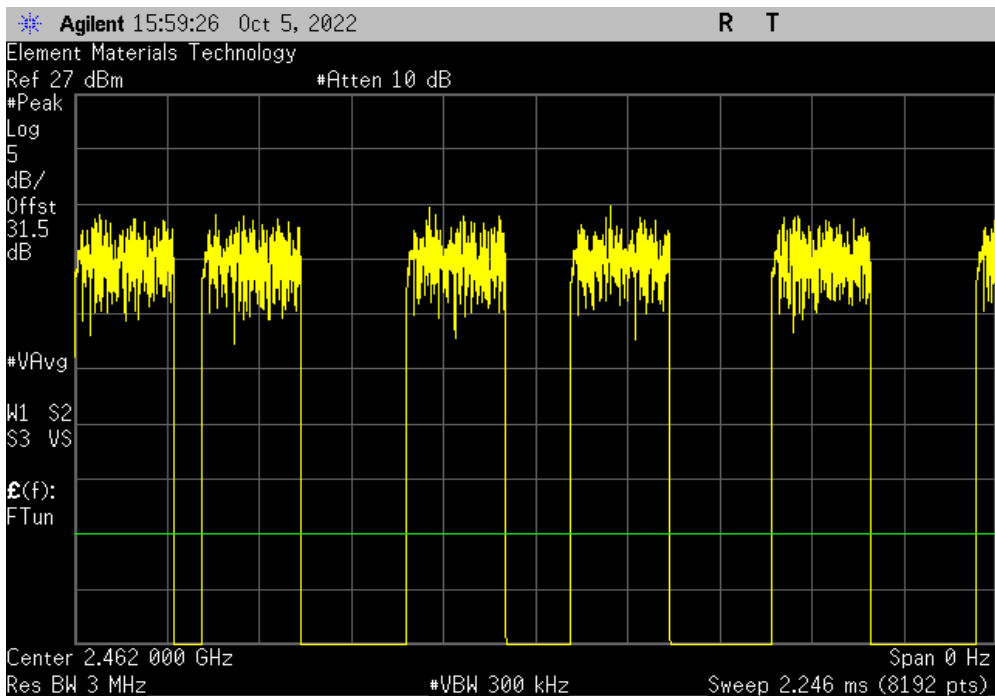


TuTx 2022.06.03.0 XMt 2022.02.07.0

| Chain 0, Legacy OFDM, 54 Mbps, High Channel 11, 2462 MHz | | | | | | |
|--|------------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 240.922 us | 499.134 us | 1 | 48.3 | N/A | N/A | |



| Chain 0, Legacy OFDM, 54 Mbps, High Channel 11, 2462 MHz | | | | | | |
|--|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 6 | N/A | N/A | N/A | |

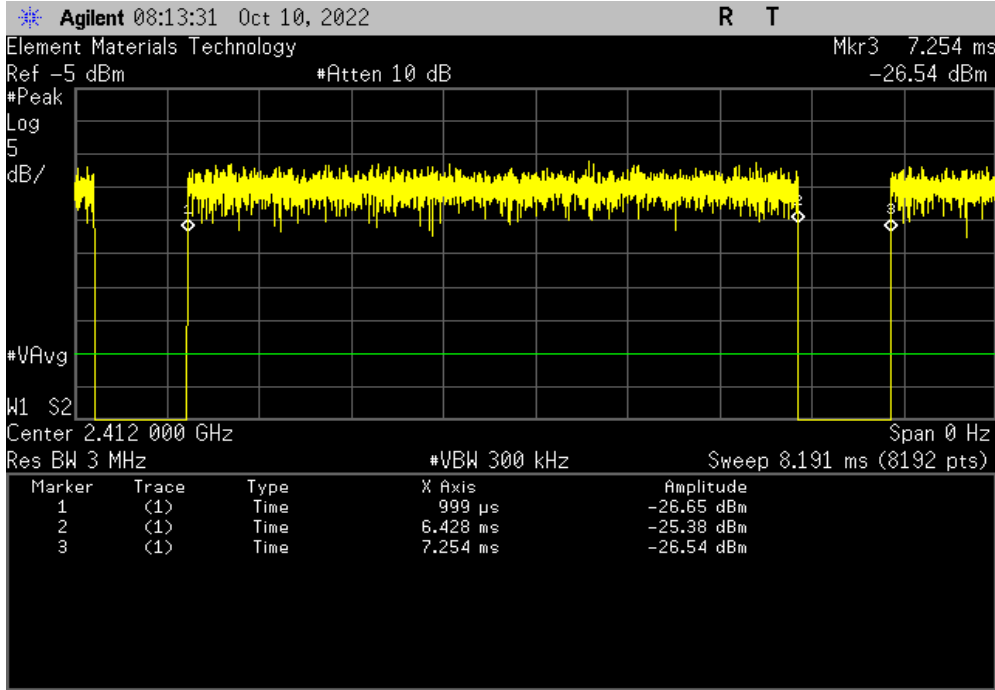


DUTY CYCLE - CHAIN 0

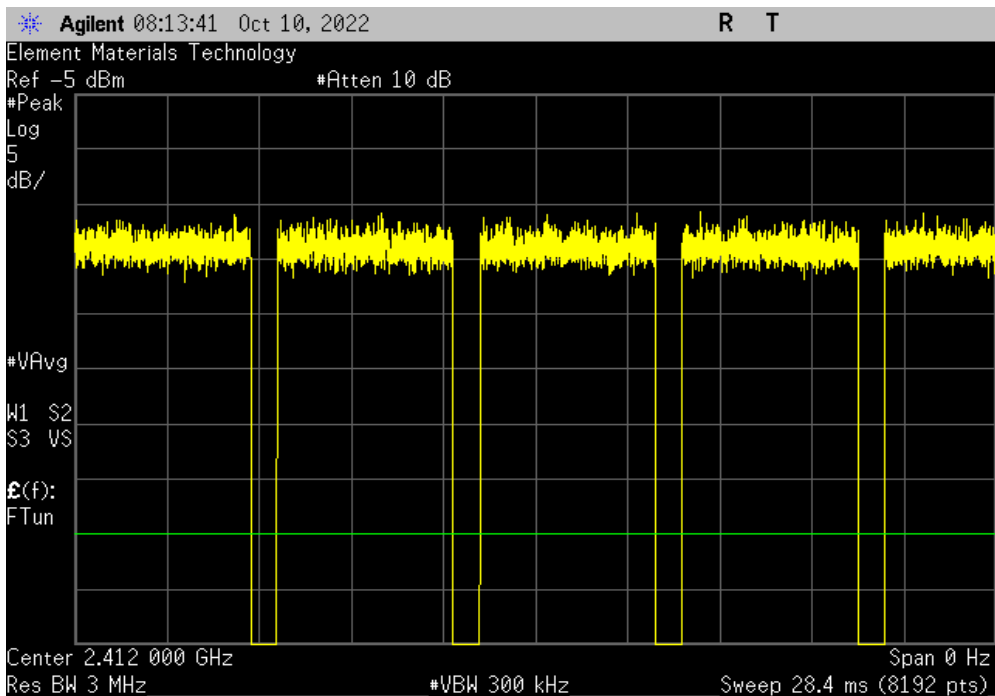


TbTx 2022.06.03.0 XMI 2022.02.07.0

| Chain 0, HT20, MCS0, Low Channel 1, 2412 MHz | | | | | | |
|--|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 5.429 ms | 6.255 ms | 1 | 86.8 | N/A | N/A | |



| Chain 0, HT20, MCS0, Low Channel 1, 2412 MHz | | | | | | |
|--|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |

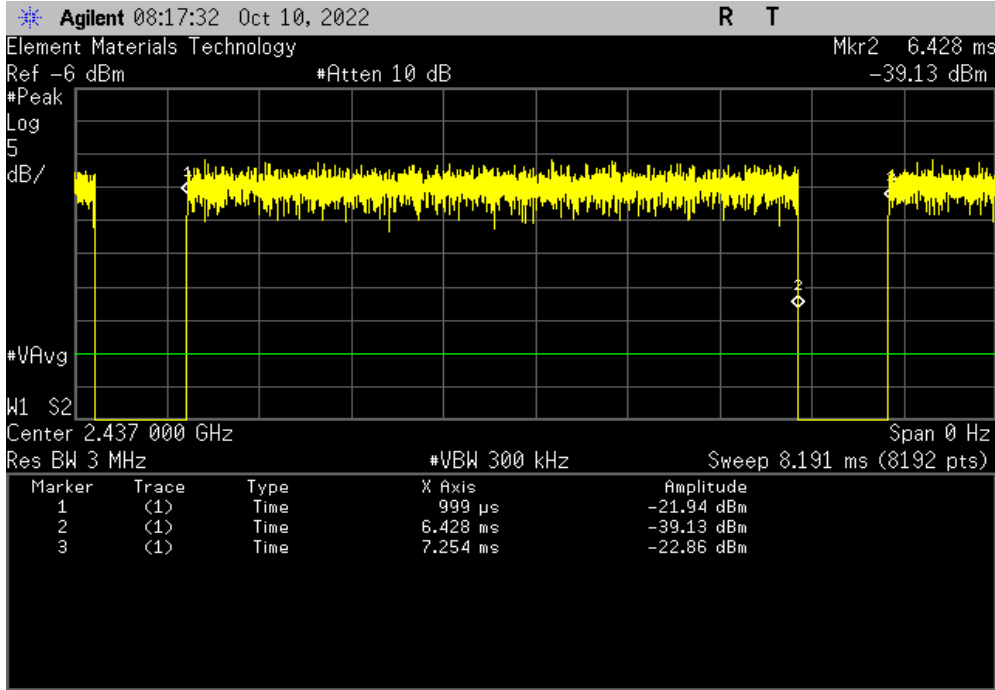


DUTY CYCLE - CHAIN 0

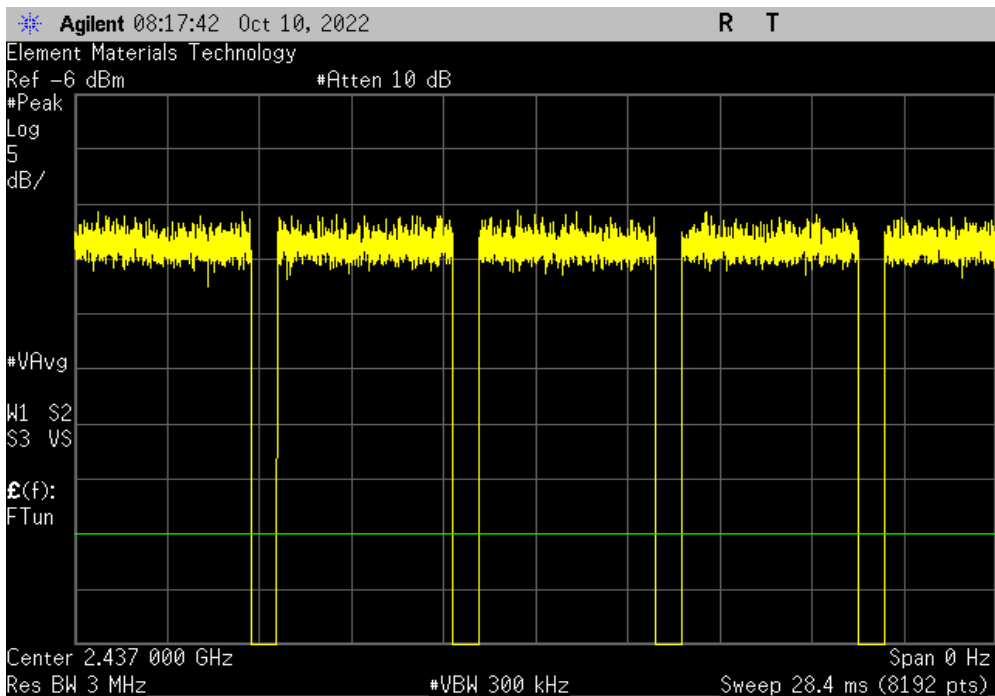


TuTx 2022.06.03.0 XMI 2022.02.07.0

| Chain 0, HT20, MCS0, Mid Channel 6, 2437 MHz | | | | | | |
|--|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 5.429 ms | 6.255 ms | 1 | 86.8 | N/A | N/A | |



| Chain 0, HT20, MCS0, Mid Channel 6, 2437 MHz | | | | | | |
|--|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |

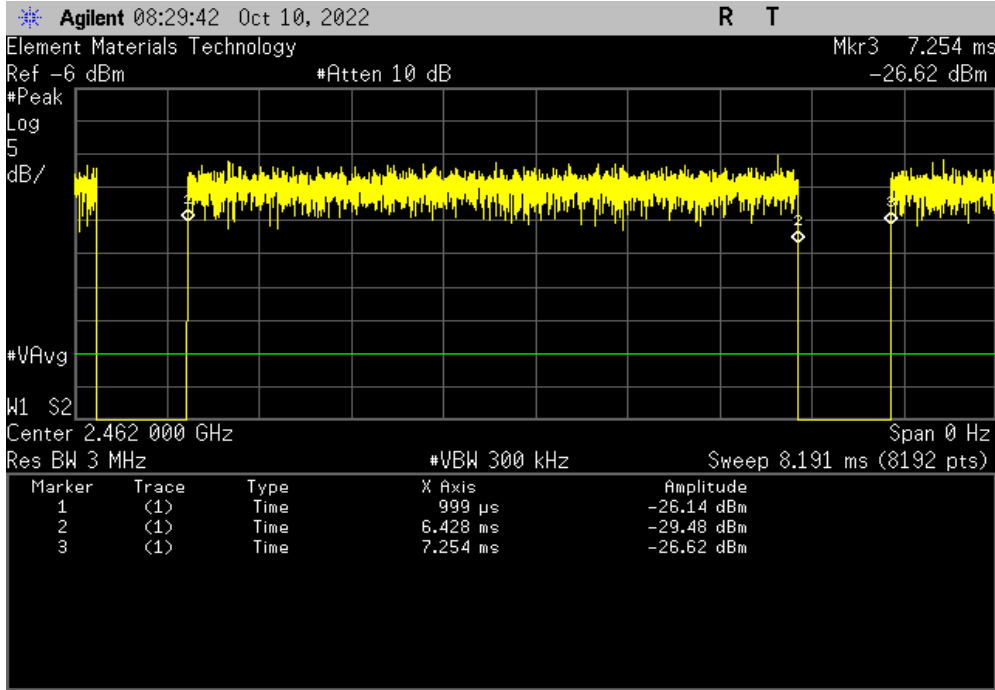


DUTY CYCLE - CHAIN 0

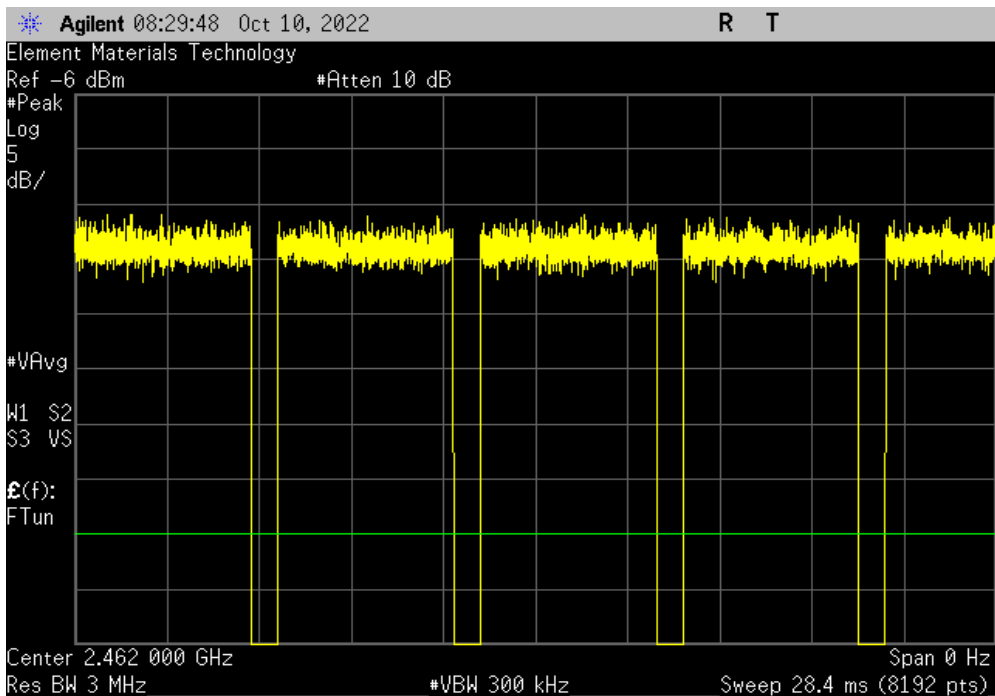


TuTx 2022.06.03.0 XMI 2022.02.07.0

| Chain 0, HT20, MCS0, High Channel 11, 2462 MHz | | | | | | |
|--|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 5.429 ms | 6.255 ms | 1 | 86.8 | N/A | N/A | |



| Chain 0, HT20, MCS0, High Channel 11, 2462 MHz | | | | | | |
|--|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |

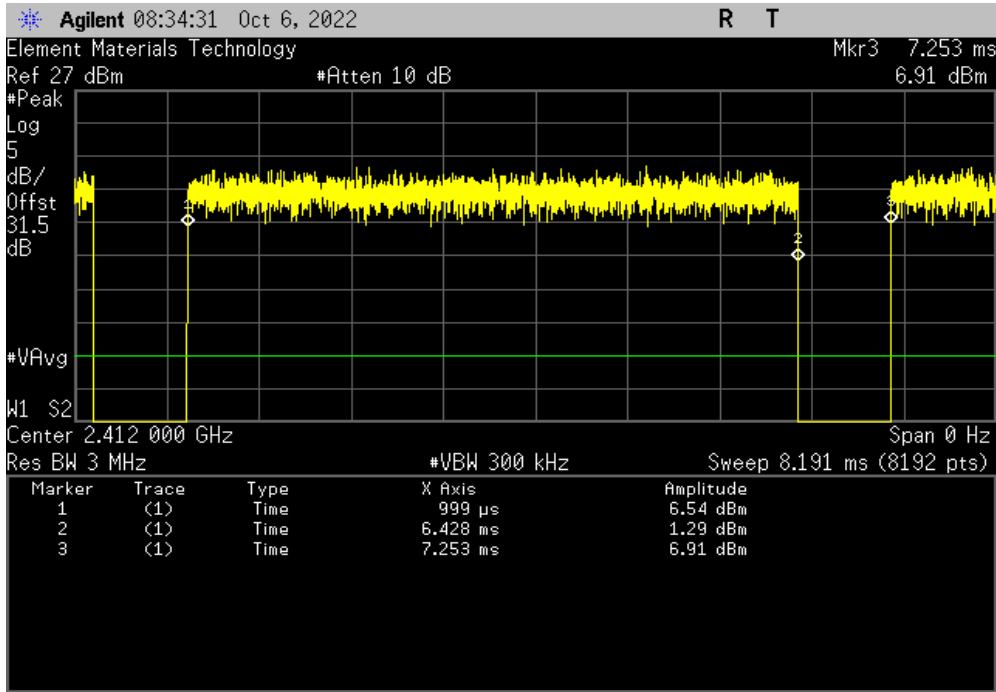


DUTY CYCLE - CHAIN 0

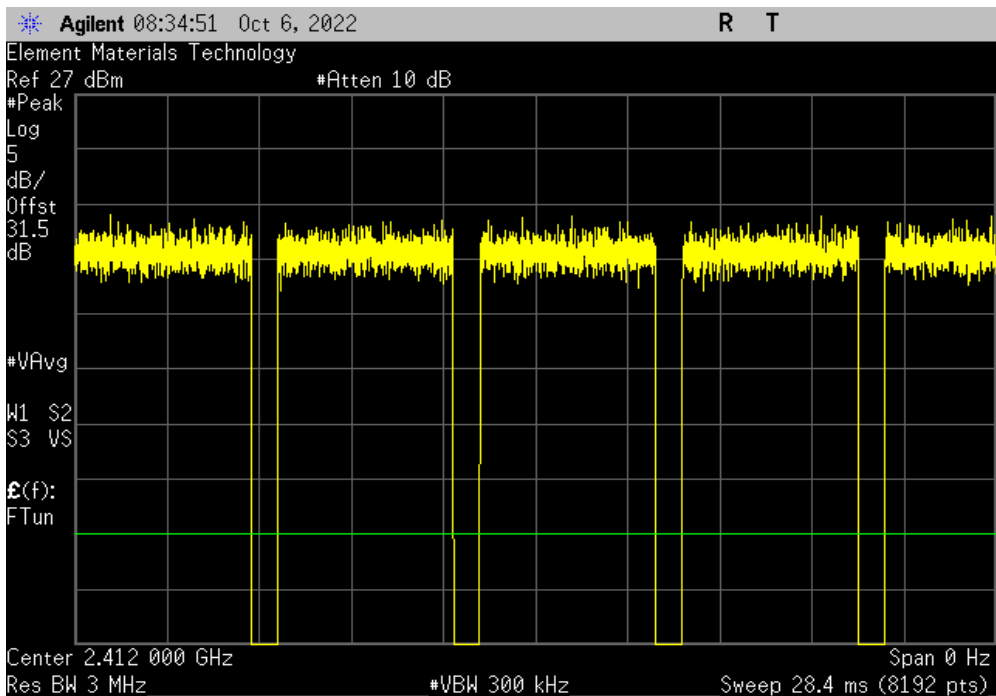


TuTx 2022.06.03.0 XMt 2022.02.07.0

| Chain 0, HT20, MCS7, Low Channel 1, 2412 MHz | | | | | | |
|--|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 5.429 ms | 6.254 ms | 1 | 86.8 | N/A | N/A | |



| Chain 0, HT20, MCS7, Low Channel 1, 2412 MHz | | | | | | |
|--|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |

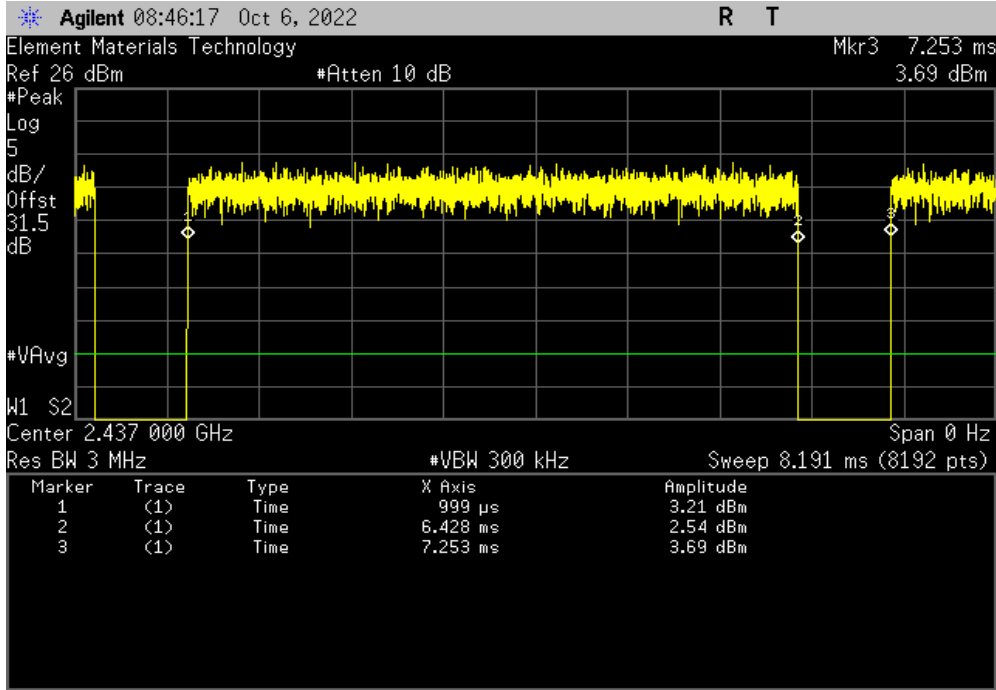


DUTY CYCLE - CHAIN 0

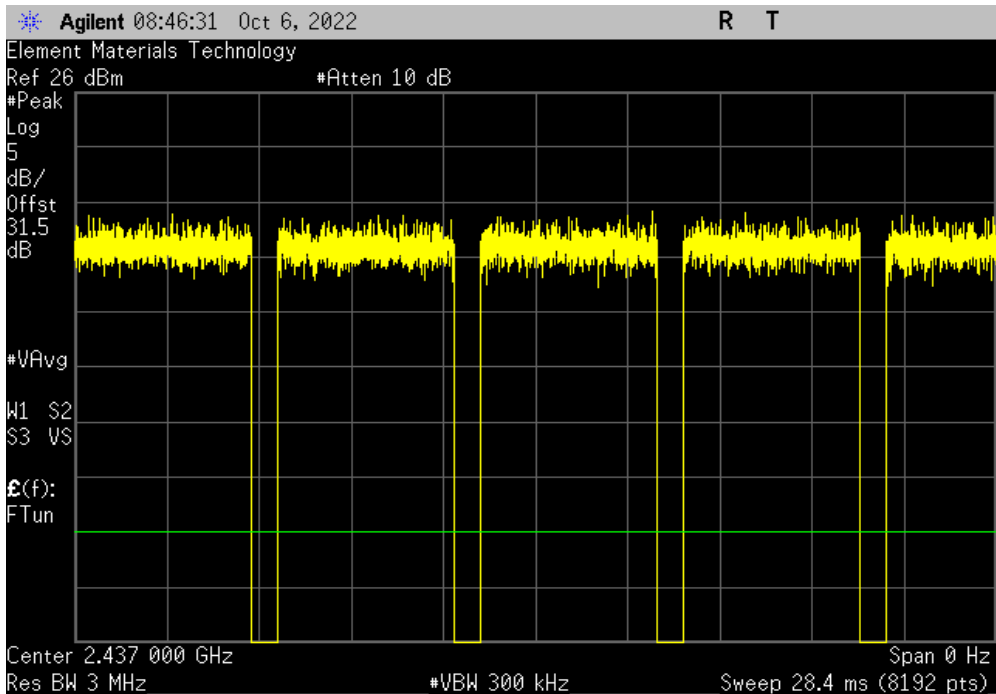


TuTx 2022.06.03.0 XMt 2022.02.07.0

| Chain 0, HT20, MCS7, Mid Channel 6, 2437 MHz | | | | | | |
|--|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 5.429 ms | 6.254 ms | 1 | 86.8 | N/A | N/A | |



| Chain 0, HT20, MCS7, Mid Channel 6, 2437 MHz | | | | | | |
|--|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |

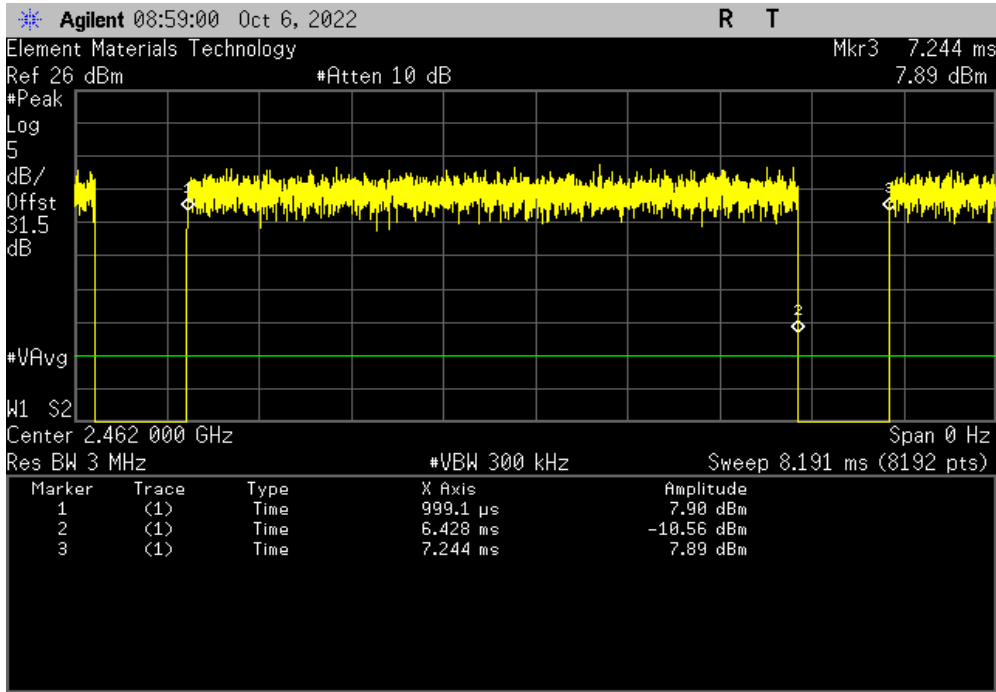


DUTY CYCLE - CHAIN 0

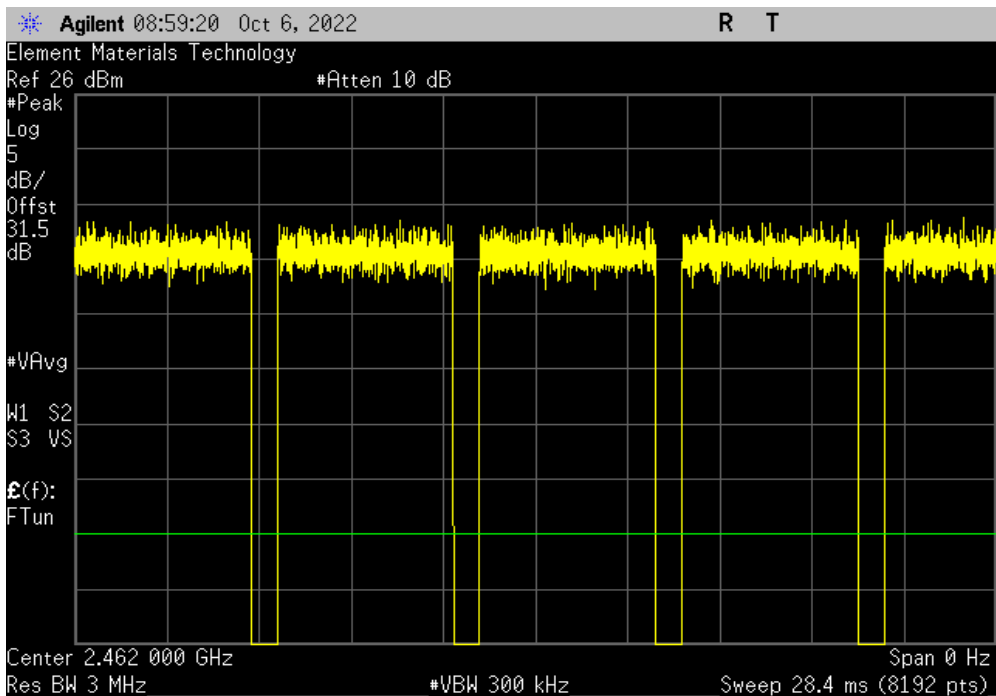


TuTx 2022.06.03.0 XMI 2022.02.07.0

| Chain 0, HT20, MCS7, High Channel 11, 2462 MHz | | | | | | |
|--|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 5.429 ms | 6.245 ms | 1 | 86.9 | N/A | N/A | |



| Chain 0, HT20, MCS7, High Channel 11, 2462 MHz | | | | | | |
|--|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |

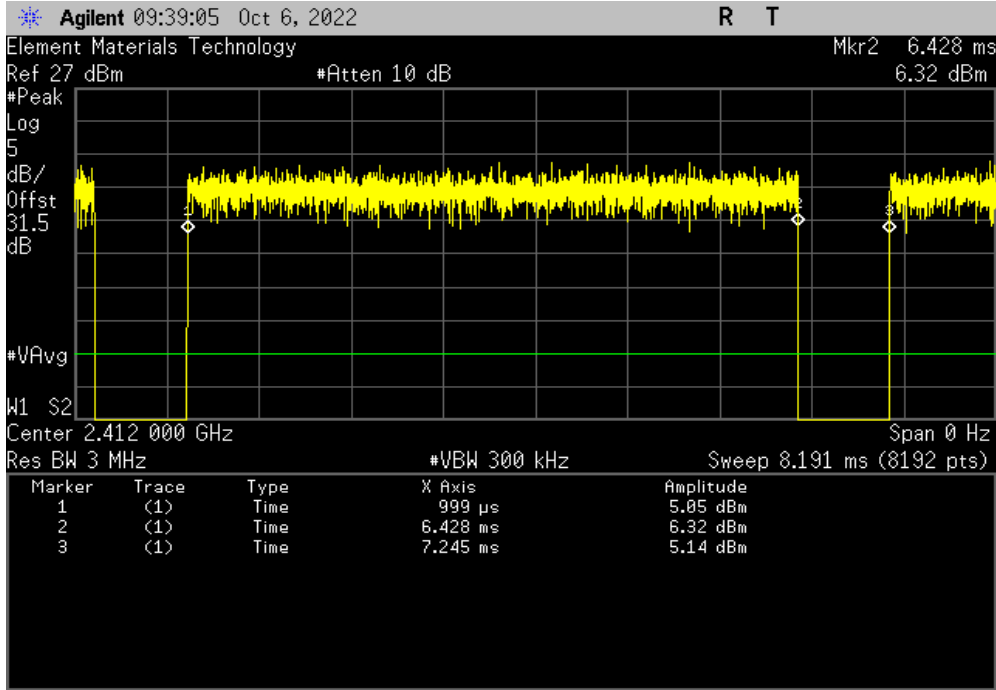


DUTY CYCLE - CHAIN 0

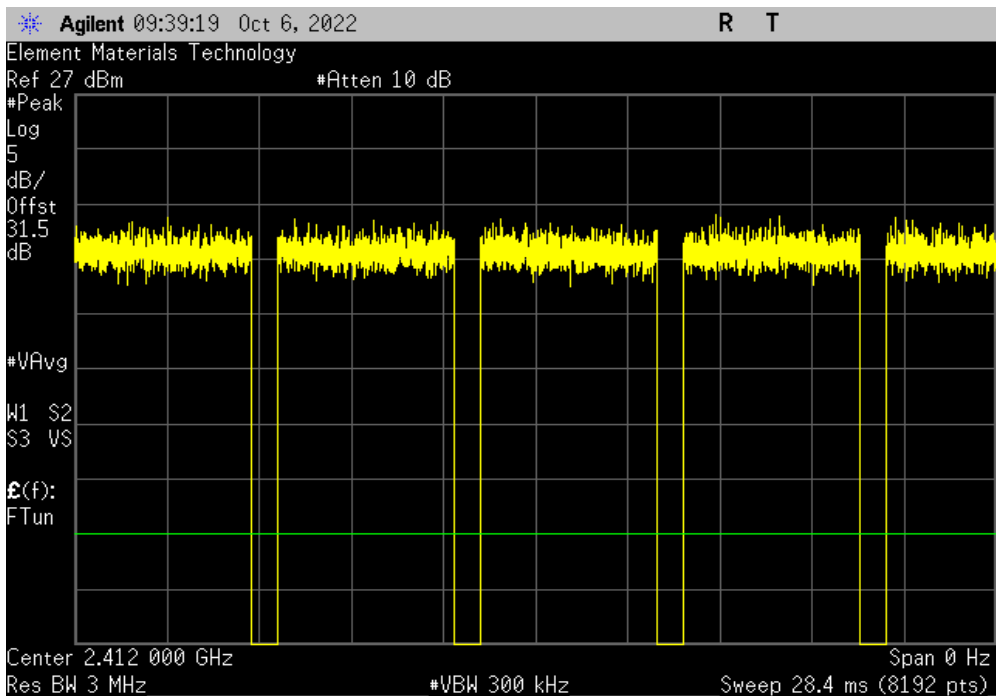


TuTx 2022.06.03.0 XMI 2022.02.07.0

| Chain 0, VHT20, MCS0, Low Channel 1, 2412 MHz | | | | | | |
|---|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 5.429 ms | 6.246 ms | 1 | 86.9 | N/A | N/A | |



| Chain 0, VHT20, MCS0, Low Channel 1, 2412 MHz | | | | | | |
|---|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |

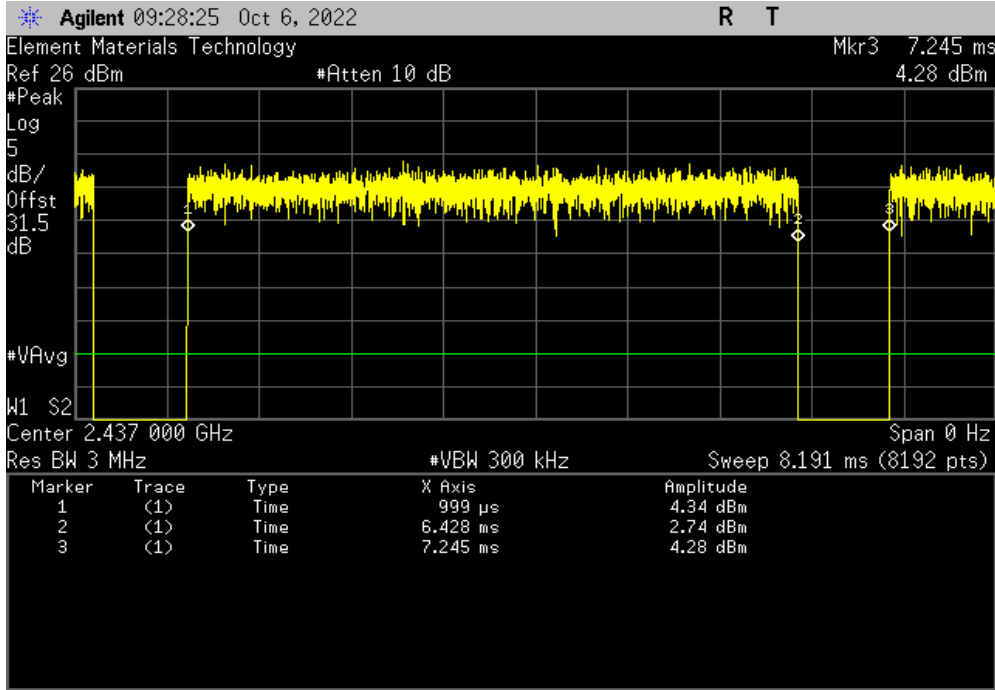


DUTY CYCLE - CHAIN 0

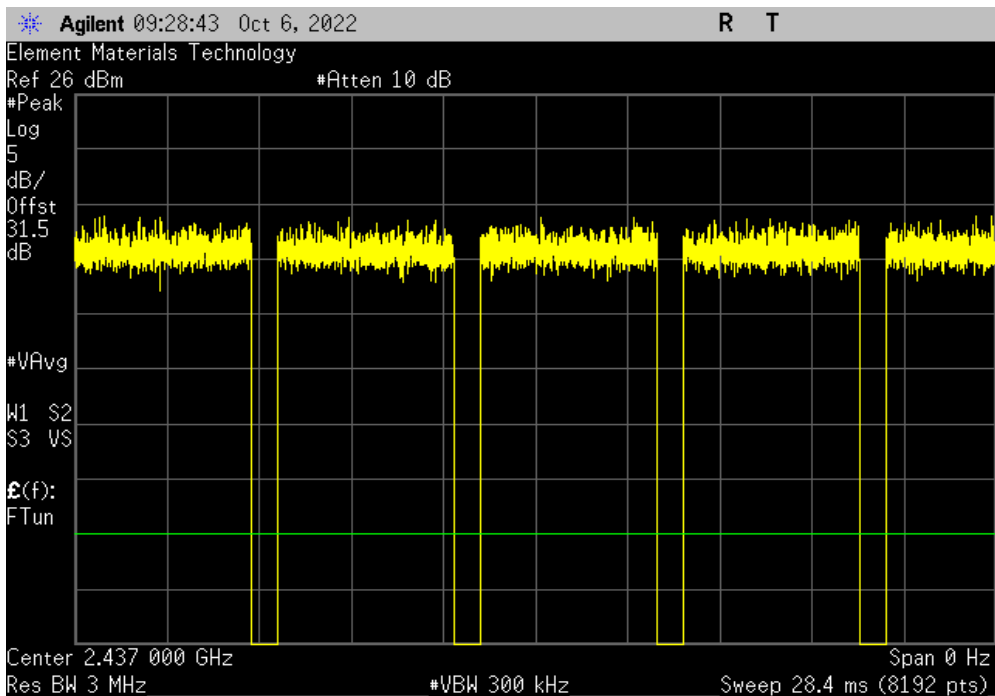


TuTx 2022.06.03.0 XMt 2022.02.07.0

| Chain 0, VHT20, MCS0, Mid Channel 6, 2437 MHz | | | | | | |
|---|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 5.429 ms | 6.246 ms | 1 | 86.9 | N/A | N/A | |



| Chain 0, VHT20, MCS0, Mid Channel 6, 2437 MHz | | | | | | |
|---|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |

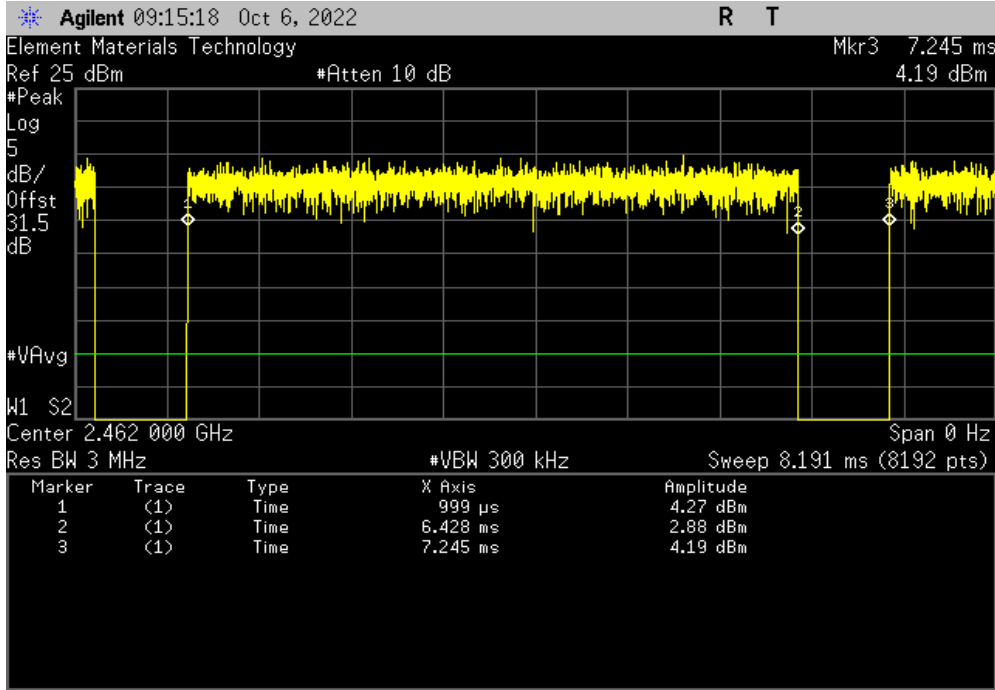


DUTY CYCLE - CHAIN 0

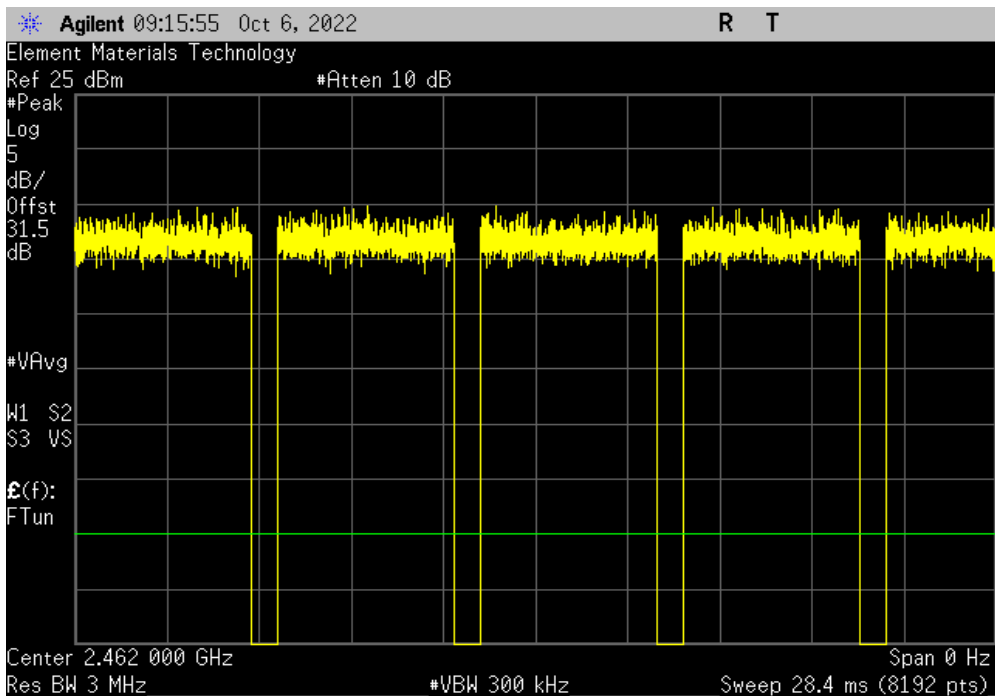


TuTx 2022.06.03.0 XMt 2022.02.07.0

| Chain 0, VHT20, MCS0, High Channel 11, 2462 MHz | | | | | | |
|---|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 5.429 ms | 6.246 ms | 1 | 86.9 | N/A | N/A | |



| Chain 0, VHT20, MCS0, High Channel 11, 2462 MHz | | | | | | |
|---|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |

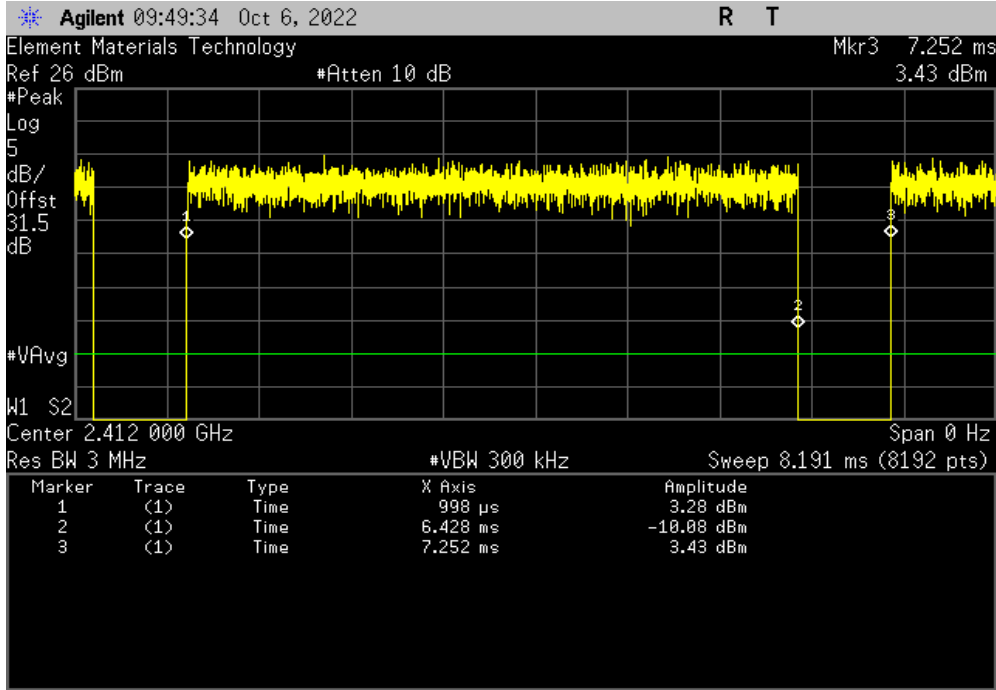


DUTY CYCLE - CHAIN 0

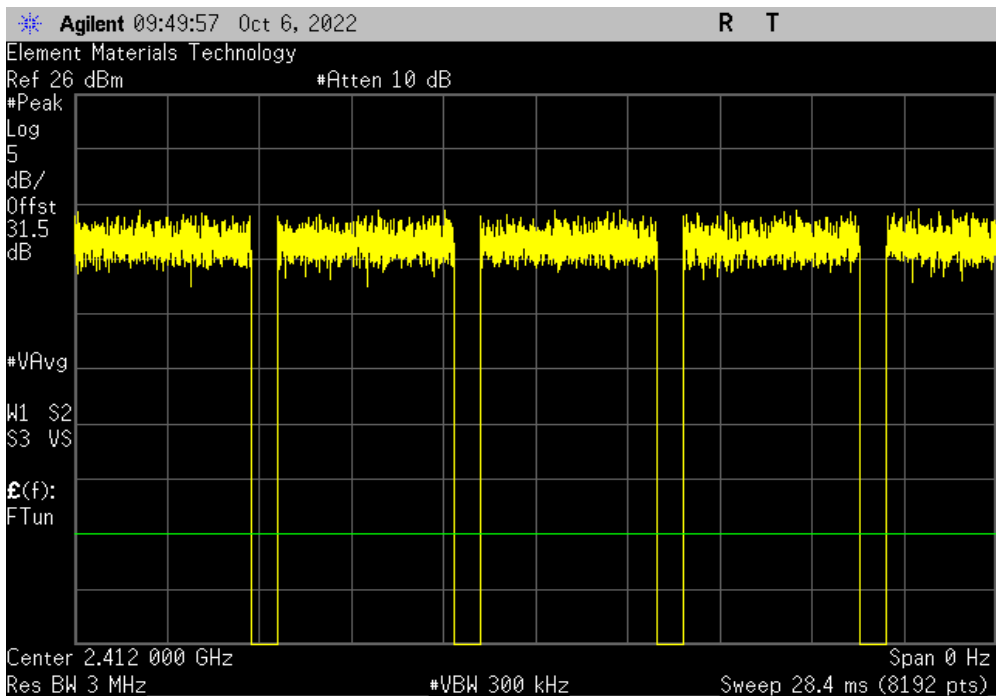


TuTx 2022.06.03.0 XMt 2022.02.07.0

| Chain 0, VHT20, MCS8, Low Channel 1, 2412 MHz | | | | | | |
|---|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 5.43 ms | 6.254 ms | 1 | 86.8 | N/A | N/A | |



| Chain 0, VHT20, MCS8, Low Channel 1, 2412 MHz | | | | | | |
|---|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |

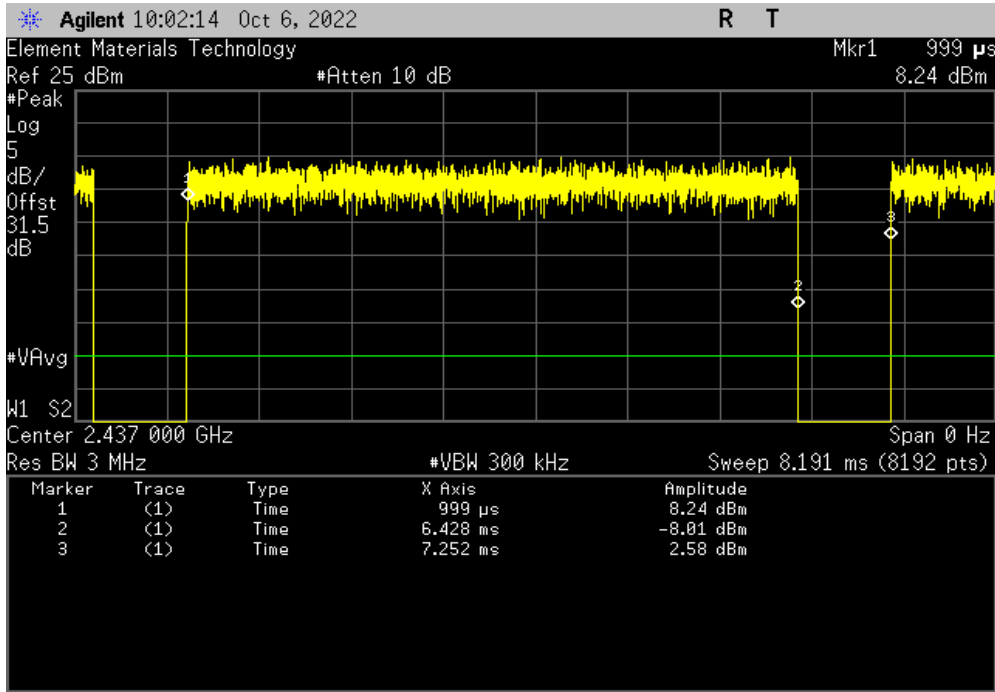


DUTY CYCLE - CHAIN 0

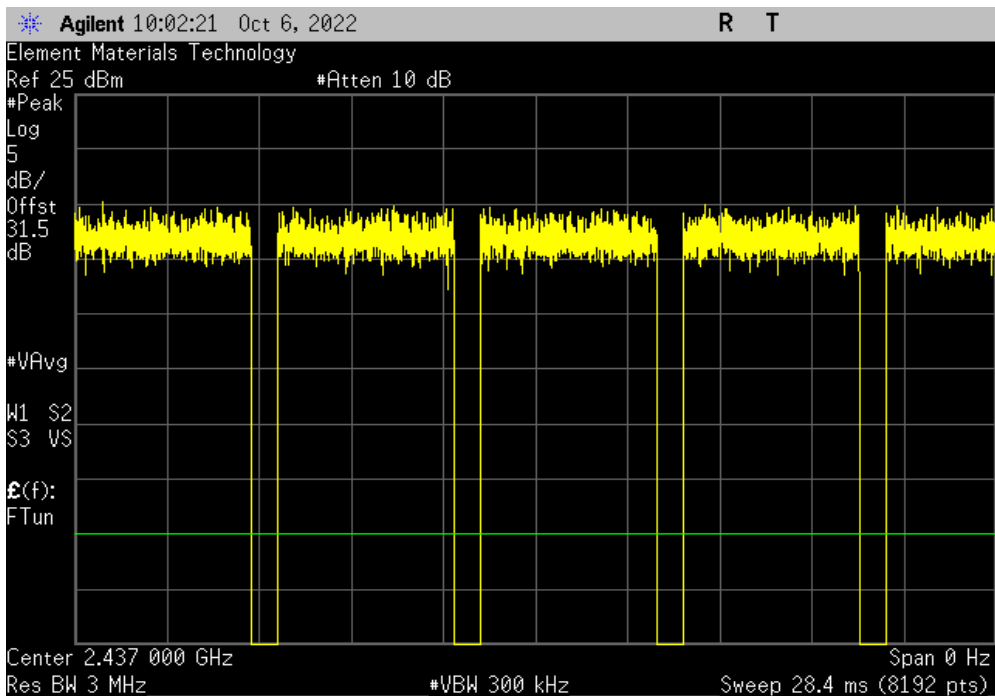


TuTx 2022.06.03.0 XMt 2022.02.07.0

| Chain 0, VHT20, MCS8, Mid Channel 6, 2437 MHz | | | | | | |
|---|-------------|----------|------------------|-----------|-----------|---------|
| | Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results |
| | 5.429 ms | 6.253 ms | 1 | 86.8 | N/A | N/A |



| Chain 0, VHT20, MCS8, Mid Channel 6, 2437 MHz | | | | | | |
|---|-------------|--------|------------------|-----------|-----------|---------|
| | Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results |
| | N/A | N/A | 5 | N/A | N/A | N/A |

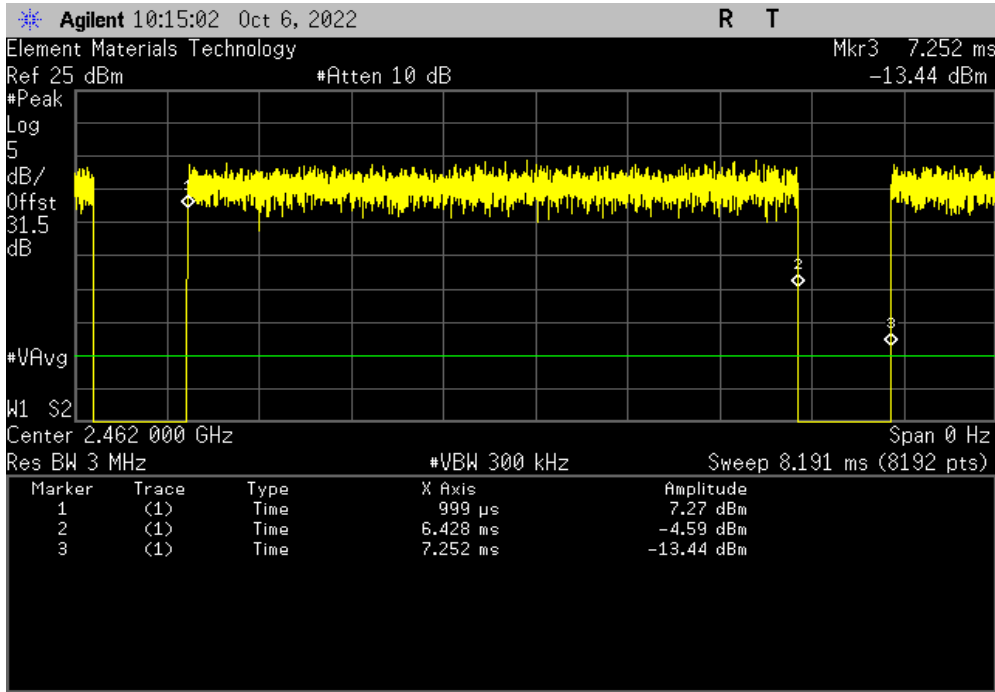


DUTY CYCLE - CHAIN 0

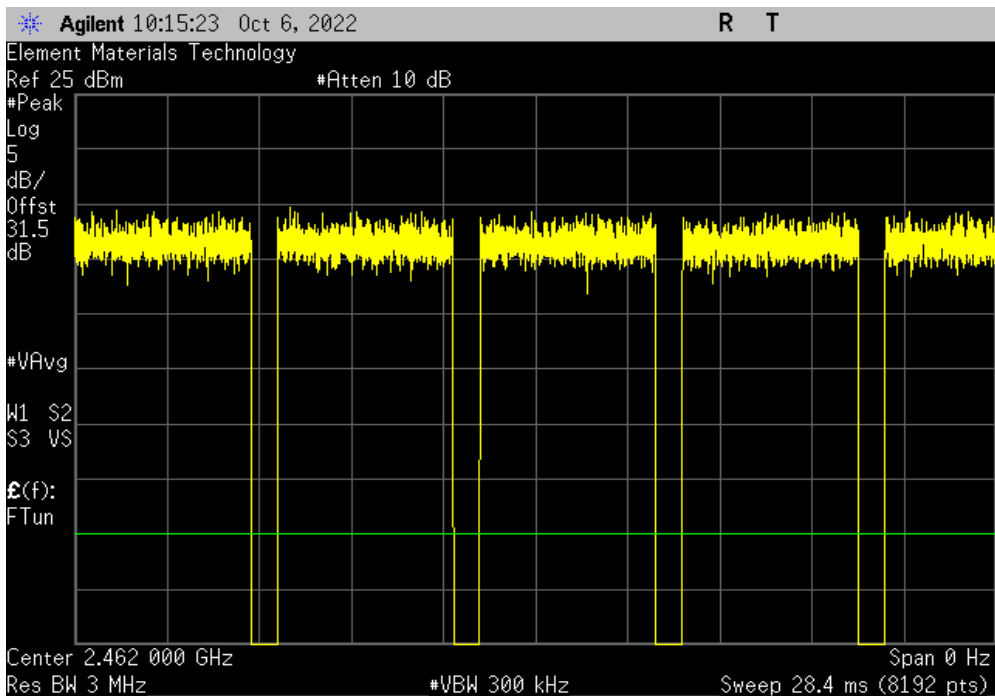


TuTx 2022.06.03.0 XMt 2022.02.07.0

| Chain 0, VHT20, MCS8, High Channel 11, 2462 MHz | | | | | | |
|---|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 5.429 ms | 6.253 ms | 1 | 86.8 | N/A | N/A | |



| Chain 0, VHT20, MCS8, High Channel 11, 2462 MHz | | | | | | |
|---|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |

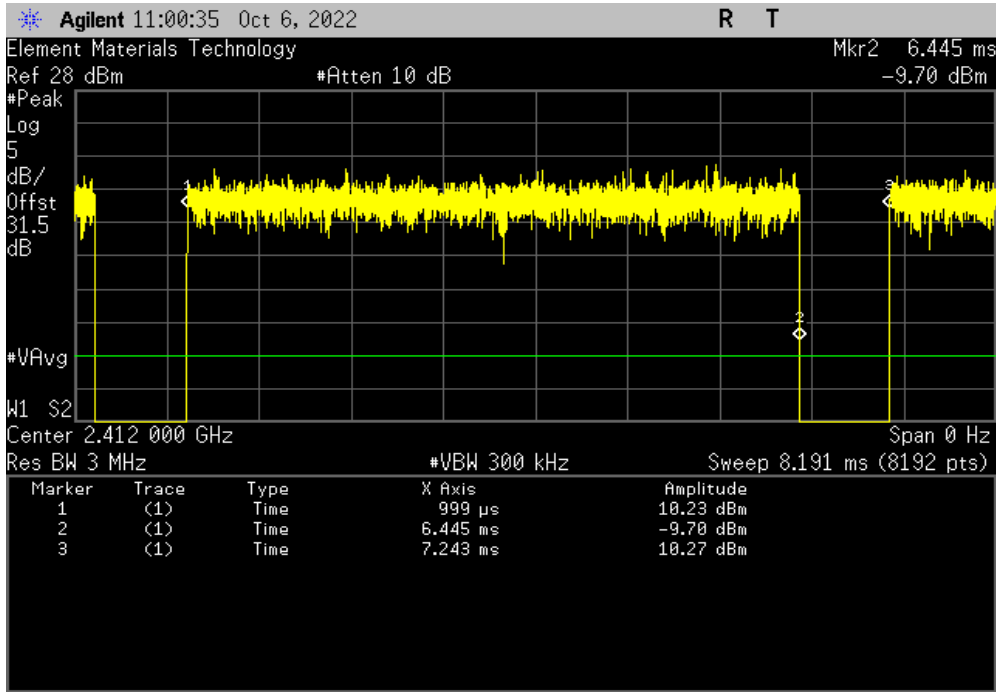


DUTY CYCLE - CHAIN 0

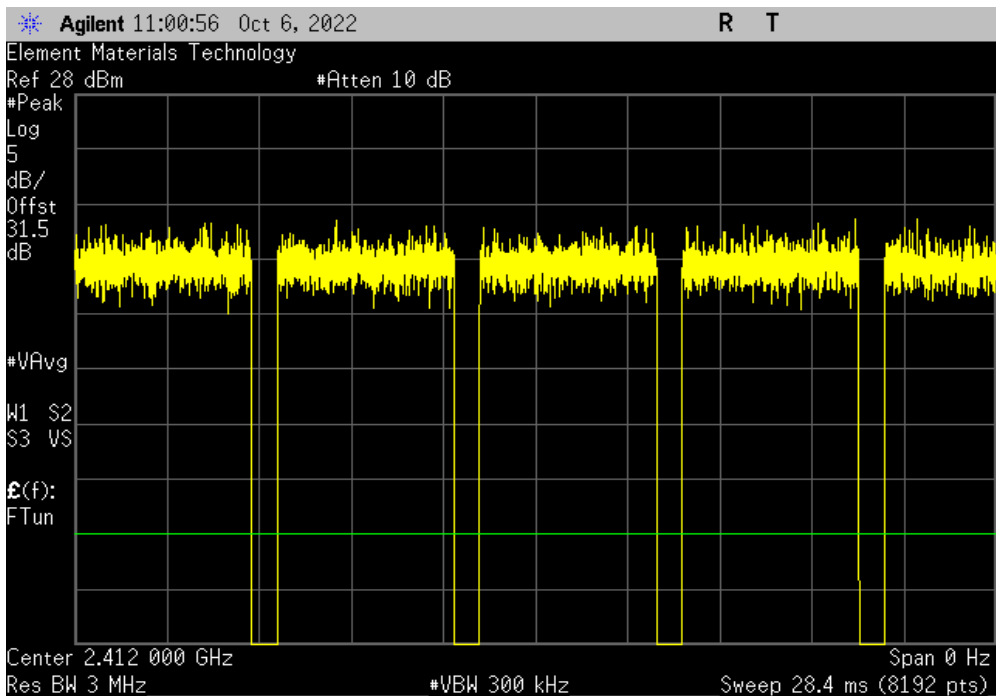


TbTx 2022.06.03.0 XMI 2022.02.07.0

| Chain 0, HE20, MCS0, Low Channel 1, 2412 MHz | | | | | | |
|--|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 5.446 ms | 6.244 ms | 1 | 87.2 | N/A | N/A | |



| Chain 0, HE20, MCS0, Low Channel 1, 2412 MHz | | | | | | |
|--|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |

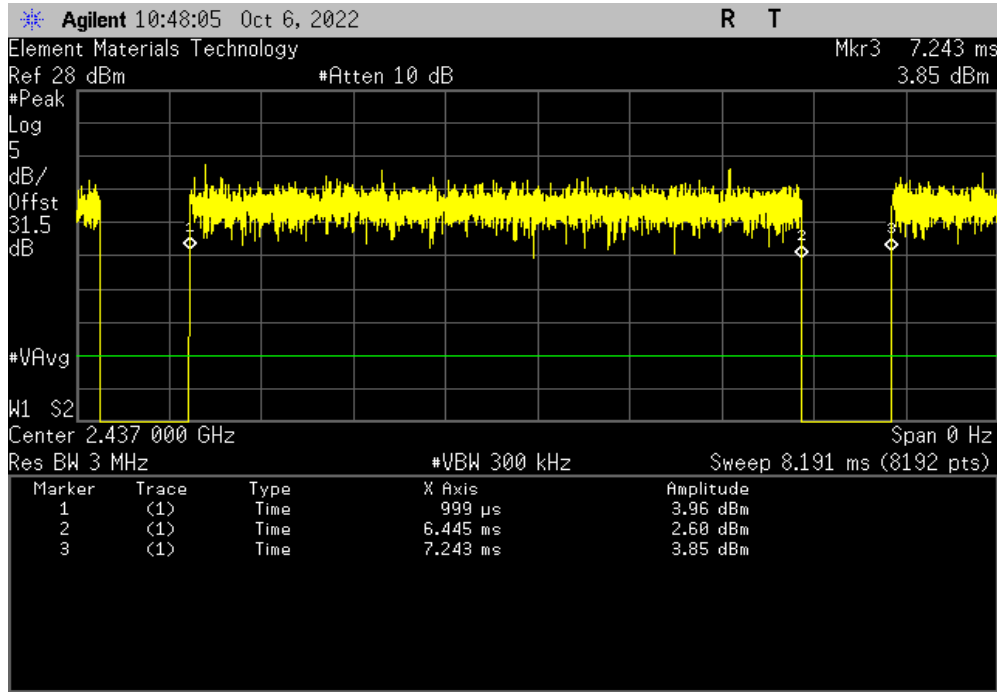


DUTY CYCLE - CHAIN 0

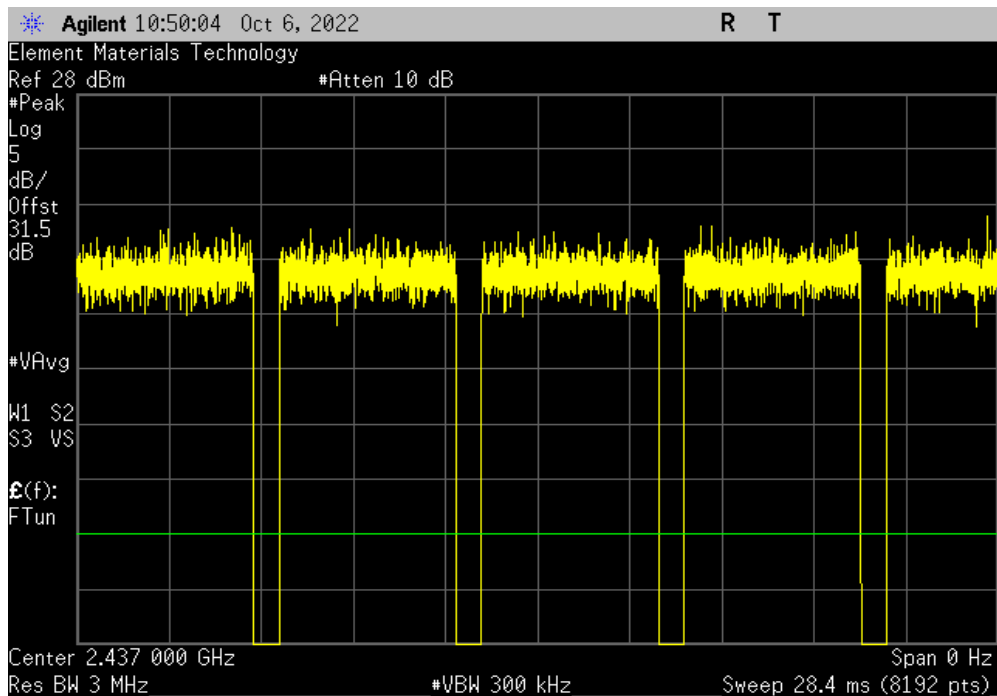


TuTx 2022.06.03.0 XMt 2022.02.07.0

| Chain 0, HE20, MCS0, Mid Channel 6, 2437 MHz | | | | | | |
|--|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 5.446 ms | 6.244 ms | 1 | 87.2 | N/A | N/A | |



| Chain 0, HE20, MCS0, Mid Channel 6, 2437 MHz | | | | | | |
|--|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |

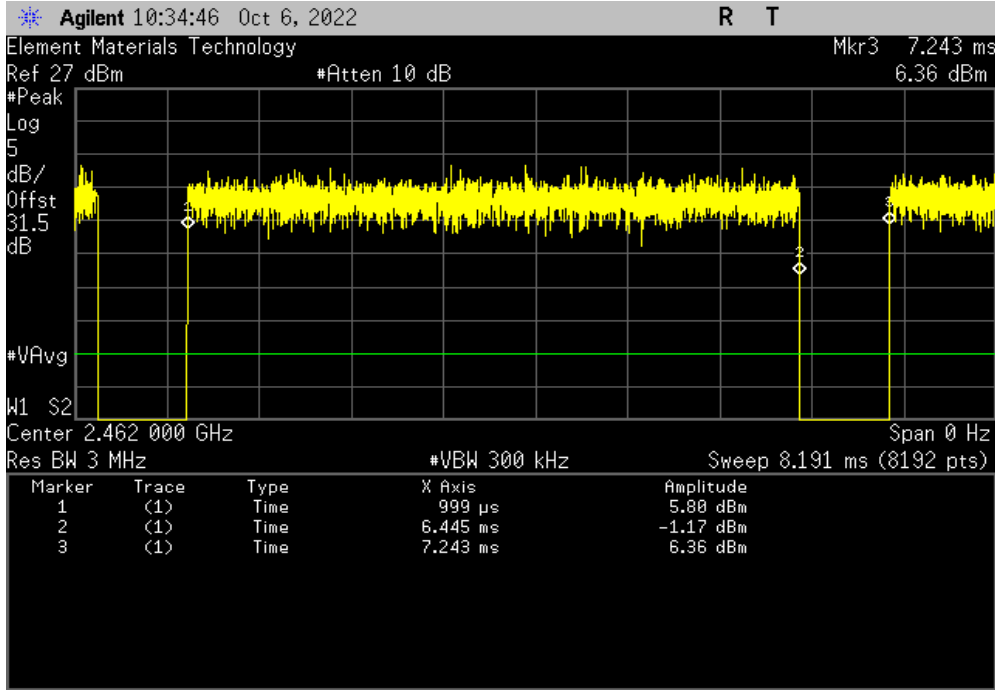


DUTY CYCLE - CHAIN 0

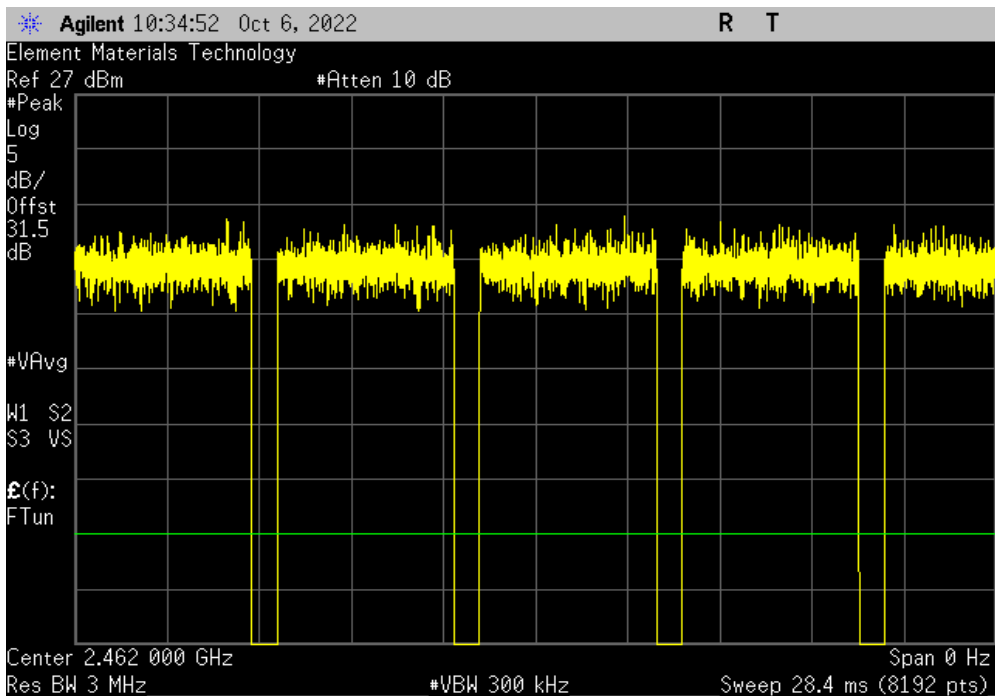


TuTx 2022.06.03.0 XMI 2022.02.07.0

| Chain 0, HE20, MCS0, High Channel 11, 2462 MHz | | | | | | |
|--|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 5.446 ms | 6.244 ms | 1 | 87.2 | N/A | N/A | |



| Chain 0, HE20, MCS0, High Channel 11, 2462 MHz | | | | | | |
|--|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |

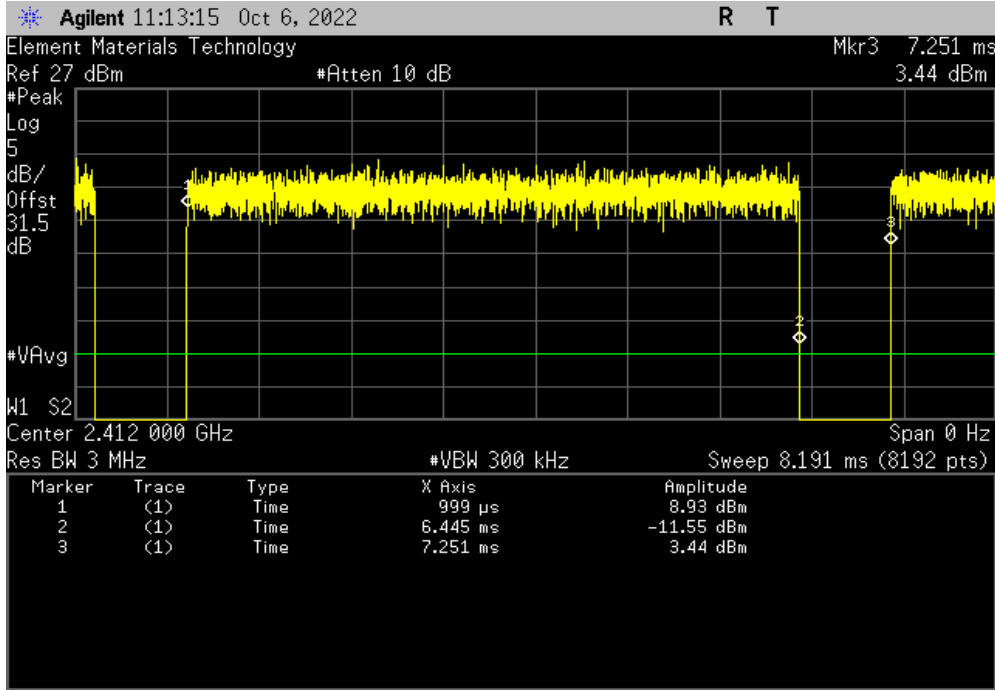


DUTY CYCLE - CHAIN 0

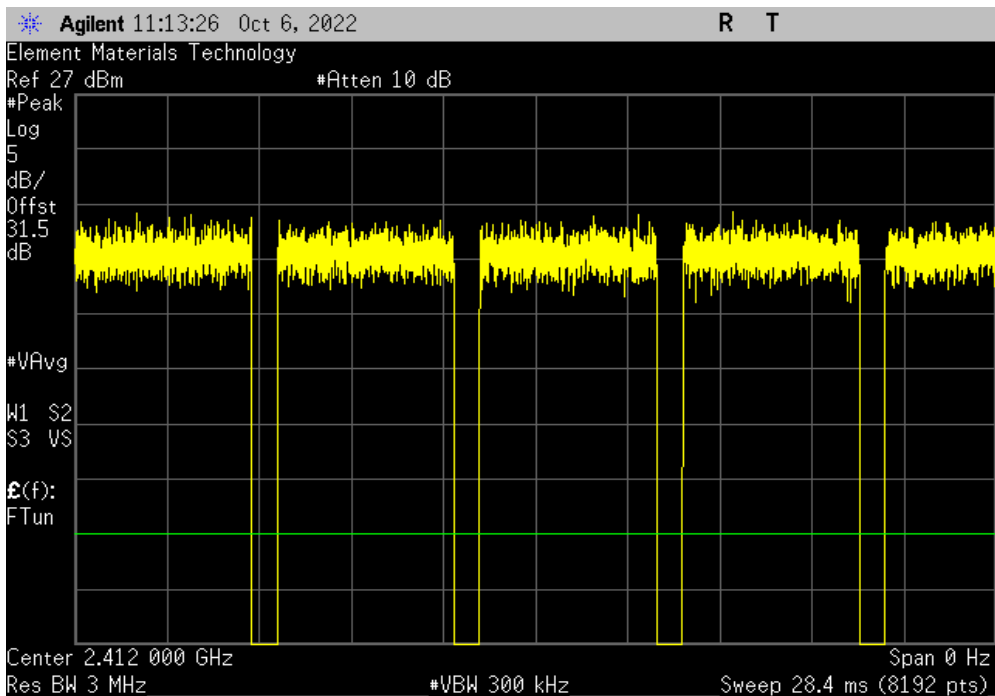


TuTx 2022.06.03.0 XMt 2022.02.07.0

| Chain 0, HE20, MCS11, Low Channel 1, 2412 MHz | | | | | | |
|---|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 5.446 ms | 6.252 ms | 1 | 87.1 | N/A | N/A | |



| Chain 0, HE20, MCS11, Low Channel 1, 2412 MHz | | | | | | |
|---|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |

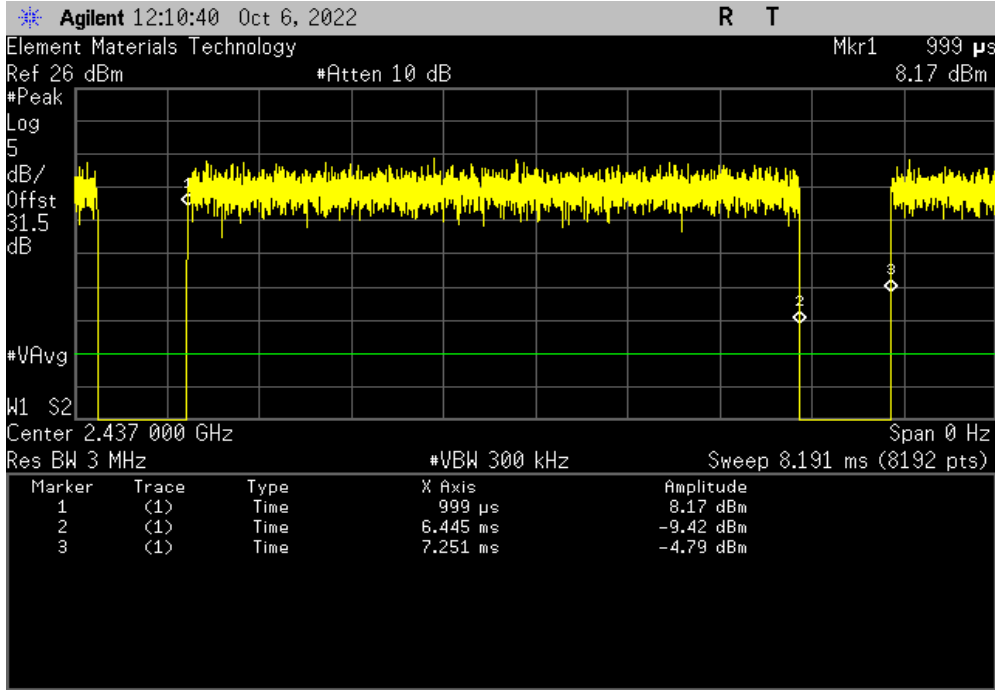


DUTY CYCLE - CHAIN 0

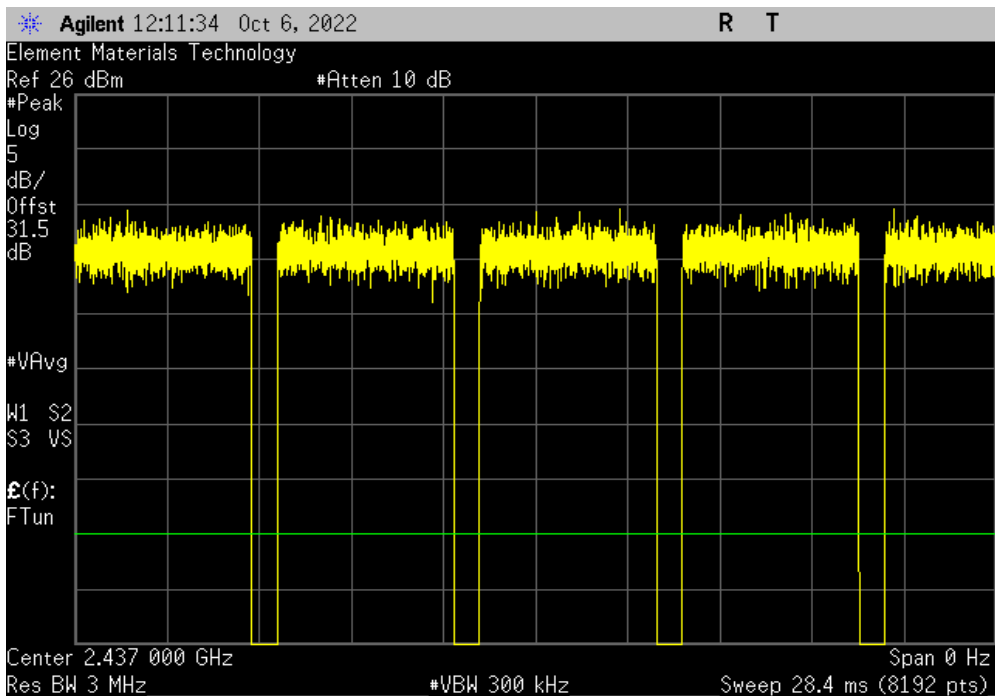


TuTx 2022.06.03.0 XMt 2022.02.07.0

| Chain 0, HE20, MCS11, Mid Channel 6, 2437 MHz | | | | | | |
|---|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 5.446 ms | 6.252 ms | 1 | 87.1 | N/A | N/A | |



| Chain 0, HE20, MCS11, Mid Channel 6, 2437 MHz | | | | | | |
|---|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |

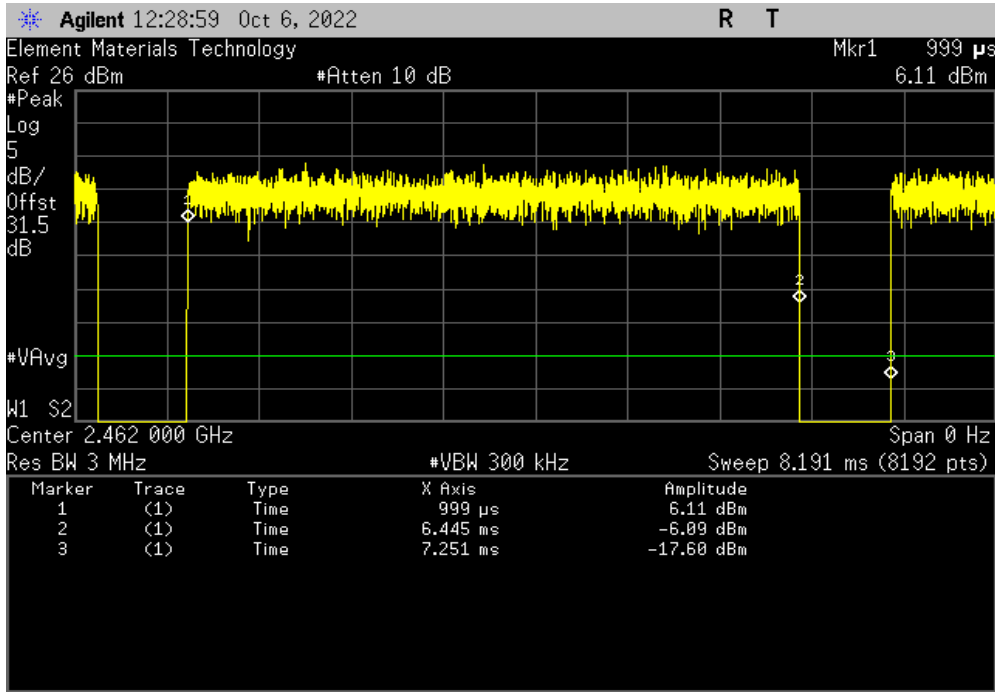


DUTY CYCLE - CHAIN 0

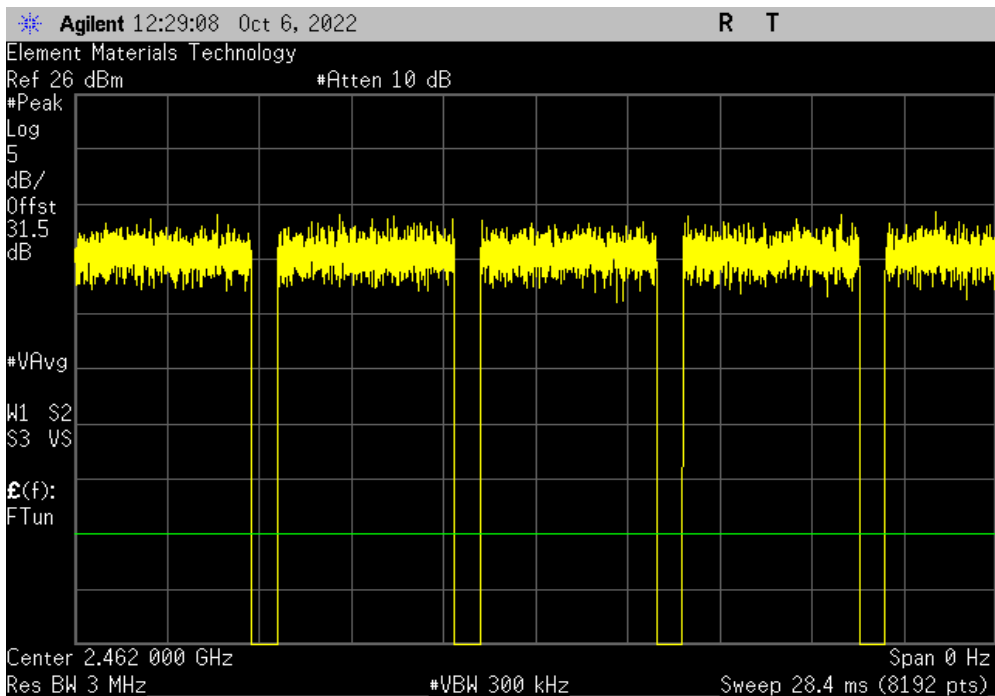


TuTx 2022.06.03.0 XMI 2022.02.07.0

| Chain 0, HE20, MCS11, High Channel 11, 2462 MHz | | | | | | |
|---|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 5.446 ms | 6.252 ms | 1 | 87.1 | N/A | N/A | |



| Chain 0, HE20, MCS11, High Channel 11, 2462 MHz | | | | | | |
|---|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |



DUTY CYCLE - CHAIN 1

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 | Keysight | N5182B | TFU | 2020-11-20 | 2022-11-20 |
| Cable | Micro-Coax | UFD150A-1-0720-200200 | EVI | 2021-12-05 | 2022-12-05 |
| Attenuator | S.M. Electronics | SA26B-10 | AWR | 2022-07-05 | 2023-07-05 |
| Attenuator | S.M. Electronics | SA26B-20 | AUY | 2022-03-15 | 2023-03-15 |
| Block - DC | Fairview Microwave | SD3379 | AMW | 2022-03-14 | 2023-03-14 |
| Analyzer - Spectrum Analyzer | Agilent | E4440A | AAW | 2022-01-26 | 2023-01-26 |

TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer.

The Duty Cycle (x) of the single channel operation of the radio as controlled by the provided test software was measured for each of the EUT operating modes.

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

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

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

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

DUTY CYCLE - CHAIN 1



TbTx 2022.06.03.0 XMit 2022.02.07.0

| | | | |
|--|---------------------------|-----------------------------|------------------|
| EUT: U8 Hawk | | Work Order: KYME0068 | |
| Serial Number: 192F-85E2-1761 | | Date: 7-Oct-22 | |
| Customer: Kymeta Corp. | | Temperature: 22.5 °C | |
| Attendees: Dean Busch | | Humidity: 43.7% RH | |
| Project: None | | Barometric Pres.: 1025 mbar | |
| Tested by: Jeff Alcock | Power: 12 VDC | Job Site: EV06 | |
| TEST SPECIFICATIONS | | Test Method | |
| FCC 15.247:2022 | | ANSI C63.10:2013 | |
| RSS-247 Issue 2:2017 | | ANSI C63.10:2013 | |
| COMMENTS | | | |
| Reference level offset includes: DC Block, 30 dB attenuation, and measurement cable. | | | |
| DEVIATIONS FROM TEST STANDARD | | | |
| None | | | |
| Configuration # | 1 | Signature | |
| | | Pulse Width | Period |
| | | Number of Pulses | Value (%) |
| | | Limit (%) | Results |
| Chain 1 | | | |
| CCK, 1 Mbps | | | |
| | Low Channel 1, 2412 MHz | 664.97 us | 2.119 ms |
| | Low Channel 1, 2412 MHz | N/A | N/A |
| | Mid Channel 6, 2437 MHz | 664.97 us | 2.119 ms |
| | Mid Channel 6, 2437 MHz | N/A | N/A |
| | High Channel 11, 2462 MHz | 664.97 us | 2.119 ms |
| | High Channel 11, 2462 MHz | N/A | N/A |
| CCK, 11 Mbps | | | |
| | Low Channel 1, 2412 MHz | 235.832 us | 2.121 ms |
| | Low Channel 1, 2412 MHz | N/A | N/A |
| | Mid Channel 6, 2437 MHz | 236.011 us | 2.121 ms |
| | Mid Channel 6, 2437 MHz | N/A | N/A |
| | High Channel 11, 2462 MHz | 235.795 us | 2.121 ms |
| | High Channel 11, 2462 MHz | N/A | N/A |
| Legacy OFDM, 6 Mbps | | | |
| | Low Channel 1, 2412 MHz | 1.977 ms | 2.146 ms |
| | Low Channel 1, 2412 MHz | N/A | N/A |
| | Mid Channel 6, 2437 MHz | 1.977 ms | 2.146 ms |
| | Mid Channel 6, 2437 MHz | N/A | N/A |
| | High Channel 11, 2462 MHz | 1.977 ms | 2.146 ms |
| | High Channel 11, 2462 MHz | N/A | N/A |
| Legacy OFDM, 36 Mbps | | | |
| | Low Channel 1, 2412 MHz | 348.8 us | 598.019 us |
| | Low Channel 1, 2412 MHz | N/A | N/A |
| | Mid Channel 6, 2437 MHz | 348.944 us | 597.958 us |
| | Mid Channel 6, 2437 MHz | N/A | N/A |
| | High Channel 11, 2462 MHz | 349 us | 597.797 us |
| | High Channel 11, 2462 MHz | N/A | N/A |
| Legacy OFDM, 54 Mbps | | | |
| | Low Channel 1, 2412 MHz | 240.966 us | 498.89 us |
| | Low Channel 1, 2412 MHz | N/A | N/A |
| | Mid Channel 6, 2437 MHz | 240.7 us | 498.794 us |
| | Mid Channel 6, 2437 MHz | N/A | N/A |
| | High Channel 11, 2462 MHz | 240.8 us | 498.912 us |
| | High Channel 11, 2462 MHz | N/A | N/A |
| HT20, MCS0 | | | |
| | Low Channel 1, 2412 MHz | 5.429 ms | 6.255 ms |
| | Low Channel 1, 2412 MHz | N/A | N/A |
| | Mid Channel 6, 2437 MHz | 5.429 ms | 6.255 ms |
| | Mid Channel 6, 2437 MHz | N/A | N/A |
| | High Channel 11, 2462 MHz | 5.429 ms | 6.255 ms |
| | High Channel 11, 2462 MHz | N/A | N/A |

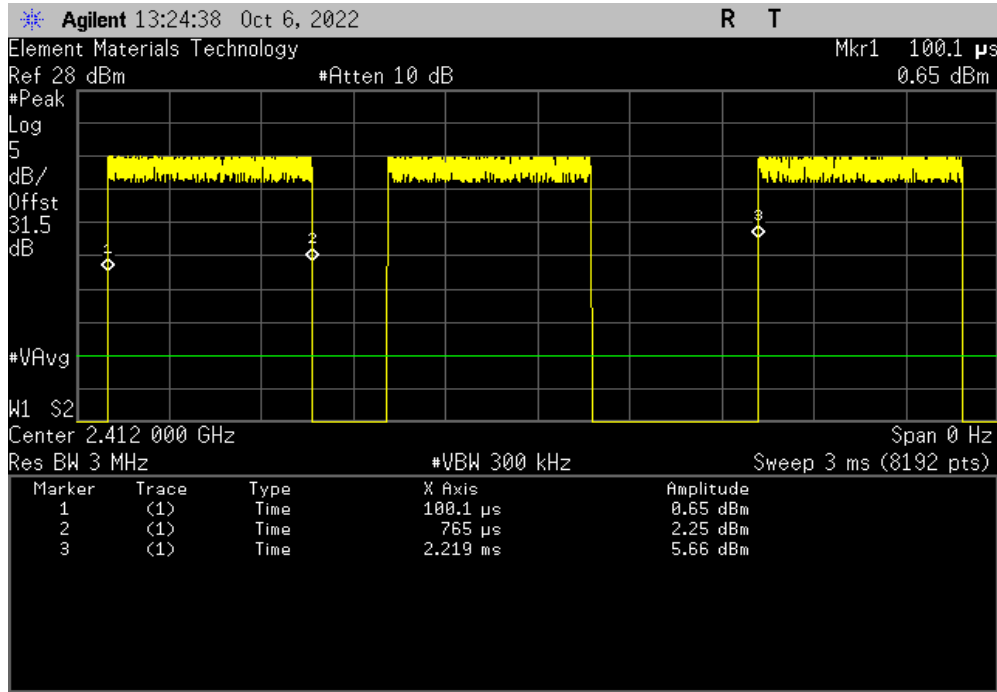
| | | | | | | | |
|---------------------------|----------|----------|---|------|-----|-----|--|
| HT20, MCS7 | | | | | | | |
| Low Channel 1, 2412 MHz | 5.429 ms | 6.254 ms | 1 | 86.8 | N/A | N/A | |
| Low Channel 1, 2412 MHz | N/A | N/A | 5 | N/A | N/A | N/A | |
| Mid Channel 6, 2437 MHz | 5.429 ms | 6.255 ms | 1 | 86.8 | N/A | N/A | |
| Mid Channel 6, 2437 MHz | N/A | N/A | 5 | N/A | N/A | N/A | |
| High Channel 11, 2462 MHz | 5.429 ms | 6.254 ms | 1 | 86.8 | N/A | N/A | |
| High Channel 11, 2462 MHz | N/A | N/A | 5 | N/A | N/A | N/A | |
| VHT20, MCS0 | | | | | | | |
| Low Channel 1, 2412 MHz | 5.429 ms | 6.246 ms | 1 | 86.9 | N/A | N/A | |
| Low Channel 1, 2412 MHz | N/A | N/A | 5 | N/A | N/A | N/A | |
| Mid Channel 6, 2437 MHz | 5.429 ms | 6.246 ms | 1 | 86.9 | N/A | N/A | |
| Mid Channel 6, 2437 MHz | N/A | N/A | 5 | N/A | N/A | N/A | |
| High Channel 11, 2462 MHz | 5.429 ms | 6.246 ms | 1 | 86.9 | N/A | N/A | |
| High Channel 11, 2462 MHz | N/A | N/A | 5 | N/A | N/A | N/A | |
| VHT20, MCS8 | | | | | | | |
| Low Channel 1, 2412 MHz | 5.429 ms | 6.253 ms | 1 | 86.8 | N/A | N/A | |
| Low Channel 1, 2412 MHz | N/A | N/A | 5 | N/A | N/A | N/A | |
| Mid Channel 6, 2437 MHz | 5.429 ms | 6.259 ms | 1 | 86.7 | N/A | N/A | |
| Mid Channel 6, 2437 MHz | N/A | N/A | 5 | N/A | N/A | N/A | |
| High Channel 11, 2462 MHz | 5.429 ms | 6.253 ms | 1 | 86.8 | N/A | N/A | |
| High Channel 11, 2462 MHz | N/A | N/A | 5 | N/A | N/A | N/A | |
| HE20, MCS0 | | | | | | | |
| Low Channel 1, 2412 MHz | 5.446 ms | 6.244 ms | 1 | 87.2 | N/A | N/A | |
| Low Channel 1, 2412 MHz | N/A | N/A | 5 | N/A | N/A | N/A | |
| Mid Channel 6, 2437 MHz | 5.446 ms | 6.244 ms | 1 | 87.2 | N/A | N/A | |
| Mid Channel 6, 2437 MHz | N/A | N/A | 5 | N/A | N/A | N/A | |
| High Channel 11, 2462 MHz | 5.446 ms | 6.244 ms | 1 | 87.2 | N/A | N/A | |
| High Channel 11, 2462 MHz | N/A | N/A | 5 | N/A | N/A | N/A | |
| HE20, MCS11 | | | | | | | |
| Low Channel 1, 2412 MHz | 5.446 ms | 6.252 ms | 1 | 87.1 | N/A | N/A | |
| Low Channel 1, 2412 MHz | N/A | N/A | 5 | N/A | N/A | N/A | |
| Mid Channel 6, 2437 MHz | 5.446 ms | 6.252 ms | 1 | 87.1 | N/A | N/A | |
| Mid Channel 6, 2437 MHz | N/A | N/A | 5 | N/A | N/A | N/A | |
| High Channel 11, 2462 MHz | 5.446 ms | 6.252 ms | 1 | 87.1 | N/A | N/A | |
| High Channel 11, 2462 MHz | N/A | N/A | 5 | N/A | N/A | N/A | |

DUTY CYCLE - CHAIN 1

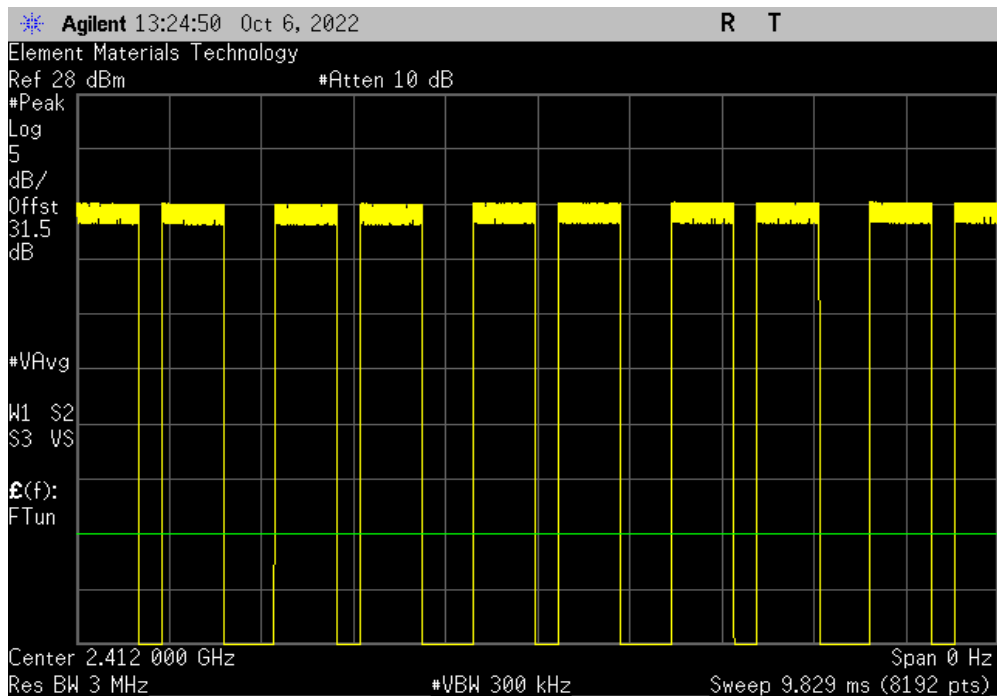


TuTx 2022.06.03.0 XMI 2022.02.07.0

| Chain 1, CCK, 1 Mbps, Low Channel 1, 2412 MHz | | | | | | |
|---|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 664.97 us | 2.119 ms | 2 | 62.8 | N/A | N/A | |



| Chain 1, CCK, 1 Mbps, Low Channel 1, 2412 MHz | | | | | | |
|---|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 10 | N/A | N/A | N/A | |

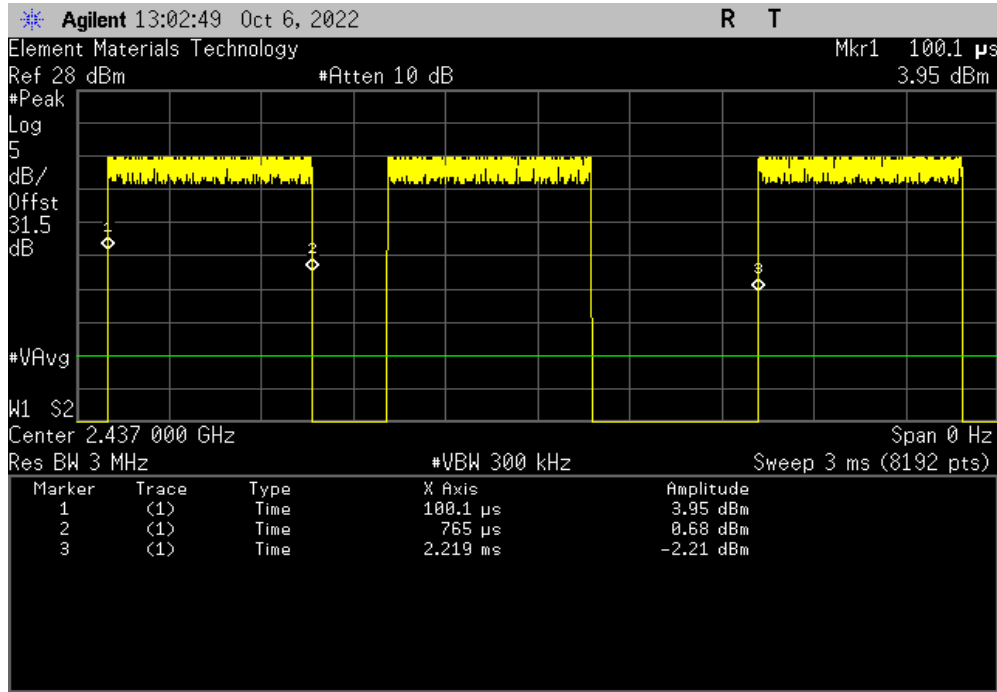


DUTY CYCLE - CHAIN 1

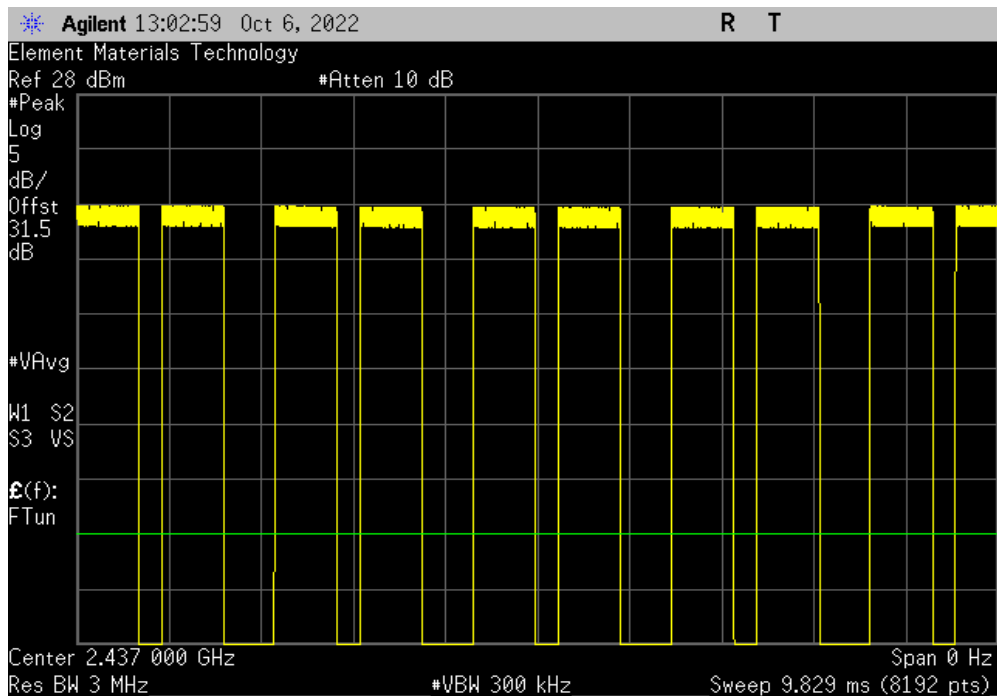


TbTx 2022.06.03.0 XMI 2022.02.07.0

| Chain 1, CCK, 1 Mbps, Mid Channel 6, 2437 MHz | | | | | | |
|---|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 664.97 us | 2.119 ms | 2 | 62.8 | N/A | N/A | |



| Chain 1, CCK, 1 Mbps, Mid Channel 6, 2437 MHz | | | | | | |
|---|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 10 | N/A | N/A | N/A | |

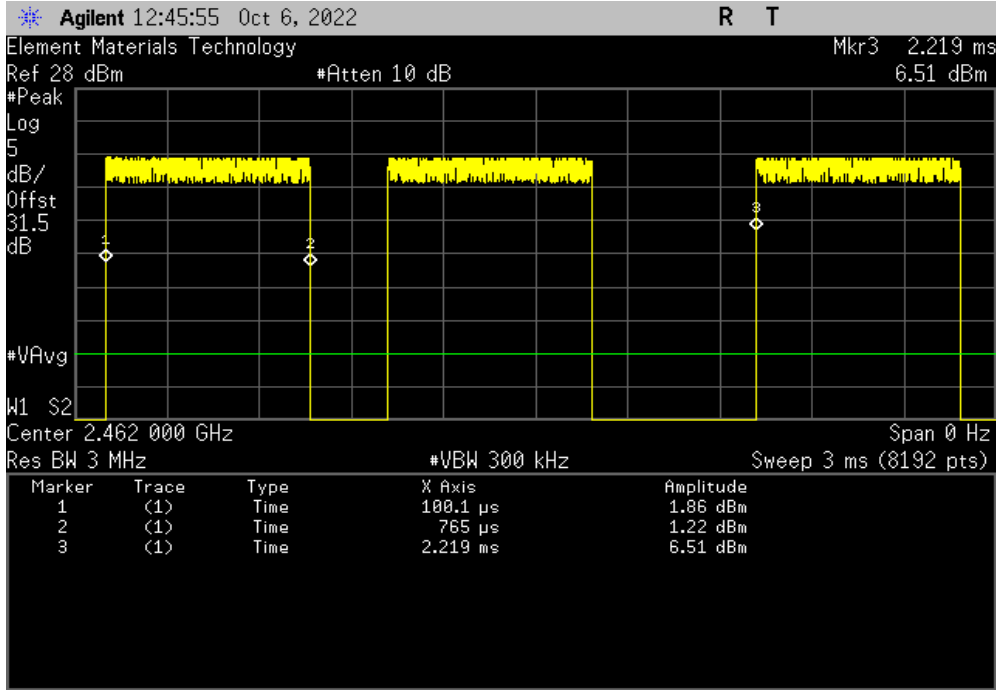


DUTY CYCLE - CHAIN 1

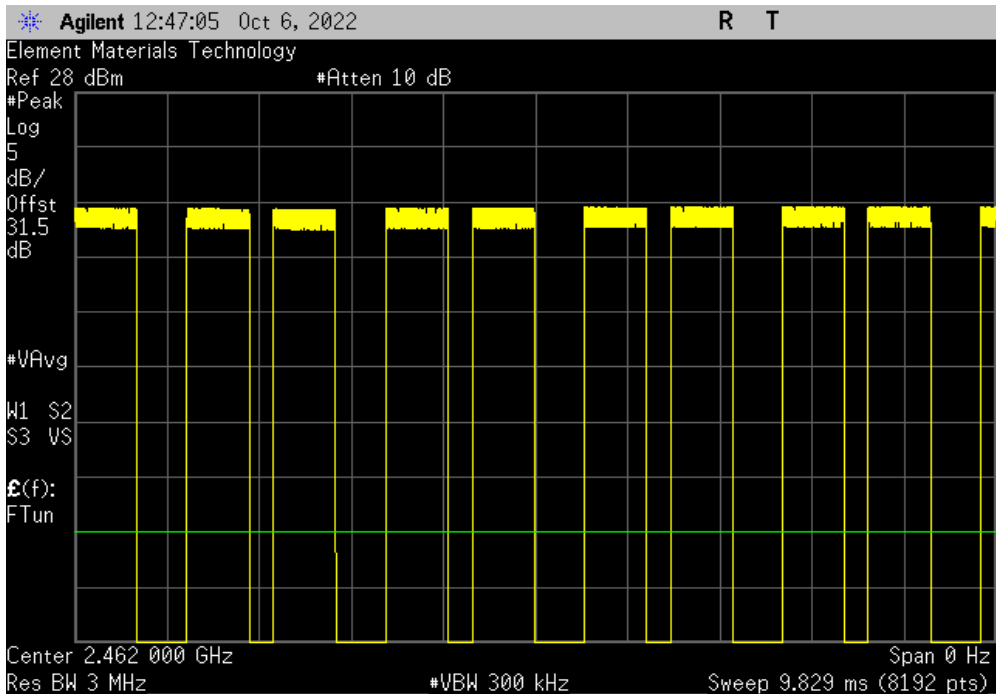


TuTx 2022.06.03.0 XMt 2022.02.07.0

| Chain 1, CCK, 1 Mbps, High Channel 11, 2462 MHz | | | | | | |
|---|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 664.97 us | 2.119 ms | 2 | 62.8 | N/A | N/A | |



| Chain 1, CCK, 1 Mbps, High Channel 11, 2462 MHz | | | | | | |
|---|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 10 | N/A | N/A | N/A | |

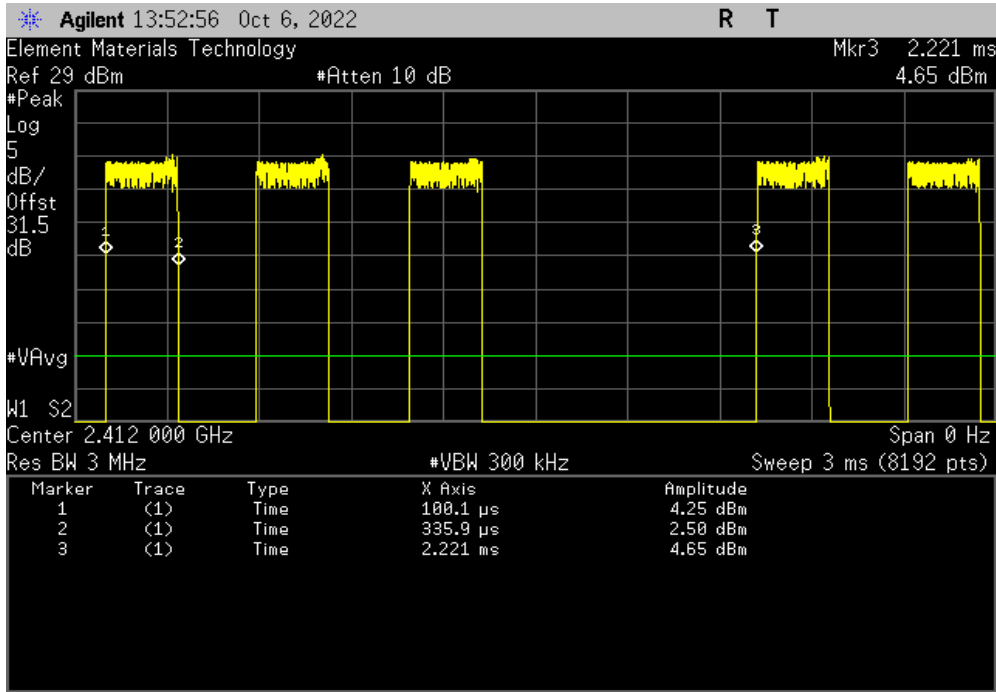


DUTY CYCLE - CHAIN 1

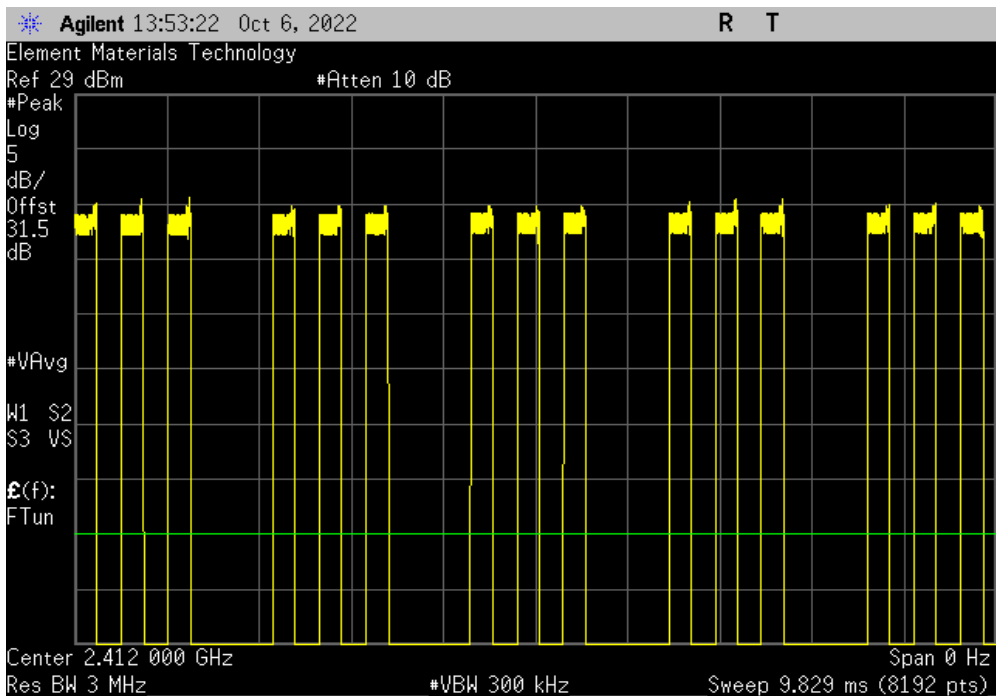


TuTx 2022.06.03.0 XMi 2022.02.07.0

| Chain 1, CCK, 11 Mbps, Low Channel 1, 2412 MHz | | | | | | |
|--|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 235.832 us | 2.121 ms | 3 | 33.4 | N/A | N/A | |



| Chain 1, CCK, 11 Mbps, Low Channel 1, 2412 MHz | | | | | | |
|--|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 15 | N/A | N/A | N/A | |

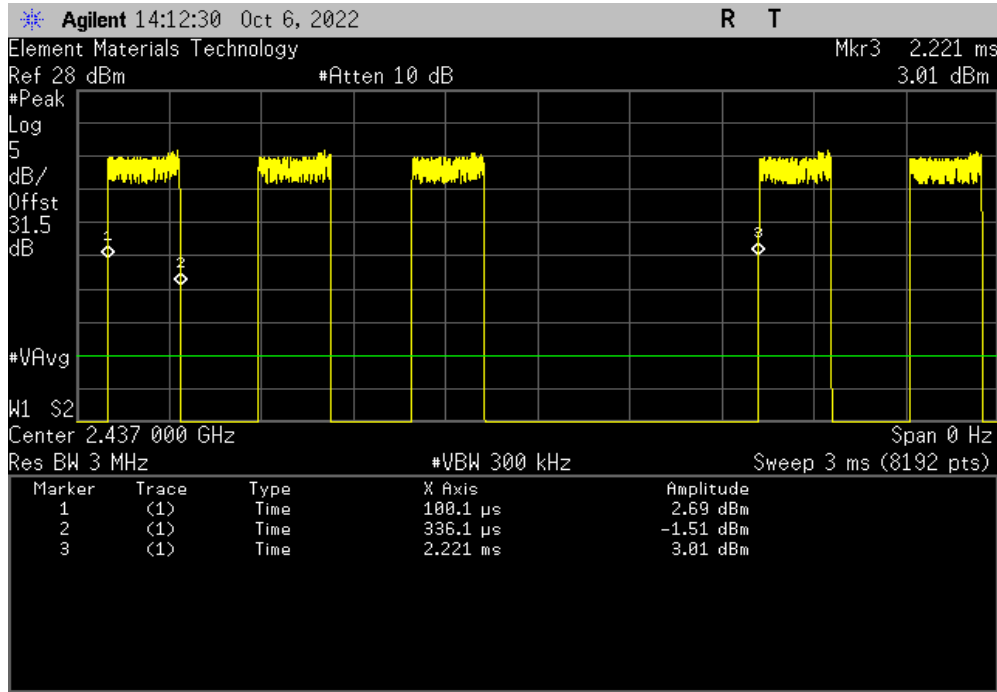


DUTY CYCLE - CHAIN 1

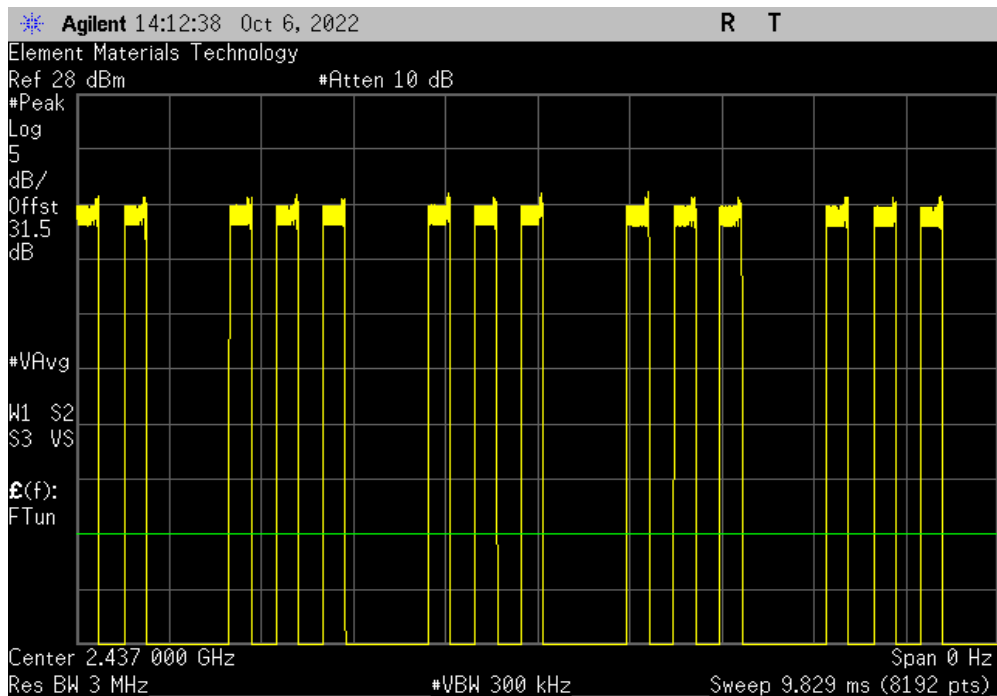


TuTx 2022.06.03.0 XMi 2022.02.07.0

| Chain 1, CCK, 11 Mbps, Mid Channel 6, 2437 MHz | | | | | | |
|--|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 236.011 us | 2.121 ms | 3 | 33.4 | N/A | N/A | |



| Chain 1, CCK, 11 Mbps, Mid Channel 6, 2437 MHz | | | | | | |
|--|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 14 | N/A | N/A | N/A | |

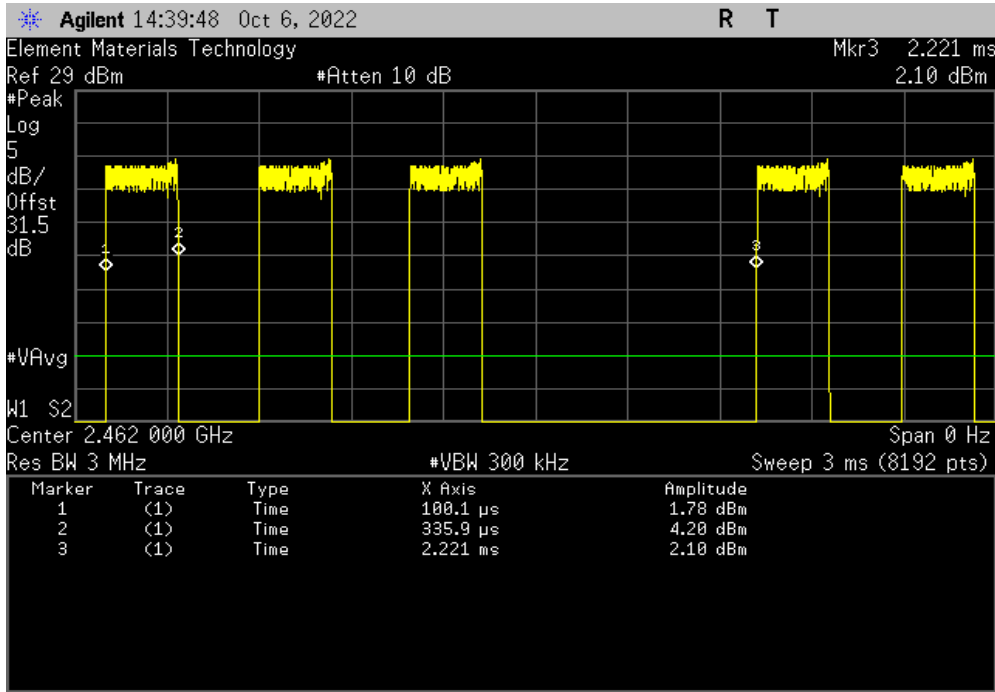


DUTY CYCLE - CHAIN 1

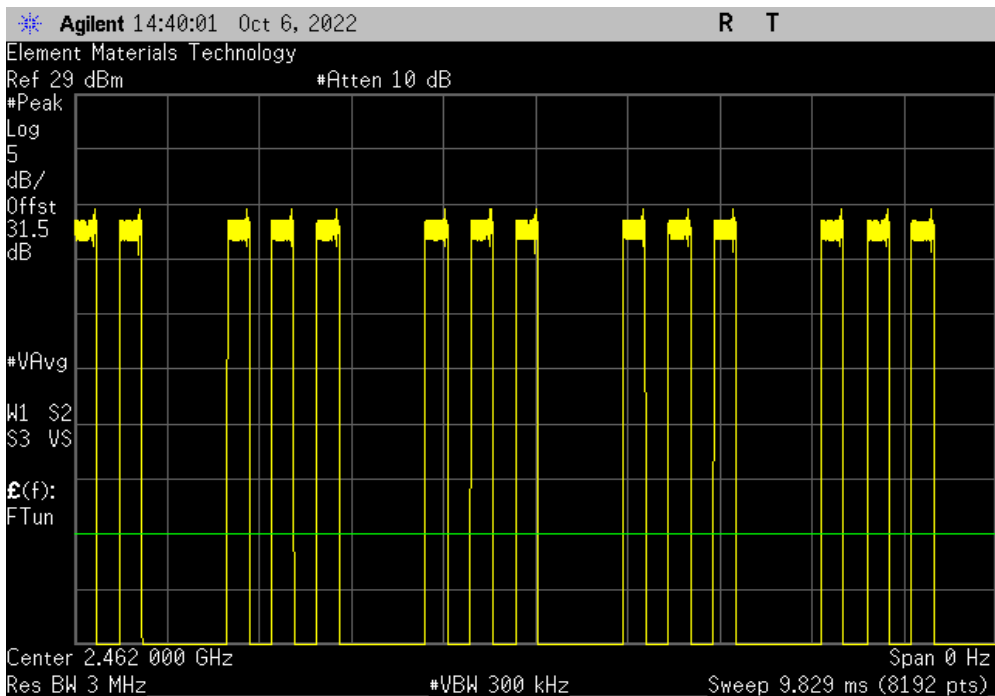


TuTx 2022.06.03.0 XMI 2022.02.07.0

| Chain 1, CCK, 11 Mbps, High Channel 11, 2462 MHz | | | | | | |
|--|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 235.795 us | 2.121 ms | 3 | 33.4 | N/A | N/A | |



| Chain 1, CCK, 11 Mbps, High Channel 11, 2462 MHz | | | | | | |
|--|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 14 | N/A | N/A | N/A | |

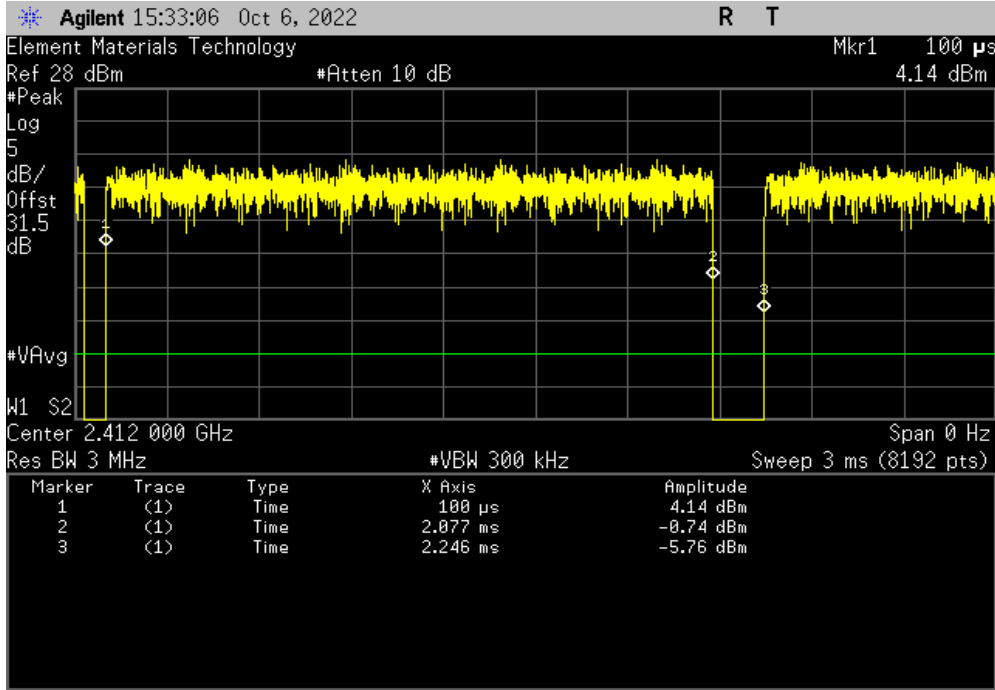


DUTY CYCLE - CHAIN 1

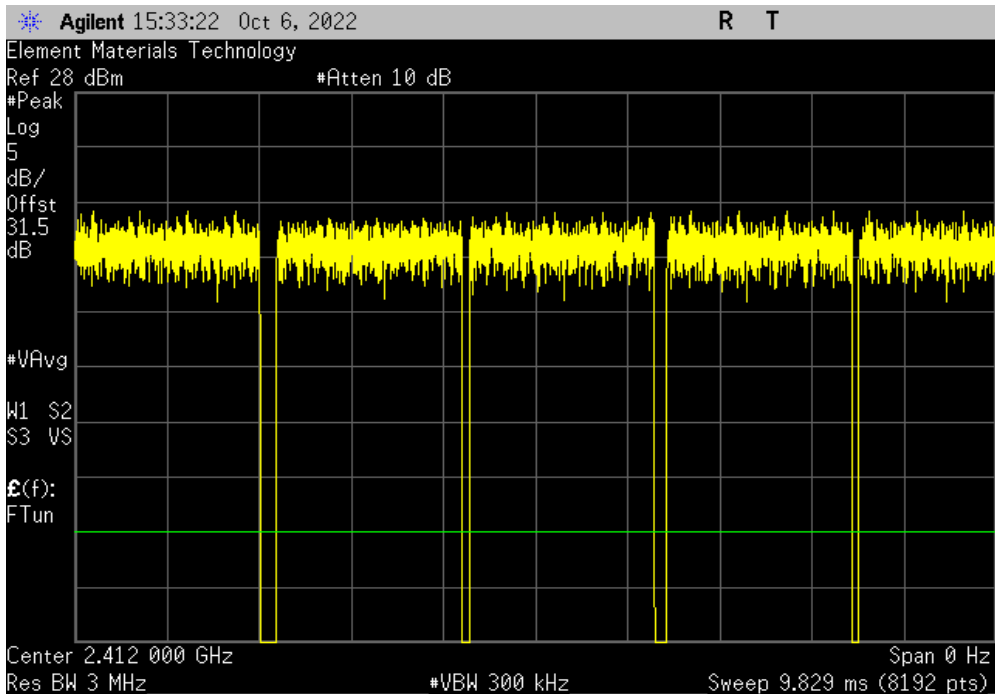


TuTx 2022.06.03.0 XMt 2022.02.07.0

| Chain 1, Legacy OFDM, 6 Mbps, Low Channel 1, 2412 MHz | | | | | | |
|---|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 1.977 ms | 2.146 ms | 1 | 92.1 | N/A | N/A | |



| Chain 1, Legacy OFDM, 6 Mbps, Low Channel 1, 2412 MHz | | | | | | |
|---|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |

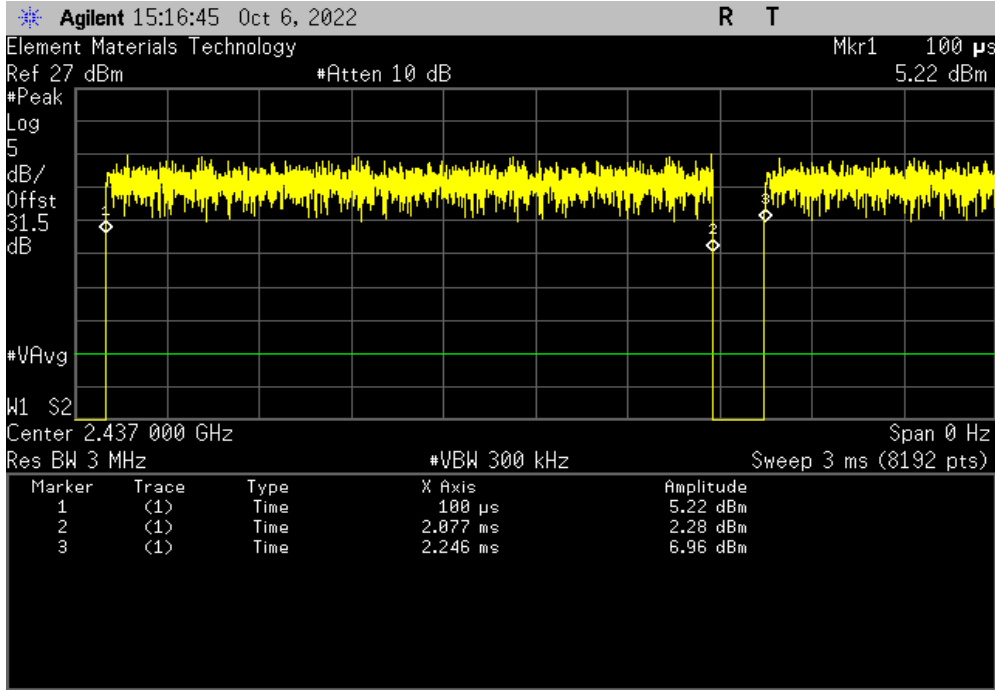


DUTY CYCLE - CHAIN 1

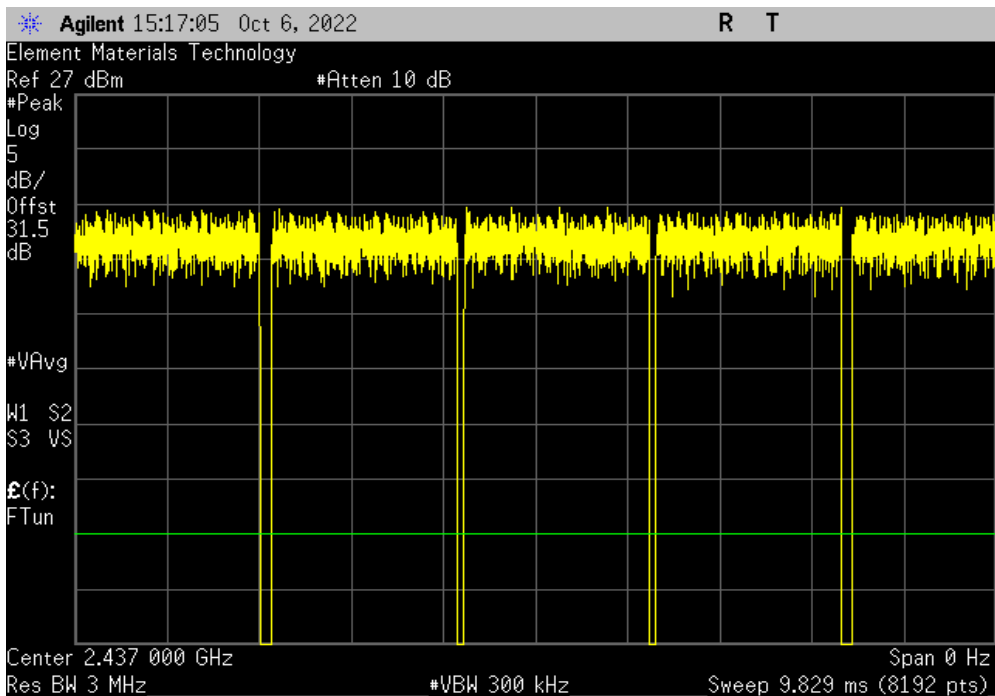


TuTx 2022.06.03.0 XMt 2022.02.07.0

| Chain 1, Legacy OFDM, 6 Mbps, Mid Channel 6, 2437 MHz | | | | | | |
|---|-------------|----------|------------------|-----------|-----------|---------|
| | Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results |
| | 1.977 ms | 2.146 ms | 1 | 92.1 | N/A | N/A |



| Chain 1, Legacy OFDM, 6 Mbps, Mid Channel 6, 2437 MHz | | | | | | |
|---|-------------|--------|------------------|-----------|-----------|---------|
| | Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results |
| | N/A | N/A | 5 | N/A | N/A | N/A |

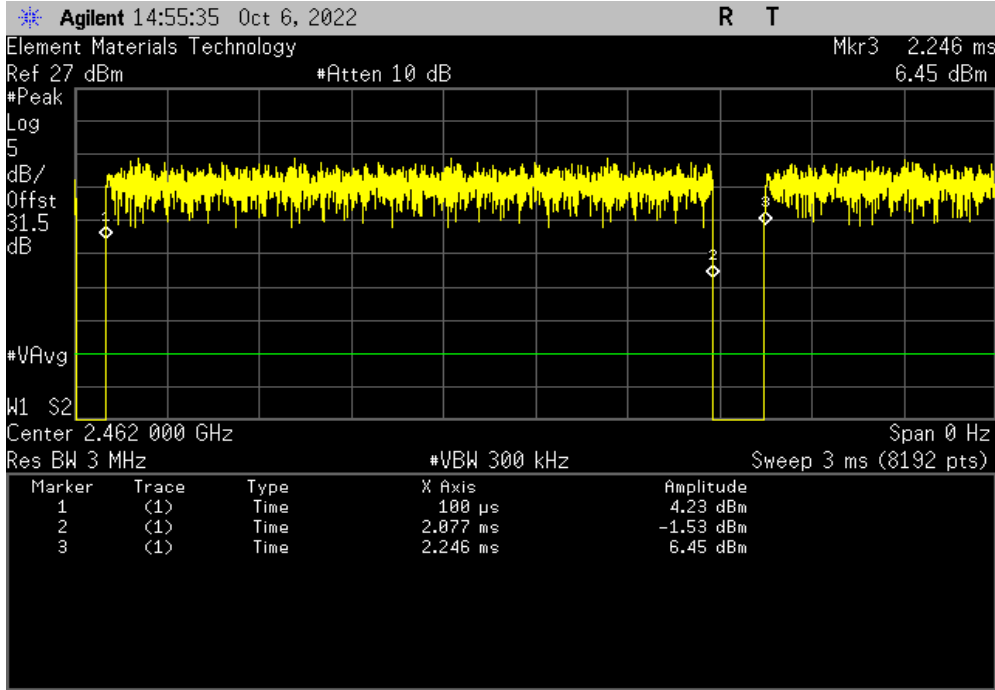


DUTY CYCLE - CHAIN 1

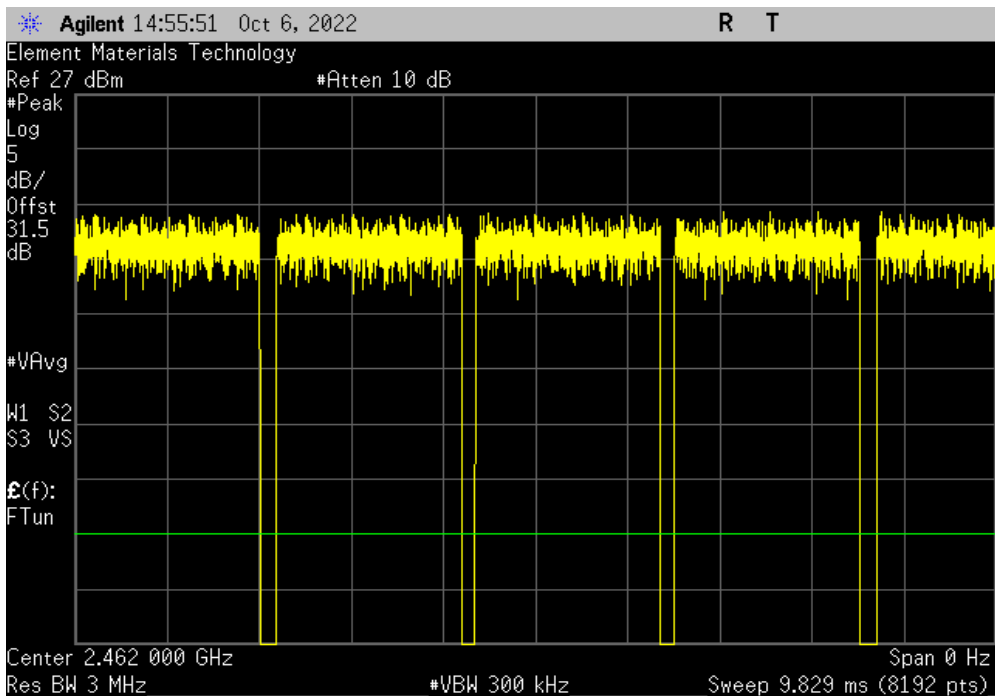


TuTx 2022.06.03.0 XMt 2022.02.07.0

| Chain 1, Legacy OFDM, 6 Mbps, High Channel 11, 2462 MHz | | | | | | |
|---|-------------|----------|------------------|-----------|-----------|---------|
| | Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results |
| | 1.977 ms | 2.146 ms | 1 | 92.1 | N/A | N/A |



| Chain 1, Legacy OFDM, 6 Mbps, High Channel 11, 2462 MHz | | | | | | |
|---|-------------|--------|------------------|-----------|-----------|---------|
| | Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results |
| | N/A | N/A | 5 | N/A | N/A | N/A |

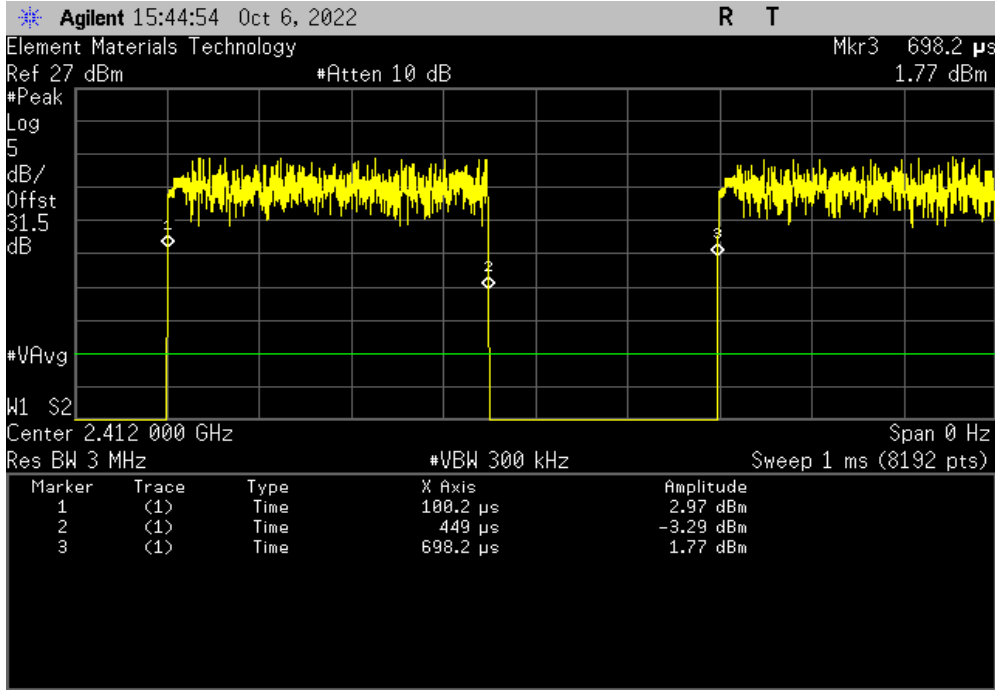


DUTY CYCLE - CHAIN 1

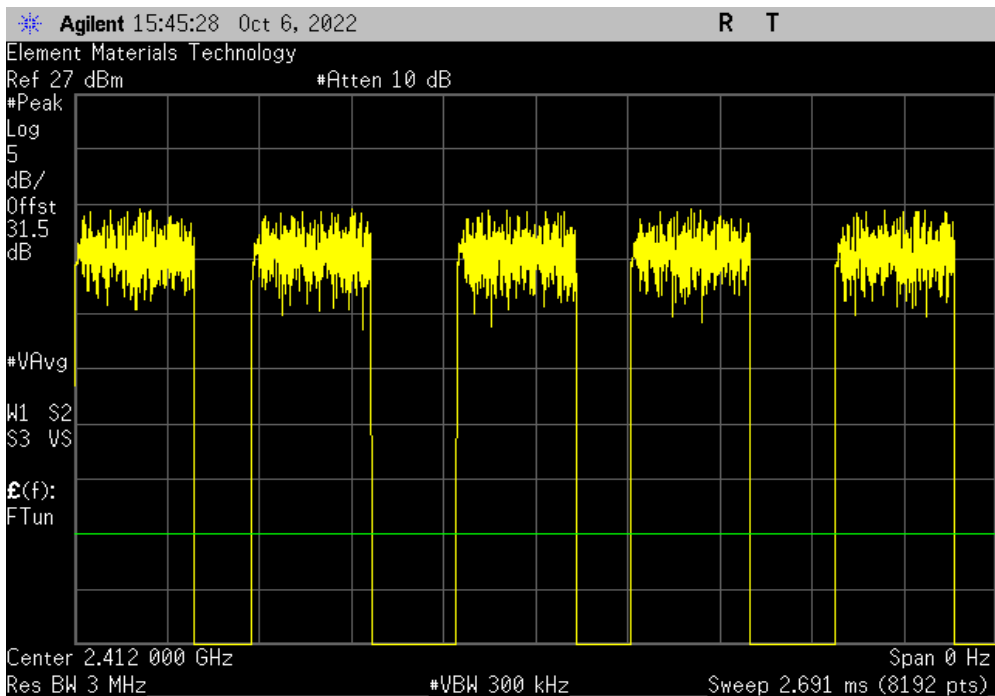


TuTx 2022.06.03.0 XMt 2022.02.07.0

| Chain 1, Legacy OFDM, 36 Mbps, Low Channel 1, 2412 MHz | | | | | | |
|--|------------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 348.8 us | 598.019 us | 1 | 58.3 | N/A | N/A | |



| Chain 1, Legacy OFDM, 36 Mbps, Low Channel 1, 2412 MHz | | | | | | |
|--|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |

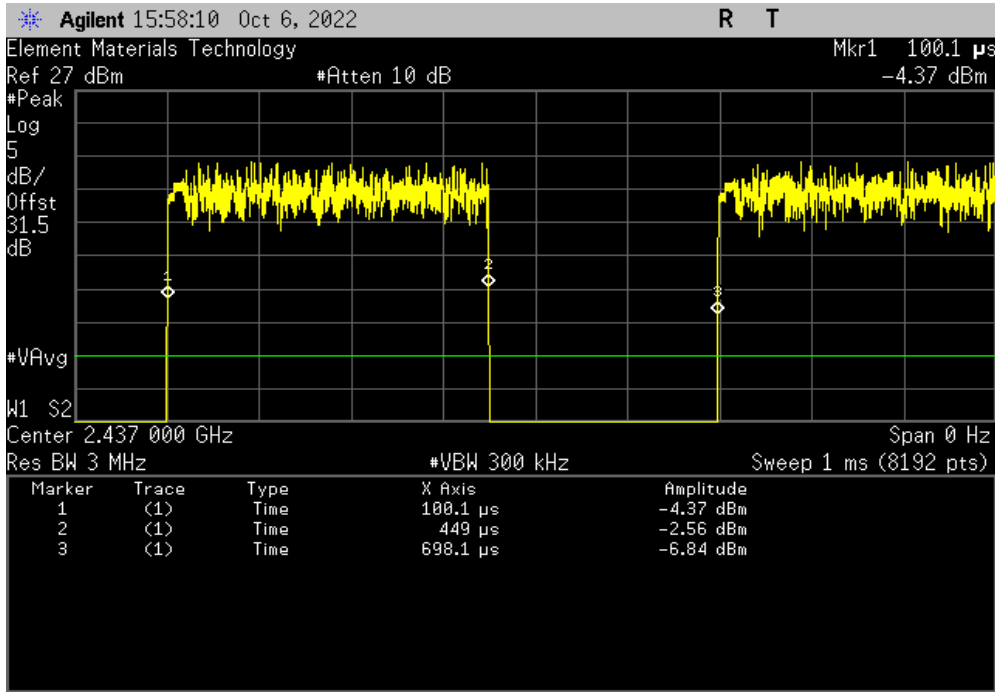


DUTY CYCLE - CHAIN 1

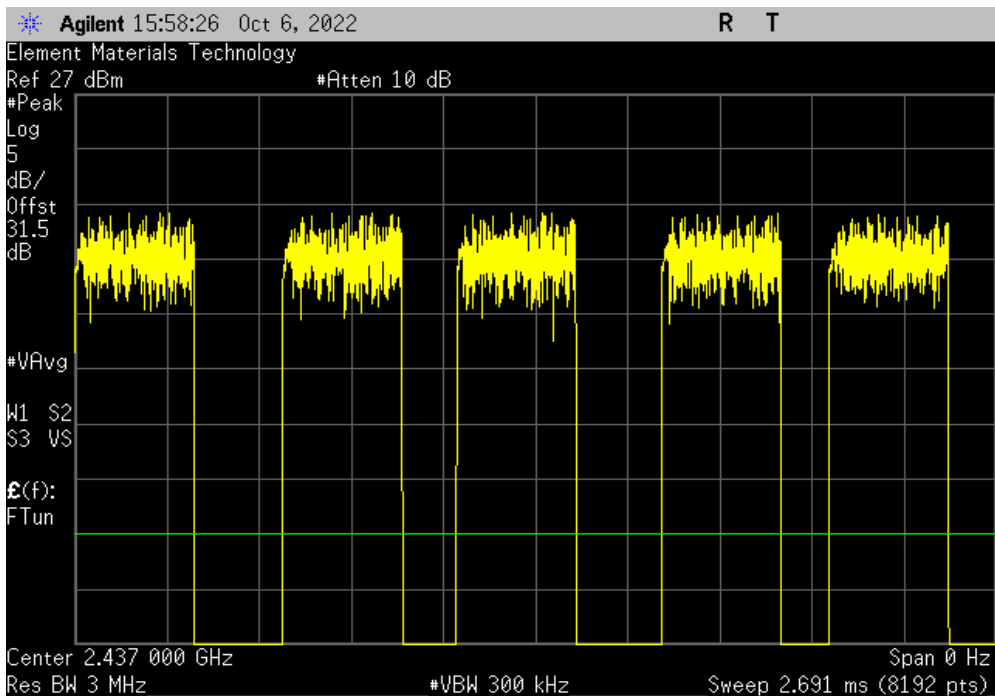


TbTx 2022.06.03.0 XMI 2022.02.07.0

| Chain 1, Legacy OFDM, 36 Mbps, Mid Channel 6, 2437 MHz | | | | | | |
|--|------------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 348.944 us | 597.958 us | 1 | 58.4 | N/A | N/A | |



| Chain 1, Legacy OFDM, 36 Mbps, Mid Channel 6, 2437 MHz | | | | | | |
|--|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |

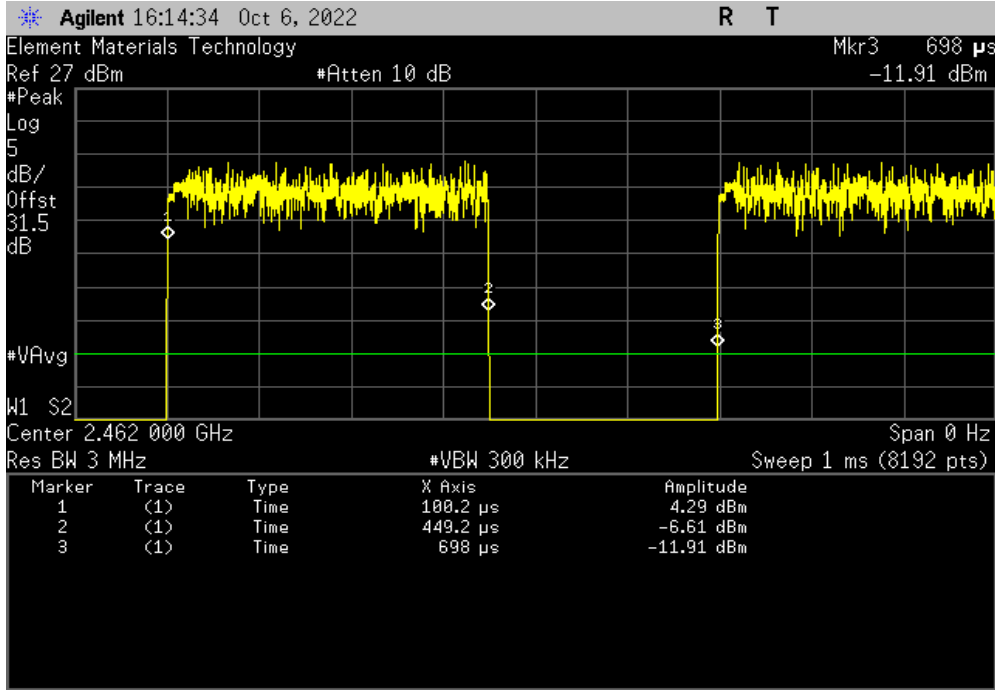


DUTY CYCLE - CHAIN 1

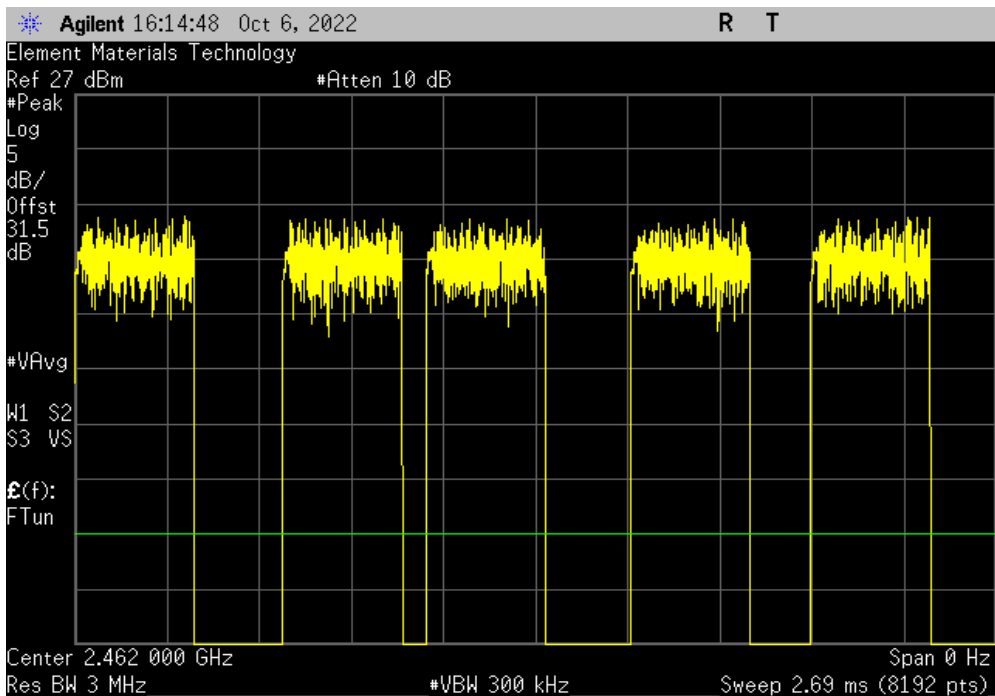


TuTx 2022.06.03.0 XMt 2022.02.07.0

| Chain 1, Legacy OFDM, 36 Mbps, High Channel 11, 2462 MHz | | | | | | |
|--|-------------|------------|------------------|-----------|-----------|---------|
| | Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results |
| | 349 us | 597.797 us | 1 | 58.4 | N/A | N/A |



| Chain 1, Legacy OFDM, 36 Mbps, High Channel 11, 2462 MHz | | | | | | |
|--|-------------|--------|------------------|-----------|-----------|---------|
| | Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results |
| | N/A | N/A | 5 | N/A | N/A | N/A |

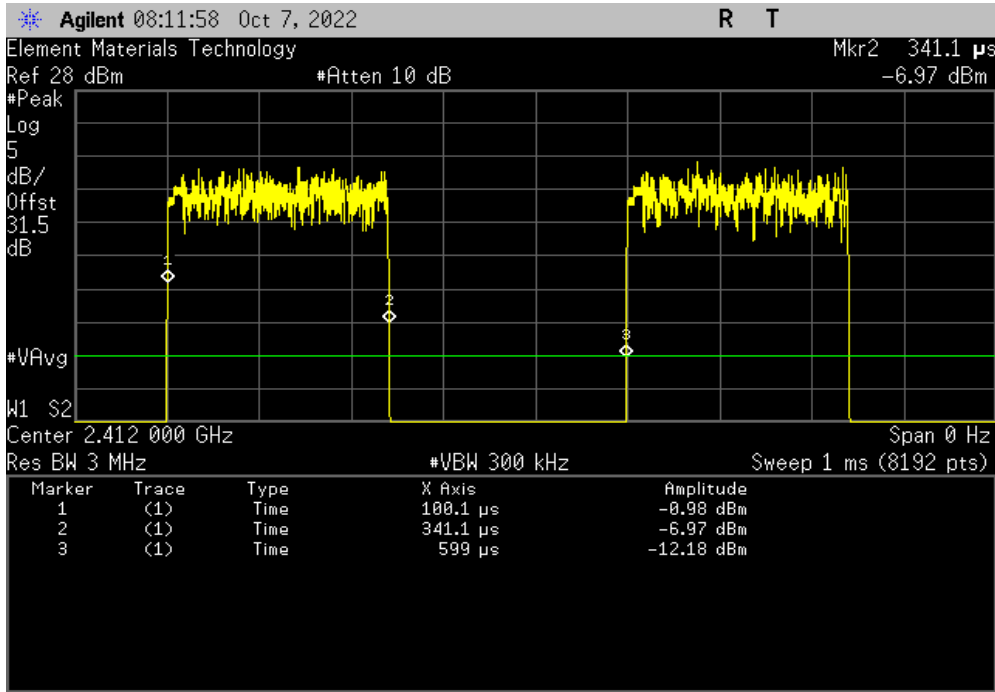


DUTY CYCLE - CHAIN 1

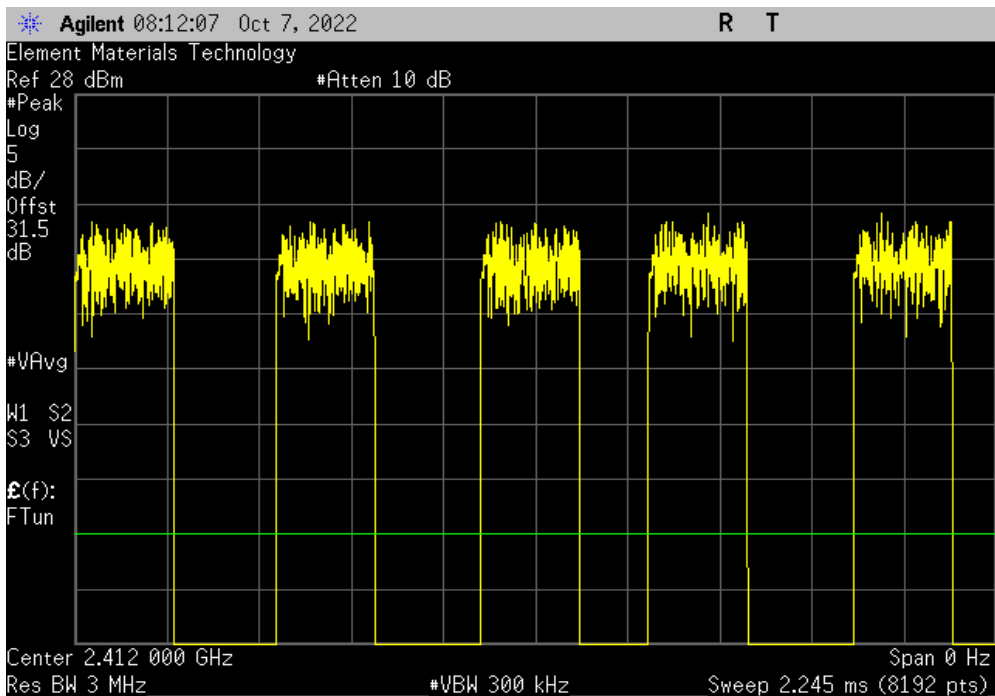


TuTx 2022.06.03.0 XMt 2022.02.07.0

| Chain 1, Legacy OFDM, 54 Mbps, Low Channel 1, 2412 MHz | | | | | | |
|--|-----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 240.966 us | 498.89 us | 1 | 48.3 | N/A | N/A | |



| Chain 1, Legacy OFDM, 54 Mbps, Low Channel 1, 2412 MHz | | | | | | |
|--|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |

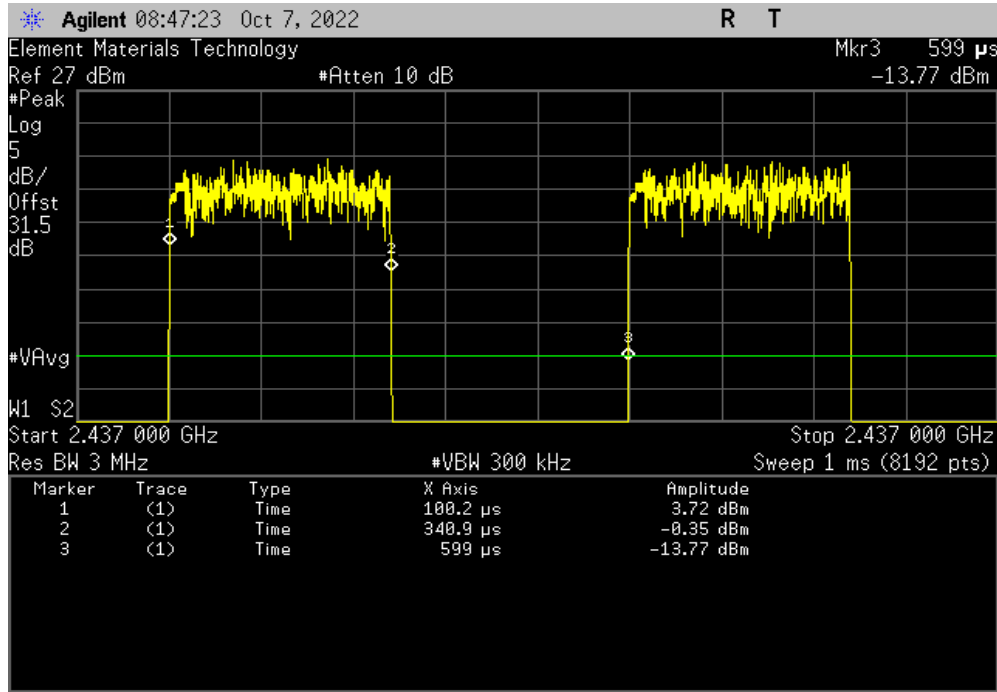


DUTY CYCLE - CHAIN 1

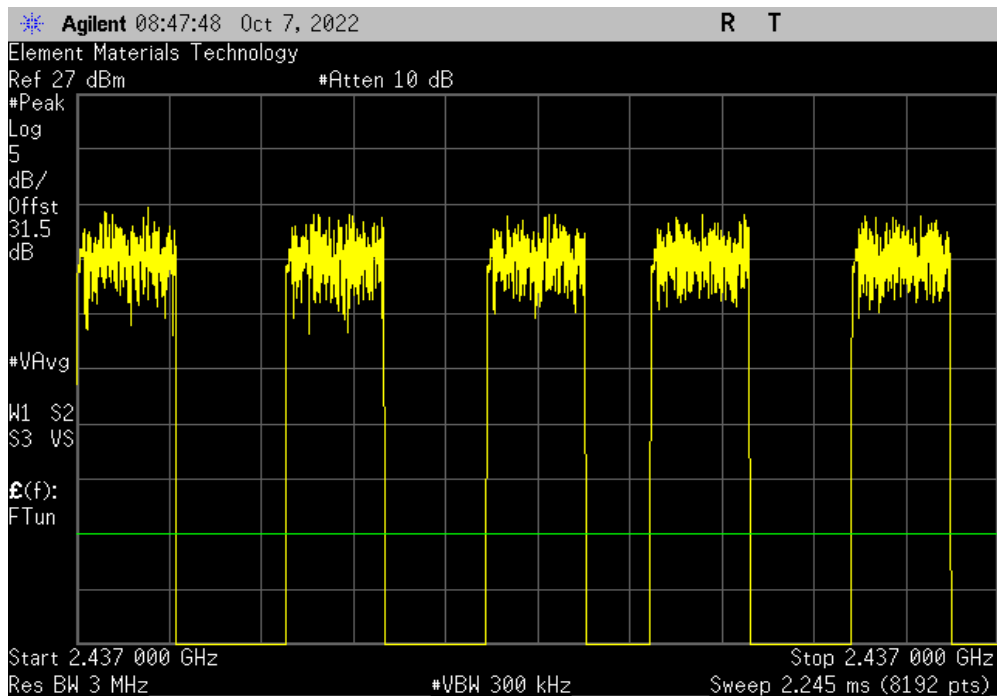


TuTx 2022.06.03.0 XMt 2022.02.07.0

| Chain 1, Legacy OFDM, 54 Mbps, Mid Channel 6, 2437 MHz | | | | | | |
|--|------------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 240.7 us | 498.794 us | 1 | 48.3 | N/A | N/A | |



| Chain 1, Legacy OFDM, 54 Mbps, Mid Channel 6, 2437 MHz | | | | | | |
|--|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |

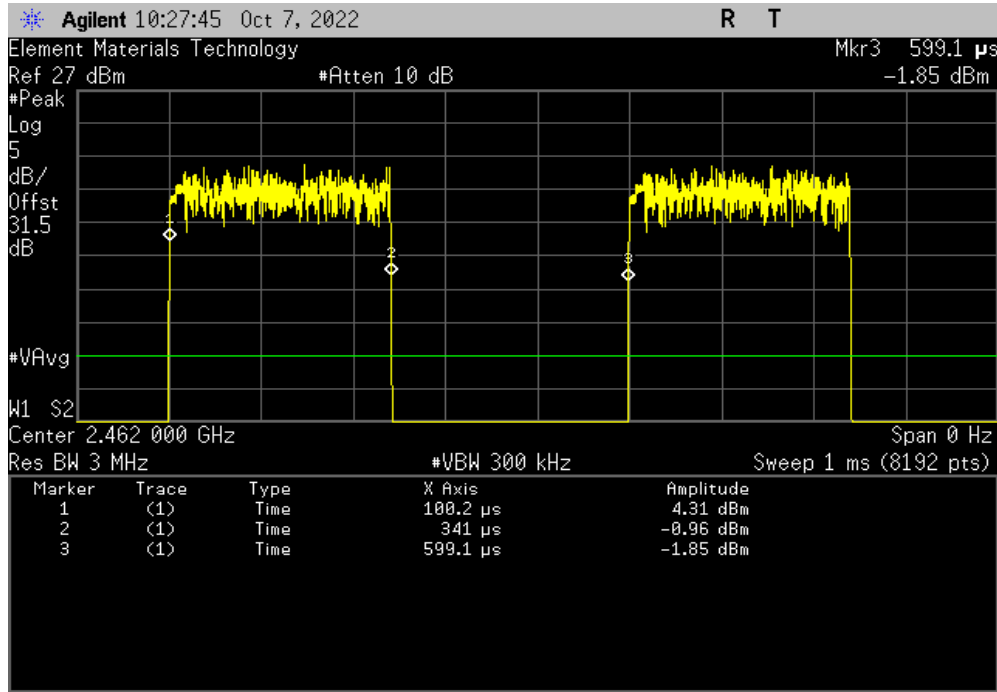


DUTY CYCLE - CHAIN 1

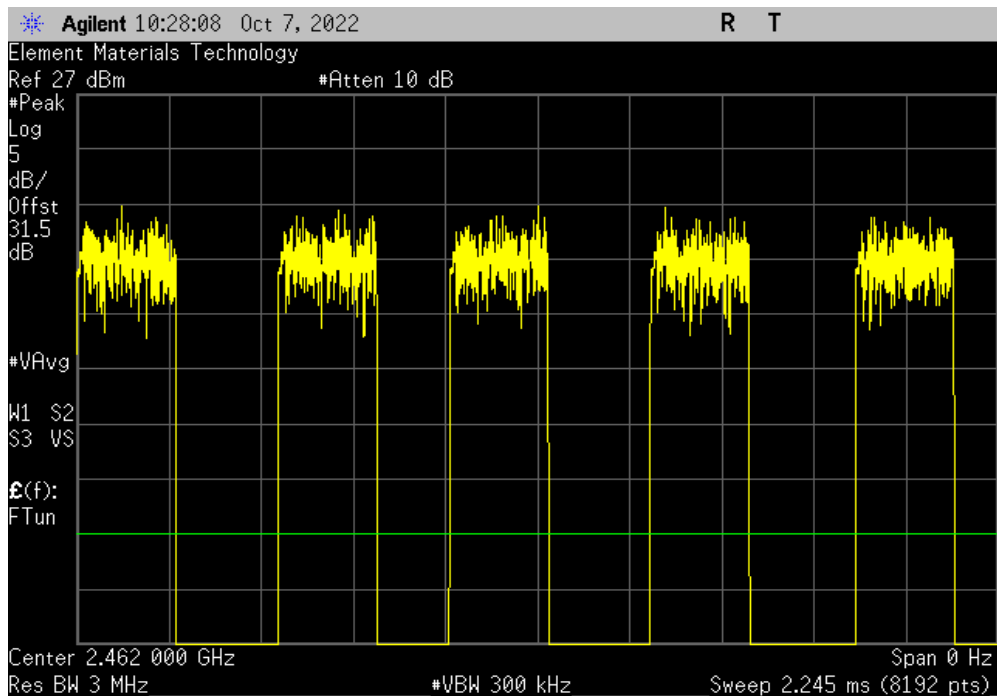


TbTx 2022.06.03.0 XMI 2022.02.07.0

| Chain 1, Legacy OFDM, 54 Mbps, High Channel 11, 2462 MHz | | | | | | |
|--|------------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 240.8 us | 498.912 us | 1 | 48.3 | N/A | N/A | |



| Chain 1, Legacy OFDM, 54 Mbps, High Channel 11, 2462 MHz | | | | | | |
|--|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |

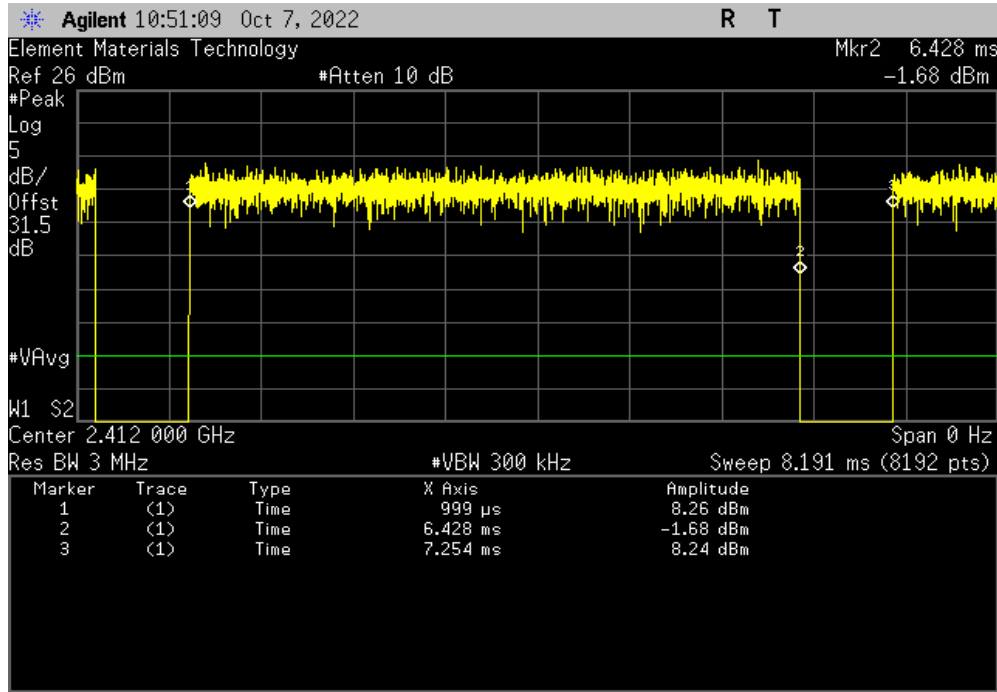


DUTY CYCLE - CHAIN 1

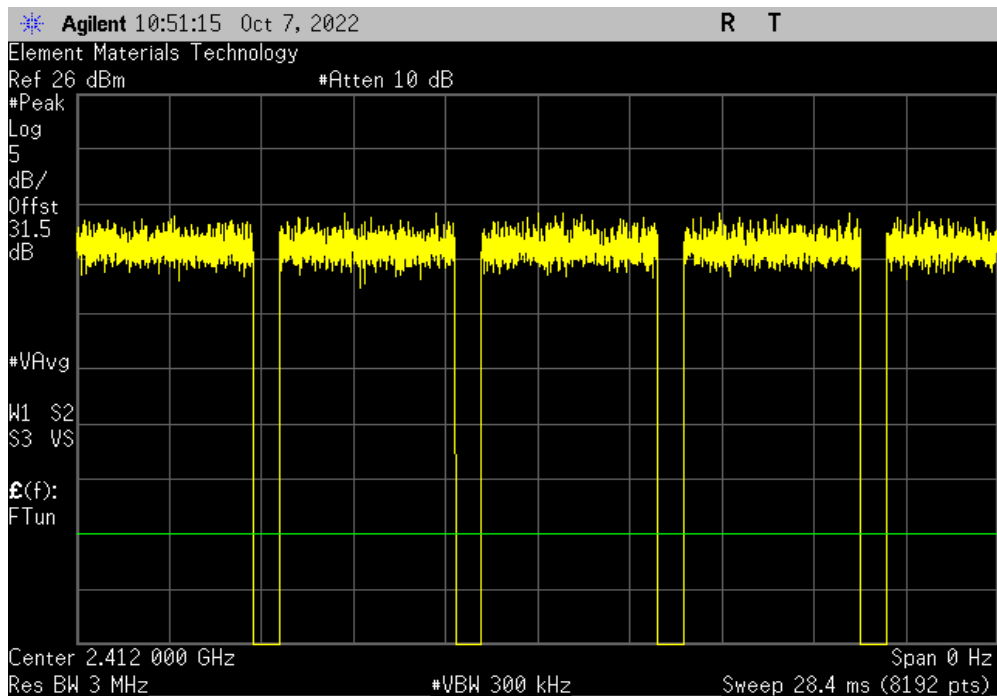


TuTx 2022.06.03.0 XMi 2022.02.07.0

| Chain 1, HT20, MCS0, Low Channel 1, 2412 MHz | | | | | | |
|--|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 5.429 ms | 6.255 ms | 1 | 86.8 | N/A | N/A | |



| Chain 1, HT20, MCS0, Low Channel 1, 2412 MHz | | | | | | |
|--|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |

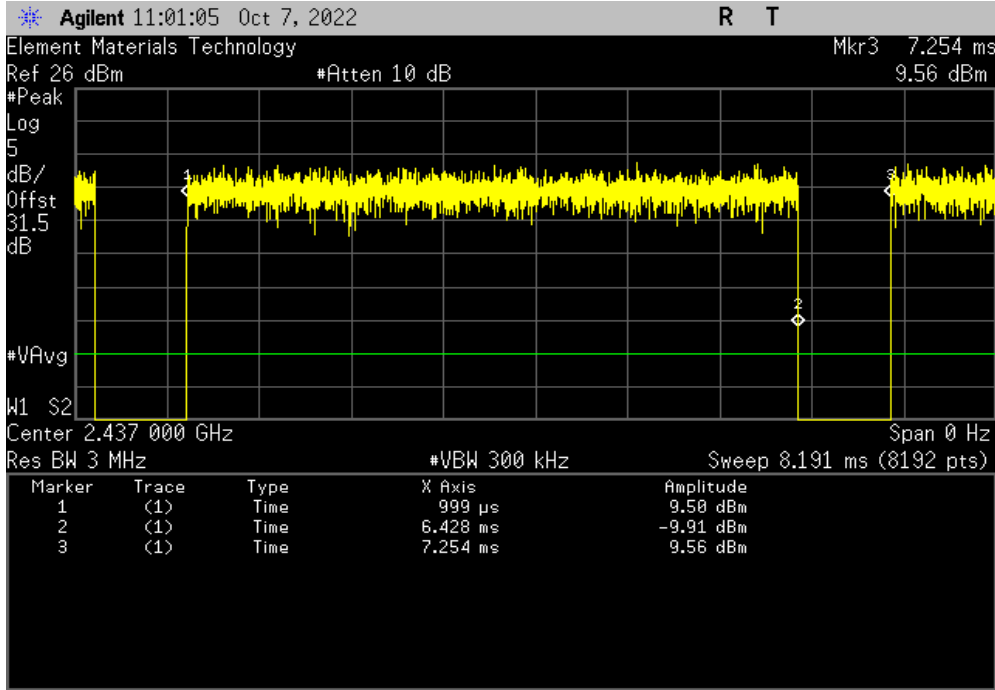


DUTY CYCLE - CHAIN 1

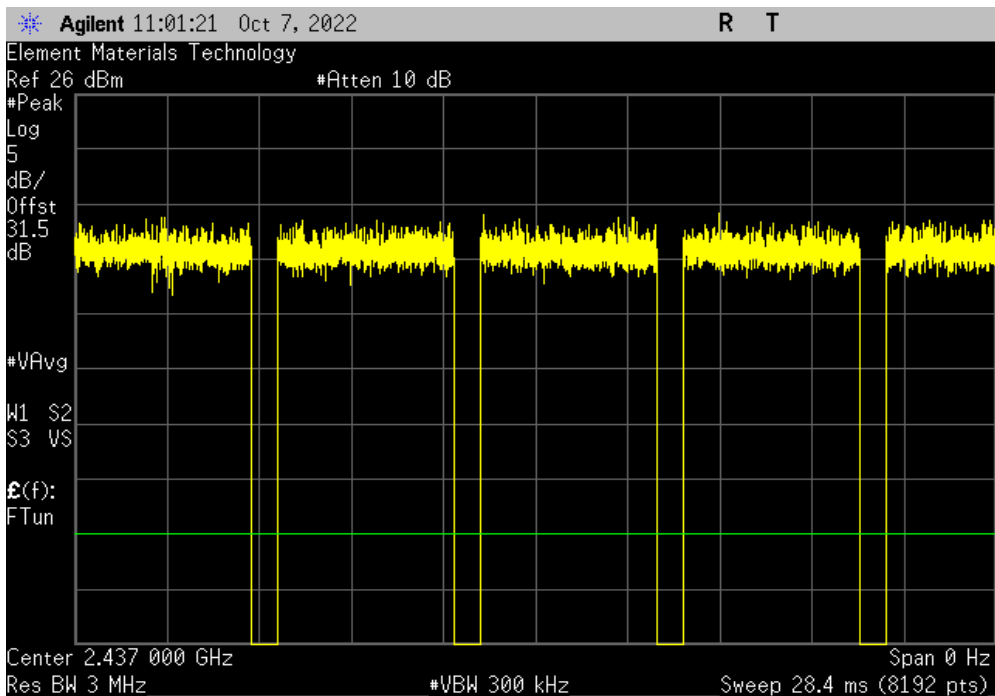


TuTx 2022.06.03.0 XMi 2022.02.07.0

| Chain 1, HT20, MCS0, Mid Channel 6, 2437 MHz | | | | | | |
|--|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 5.429 ms | 6.255 ms | 1 | 86.8 | N/A | N/A | |



| Chain 1, HT20, MCS0, Mid Channel 6, 2437 MHz | | | | | | |
|--|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |

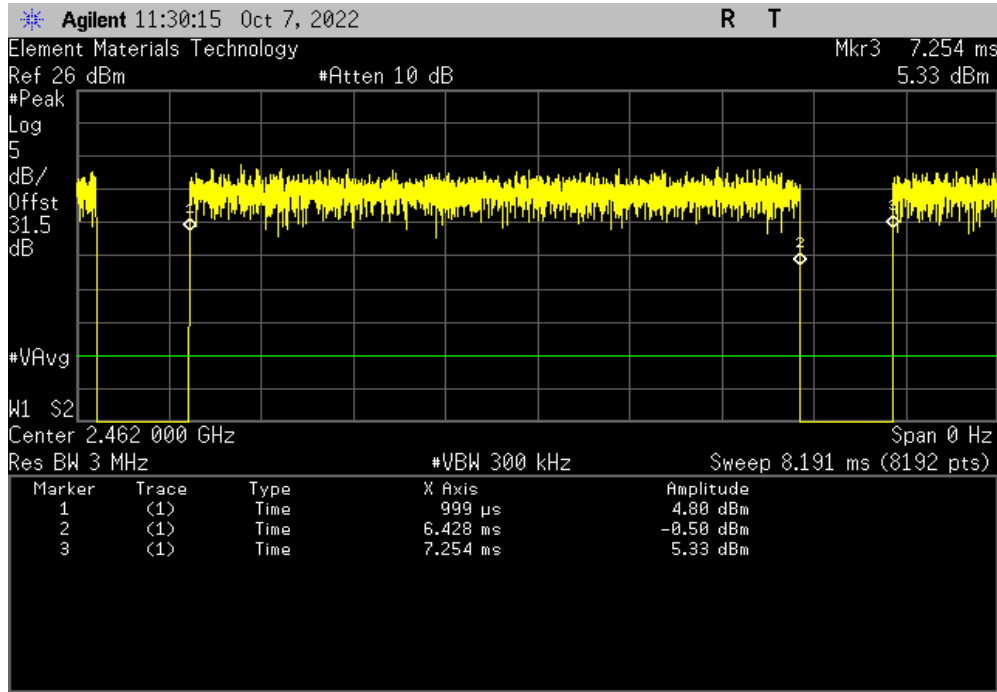


DUTY CYCLE - CHAIN 1

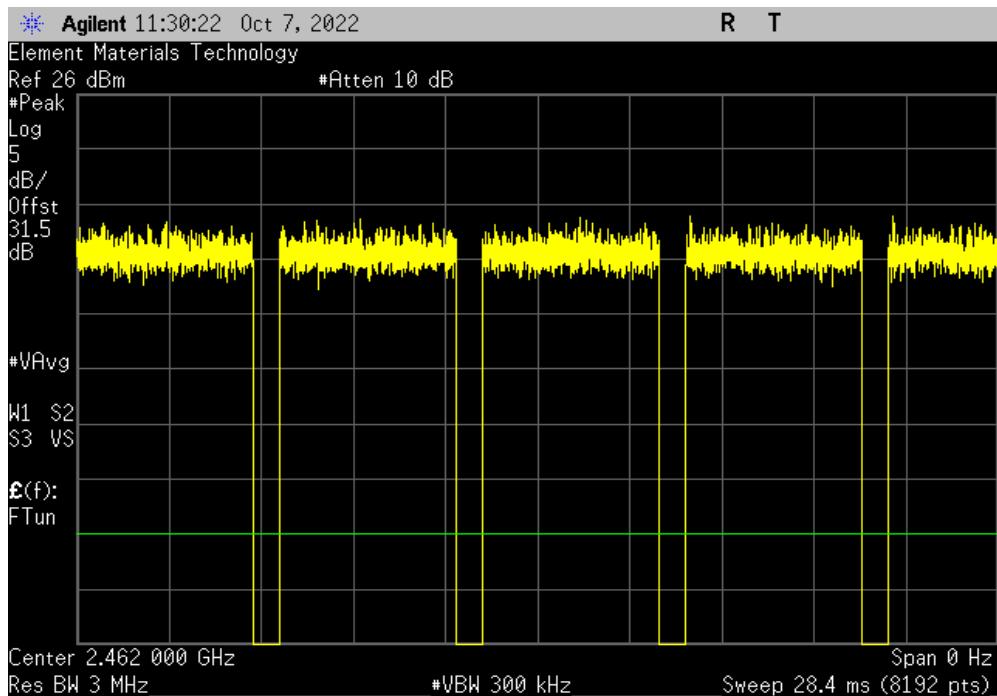


TuTx 2022.06.03.0 XMI 2022.02.07.0

| Chain 1, HT20, MCS0, High Channel 11, 2462 MHz | | | | | | |
|--|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 5.429 ms | 6.255 ms | 1 | 86.8 | N/A | N/A | |



| Chain 1, HT20, MCS0, High Channel 11, 2462 MHz | | | | | | |
|--|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |

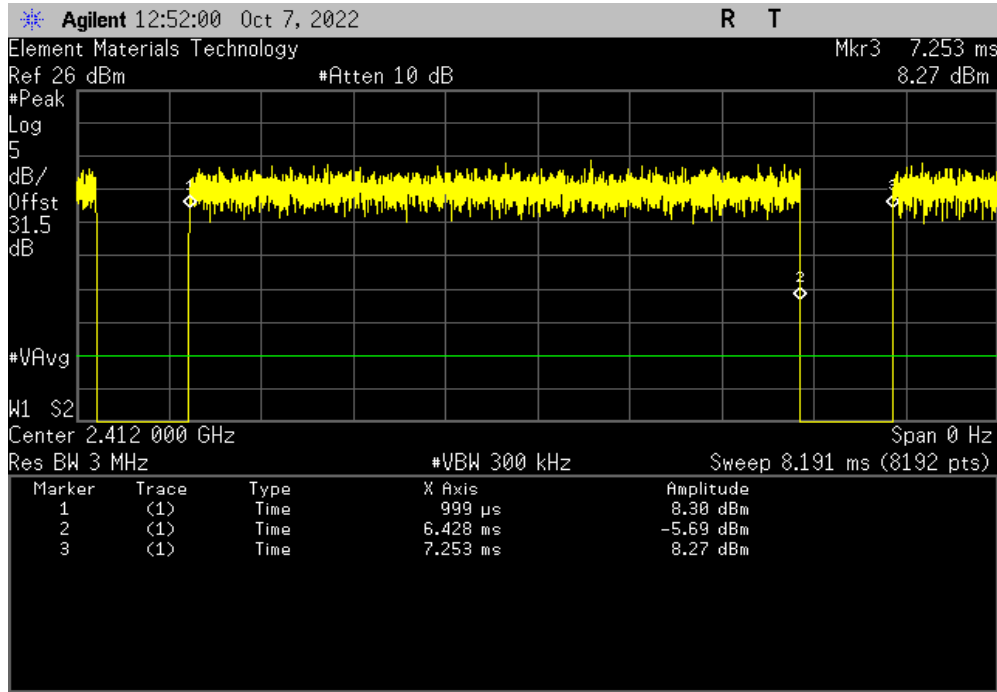


DUTY CYCLE - CHAIN 1

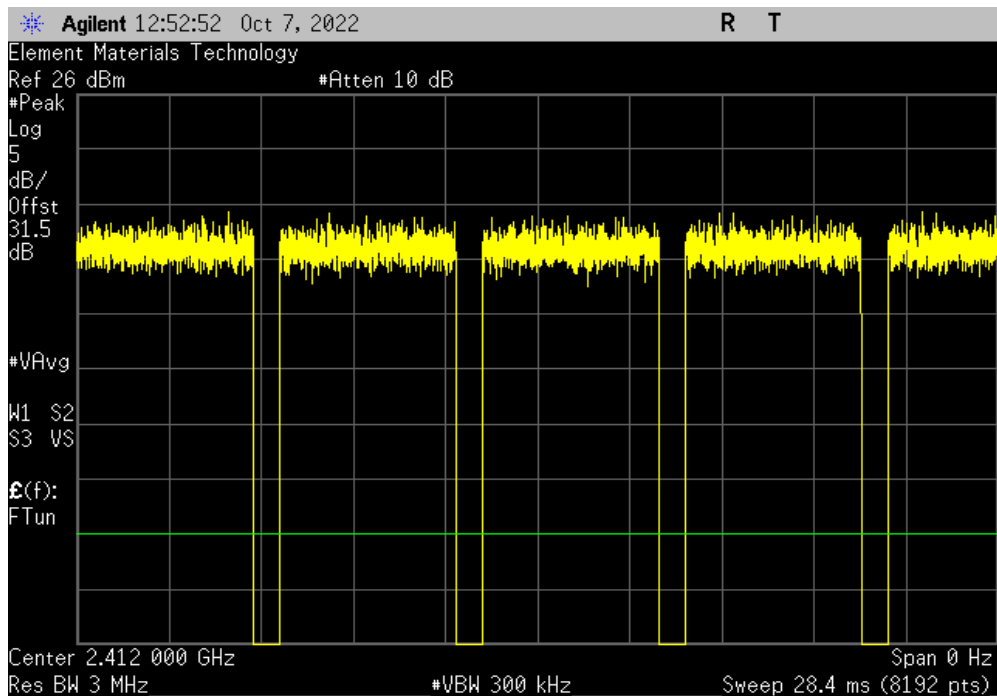


TuTx 2022.06.03.0 XMt 2022.02.07.0

| Chain 1, HT20, MCS7, Low Channel 1, 2412 MHz | | | | | | |
|--|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 5.429 ms | 6.254 ms | 1 | 86.8 | N/A | N/A | |



| Chain 1, HT20, MCS7, Low Channel 1, 2412 MHz | | | | | | |
|--|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |

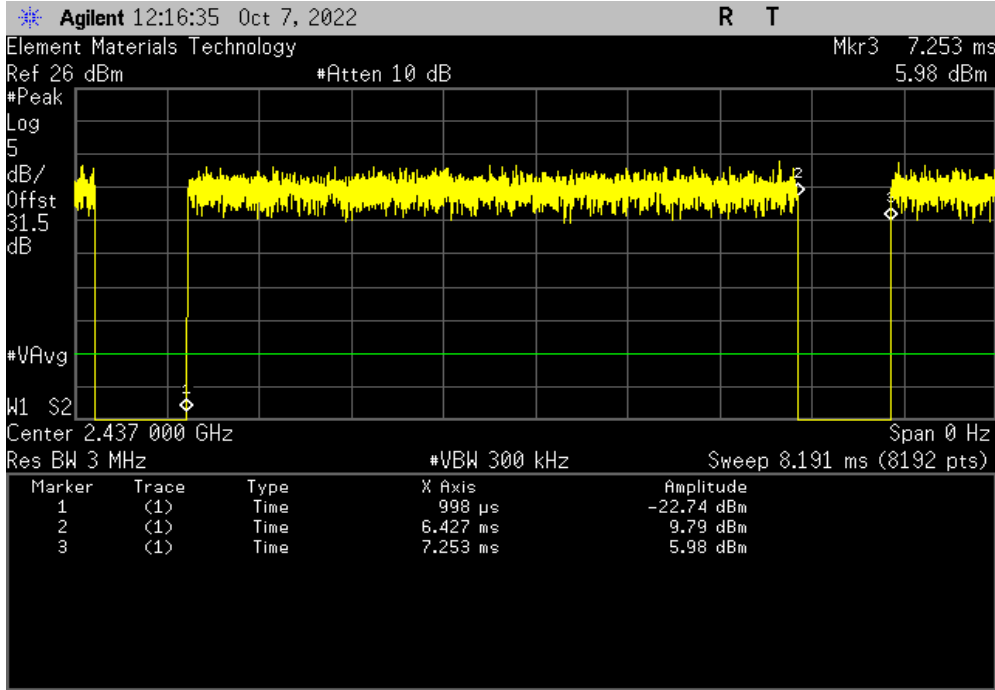


DUTY CYCLE - CHAIN 1

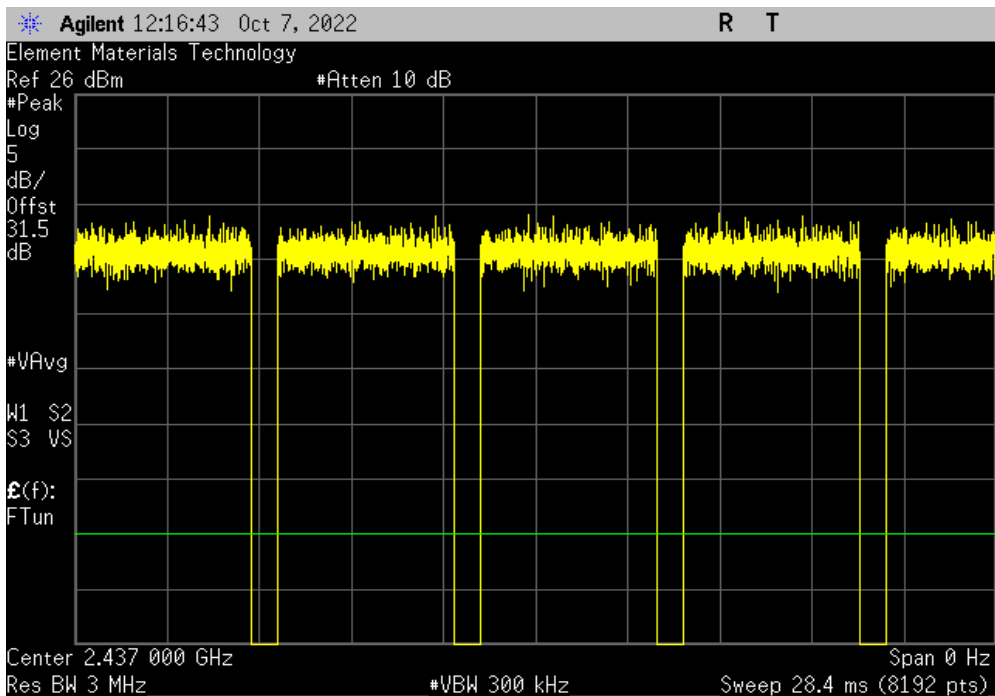


TuTx 2022.06.03.0 XMi 2022.02.07.0

| Chain 1, HT20, MCS7, Mid Channel 6, 2437 MHz | | | | | | |
|--|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 5.429 ms | 6.255 ms | 1 | 86.8 | N/A | N/A | |



| Chain 1, HT20, MCS7, Mid Channel 6, 2437 MHz | | | | | | |
|--|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |

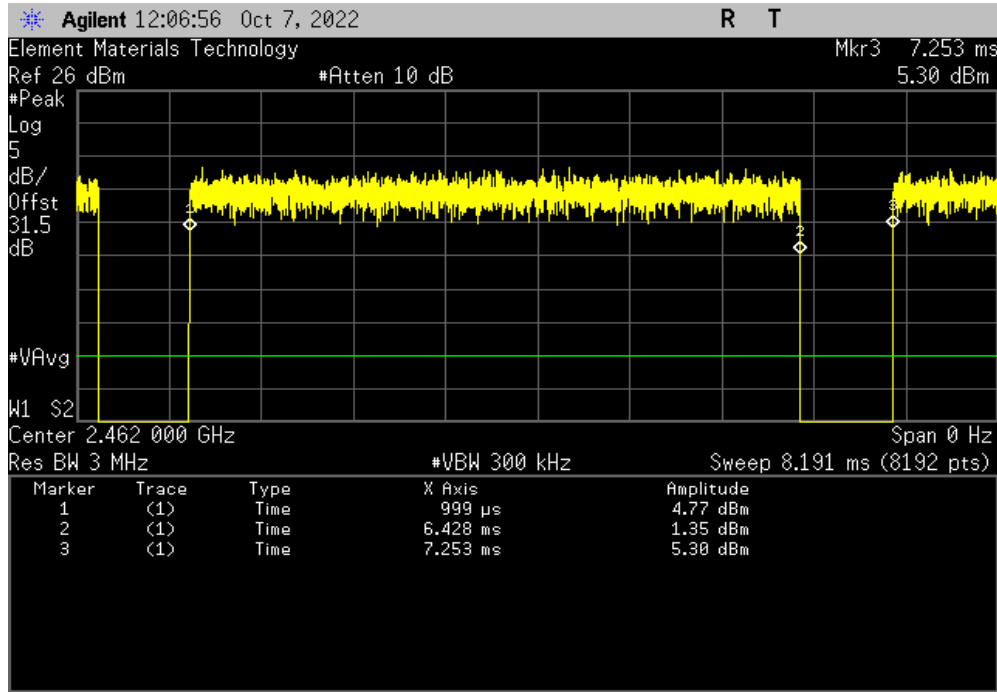


DUTY CYCLE - CHAIN 1

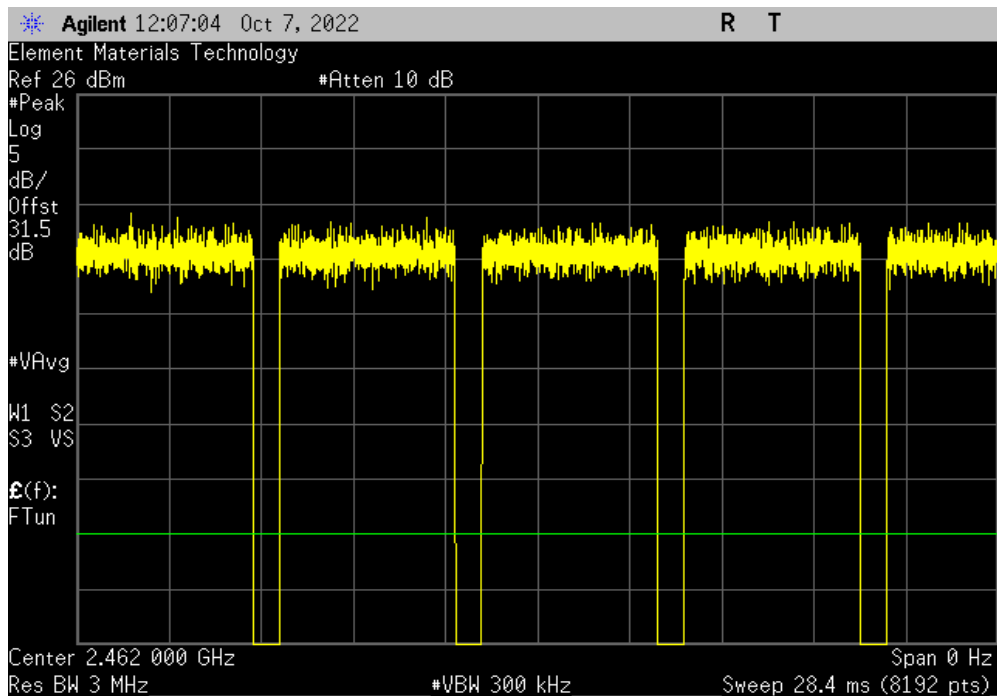


TuTx 2022.06.03.0 XMt 2022.02.07.0

| Chain 1, HT20, MCS7, High Channel 11, 2462 MHz | | | | | | |
|--|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 5.429 ms | 6.254 ms | 1 | 86.8 | N/A | N/A | |



| Chain 1, HT20, MCS7, High Channel 11, 2462 MHz | | | | | | |
|--|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |

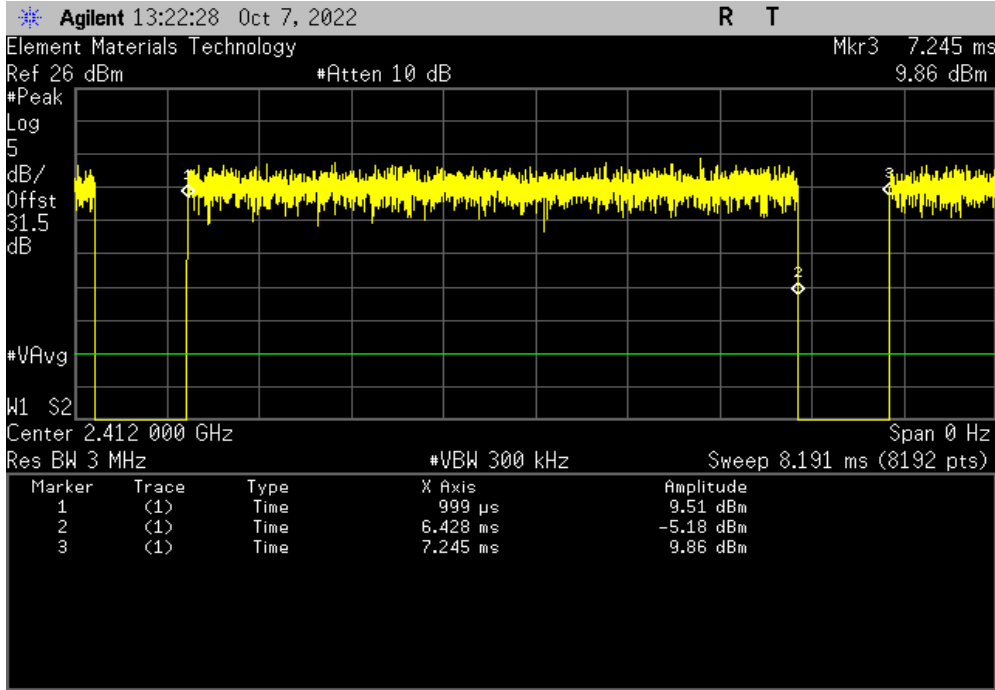


DUTY CYCLE - CHAIN 1

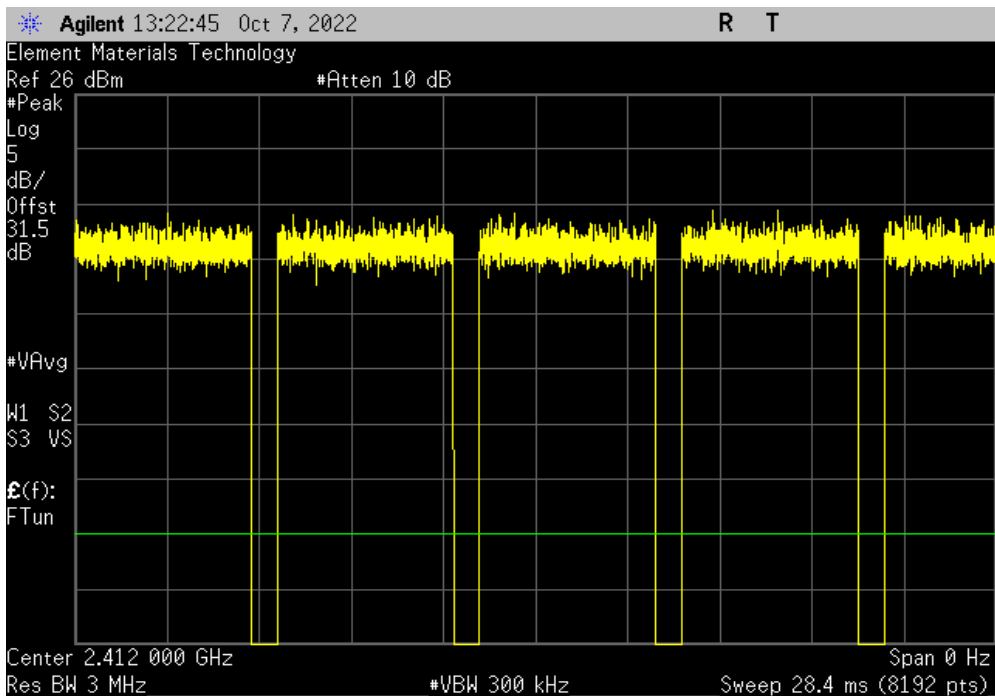


TuTx 2022.06.03.0 XMI 2022.02.07.0

| Chain 1, VHT20, MCS0, Low Channel 1, 2412 MHz | | | | | | |
|---|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 5.429 ms | 6.246 ms | 1 | 86.9 | N/A | N/A | |



| Chain 1, VHT20, MCS0, Low Channel 1, 2412 MHz | | | | | | |
|---|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |

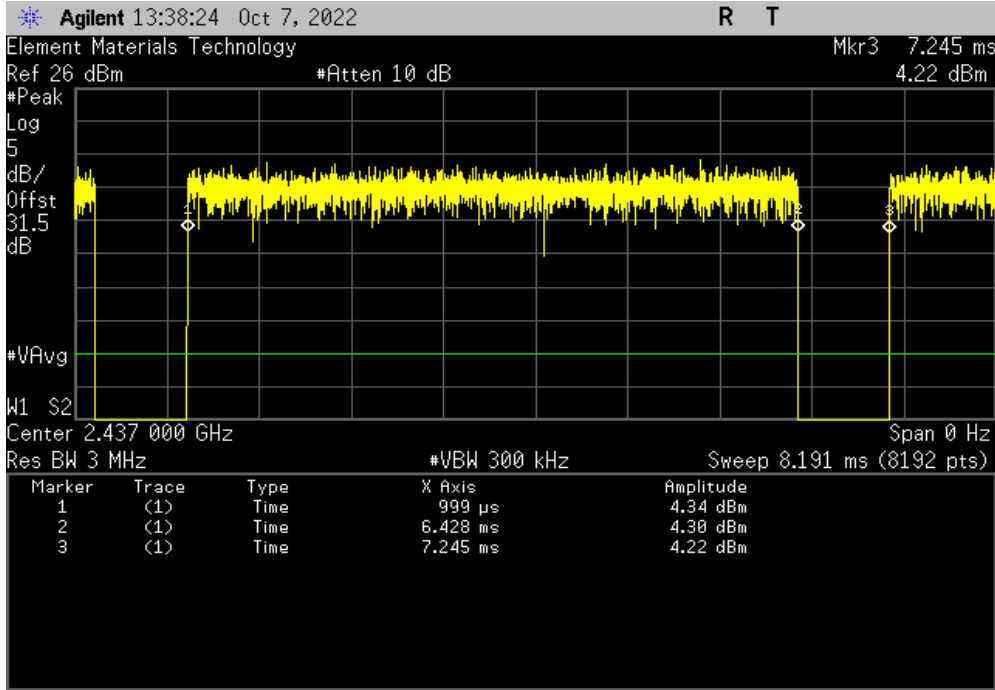


DUTY CYCLE - CHAIN 1

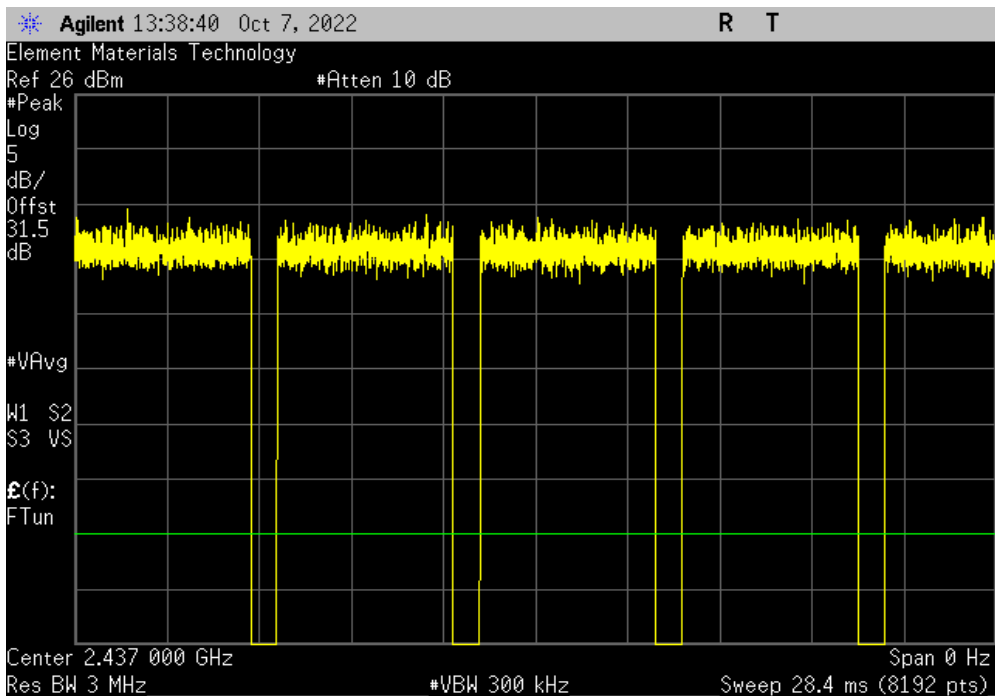


TuTx 2022.06.03.0 XMt 2022.02.07.0

| Chain 1, VHT20, MCS0, Mid Channel 6, 2437 MHz | | | | | | |
|---|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 5.429 ms | 6.246 ms | 1 | 86.9 | N/A | N/A | |



| Chain 1, VHT20, MCS0, Mid Channel 6, 2437 MHz | | | | | | |
|---|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |

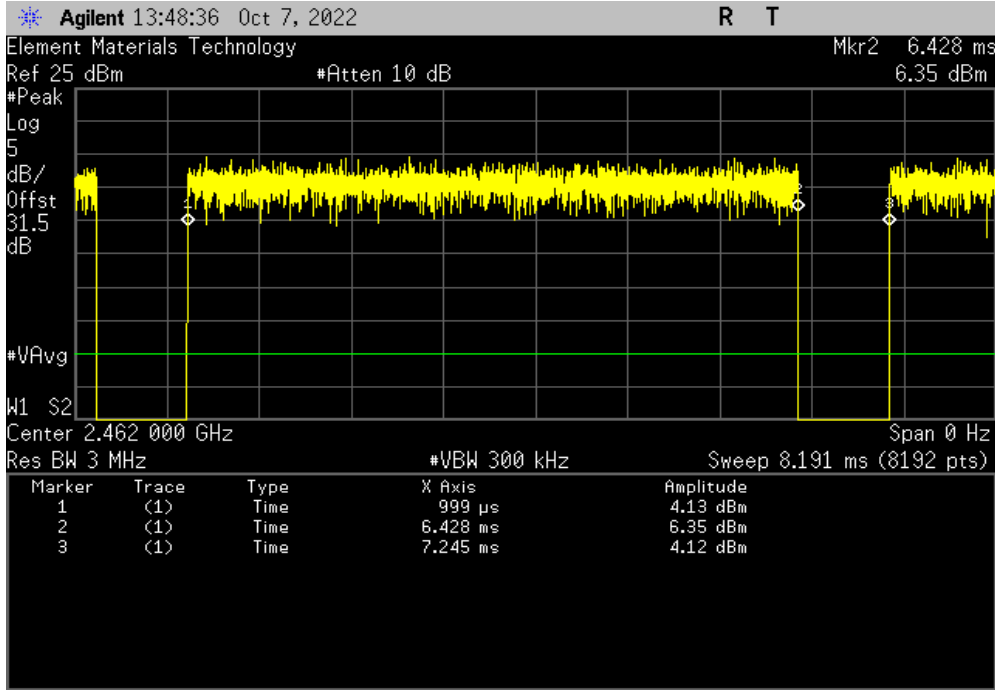


DUTY CYCLE - CHAIN 1

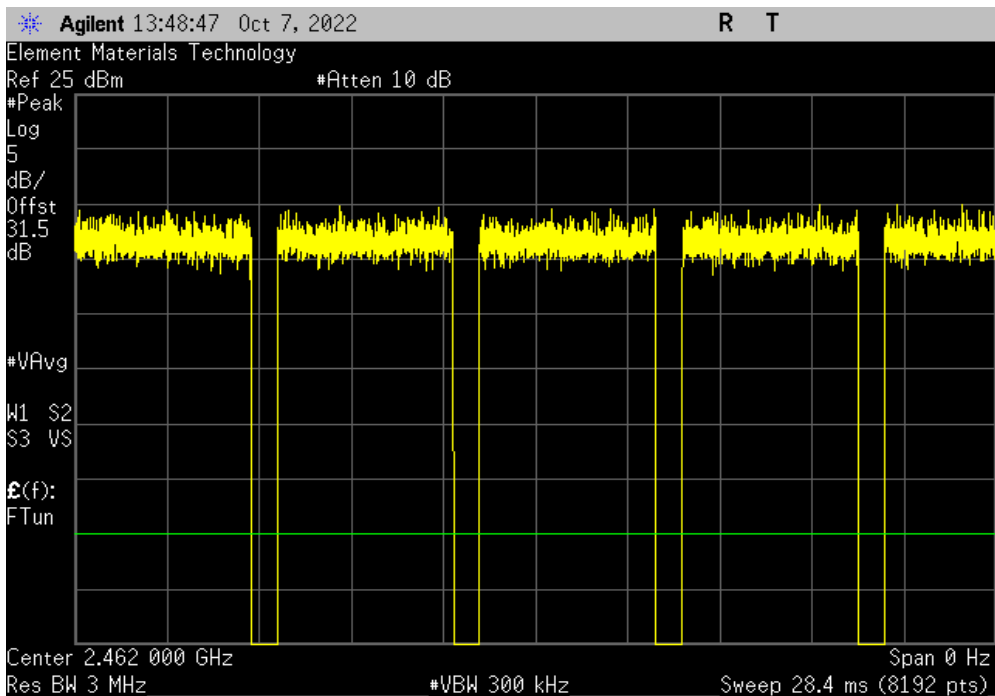


TuTx 2022.06.03.0 XMi 2022.02.07.0

| Chain 1, VHT20, MCS0, High Channel 11, 2462 MHz | | | | | | |
|---|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 5.429 ms | 6.246 ms | 1 | 86.9 | N/A | N/A | |



| Chain 1, VHT20, MCS0, High Channel 11, 2462 MHz | | | | | | |
|---|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |

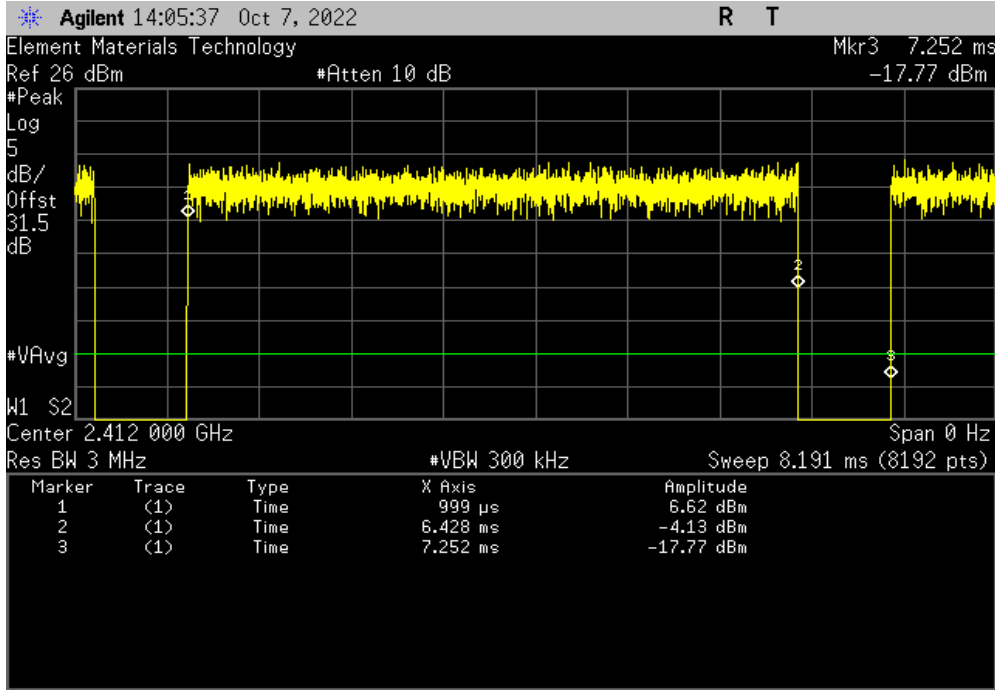


DUTY CYCLE - CHAIN 1

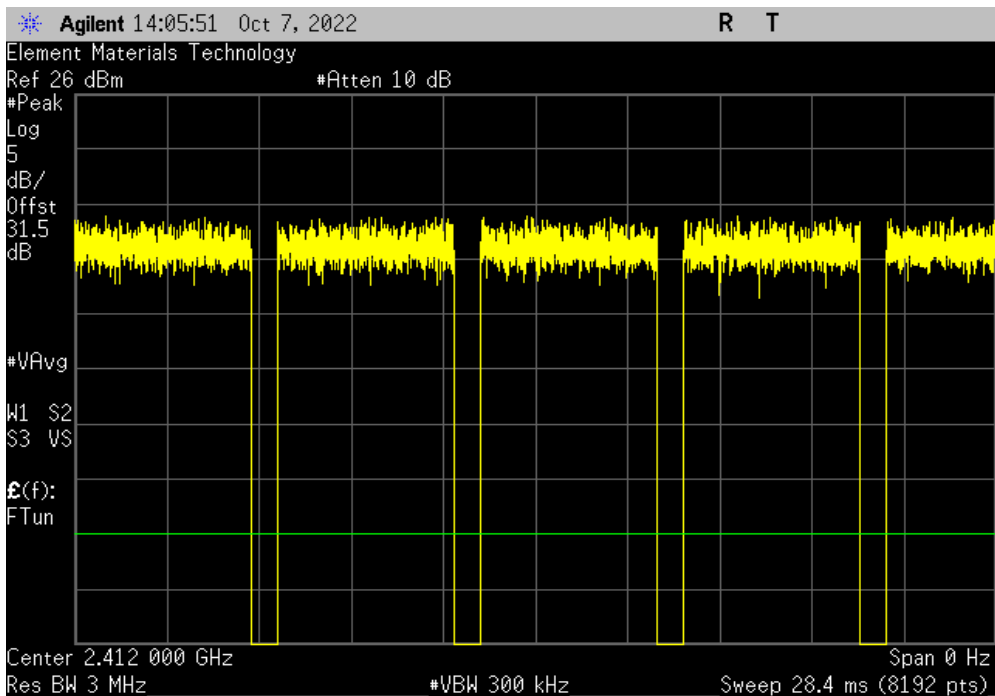


TuTx 2022.06.03.0 XMi 2022.02.07.0

| Chain 1, VHT20, MCS8, Low Channel 1, 2412 MHz | | | | | | |
|---|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 5.429 ms | 6.253 ms | 1 | 86.8 | N/A | N/A | |



| Chain 1, VHT20, MCS8, Low Channel 1, 2412 MHz | | | | | | |
|---|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |

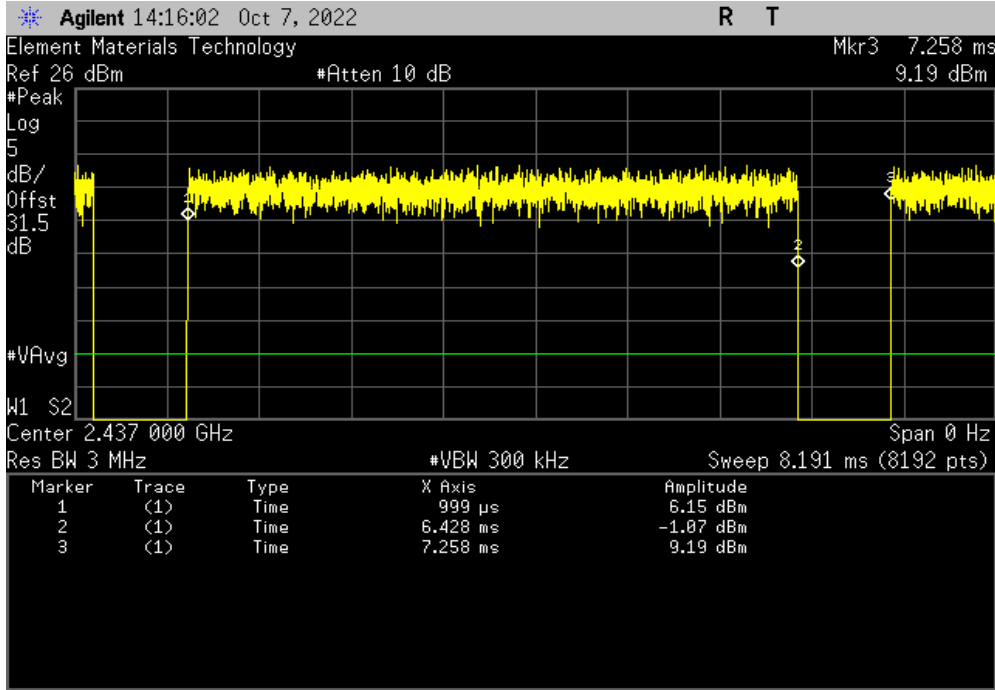


DUTY CYCLE - CHAIN 1

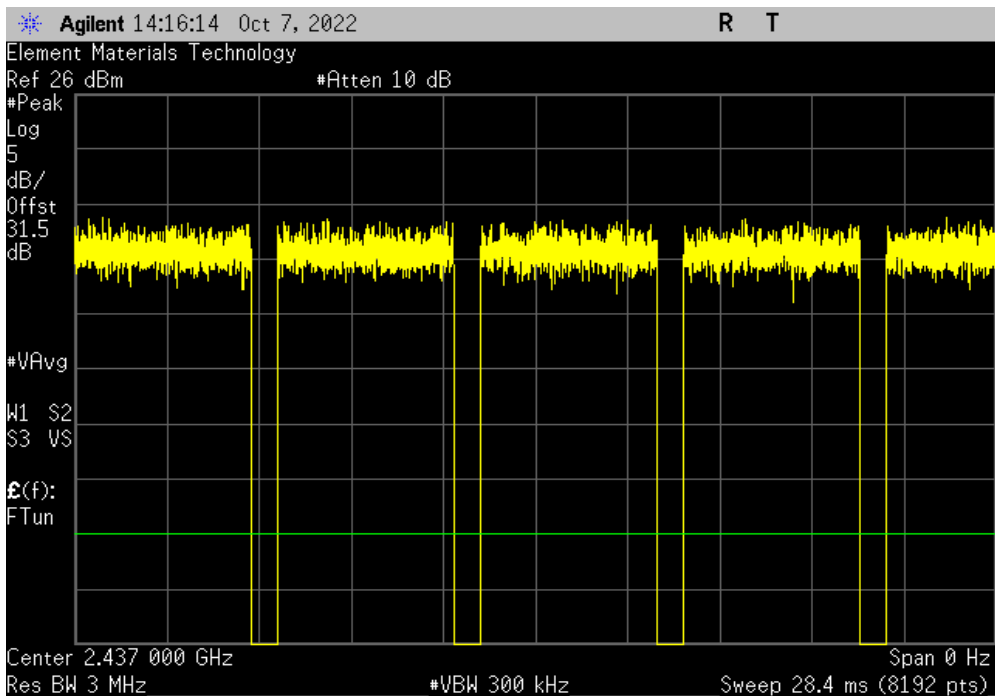


TuTx 2022.06.03.0 XMI 2022.02.07.0

| Chain 1, VHT20, MCS8, Mid Channel 6, 2437 MHz | | | | | | |
|---|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 5.429 ms | 6.259 ms | 1 | 86.7 | N/A | N/A | |



| Chain 1, VHT20, MCS8, Mid Channel 6, 2437 MHz | | | | | | |
|---|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |

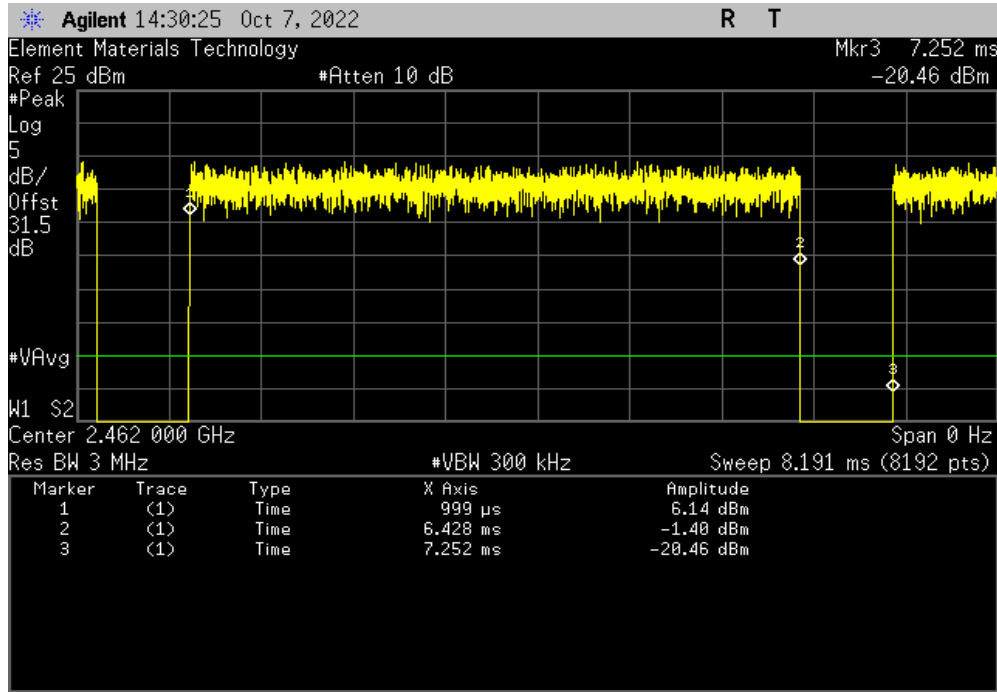


DUTY CYCLE - CHAIN 1

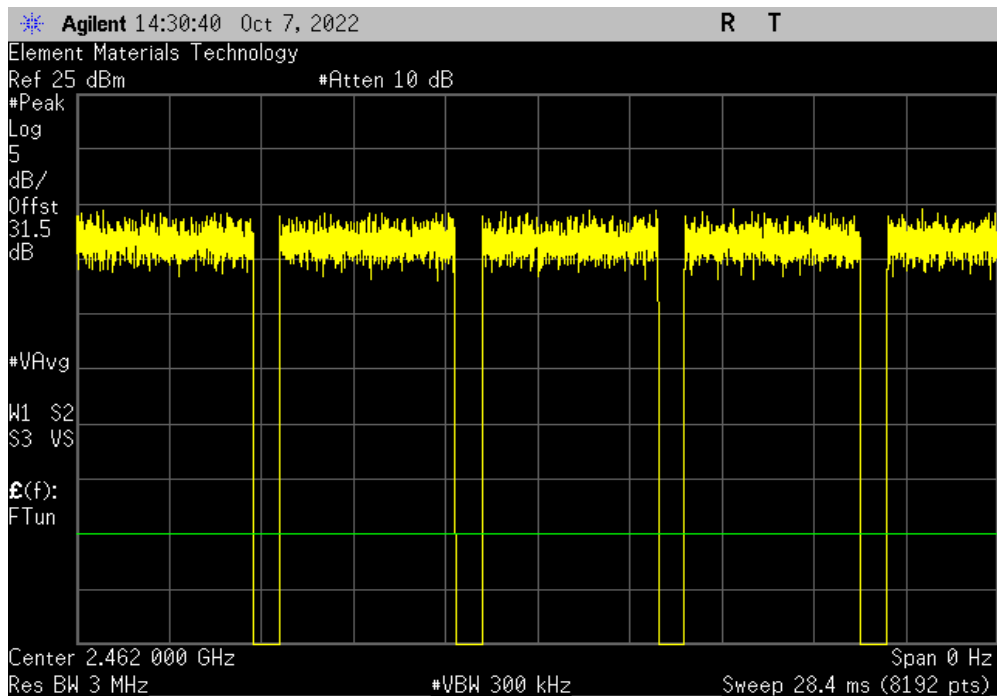


TuTx 2022.06.03.0 XMi 2022.02.07.0

| Chain 1, VHT20, MCS8, High Channel 11, 2462 MHz | | | | | | |
|---|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 5.429 ms | 6.253 ms | 1 | 86.8 | N/A | N/A | |



| Chain 1, VHT20, MCS8, High Channel 11, 2462 MHz | | | | | | |
|---|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |

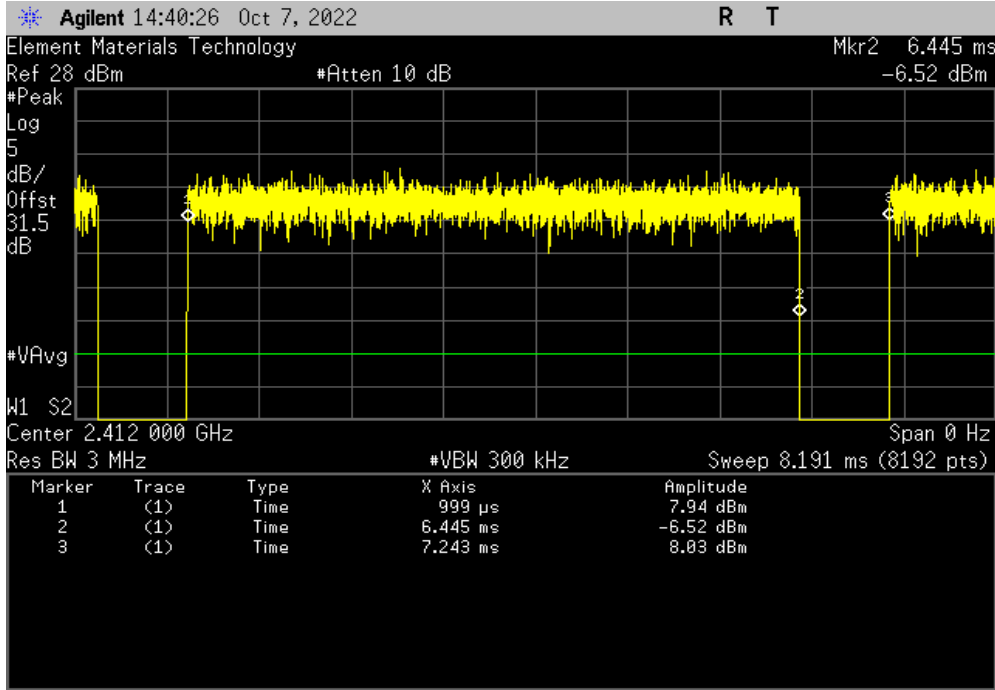


DUTY CYCLE - CHAIN 1

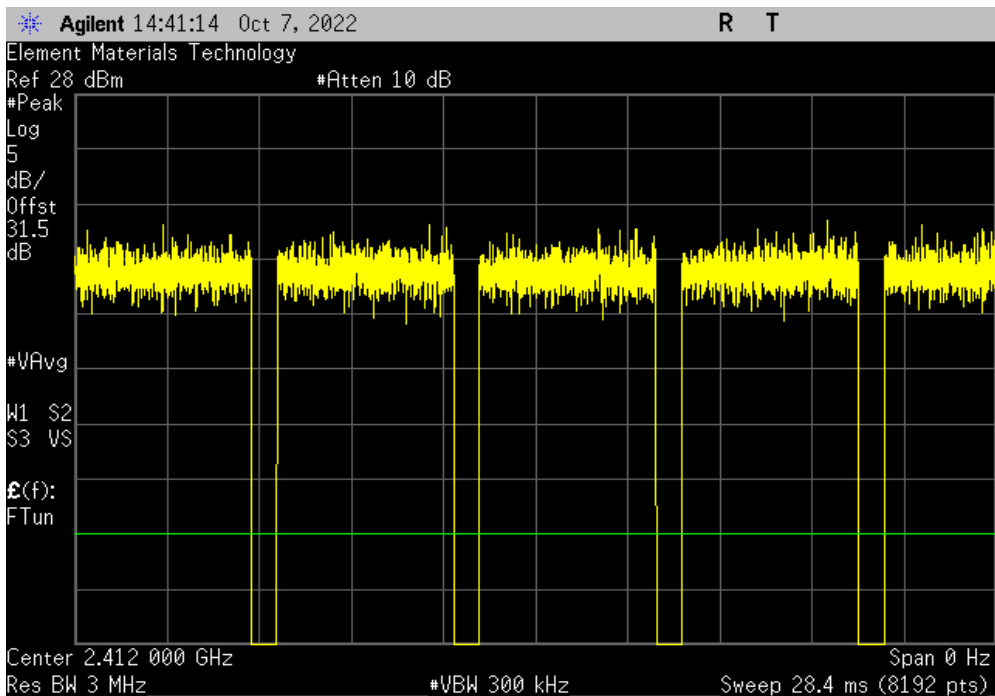


TuTx 2022.06.03.0 XMI 2022.02.07.0

| Chain 1, HE20, MCS0, Low Channel 1, 2412 MHz | | | | | | |
|--|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 5.446 ms | 6.244 ms | 1 | 87.2 | N/A | N/A | |



| Chain 1, HE20, MCS0, Low Channel 1, 2412 MHz | | | | | | |
|--|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |

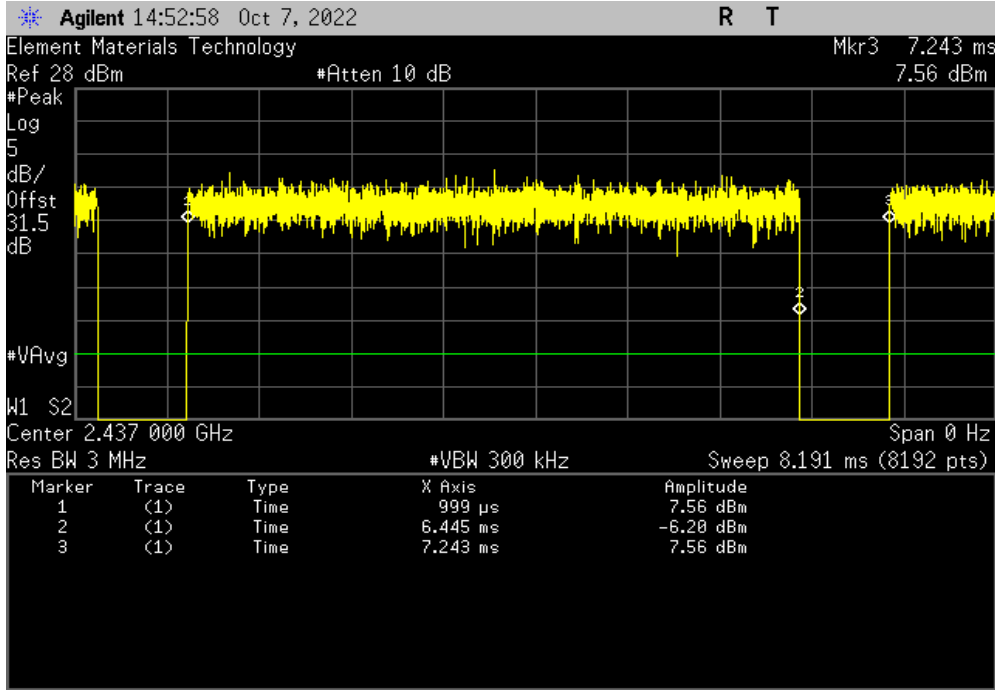


DUTY CYCLE - CHAIN 1

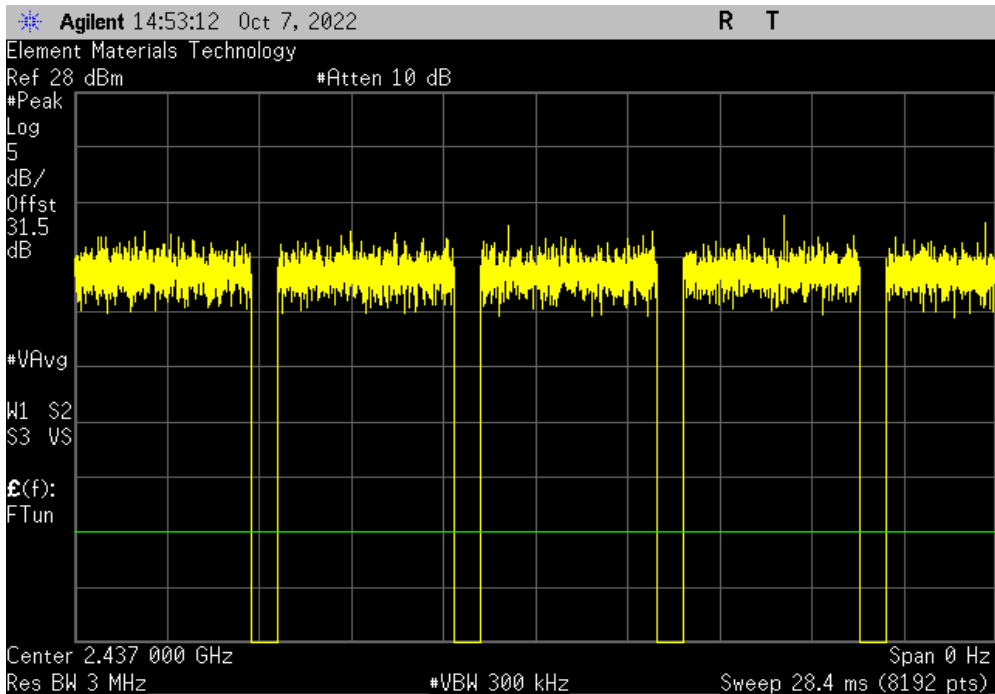


TuTx 2022.06.03.0 XMt 2022.02.07.0

| Chain 1, HE20, MCS0, Mid Channel 6, 2437 MHz | | | | | | |
|--|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 5.446 ms | 6.244 ms | 1 | 87.2 | N/A | N/A | |



| Chain 1, HE20, MCS0, Mid Channel 6, 2437 MHz | | | | | | |
|--|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |

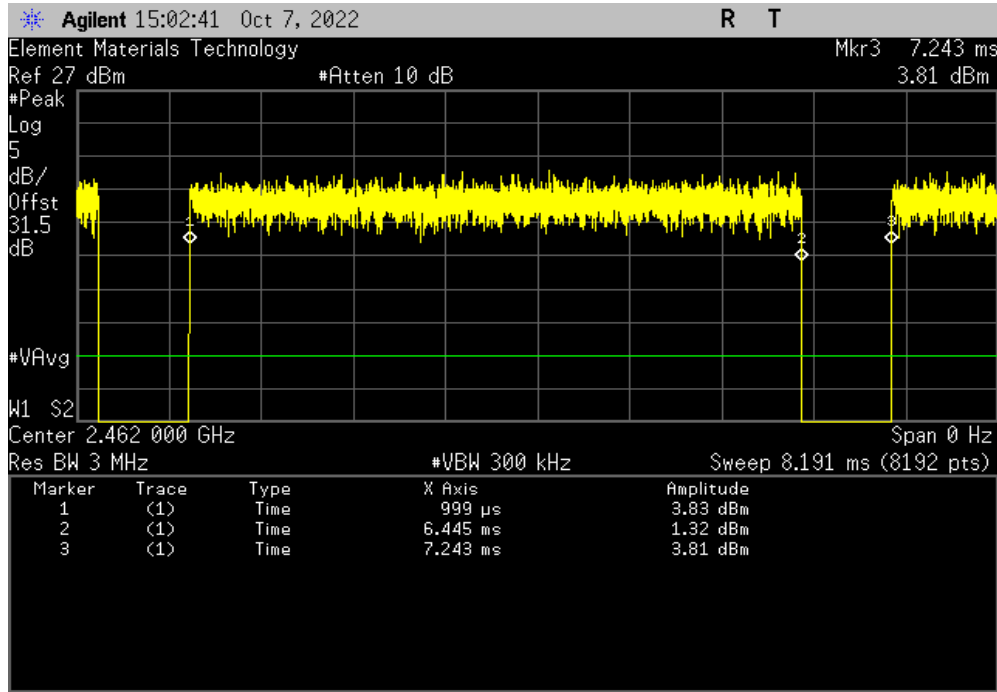


DUTY CYCLE - CHAIN 1

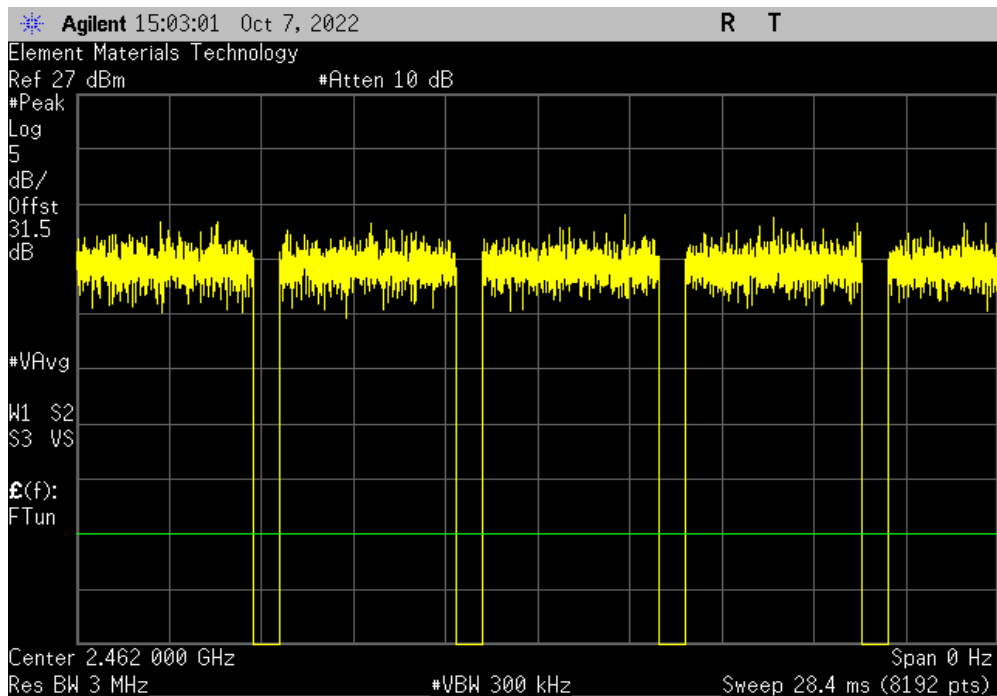


TuTx 2022.06.03.0 XMt 2022.02.07.0

| Chain 1, HE20, MCS0, High Channel 11, 2462 MHz | | | | | | |
|--|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 5.446 ms | 6.244 ms | 1 | 87.2 | N/A | N/A | |



| Chain 1, HE20, MCS0, High Channel 11, 2462 MHz | | | | | | |
|--|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |

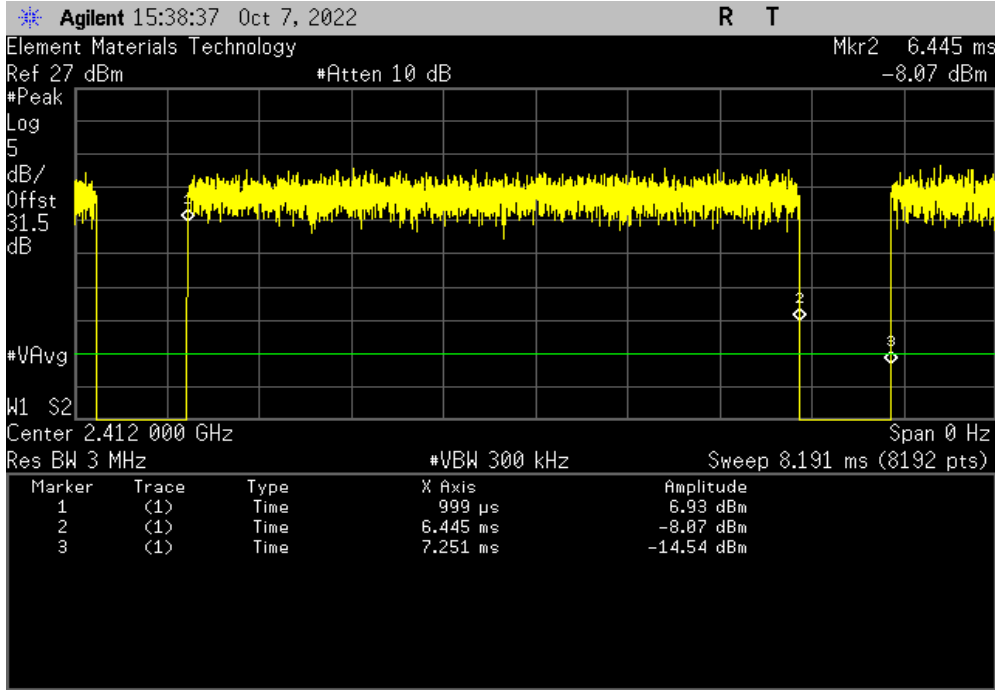


DUTY CYCLE - CHAIN 1

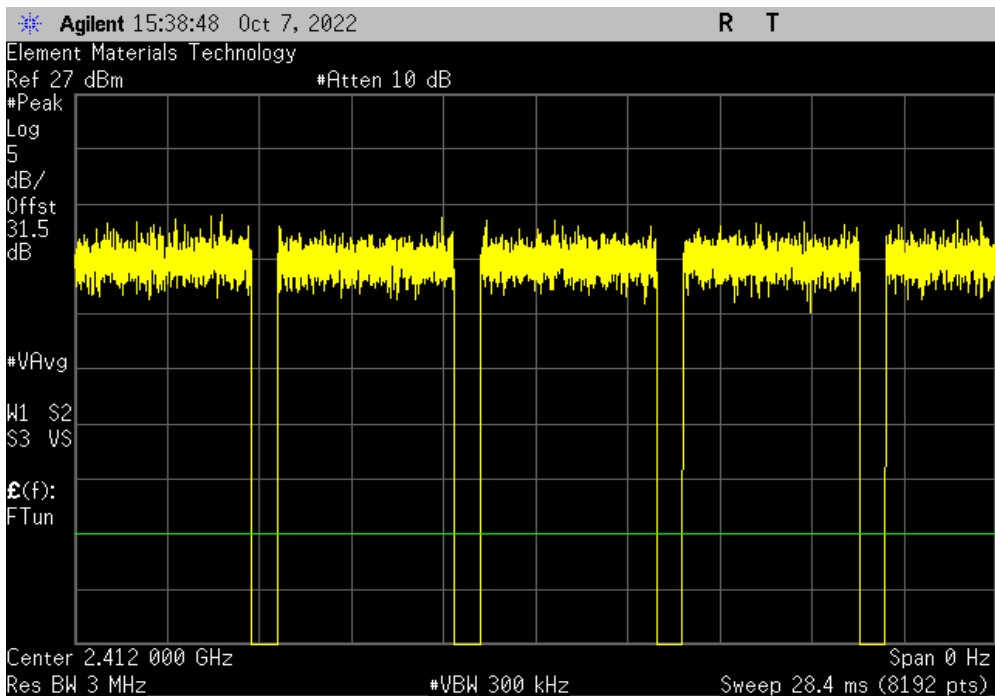


TuTx 2022.06.03.0 XMi 2022.02.07.0

| Chain 1, HE20, MCS11, Low Channel 1, 2412 MHz | | | | | | |
|---|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 5.446 ms | 6.252 ms | 1 | 87.1 | N/A | N/A | |



| Chain 1, HE20, MCS11, Low Channel 1, 2412 MHz | | | | | | |
|---|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |

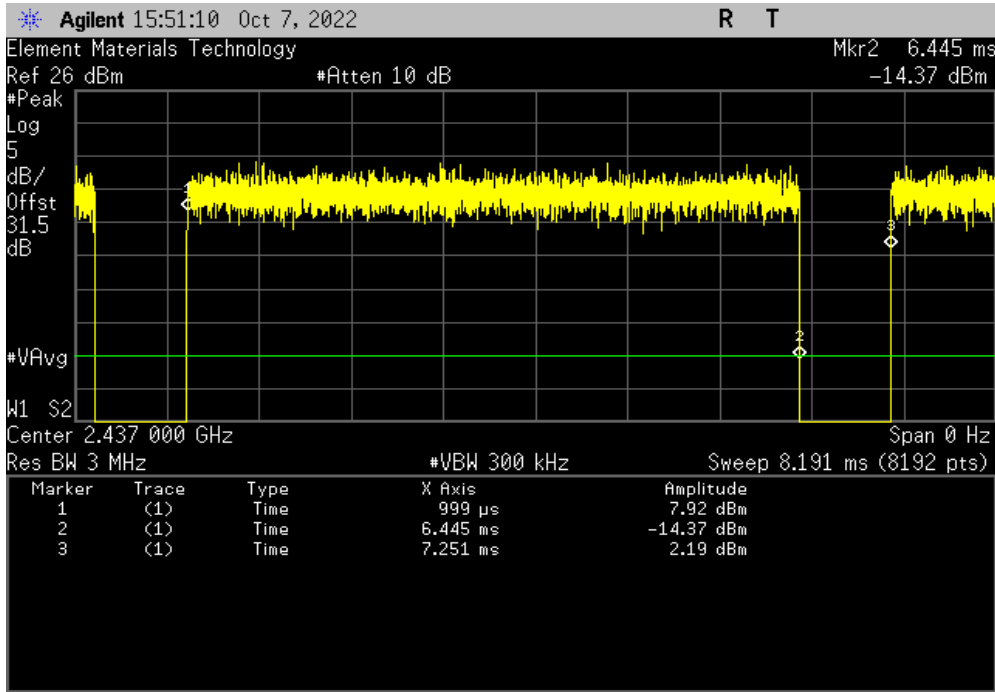


DUTY CYCLE - CHAIN 1

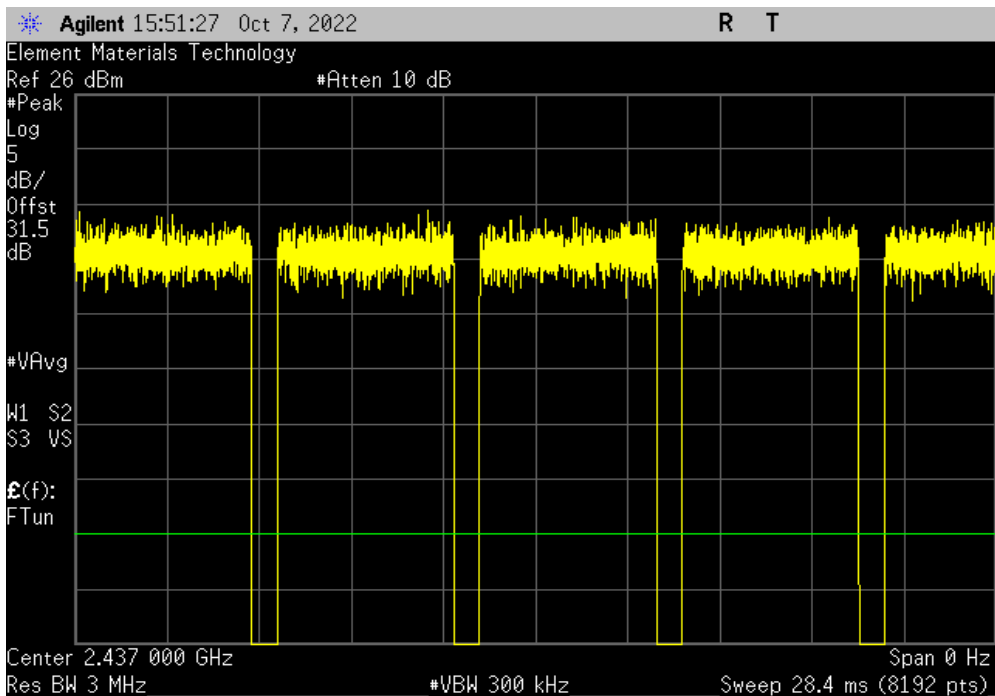


TuTx 2022.06.03.0 XMt 2022.02.07.0

| Chain 1, HE20, MCS11, Mid Channel 6, 2437 MHz | | | | | | |
|---|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 5.446 ms | 6.252 ms | 1 | 87.1 | N/A | N/A | |



| Chain 1, HE20, MCS11, Mid Channel 6, 2437 MHz | | | | | | |
|---|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |

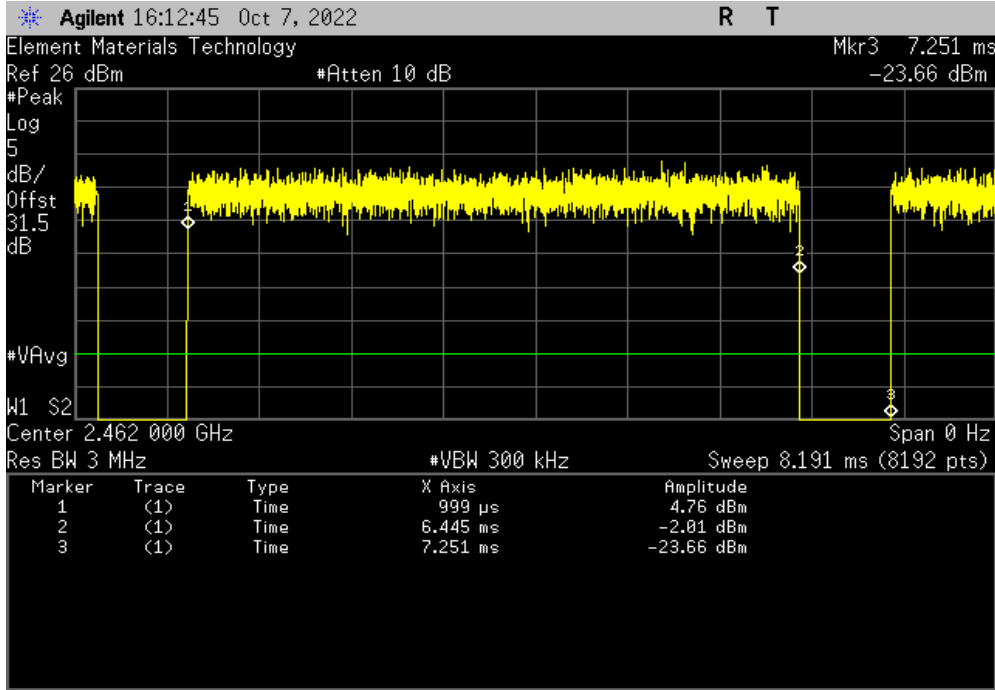


DUTY CYCLE - CHAIN 1

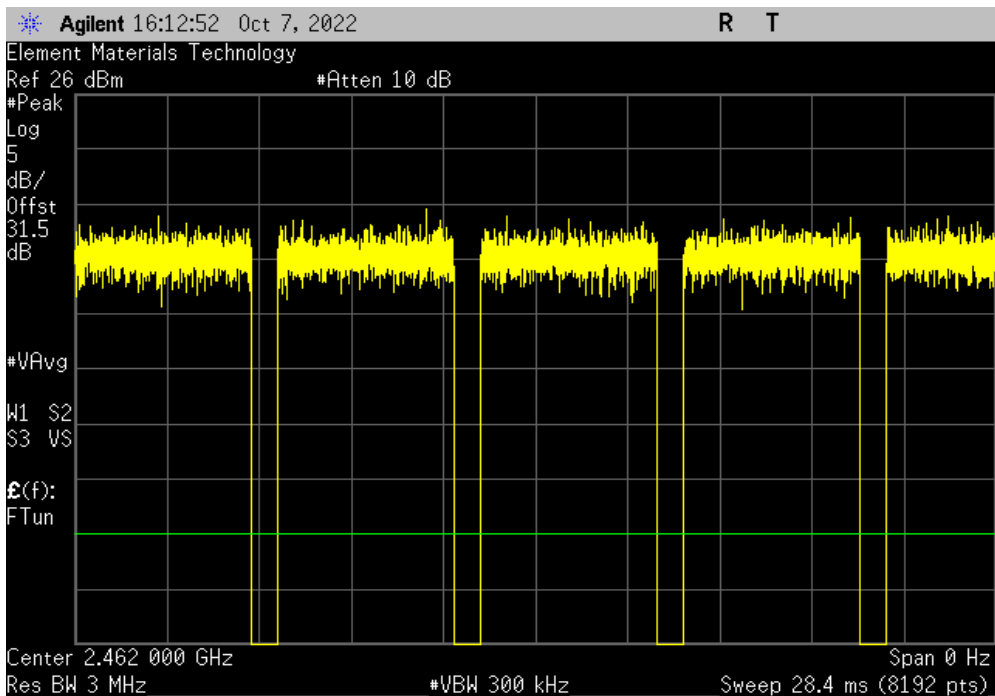


TuTx 2022.06.03.0 XMI 2022.02.07.0

| Chain 1, HE20, MCS11, High Channel 11, 2462 MHz | | | | | | |
|---|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 5.446 ms | 6.252 ms | 1 | 87.1 | N/A | N/A | |



| Chain 1, HE20, MCS11, High Channel 11, 2462 MHz | | | | | | |
|---|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |



DUTY CYCLE - MIMO



XMH 2023.02.14.0

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 - 2023

| Description | Manufacturer | Model | ID | Last Cal. | Cal. Due |
|------------------------------|--------------------|------------------|-----|------------|------------|
| Attenuator | S.M. Electronics | SA26B-10 | AWR | 2022-07-05 | 2023-07-05 |
| Generator - Signal | Keysight | N5182B | TFU | 2022-12-02 | 2024-12-02 |
| Cable | Micro-Coax | D150A-1-0720-200 | EVI | 2022-12-02 | 2023-12-02 |
| Attenuator | S.M. Electronics | SA26B-20 | AUY | 2023-03-13 | 2024-03-13 |
| Block - DC | Fairview Microwave | SD3379 | AMW | 2023-03-13 | 2024-03-13 |
| Analyzer - Spectrum Analyzer | Agilent | E4440A | AAW | 2023-02-06 | 2024-02-06 |

TEST EQUIPMENT - 2022

| Description | Manufacturer | Model | ID | Last Cal. | Cal. Due |
|------------------------------|--------------------|------------------|-----|------------|------------|
| Generator - Signal | Keysight | N5182B | TFU | 2020-11-20 | 2022-11-20 |
| Cable | Micro-Coax | D150A-1-0720-200 | EVI | 2021-12-05 | 2022-12-05 |
| Attenuator | S.M. Electronics | SA26B-10 | AWR | 2022-07-05 | 2023-07-05 |
| Attenuator | S.M. Electronics | SA26B-20 | AUY | 2022-03-15 | 2023-03-15 |
| Block - DC | Fairview Microwave | SD3379 | AMW | 2022-03-14 | 2023-03-14 |
| Analyzer - Spectrum Analyzer | Agilent | E4440A | AAW | 2022-01-26 | 2023-01-26 |

TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer.

The Duty Cycle (x) of the single channel operation of the radio as controlled by the provided test software was measured for each of the EUT operating modes.

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

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

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

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

DUTY CYCLE - MIMO



TstTx 2022.06.03.0 XMi 2023.02.14.0

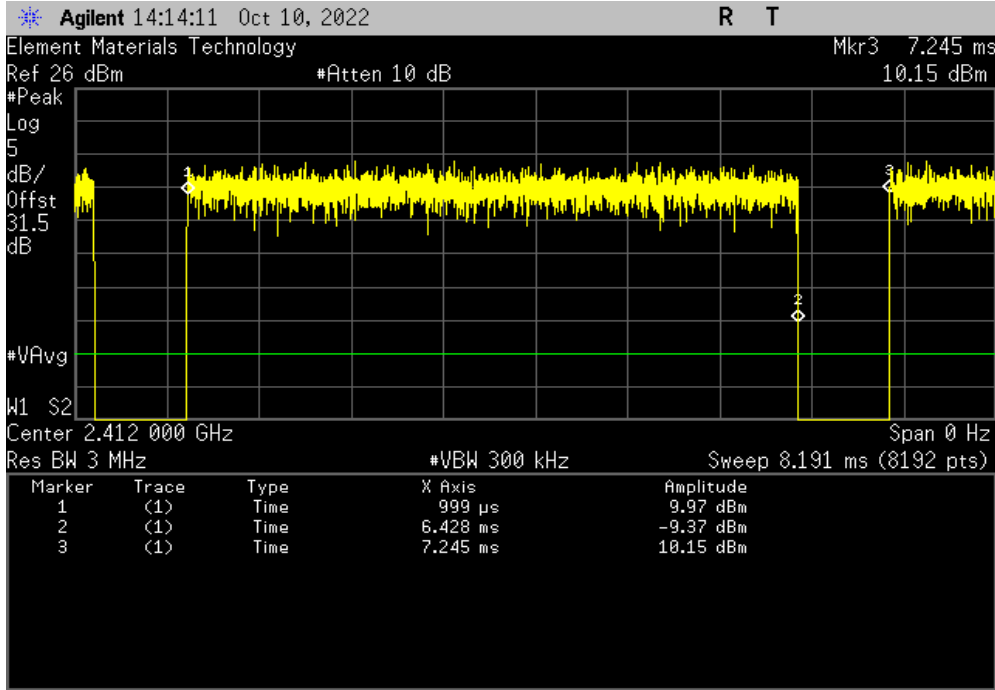
| | | | | | | | |
|---|--------------------------|-----------------------------|----------|------------------|-----------|-----------|---------|
| EUT: U8 Hawk | | Work Order: KYME0068 | | | | | |
| Serial Number: See configuration | | Date: 03/15/23 | | | | | |
| Customer: Kymeta Corp. | | Temperature: 19.7°C | | | | | |
| Attendees: Dean Busch and Mike Olsen | | Humidity: 40.5% | | | | | |
| Project: None | | Barometric Pres.: 1008 mbar | | | | | |
| Tested by: Jeff Alcoke | | Power: 12VDC | | | | | |
| Job Site: EV06 | | | | | | | |
| TEST SPECIFICATIONS | | | | | | | |
| FCC 15.247:2023 | | Test Method | | | | | |
| RSS-247 Issue 2:2017 | | ANSI C63.10:2013 | | | | | |
| | | ANSI C63.10:2013 | | | | | |
| COMMENTS | | | | | | | |
| All measurements collected before 2023, were performed on configuration KYME0068-1. Reporting measurements from Chain 0 only. Chain 1 has the same duty cycle. Reference level offset includes: DC block, 30 dB attenuation, and measurement cable. | | | | | | | |
| DEVIATIONS FROM TEST STANDARD | | | | | | | |
| None | | | | | | | |
| Configuration # | KYME0068-1 KYME0068-5 | Signature | | | | | |
| | | Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results |
| MIMO - Chain 0 | | | | | | | |
| HT20, MCS8 | | | | | | | |
| Low Channel 1, 2412 MHz | | 5.429 ms | 6.246 ms | 1 | 86.9 | N/A | N/A |
| Low Channel 1, 2412 MHz | | N/A | N/A | 5 | N/A | N/A | N/A |
| Mid Channel 6, 2437 MHz | | 5.429 ms | 6.246 ms | 1 | 86.9 | N/A | N/A |
| Mid Channel 6, 2437 MHz | | N/A | N/A | 5 | N/A | N/A | N/A |
| High Channel 11, 2462 MHz | | 5.429 ms | 6.246 ms | 1 | 86.9 | N/A | N/A |
| High Channel 11, 2462 MHz | | N/A | N/A | 5 | N/A | N/A | N/A |
| HT20, MCS15 | | | | | | | |
| Low Channel 1, 2412 MHz | | 5.429 ms | 6.241 ms | 1 | 87 | N/A | N/A |
| Low Channel 1, 2412 MHz | | N/A | N/A | 5 | N/A | N/A | N/A |
| Mid Channel 6, 2437 MHz | | 5.429 ms | 6.241 ms | 1 | 87 | N/A | N/A |
| Mid Channel 6, 2437 MHz | | N/A | N/A | 5 | N/A | N/A | N/A |
| High Channel 11, 2462 MHz | | 5.429 ms | 6.241 ms | 1 | 87 | N/A | N/A |
| High Channel 11, 2462 MHz | | N/A | N/A | 5 | N/A | N/A | N/A |
| VHT20, MCS0 | | | | | | | |
| Low Channel 1, 2412 MHz | | 5.429 ms | 6.253 ms | 1 | 86.8 | N/A | N/A |
| Low Channel 1, 2412 MHz | | N/A | N/A | 5 | N/A | N/A | N/A |
| Mid Channel 6, 2437 MHz | | 5.429 ms | 6.253 ms | 1 | 86.8 | N/A | N/A |
| Mid Channel 6, 2437 MHz | | N/A | N/A | 5 | N/A | N/A | N/A |
| High Channel 11, 2462 MHz | | 5.429 ms | 6.253 ms | 1 | 86.8 | N/A | N/A |
| High Channel 11, 2462 MHz | | N/A | N/A | 5 | N/A | N/A | N/A |
| VHT20, MCS8 | | | | | | | |
| Low Channel 1, 2412 MHz | | 5.43 ms | 6.264 ms | 1 | 86.7 | N/A | N/A |
| Low Channel 1, 2412 MHz | | N/A | N/A | 5 | N/A | N/A | N/A |
| Mid Channel 6, 2437 MHz | | 5.429 ms | 6.263 ms | 1 | 86.7 | N/A | N/A |
| Mid Channel 6, 2437 MHz | | N/A | N/A | 5 | N/A | N/A | N/A |
| High Channel 11, 2462 MHz | | 5.43 ms | 6.264 ms | 1 | 86.7 | N/A | N/A |
| High Channel 11, 2462 MHz | | N/A | N/A | 5 | N/A | N/A | N/A |
| HE20, MCS0 | | | | | | | |
| Low Channel 1, 2412 MHz | | 5.453 ms | 6.261 ms | 1 | 87.1 | N/A | N/A |
| Low Channel 1, 2412 MHz | | N/A | N/A | 5 | N/A | N/A | N/A |
| Mid Channel 6, 2437 MHz | | 5.453 ms | 6.261 ms | 1 | 87.1 | N/A | N/A |
| Mid Channel 6, 2437 MHz | | N/A | N/A | 5 | N/A | N/A | N/A |
| High Channel 11, 2462 MHz | | 5.453 ms | 6.261 ms | 1 | 87.1 | N/A | N/A |
| High Channel 11, 2462 MHz | | N/A | N/A | 5 | N/A | N/A | N/A |
| HE20, MCS11 | | | | | | | |
| Low Channel 1, 2412 MHz | | 5.453 ms | 6.251 ms | 1 | 87.2 | N/A | N/A |
| Low Channel 1, 2412 MHz | | N/A | N/A | 5 | N/A | N/A | N/A |
| Mid Channel 6, 2437 MHz | | 5.453 ms | 6.251 ms | 1 | 87.2 | N/A | N/A |
| Mid Channel 6, 2437 MHz | | N/A | N/A | 5 | N/A | N/A | N/A |
| High Channel 11, 2462 MHz | | 5.453 ms | 6.251 ms | 1 | 87.2 | N/A | N/A |
| High Channel 11, 2462 MHz | | N/A | N/A | 5 | N/A | N/A | N/A |

DUTY CYCLE - MIMO

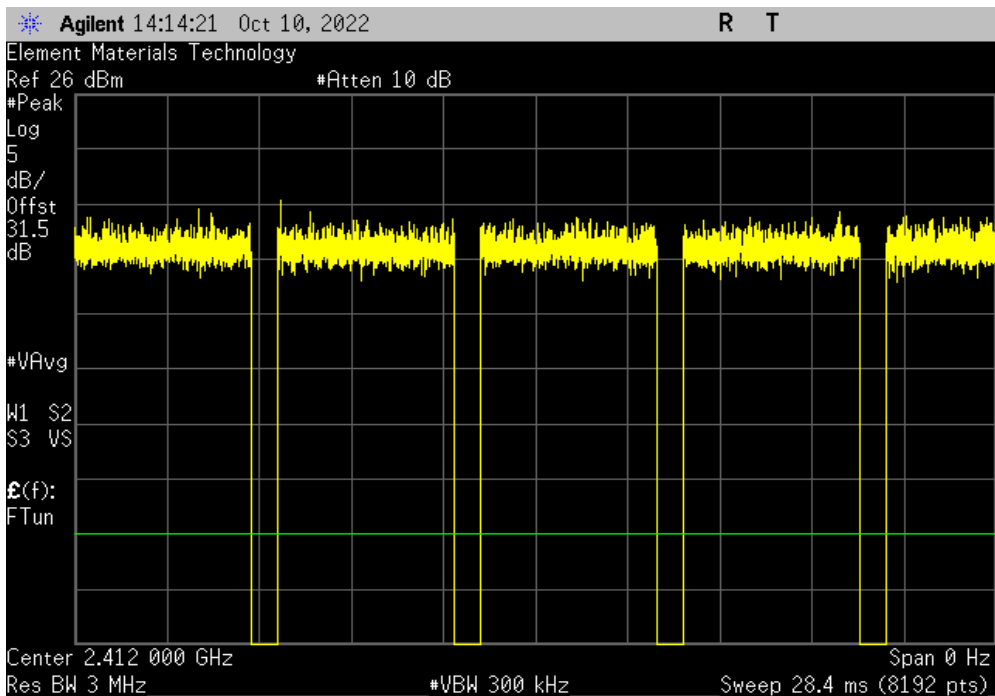


TbTx 2022.06.03.0 XMI 2023.02.14.0

| MIMO - Chain 0, HT20, MCS8, Low Channel 1, 2412 MHz | | | | | | |
|---|-------------|----------|------------------|-----------|-----------|---------|
| | Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results |
| | 5.429 ms | 6.246 ms | 1 | 86.9 | N/A | N/A |



| MIMO - Chain 0, HT20, MCS8, Low Channel 1, 2412 MHz | | | | | | |
|---|-------------|--------|------------------|-----------|-----------|---------|
| | Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results |
| | N/A | N/A | 5 | N/A | N/A | N/A |

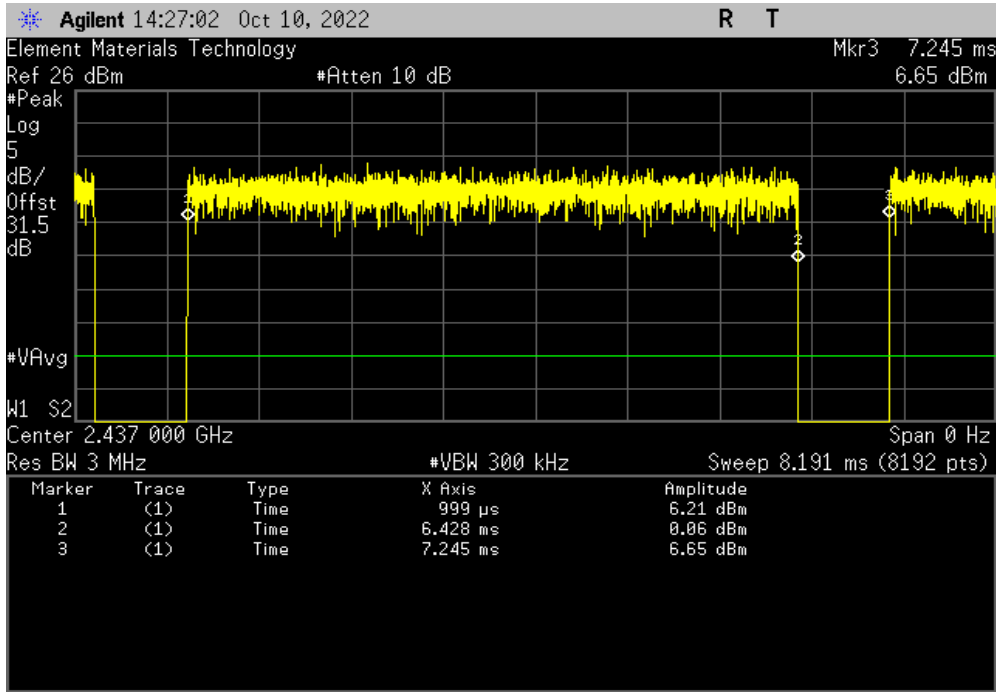


DUTY CYCLE - MIMO

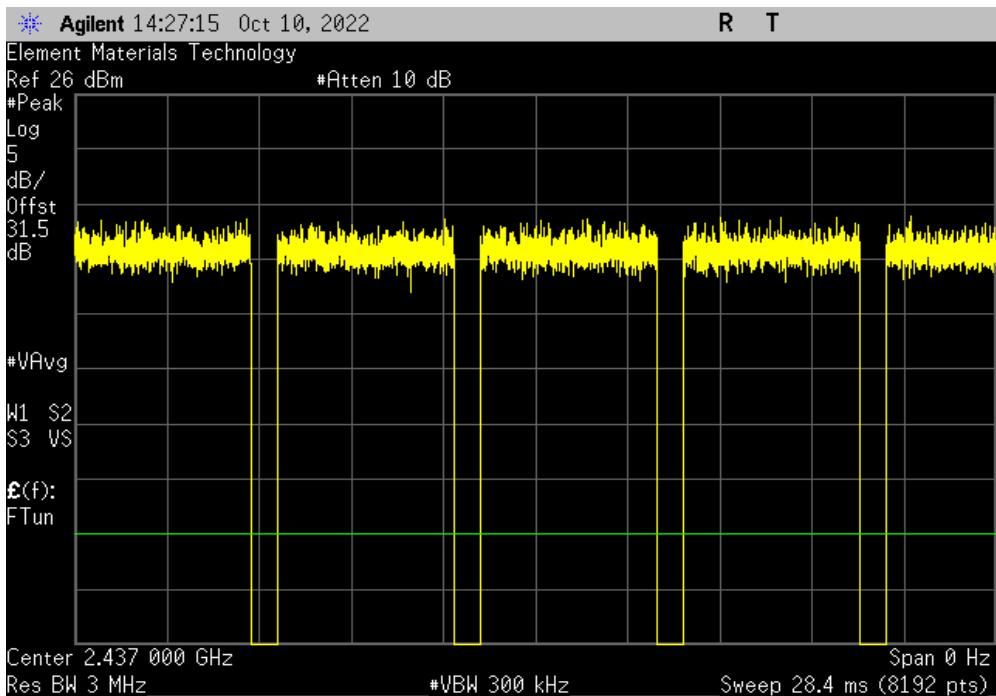


TbTx 2022.06.03.0 XMI 2023.02.14.0

| MIMO - Chain 0, HT20, MCS8, Mid Channel 6, 2437 MHz | | | | | | |
|---|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 5.429 ms | 6.246 ms | 1 | 86.9 | N/A | N/A | |



| MIMO - Chain 0, HT20, MCS8, Mid Channel 6, 2437 MHz | | | | | | |
|---|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |

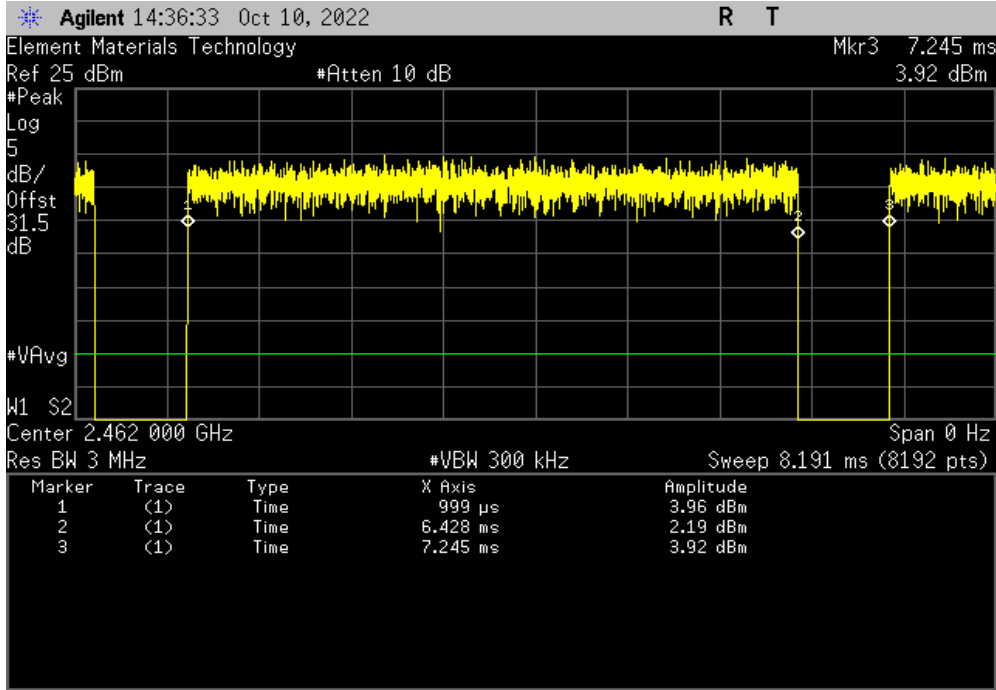


DUTY CYCLE - MIMO

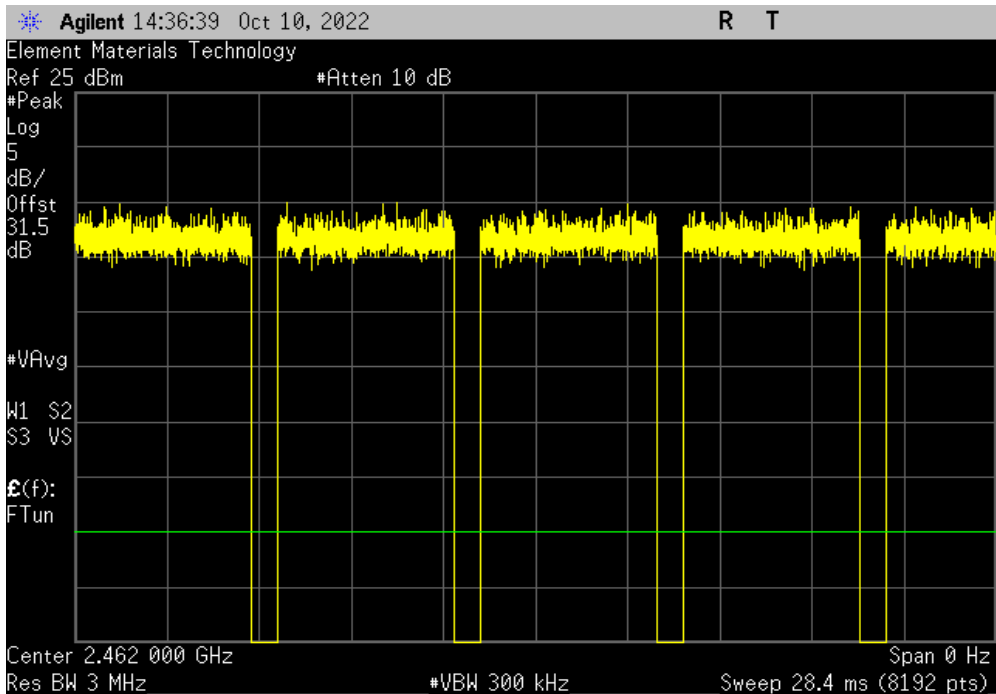


TbTx 2022.06.03.0 XMI 2023.02.14.0

| MIMO - Chain 0, HT20, MCS8, High Channel 11, 2462 MHz | | | | | | |
|---|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 5.429 ms | 6.246 ms | 1 | 86.9 | N/A | N/A | |



| MIMO - Chain 0, HT20, MCS8, High Channel 11, 2462 MHz | | | | | | |
|---|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |

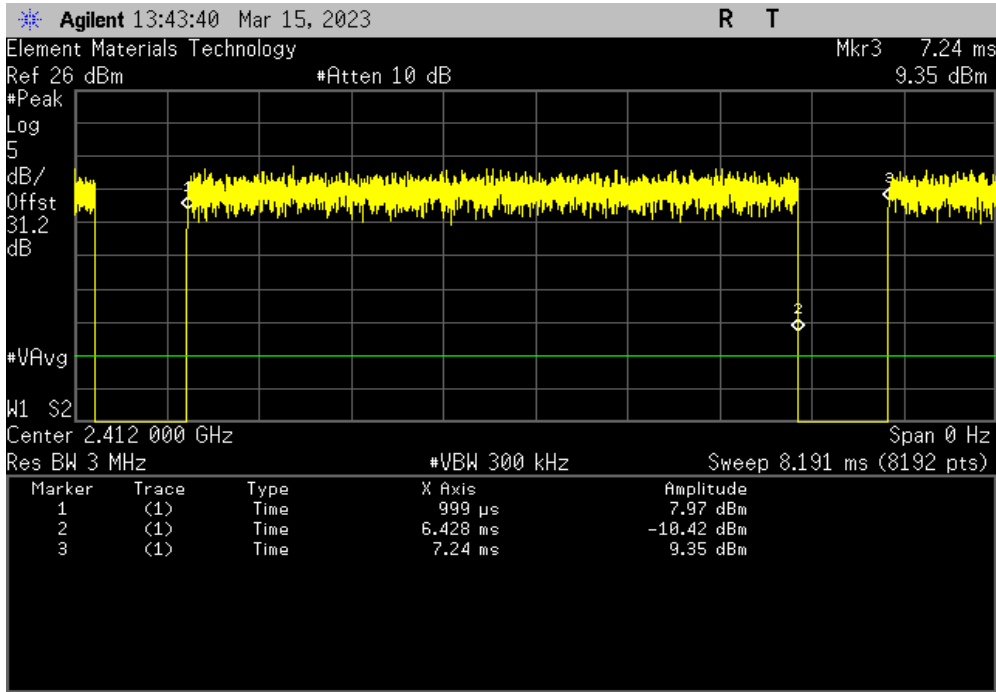


DUTY CYCLE - MIMO

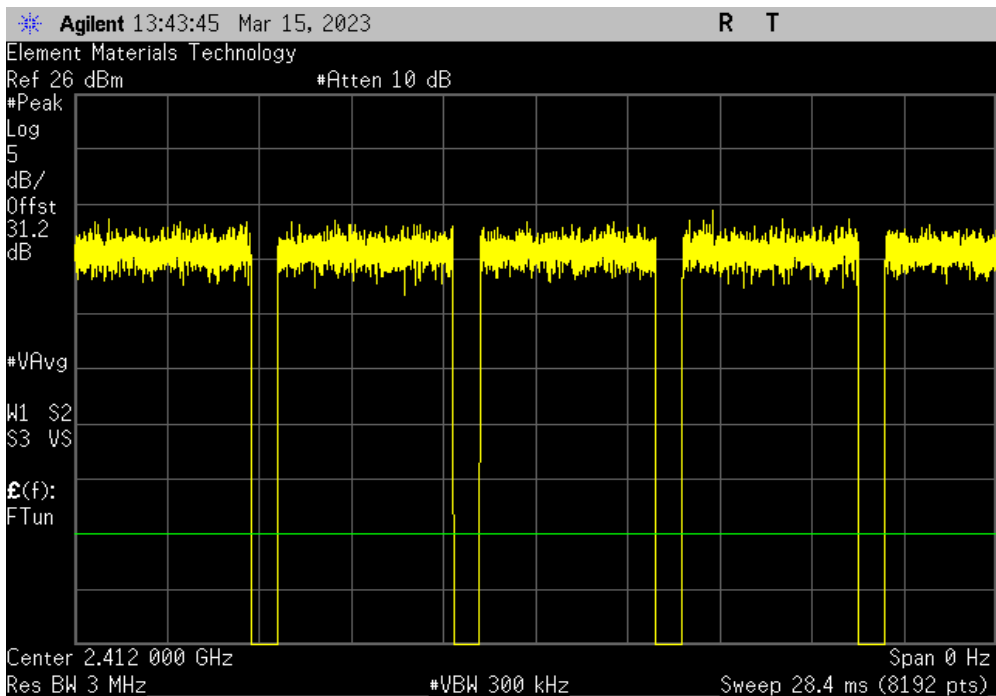


TbTx 2022.06.03.0 XMI 2023.02.14.0

| MIMO - Chain 0, HT20, MCS15, Low Channel 1, 2412 MHz | | | | | | |
|--|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 5.429 ms | 6.241 ms | 1 | 87 | N/A | N/A | |



| MIMO - Chain 0, HT20, MCS15, Low Channel 1, 2412 MHz | | | | | | |
|--|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |

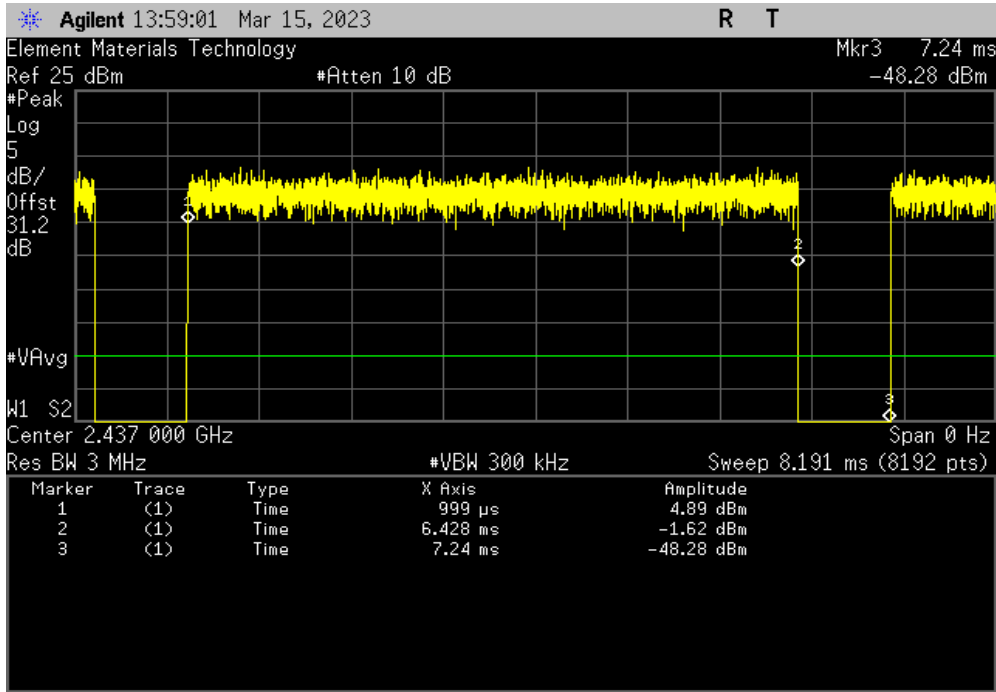


DUTY CYCLE - MIMO

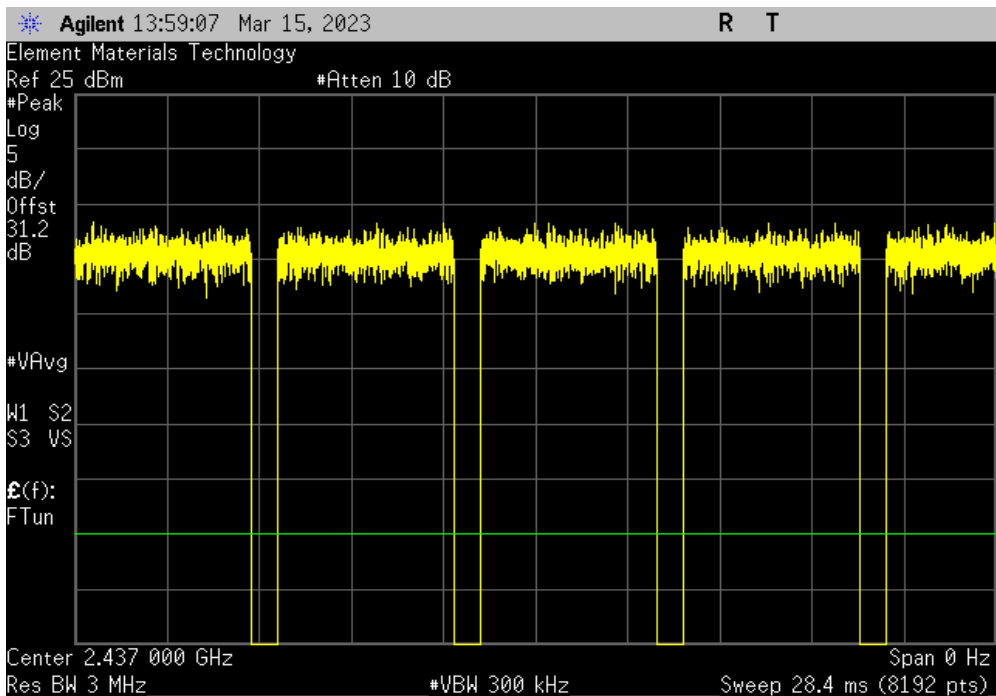


TbTx 2022.06.03.0 XMI 2023.02.14.0

| MIMO - Chain 0, HT20, MCS15, Mid Channel 6, 2437 MHz | | | | | | |
|--|-------------|----------|------------------|-----------|-----------|---------|
| | Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results |
| | 5.429 ms | 6.241 ms | 1 | 87 | N/A | N/A |



| MIMO - Chain 0, HT20, MCS15, Mid Channel 6, 2437 MHz | | | | | | |
|--|-------------|--------|------------------|-----------|-----------|---------|
| | Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results |
| | N/A | N/A | 5 | N/A | N/A | N/A |

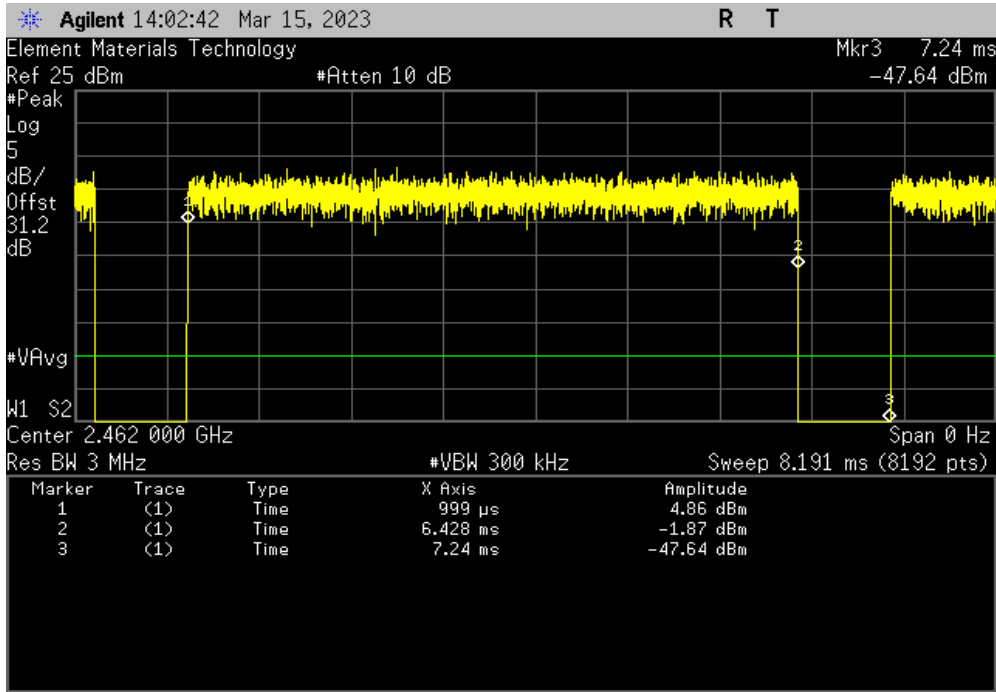


DUTY CYCLE - MIMO

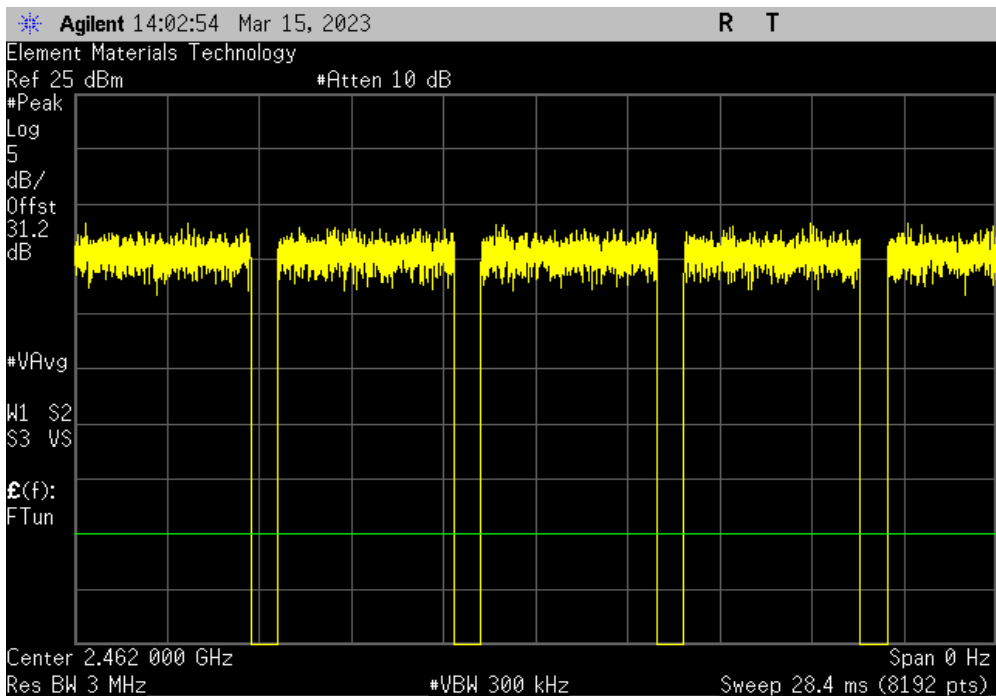


TbTx 2022.06.03.0 XMI 2023.02.14.0

| MIMO - Chain 0, HT20, MCS15, High Channel 11, 2462 MHz | | | | | | |
|--|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 5.429 ms | 6.241 ms | 1 | 87 | N/A | N/A | |



| MIMO - Chain 0, HT20, MCS15, High Channel 11, 2462 MHz | | | | | | |
|--|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |

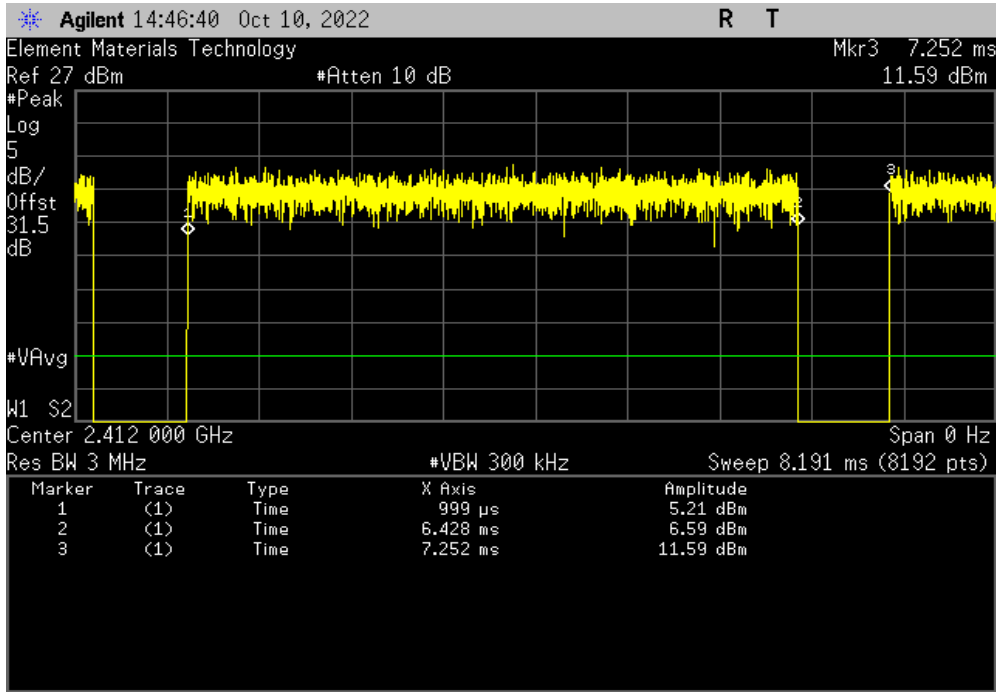


DUTY CYCLE - MIMO

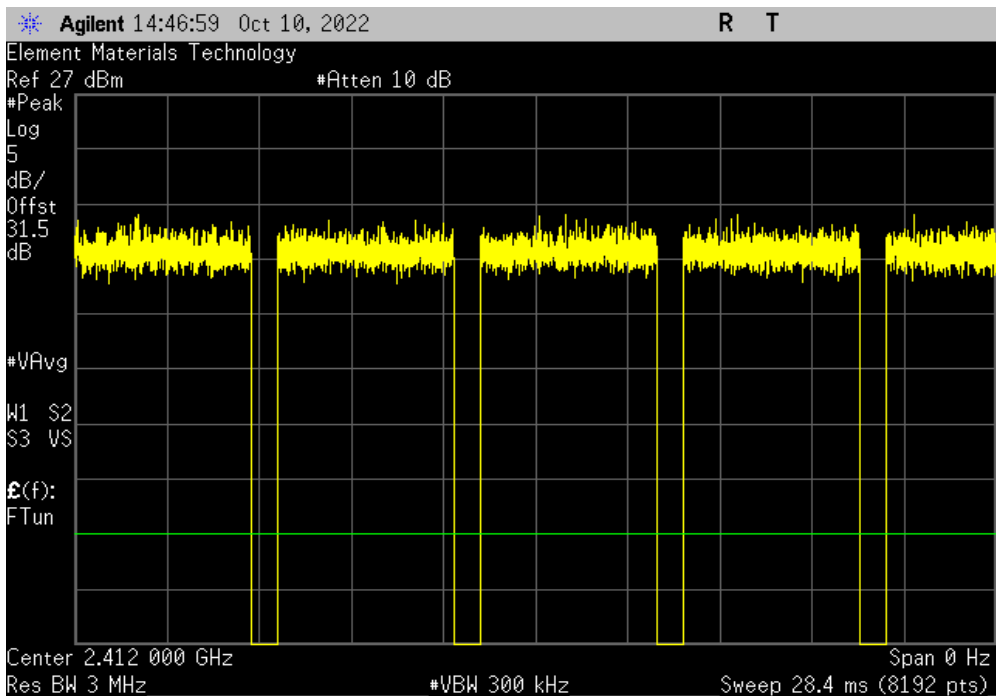


TuTx 2022.06.03.0 XMt 2023.02.14.0

| MIMO - Chain 0, VHT20, MCS0, Low Channel 1, 2412 MHz | | | | | | |
|--|-------------|----------|------------------|-----------|-----------|---------|
| | Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results |
| | 5.429 ms | 6.253 ms | 1 | 86.8 | N/A | N/A |



| MIMO - Chain 0, VHT20, MCS0, Low Channel 1, 2412 MHz | | | | | | |
|--|-------------|--------|------------------|-----------|-----------|---------|
| | Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results |
| | N/A | N/A | 5 | N/A | N/A | N/A |

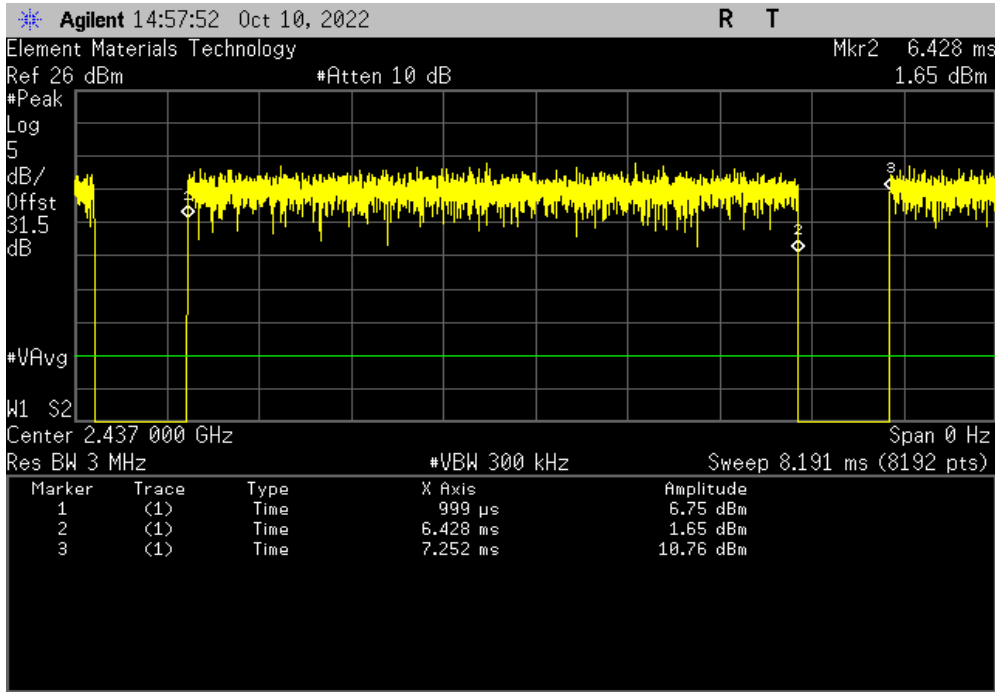


DUTY CYCLE - MIMO

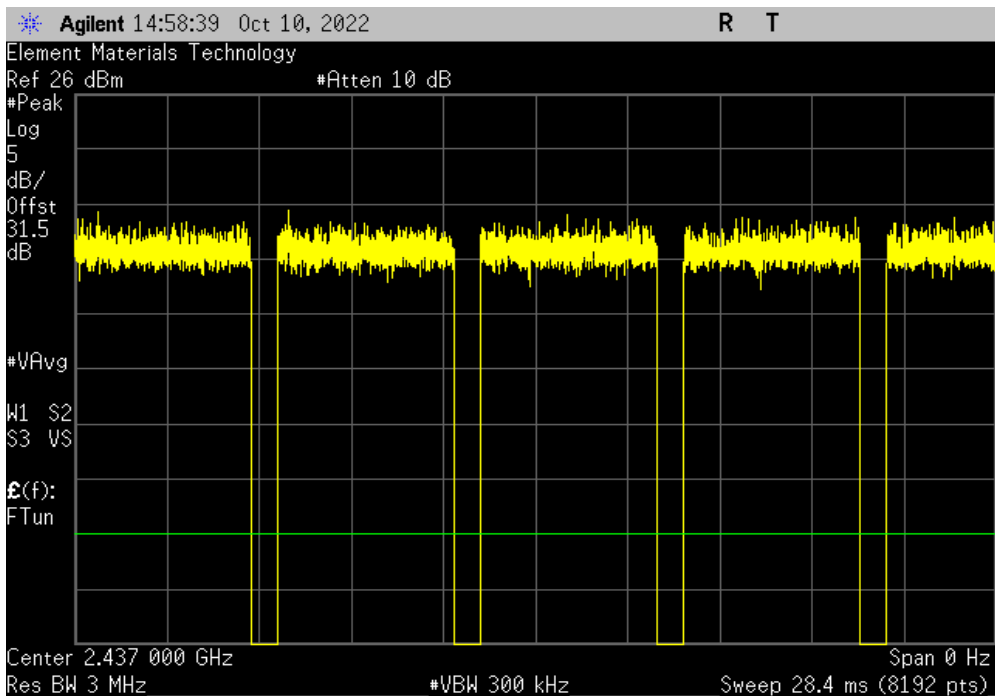


TuTx 2022.06.03.0 XMt 2023.02.14.0

| MIMO - Chain 0, VHT20, MCS0, Mid Channel 6, 2437 MHz | | | | | | |
|--|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 5.429 ms | 6.253 ms | 1 | 86.8 | N/A | N/A | |



| MIMO - Chain 0, VHT20, MCS0, Mid Channel 6, 2437 MHz | | | | | | |
|--|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |

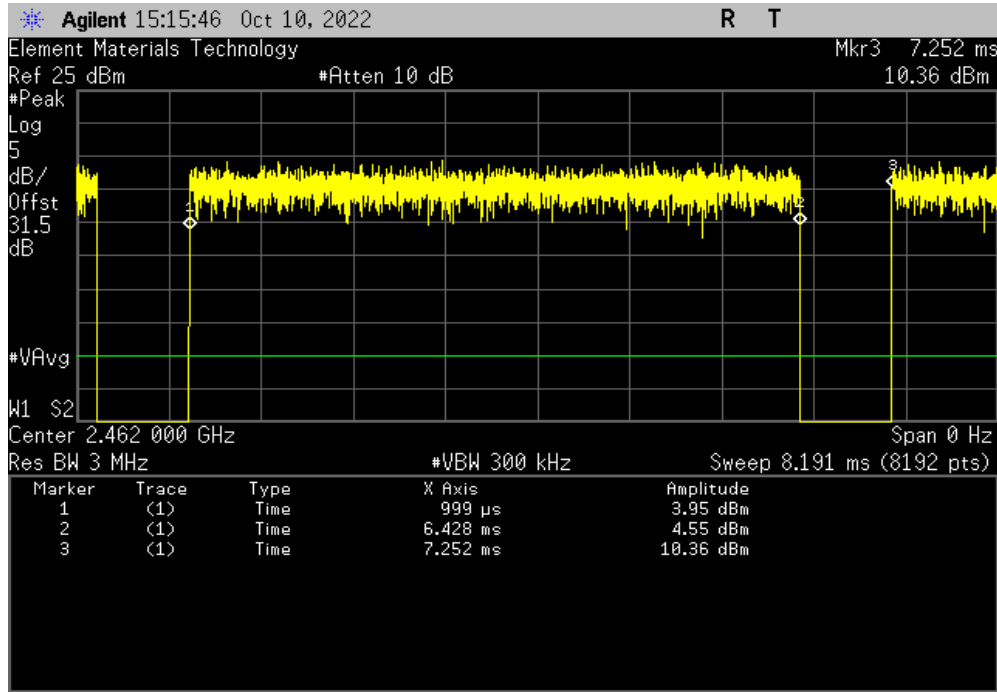


DUTY CYCLE - MIMO

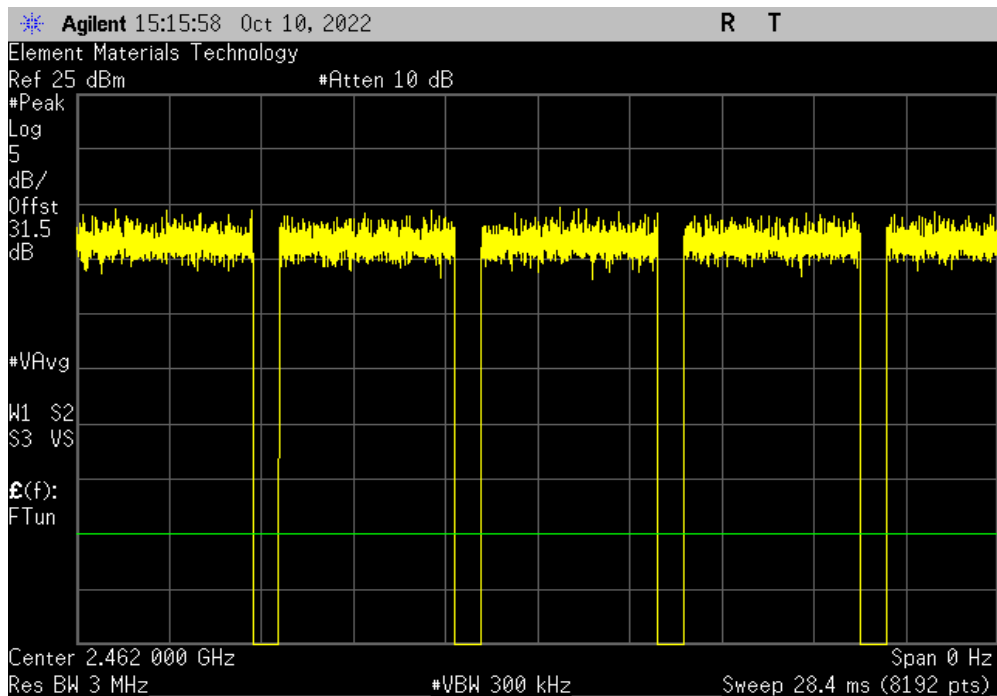


TuTx 2022.06.03.0 XMt 2023.02.14.0

| MIMO - Chain 0, VHT20, MCS0, High Channel 11, 2462 MHz | | | | | | |
|--|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 5.429 ms | 6.253 ms | 1 | 86.8 | N/A | N/A | |



| MIMO - Chain 0, VHT20, MCS0, High Channel 11, 2462 MHz | | | | | | |
|--|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |

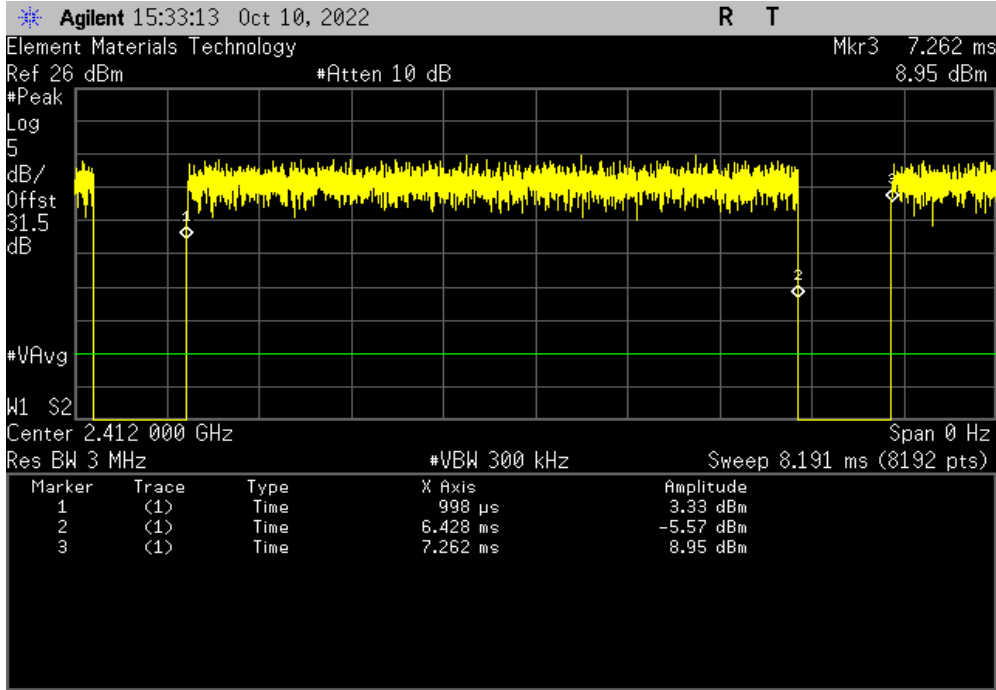


DUTY CYCLE - MIMO

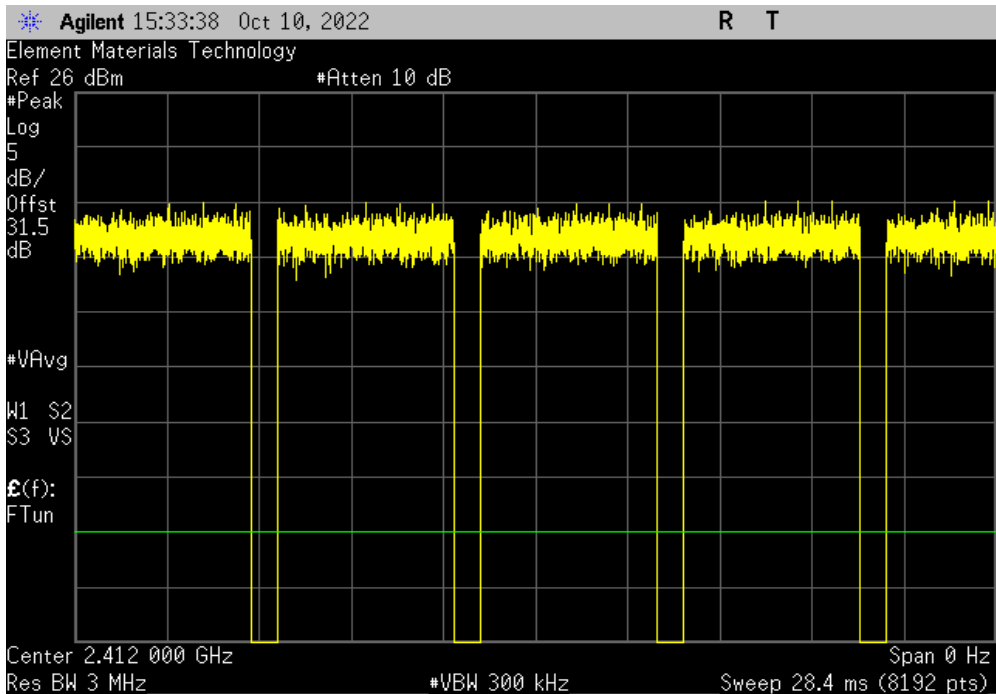


TuTx 2022.06.03.0 XMt 2023.02.14.0

| MIMO - Chain 0, VHT20, MCS8, Low Channel 1, 2412 MHz | | | | | | |
|--|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 5.43 ms | 6.264 ms | 1 | 86.7 | N/A | N/A | |



| MIMO - Chain 0, VHT20, MCS8, Low Channel 1, 2412 MHz | | | | | | |
|--|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |

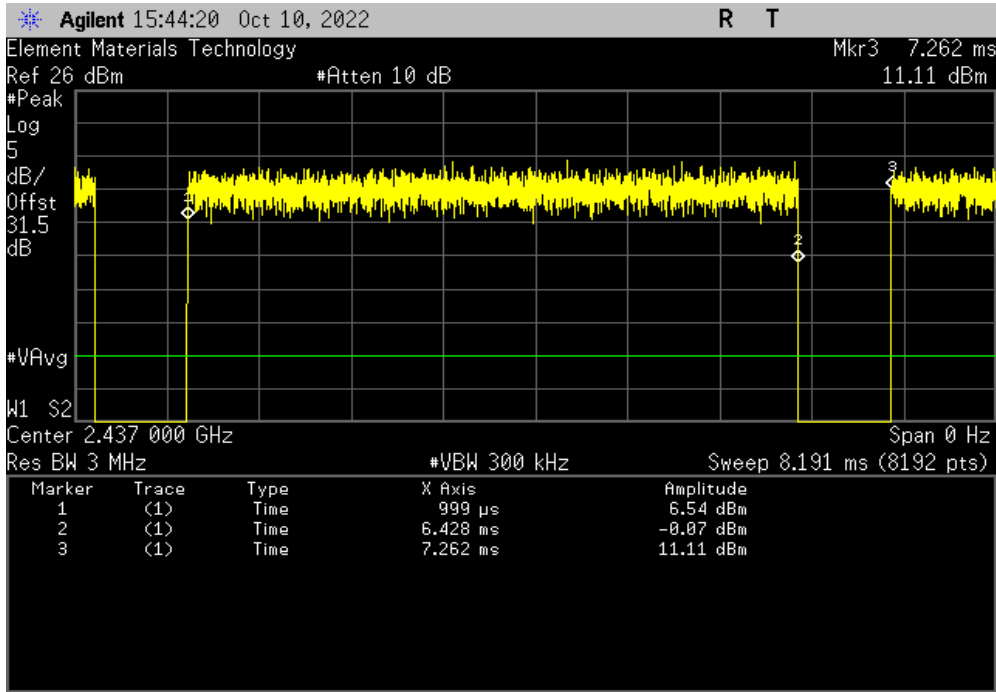


DUTY CYCLE - MIMO

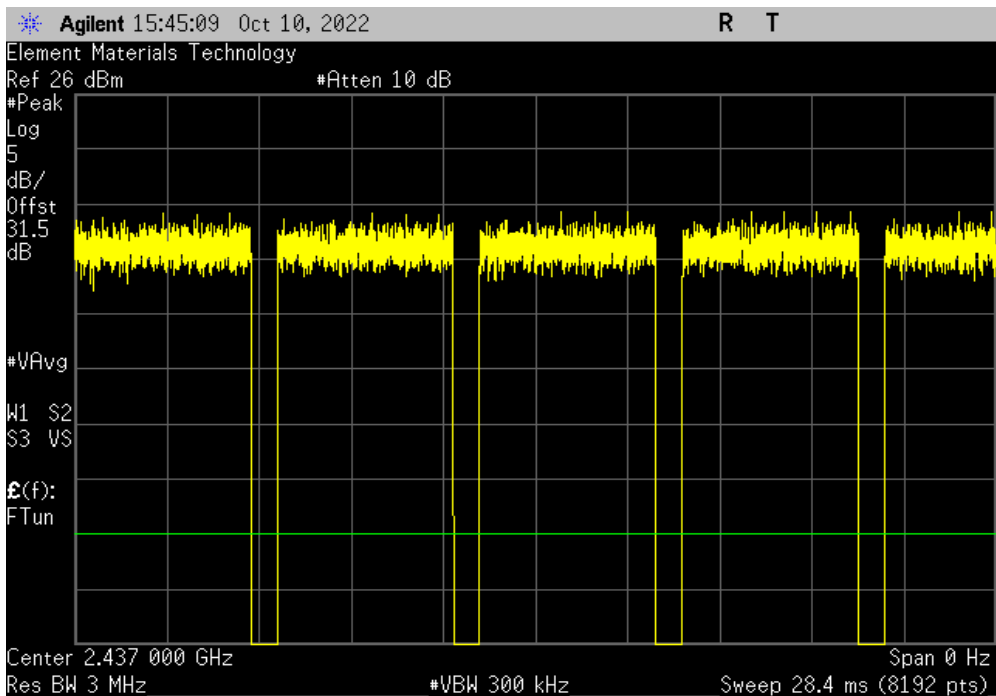


TuTx 2022.06.03.0 XMt 2023.02.14.0

| MIMO - Chain 0, VHT20, MCS8, Mid Channel 6, 2437 MHz | | | | | | |
|--|-------------|----------|------------------|-----------|-----------|---------|
| | Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results |
| | 5.429 ms | 6.263 ms | 1 | 86.7 | N/A | N/A |



| MIMO - Chain 0, VHT20, MCS8, Mid Channel 6, 2437 MHz | | | | | | |
|--|-------------|--------|------------------|-----------|-----------|---------|
| | Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results |
| | N/A | N/A | 5 | N/A | N/A | N/A |

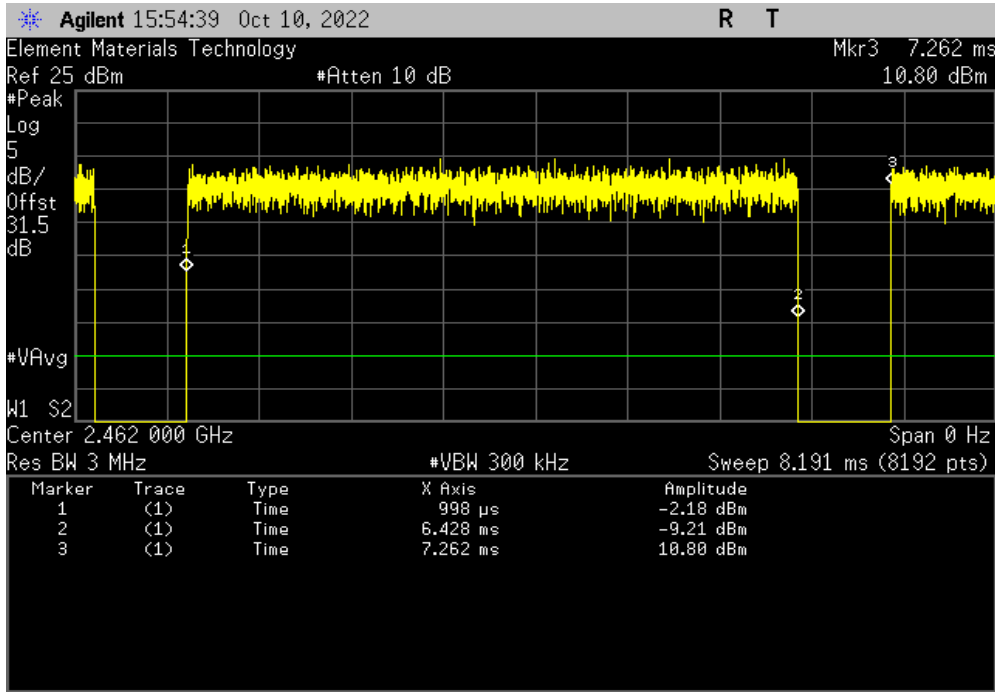


DUTY CYCLE - MIMO

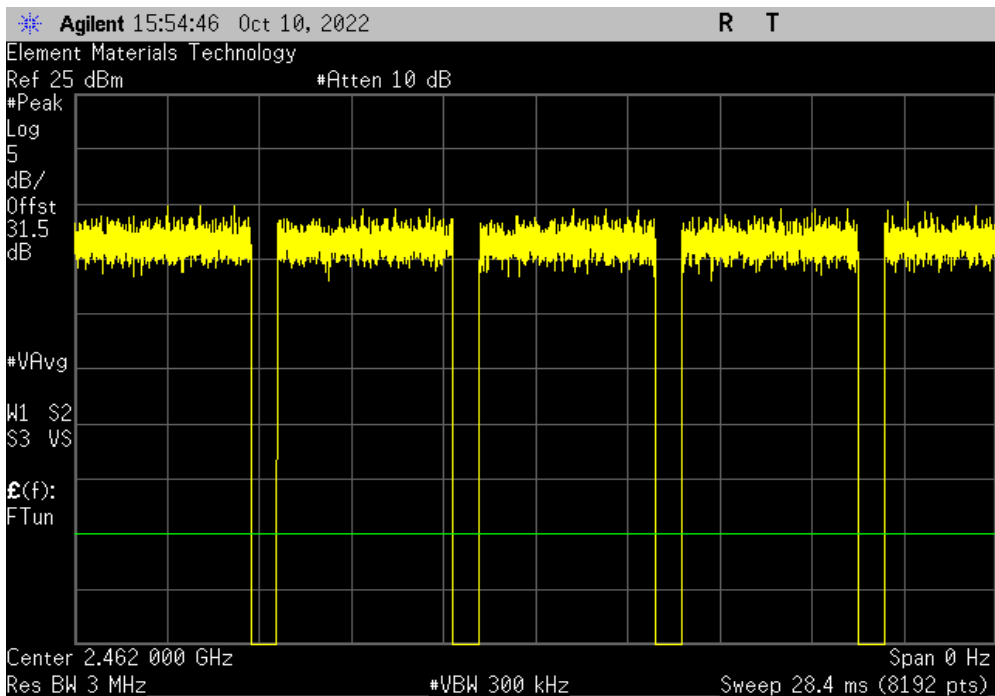


TuTx 2022.06.03.0 XMt 2023.02.14.0

| MIMO - Chain 0, VHT20, MCS8, High Channel 11, 2462 MHz | | | | | | |
|--|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 5.43 ms | 6.264 ms | 1 | 86.7 | N/A | N/A | |



| MIMO - Chain 0, VHT20, MCS8, High Channel 11, 2462 MHz | | | | | | |
|--|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |

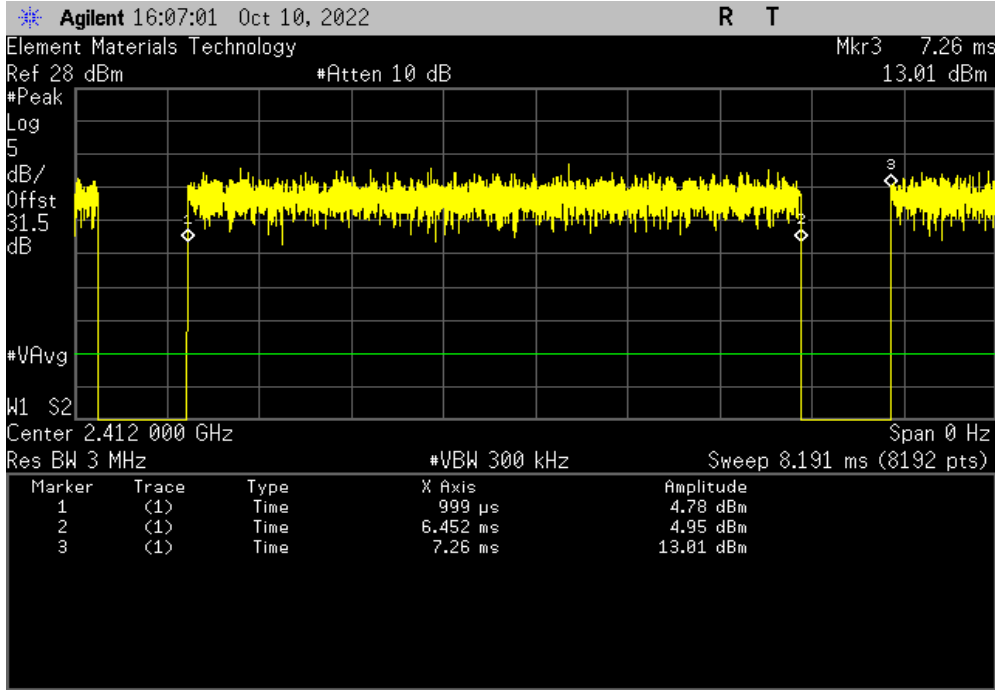


DUTY CYCLE - MIMO

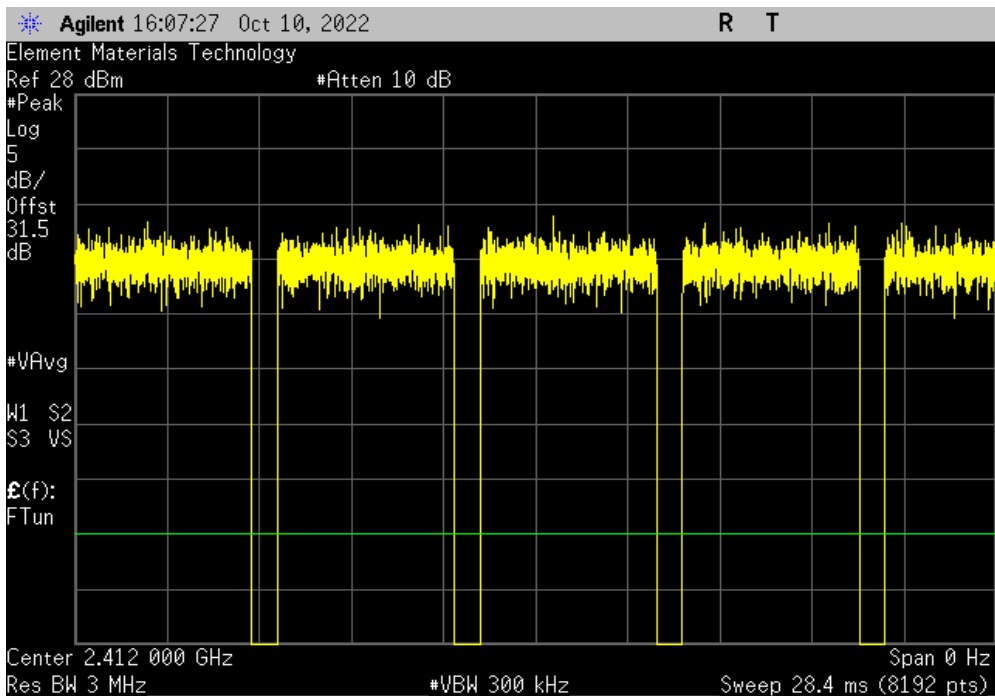


TbTx 2022.06.03.0 XMI 2023.02.14.0

| MIMO - Chain 0, HE20, MCS0, Low Channel 1, 2412 MHz | | | | | | |
|---|-------------|----------|------------------|-----------|-----------|---------|
| | Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results |
| | 5.453 ms | 6.261 ms | 1 | 87.1 | N/A | N/A |



| MIMO - Chain 0, HE20, MCS0, Low Channel 1, 2412 MHz | | | | | | |
|---|-------------|--------|------------------|-----------|-----------|---------|
| | Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results |
| | N/A | N/A | 5 | N/A | N/A | N/A |

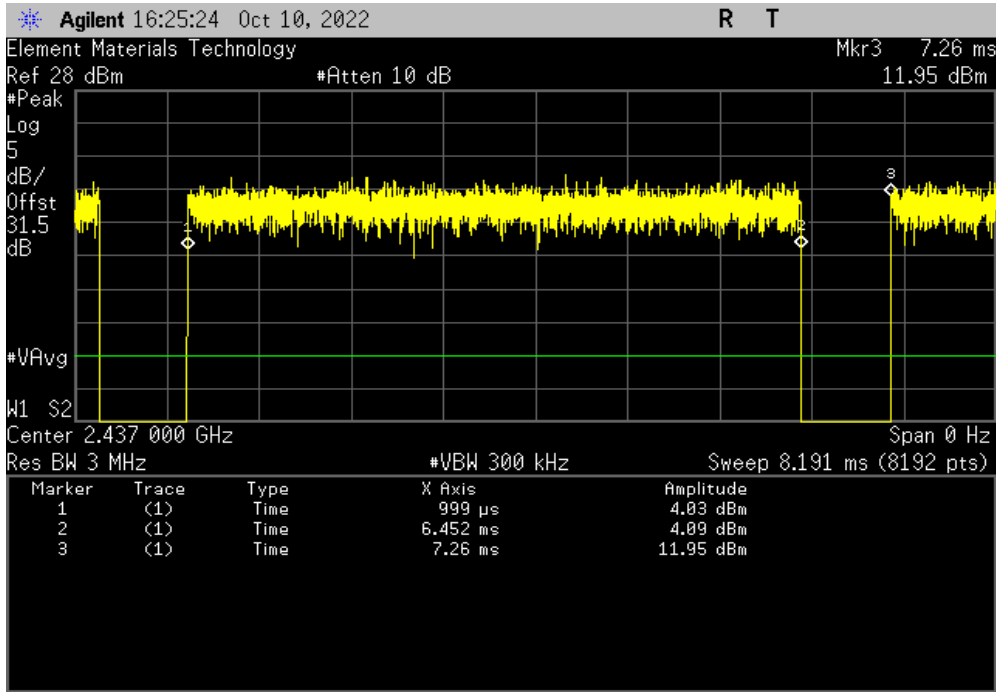


DUTY CYCLE - MIMO

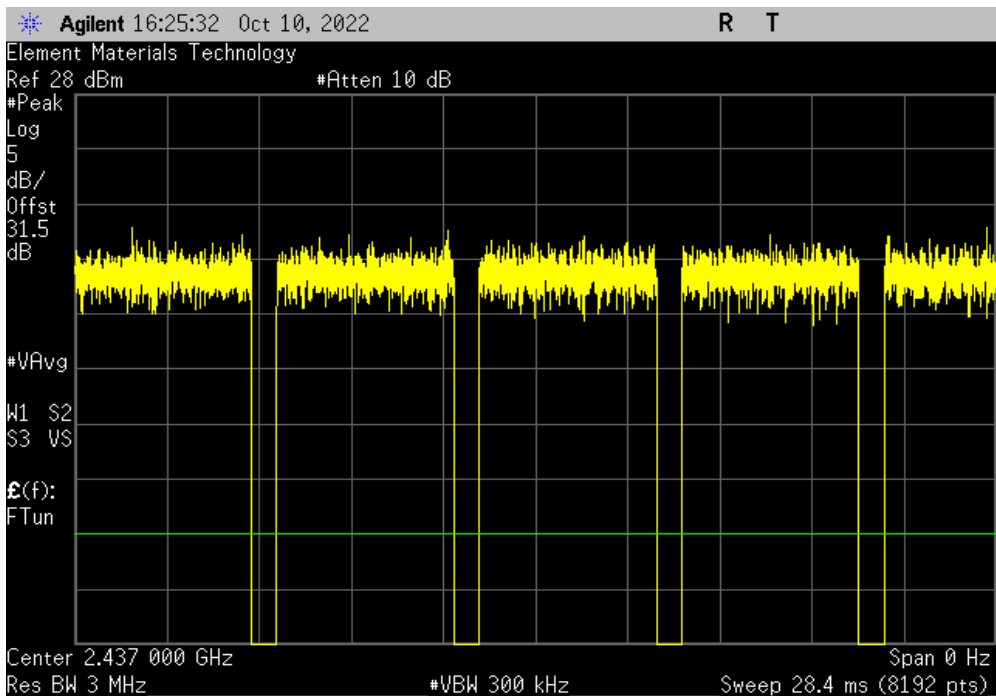


TbTx 2022.06.03.0 XMI 2023.02.14.0

| MIMO - Chain 0, HE20, MCS0, Mid Channel 6, 2437 MHz | | | | | | |
|---|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 5.453 ms | 6.261 ms | 1 | 87.1 | N/A | N/A | |



| MIMO - Chain 0, HE20, MCS0, Mid Channel 6, 2437 MHz | | | | | | |
|---|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |

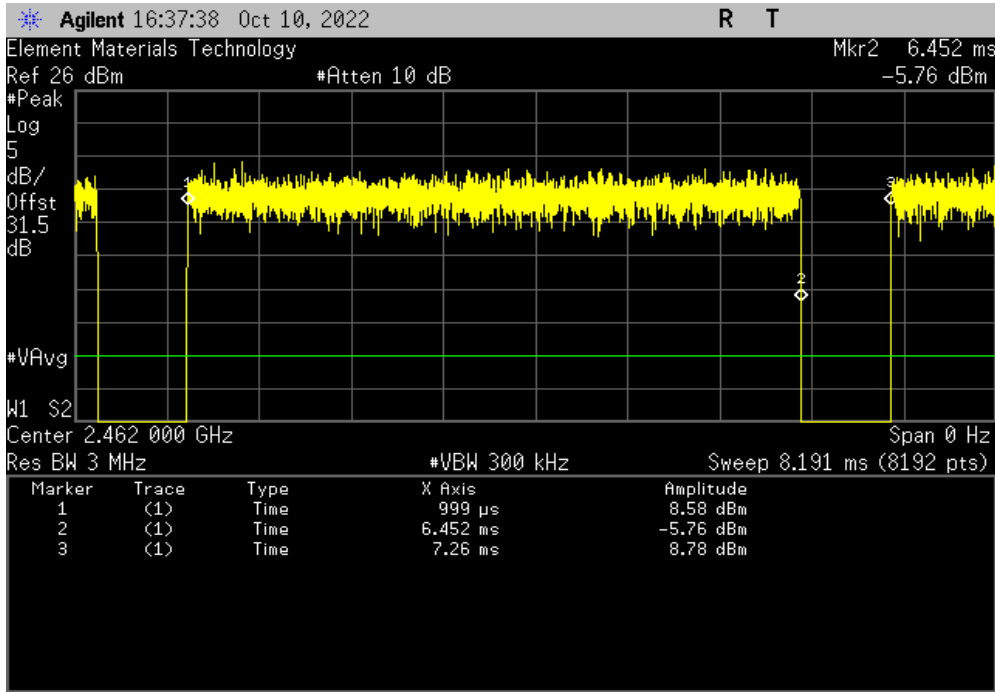


DUTY CYCLE - MIMO

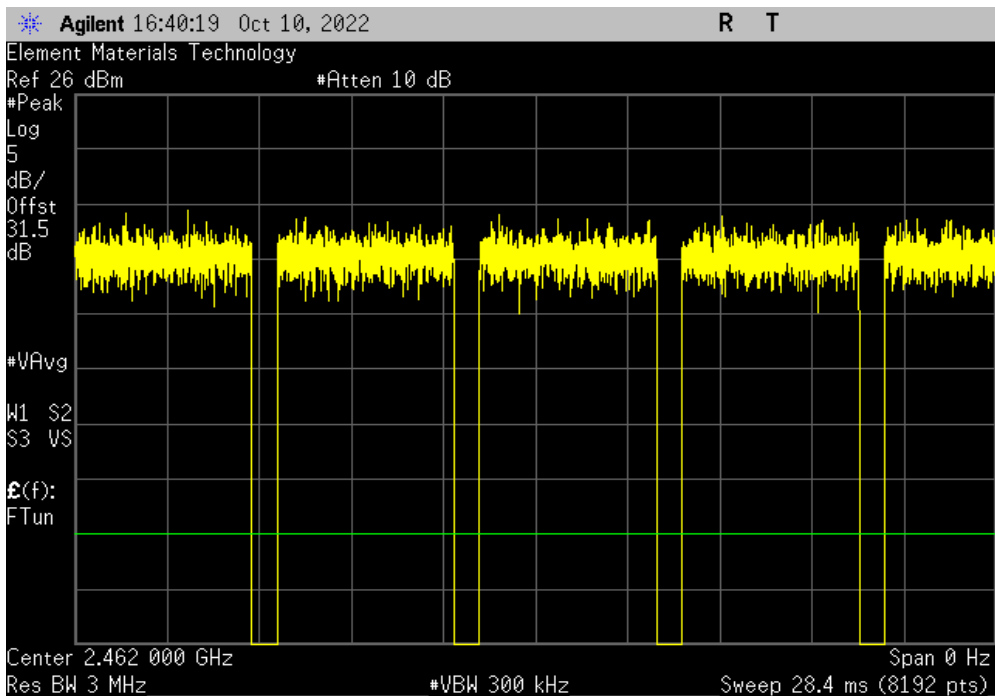


TuTx 2022.06.03.0 XMt 2023.02.14.0

| MIMO - Chain 0, HE20, MCS0, High Channel 11, 2462 MHz | | | | | | |
|---|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 5.453 ms | 6.261 ms | 1 | 87.1 | N/A | N/A | |



| MIMO - Chain 0, HE20, MCS0, High Channel 11, 2462 MHz | | | | | | |
|---|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |

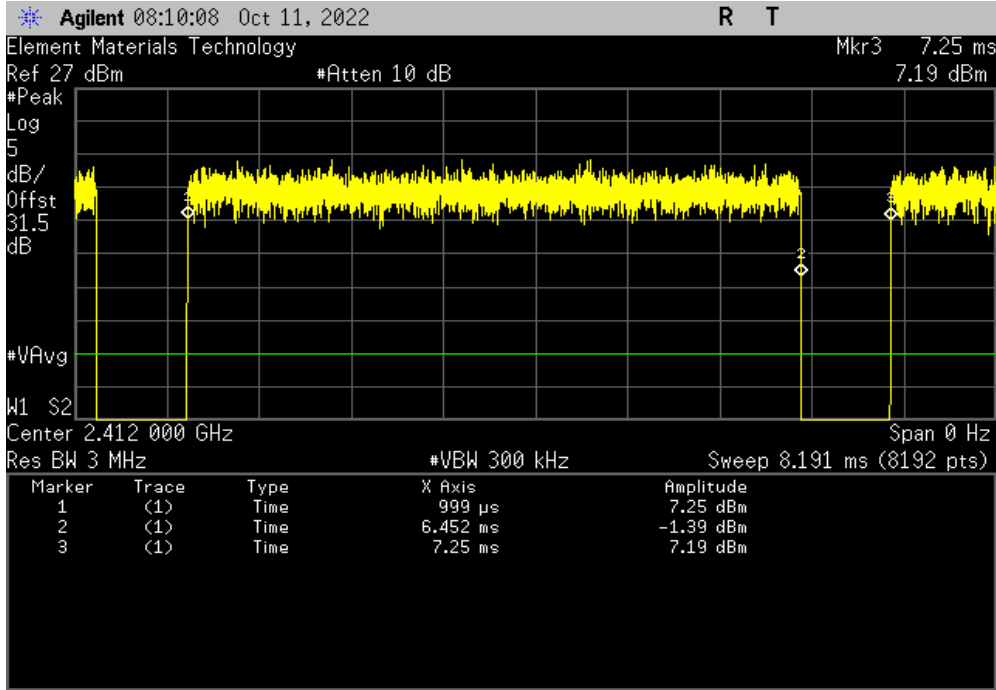


DUTY CYCLE - MIMO

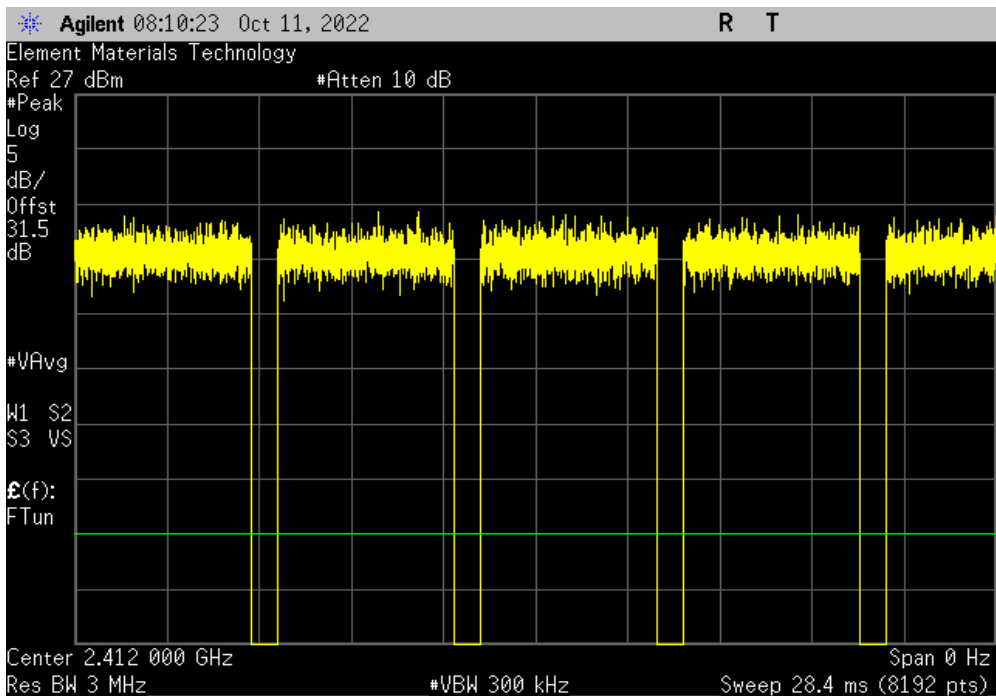


TbTx 2022.06.03.0 XMI 2023.02.14.0

| MIMO - Chain 0, HE20, MCS11, Low Channel 1, 2412 MHz | | | | | | |
|--|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 5.453 ms | 6.251 ms | 1 | 87.2 | N/A | N/A | |



| MIMO - Chain 0, HE20, MCS11, Low Channel 1, 2412 MHz | | | | | | |
|--|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |

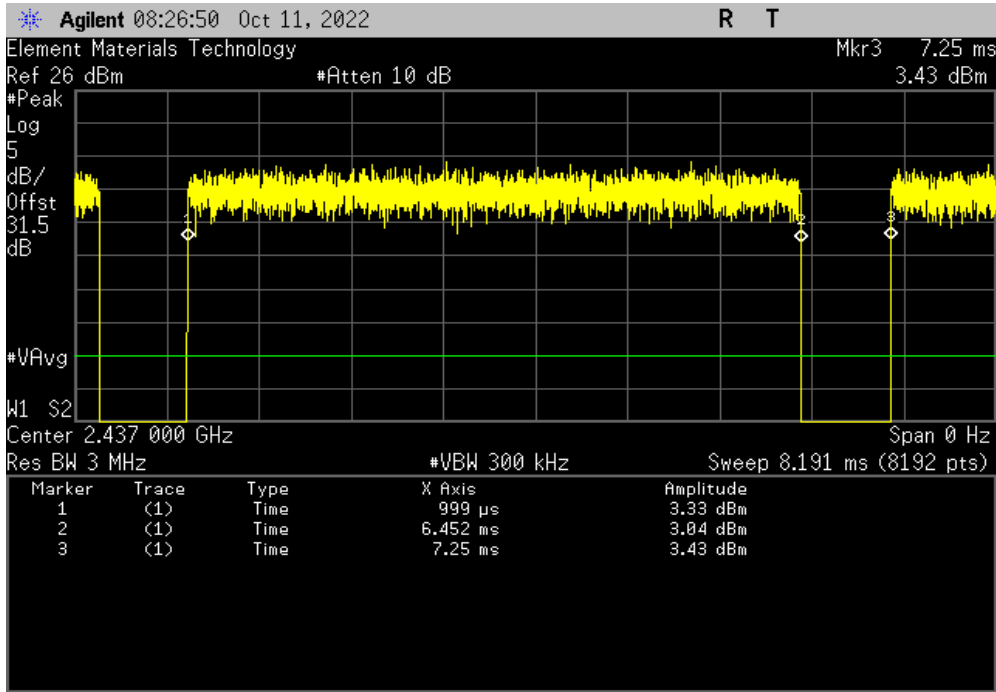


DUTY CYCLE - MIMO

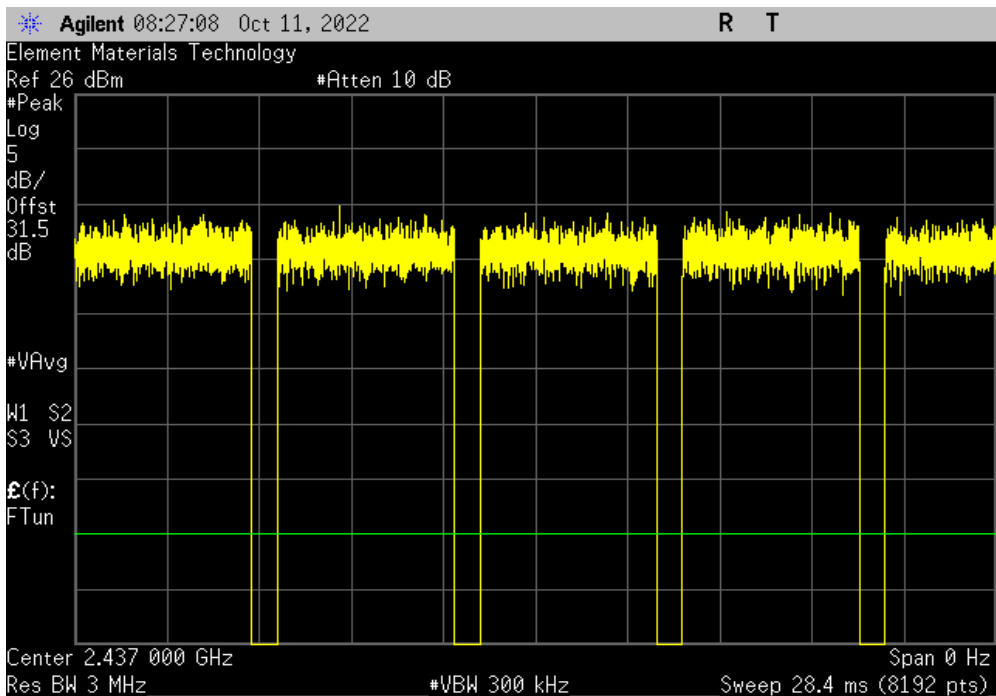


TbTx 2022.06.03.0 XMI 2023.02.14.0

| MIMO - Chain 0, HE20, MCS11, Mid Channel 6, 2437 MHz | | | | | | |
|--|-------------|----------|------------------|-----------|-----------|---------|
| | Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results |
| | 5.453 ms | 6.251 ms | 1 | 87.2 | N/A | N/A |



| MIMO - Chain 0, HE20, MCS11, Mid Channel 6, 2437 MHz | | | | | | |
|--|-------------|--------|------------------|-----------|-----------|---------|
| | Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results |
| | N/A | N/A | 5 | N/A | N/A | N/A |

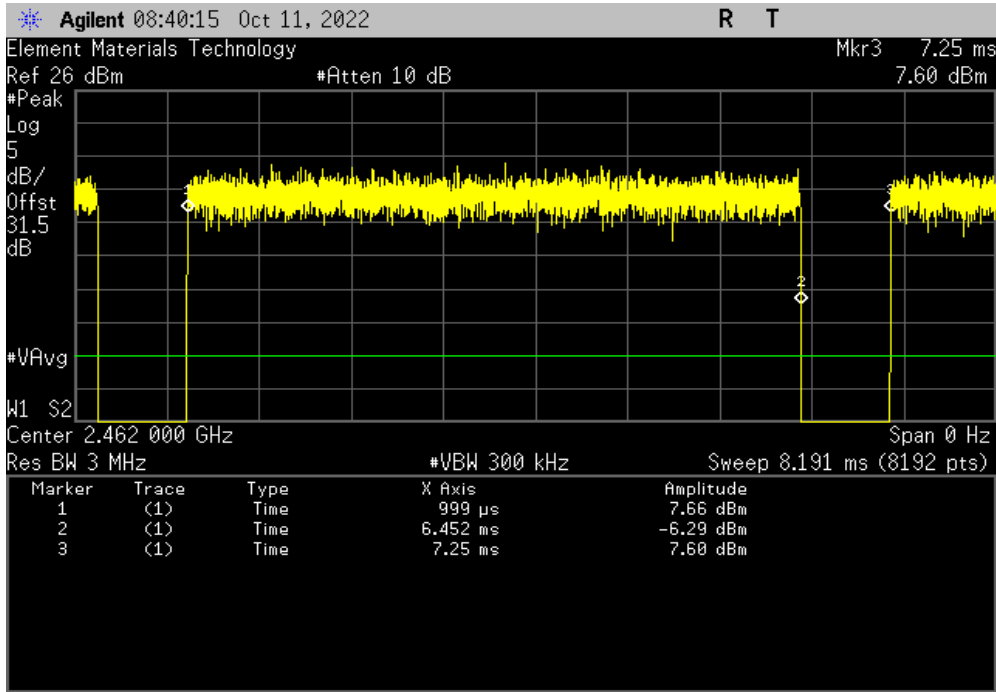


DUTY CYCLE - MIMO

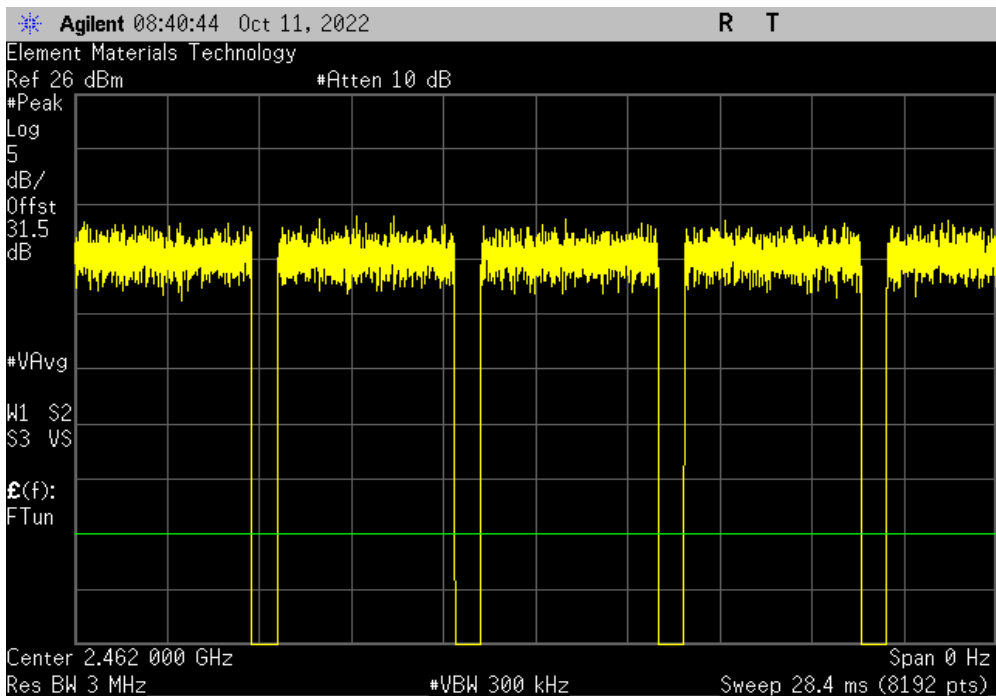


TuTx 2022.06.03.0 XMt 2023.02.14.0

| MIMO - Chain 0, HE20, MCS11, High Channel 11, 2462 MHz | | | | | | |
|--|----------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| 5.453 ms | 6.251 ms | 1 | 87.2 | N/A | N/A | |



| MIMO - Chain 0, HE20, MCS11, High Channel 11, 2462 MHz | | | | | | |
|--|--------|------------------|-----------|-----------|---------|--|
| Pulse Width | Period | Number of Pulses | Value (%) | Limit (%) | Results | |
| N/A | N/A | 5 | N/A | N/A | N/A | |



DTS BANDWIDTH - CHAIN 0



XMit 2022.02.07.0

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 | Keysight | N5182B | TFU | 2020-11-20 | 2022-11-20 |
| Cable | Micro-Coax | UFD150A-1-0720-200200 | EVI | 2021-12-05 | 2022-12-05 |
| Attenuator | S.M. Electronics | SA26B-10 | AWR | 2022-07-05 | 2023-07-05 |
| Attenuator | S.M. Electronics | SA26B-20 | AUY | 2022-03-15 | 2023-03-15 |
| Block - DC | Fairview Microwave | SD3379 | AMW | 2022-03-14 | 2023-03-14 |
| Analyzer - Spectrum Analyzer | Agilent | E4440A | AAW | 2022-01-26 | 2023-01-26 |

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 DTS bandwidth was measured using 100 kHz resolution bandwidth and 300 kHz video bandwidth. The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts.

DTS BANDWIDTH - CHAIN 0



TbTx 2022.06.03.0 XMit 2022.02.07.0

| | | | |
|--|----------------|--------------------|-----------|
| EUT: | U8 Hawk | Work Order: | KYME0068 |
| Serial Number: | 192F-85E2-1761 | Date: | 6-Oct-22 |
| Customer: | Kymeta Corp. | Temperature: | 21.8 °C |
| Attendees: | Dean Busch | Humidity: | 44.2% RH |
| Project: | None | Barometric Pres.: | 1025 mbar |
| Tested by: | Jeff Alcoke | Power: | 12 VDC |
| | | Job Site: | EV06 |
| TEST SPECIFICATIONS | | Test Method | |
| FCC 15.247:2022 | | ANSI C63.10:2013 | |
| RSS-247 Issue 2:2017 | | ANSI C63.10:2013 | |
| COMMENTS | | | |
| Reference level offset includes: DC Block, 30 dB attenuation, and measurement cable. | | | |
| DEVIATIONS FROM TEST STANDARD | | | |
| None | | | |
| Configuration # | 1 | Signature | |

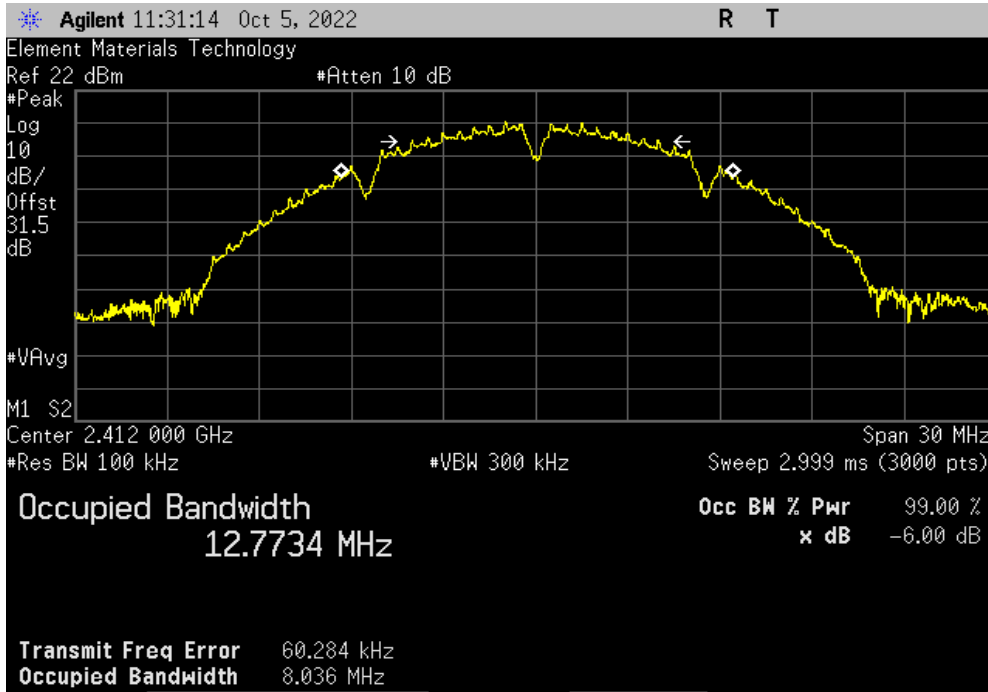
| | Value | Limit (>) | Result |
|---------------------------|------------|--------------|--------|
| Chain 0 | | | |
| CCK, 1 Mbps | | | |
| Low Channel 1, 2412 MHz | 8.036 MHz | 500 kHz | Pass |
| Mid Channel 6, 2437 MHz | 7.104 MHz | 500 kHz | Pass |
| High Channel 11, 2462 MHz | 8.529 MHz | 500 kHz | Pass |
| CCK, 11 Mbps | | | |
| Low Channel 1, 2412 MHz | 7.557 MHz | 500 kHz | Pass |
| Mid Channel 6, 2437 MHz | 7.573 MHz | 500 kHz | Pass |
| High Channel 11, 2462 MHz | 8.136 MHz | 500 kHz | Pass |
| Legacy OFDM, 6 Mbps | | | |
| Low Channel 1, 2412 MHz | 15.748 MHz | 500 kHz | Pass |
| Mid Channel 6, 2437 MHz | 15.464 MHz | 500 kHz | Pass |
| High Channel 11, 2462 MHz | 15.938 MHz | 500 kHz | Pass |
| Legacy OFDM, 36 Mbps | | | |
| Low Channel 1, 2412 MHz | 16.427 MHz | 500 kHz | Pass |
| Mid Channel 6, 2437 MHz | 16.451 MHz | 500 kHz | Pass |
| High Channel 11, 2462 MHz | 16.438 MHz | 500 kHz | Pass |
| Legacy OFDM, 54 Mbps | | | |
| Low Channel 1, 2412 MHz | 16.462 MHz | 500 kHz | Pass |
| Mid Channel 6, 2437 MHz | 16.463 MHz | 500 kHz | Pass |
| High Channel 11, 2462 MHz | 16.5 MHz | 500 kHz | Pass |
| HT20, MCS0 | | | |
| Low Channel 1, 2412 MHz | 16.984 MHz | 500 kHz | Pass |
| Mid Channel 6, 2437 MHz | 16.17 MHz | 500 kHz | Pass |
| High Channel 11, 2462 MHz | 16.281 MHz | 500 kHz | Pass |
| HT20, MCS7 | | | |
| Low Channel 1, 2412 MHz | 17.715 MHz | 500 kHz | Pass |
| Mid Channel 6, 2437 MHz | 17.702 MHz | 500 kHz | Pass |
| High Channel 11, 2462 MHz | 17.755 MHz | 500 kHz | Pass |
| VHT20, MCS0 | | | |
| Low Channel 1, 2412 MHz | 16.67 MHz | 500 kHz | Pass |
| Mid Channel 6, 2437 MHz | 16.348 MHz | 500 kHz | Pass |
| High Channel 11, 2462 MHz | 16.857 MHz | 500 kHz | Pass |
| VHT20, MCS8 | | | |
| Low Channel 1, 2412 MHz | 17.742 MHz | 500 kHz | Pass |
| Mid Channel 6, 2437 MHz | 17.736 MHz | 500 kHz | Pass |
| High Channel 11, 2462 MHz | 17.791 MHz | 500 kHz | Pass |
| HE20, MCS0 | | | |
| Low Channel 1, 2412 MHz | 17.74 MHz | 500 kHz | Pass |
| Mid Channel 6, 2437 MHz | 15.849 MHz | 500 kHz | Pass |
| High Channel 11, 2462 MHz | 17.167 MHz | 500 kHz | Pass |
| HE20, MCS11 | | | |
| Low Channel 1, 2412 MHz | 19.065 MHz | 500 kHz | Pass |
| Mid Channel 6, 2437 MHz | 19.023 MHz | 500 kHz | Pass |
| High Channel 11, 2462 MHz | 19.101 MHz | 500 kHz | Pass |

DTS BANDWIDTH - CHAIN 0

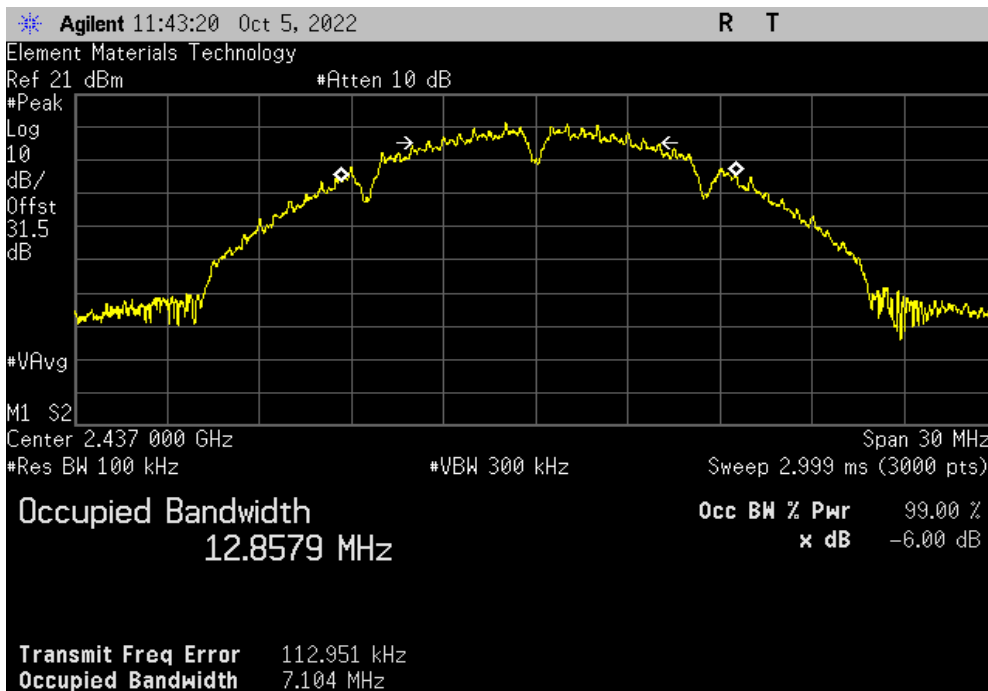


TuTx 2022.06.03.0 XMi 2022.02.07.0

| Chain 0, CCK, 1 Mbps, Low Channel 1, 2412 MHz | | | | | | |
|---|--|--|--|-----------|-----------|--------|
| | | | | Value | Limit (>) | Result |
| | | | | 8.036 MHz | 500 kHz | Pass |



| Chain 0, CCK, 1 Mbps, Mid Channel 6, 2437 MHz | | | | | | |
|---|--|--|--|-----------|-----------|--------|
| | | | | Value | Limit (>) | Result |
| | | | | 7.104 MHz | 500 kHz | Pass |



DTS BANDWIDTH - CHAIN 0

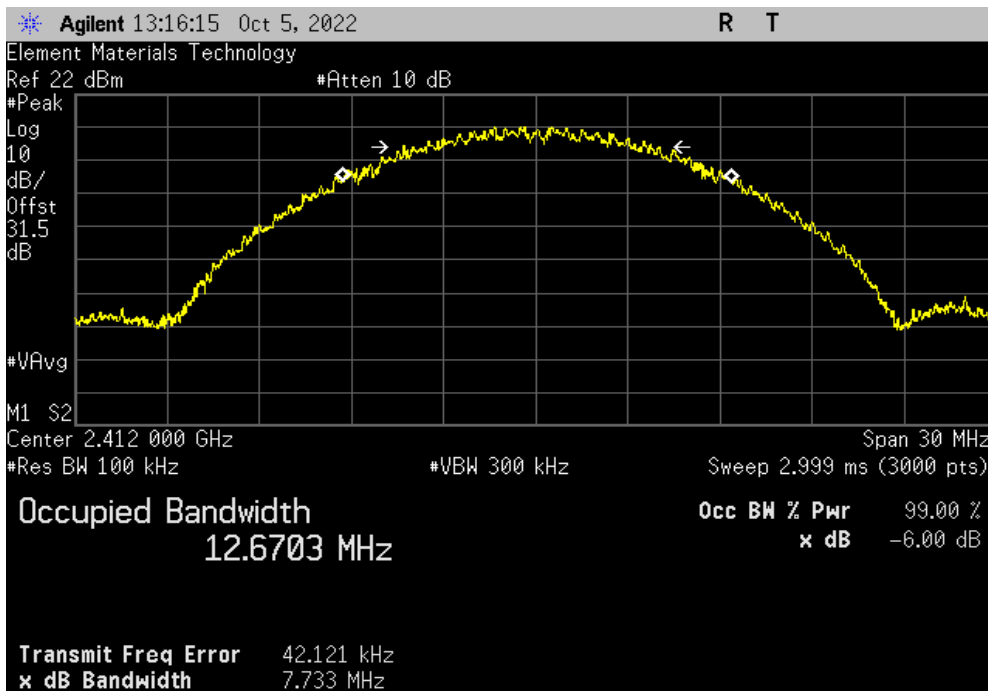


TuTx 2022.06.03.0 XMi 2022.02.07.0

| Chain 0, CCK, 1 Mbps, High Channel 11, 2462 MHz | | | |
|---|-----------|-----------|--------|
| | Value | Limit (>) | Result |
| | 8.529 MHz | 500 kHz | Pass |



| Chain 0, CCK, 11 Mbps, Low Channel 1, 2412 MHz | | | |
|--|-----------|-----------|--------|
| | Value | Limit (>) | Result |
| | 7.557 MHz | 500 kHz | Pass |

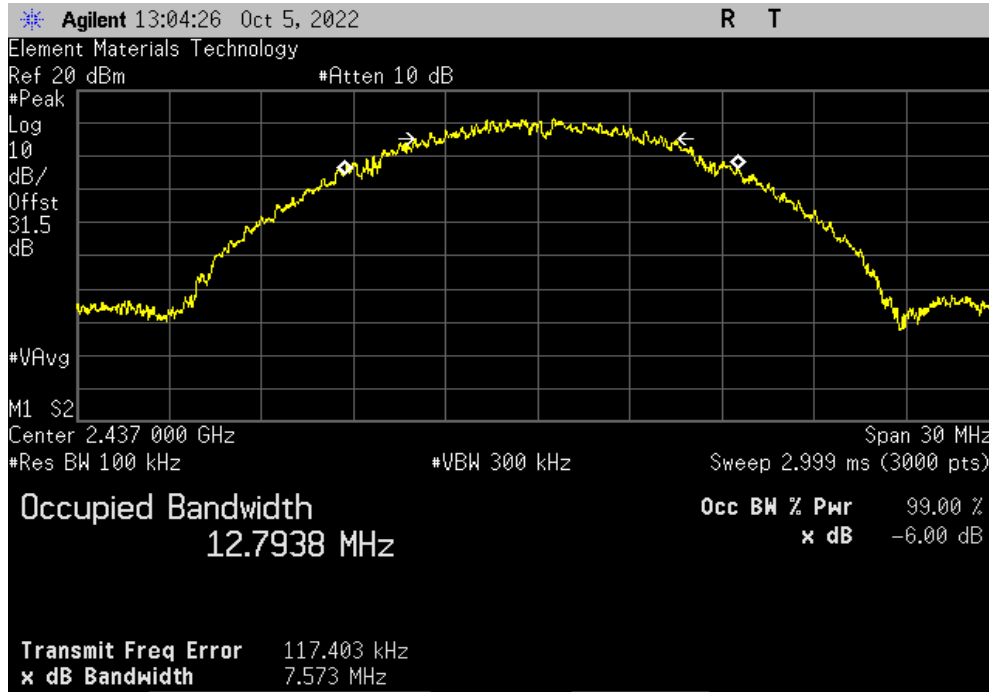


DTS BANDWIDTH - CHAIN 0

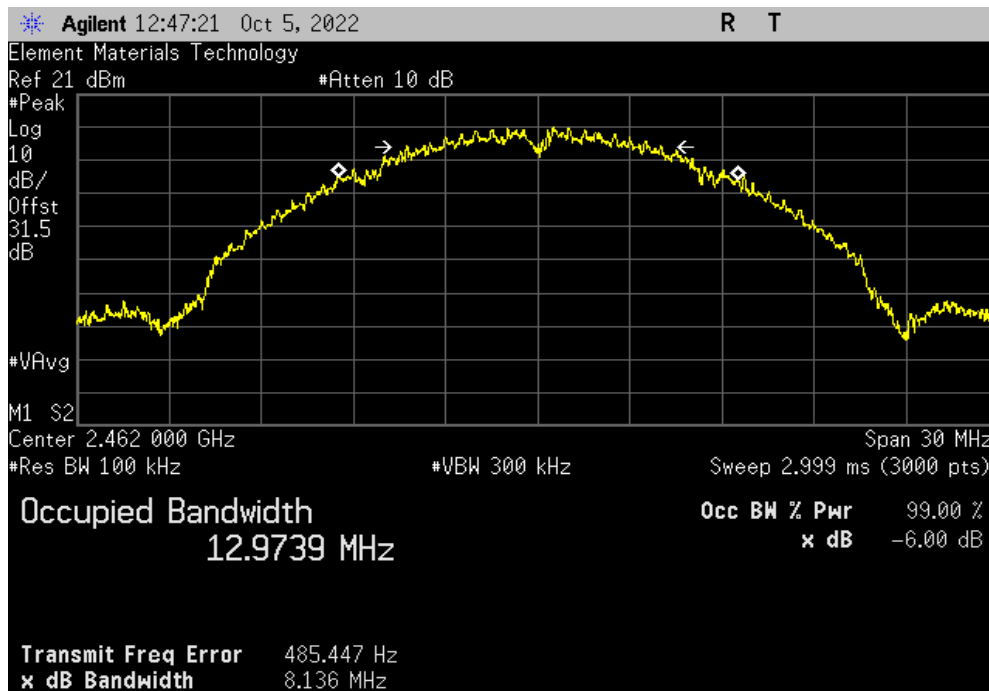


TuTx 2022.06.03.0 XMi 2022.02.07.0

| Chain 0, CCK, 11 Mbps, Mid Channel 6, 2437 MHz | | | |
|--|-----------|-----------|--------|
| | Value | Limit (>) | Result |
| | 7.573 MHz | 500 kHz | Pass |



| Chain 0, CCK, 11 Mbps, High Channel 11, 2462 MHz | | | |
|--|-----------|-----------|--------|
| | Value | Limit (>) | Result |
| | 8.136 MHz | 500 kHz | Pass |

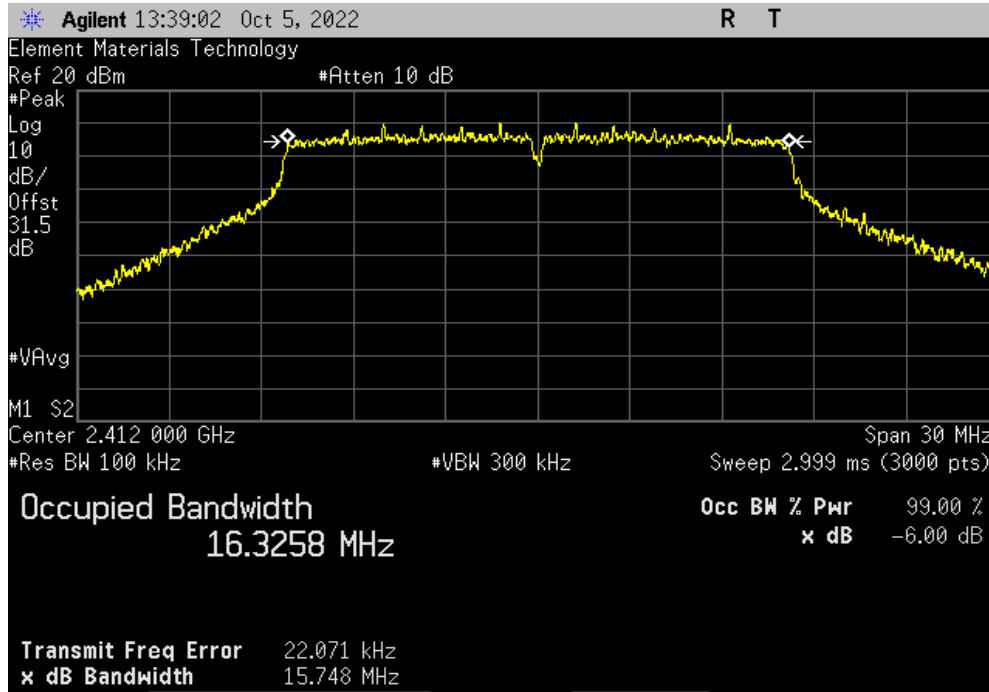


DTS BANDWIDTH - CHAIN 0

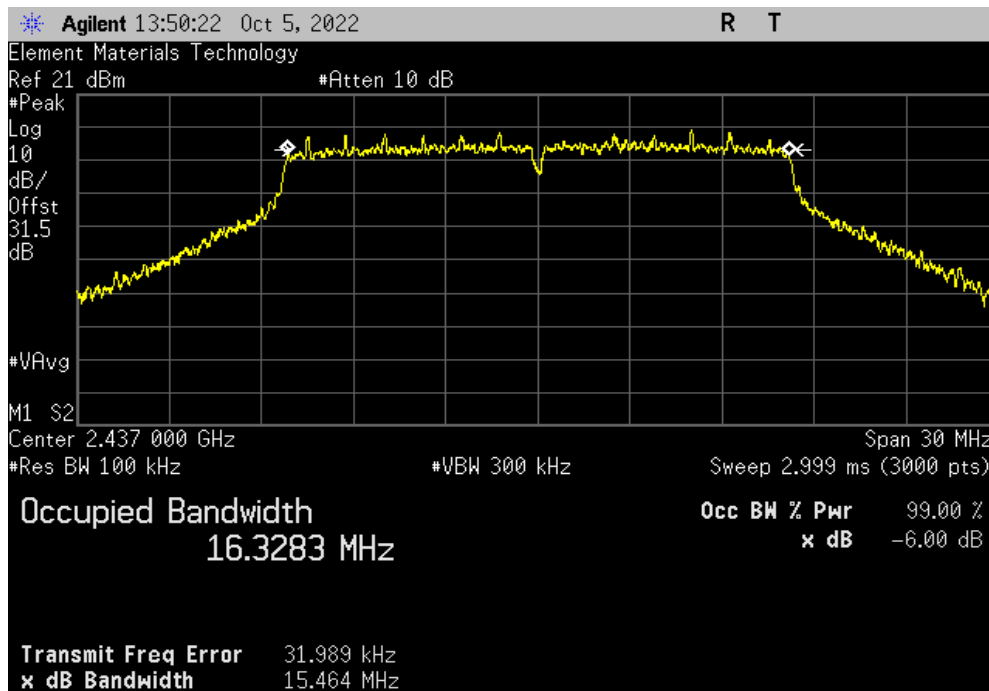


TuTx 2022.06.03.0 XMi 2022.02.07.0

| Chain 0, Legacy OFDM, 6 Mbps, Low Channel 1, 2412 MHz | | | |
|---|------------|-----------|--------|
| | Value | Limit (>) | Result |
| | 15.748 MHz | 500 kHz | Pass |



| Chain 0, Legacy OFDM, 6 Mbps, Mid Channel 6, 2437 MHz | | | |
|---|------------|-----------|--------|
| | Value | Limit (>) | Result |
| | 15.464 MHz | 500 kHz | Pass |

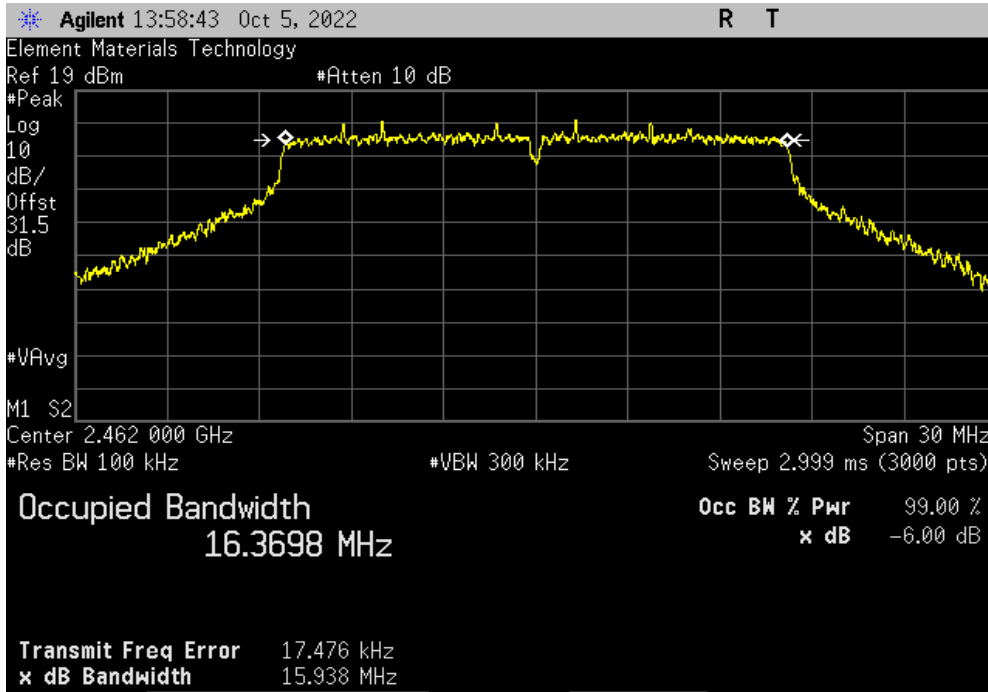


DTS BANDWIDTH - CHAIN 0

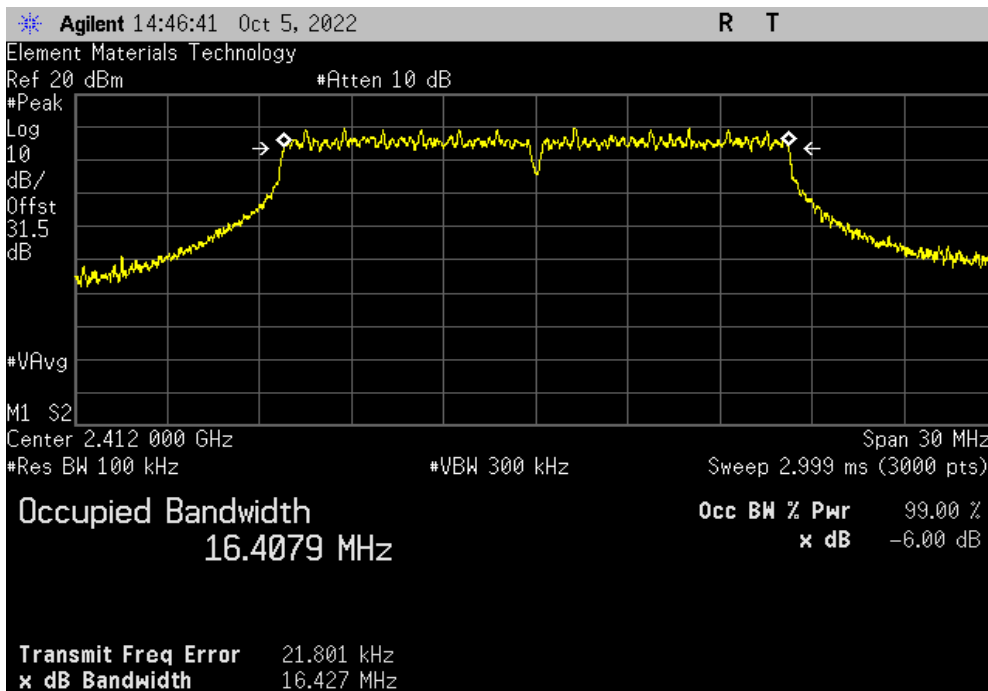


TuTx 2022.06.03.0 XMi 2022.02.07.0

| Chain 0, Legacy OFDM, 6 Mbps, High Channel 11, 2462 MHz | | | |
|---|------------|-----------|--------|
| | Value | Limit (>) | Result |
| | 15.938 MHz | 500 kHz | Pass |



| Chain 0, Legacy OFDM, 36 Mbps, Low Channel 1, 2412 MHz | | | |
|--|------------|-----------|--------|
| | Value | Limit (>) | Result |
| | 16.427 MHz | 500 kHz | Pass |

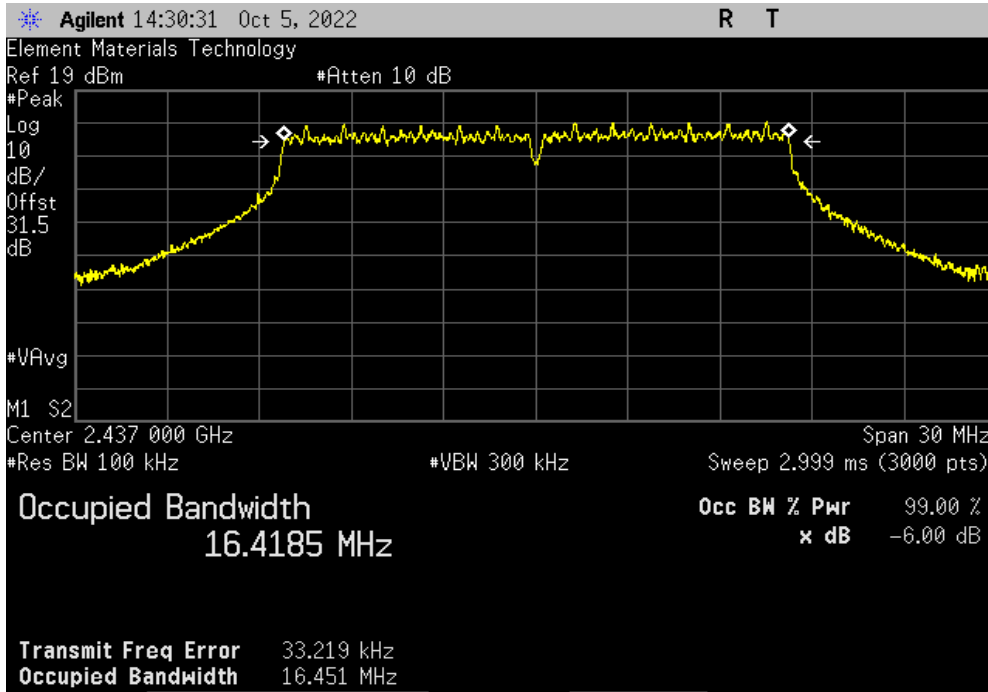


DTS BANDWIDTH - CHAIN 0

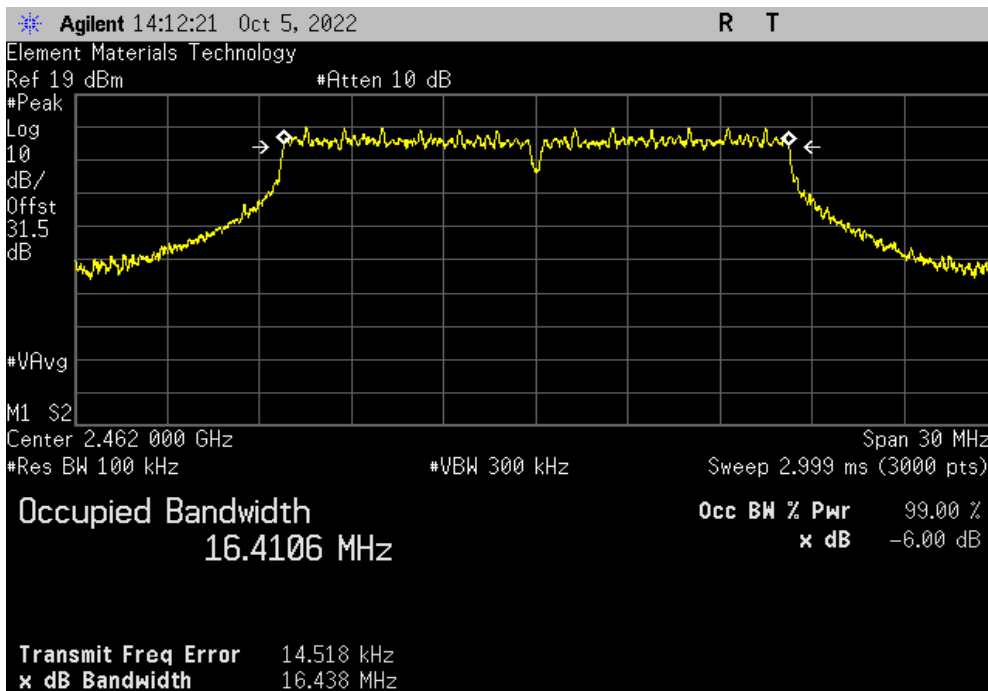


TuTx 2022.06.03.0 XMi 2022.02.07.0

| Chain 0, Legacy OFDM, 36 Mbps, Mid Channel 6, 2437 MHz | | | |
|--|------------|-----------|--------|
| | Value | Limit (>) | Result |
| | 16.451 MHz | 500 kHz | Pass |



| Chain 0, Legacy OFDM, 36 Mbps, High Channel 11, 2462 MHz | | | |
|--|------------|-----------|--------|
| | Value | Limit (>) | Result |
| | 16.438 MHz | 500 kHz | Pass |

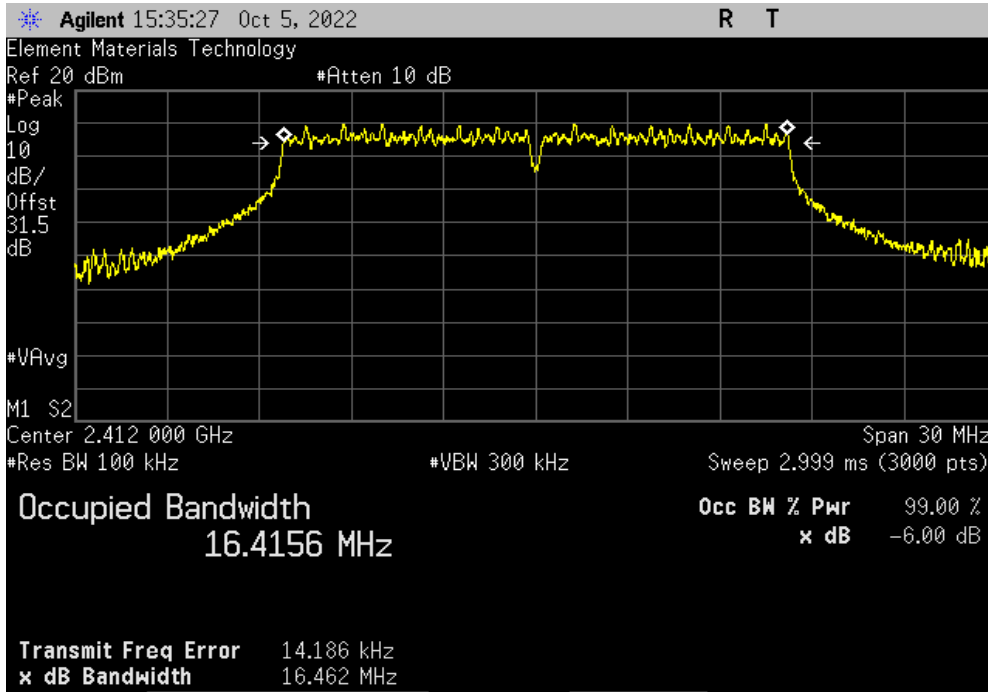


DTS BANDWIDTH - CHAIN 0

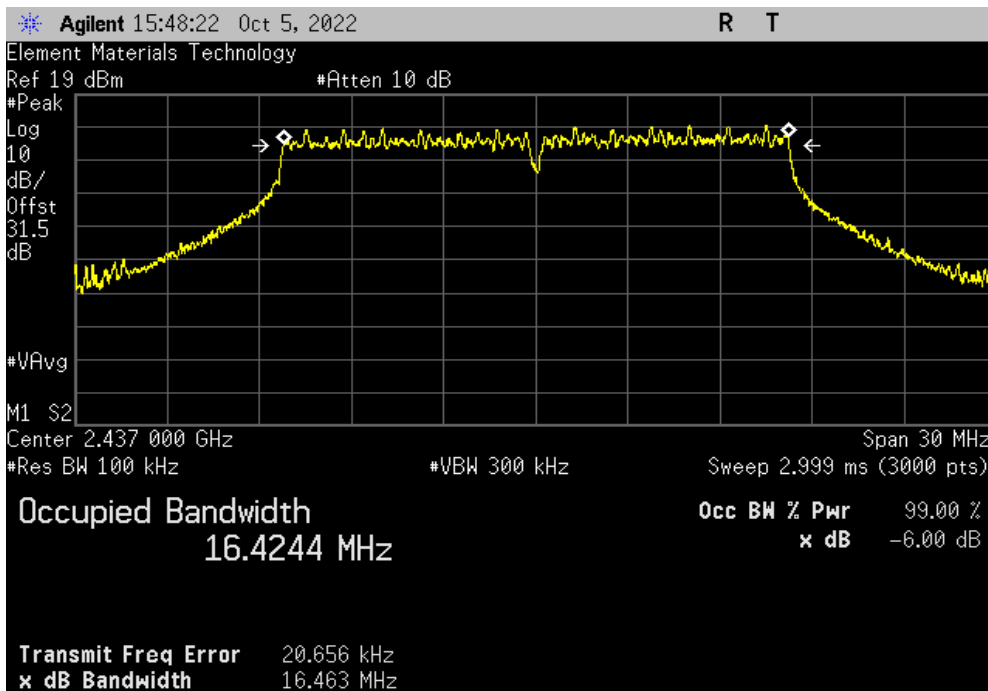


TuTx 2022.06.03.0 XMi 2022.02.07.0

| Chain 0, Legacy OFDM, 54 Mbps, Low Channel 1, 2412 MHz | | | |
|--|------------|-----------|--------|
| | Value | Limit (>) | Result |
| | 16.462 MHz | 500 kHz | Pass |



| Chain 0, Legacy OFDM, 54 Mbps, Mid Channel 6, 2437 MHz | | | |
|--|------------|-----------|--------|
| | Value | Limit (>) | Result |
| | 16.463 MHz | 500 kHz | Pass |

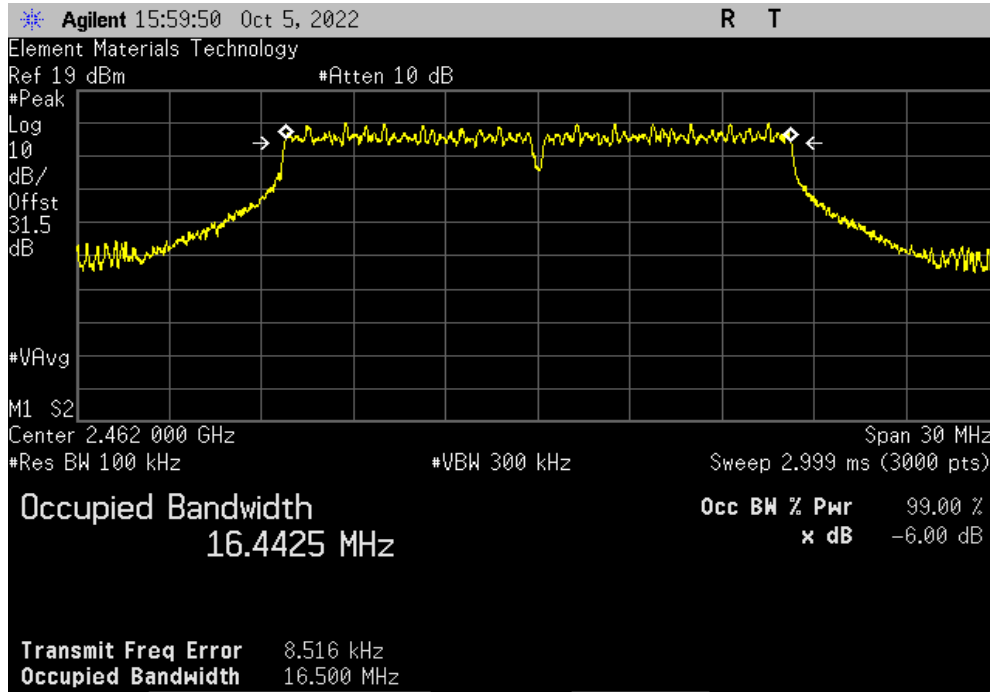


DTS BANDWIDTH - CHAIN 0

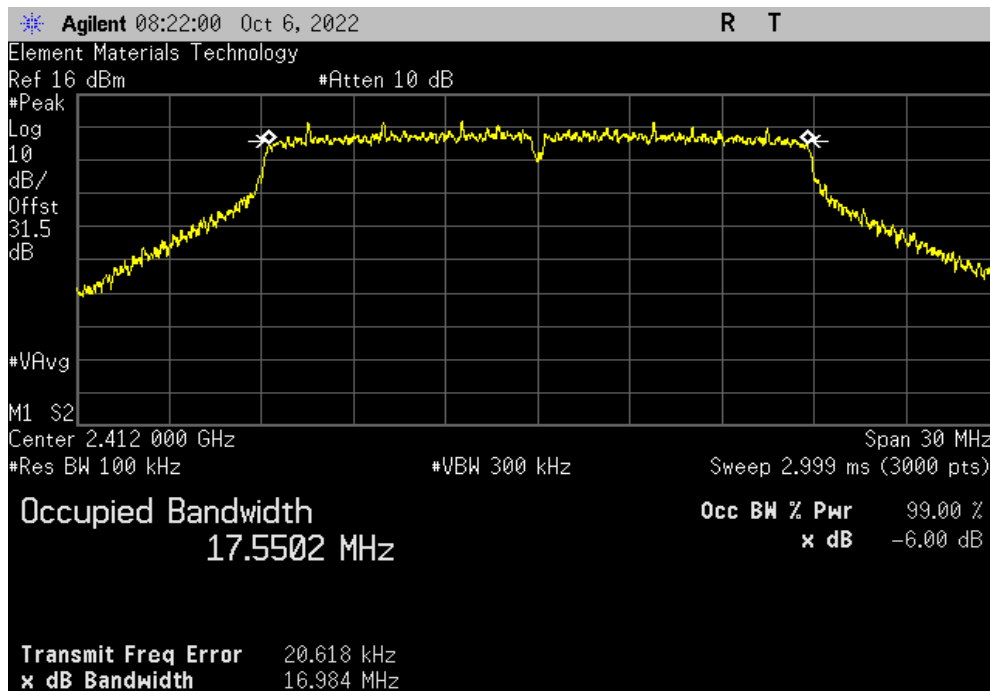


TuTx 2022.06.03.0 XMi 2022.02.07.0

| Chain 0, Legacy OFDM, 54 Mbps, High Channel 11, 2462 MHz | | | |
|--|----------|-----------|--------|
| | Value | Limit (>) | Result |
| | 16.5 MHz | 500 kHz | Pass |



| Chain 0, HT20, MCS0, Low Channel 1, 2412 MHz | | | |
|--|------------|-----------|--------|
| | Value | Limit (>) | Result |
| | 16.984 MHz | 500 kHz | Pass |

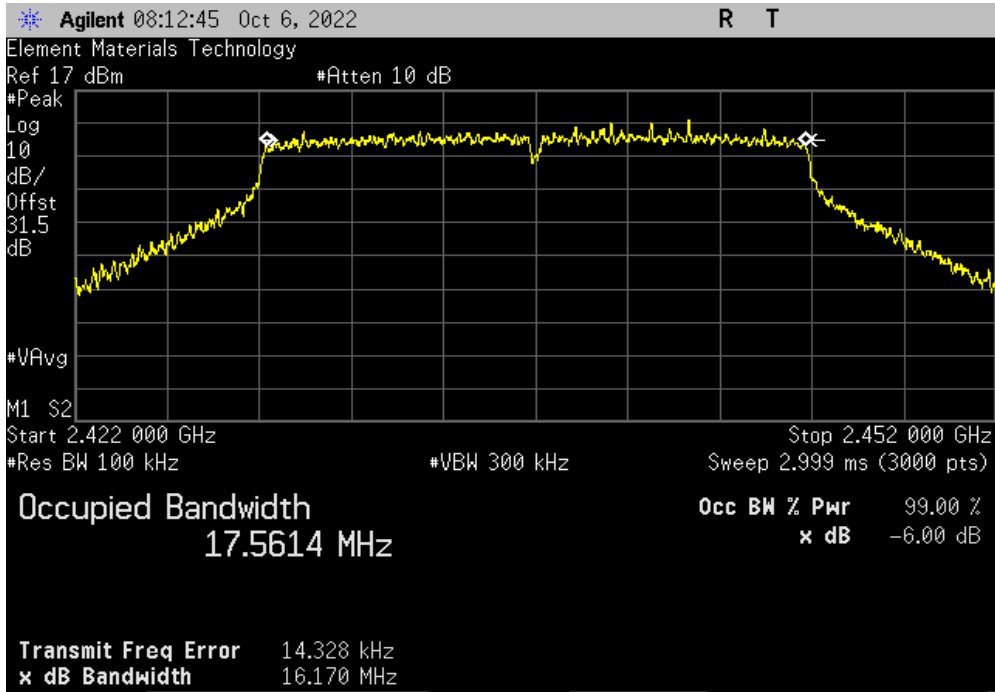


DTS BANDWIDTH - CHAIN 0

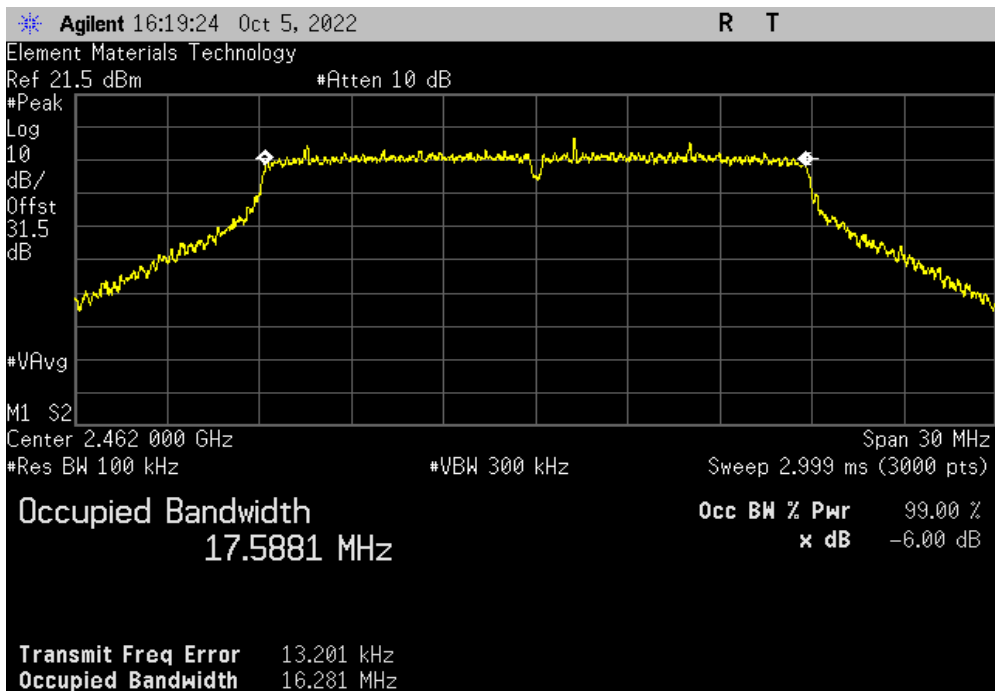


TuTx 2022.06.03.0 XMi 2022.02.07.0

| Chain 0, HT20, MCS0, Mid Channel 6, 2437 MHz | | |
|--|-----------|--------|
| Value | Limit (>) | Result |
| 16.17 MHz | 500 kHz | Pass |



| Chain 0, HT20, MCS0, High Channel 11, 2462 MHz | | |
|--|-----------|--------|
| Value | Limit (>) | Result |
| 16.281 MHz | 500 kHz | Pass |

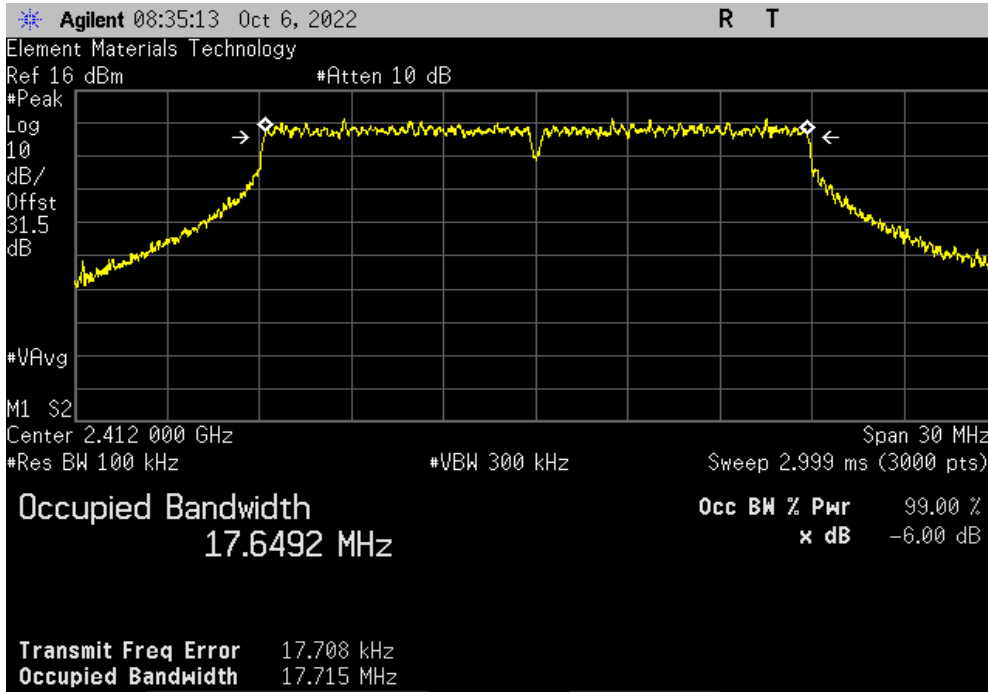


DTS BANDWIDTH - CHAIN 0

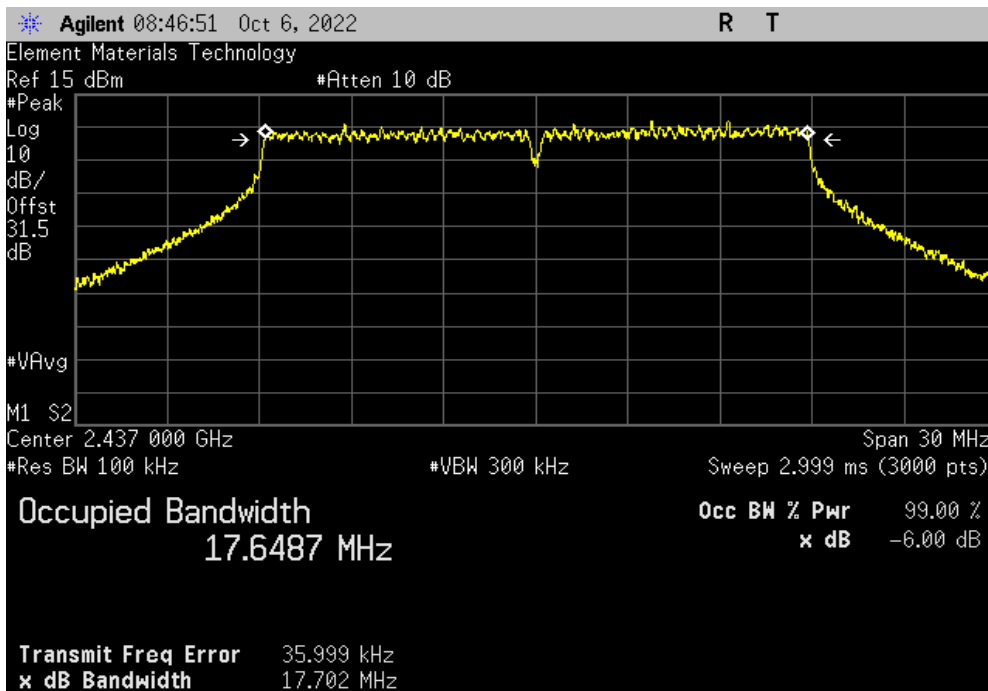


TuTx 2022.06.03.0 XMi 2022.02.07.0

| Chain 0, HT20, MCS7, Low Channel 1, 2412 MHz | | | | | | |
|--|--|--|--|------------|-----------|--------|
| | | | | Value | Limit (>) | Result |
| | | | | 17.715 MHz | 500 kHz | Pass |



| Chain 0, HT20, MCS7, Mid Channel 6, 2437 MHz | | | | | | |
|--|--|--|--|------------|-----------|--------|
| | | | | Value | Limit (>) | Result |
| | | | | 17.702 MHz | 500 kHz | Pass |

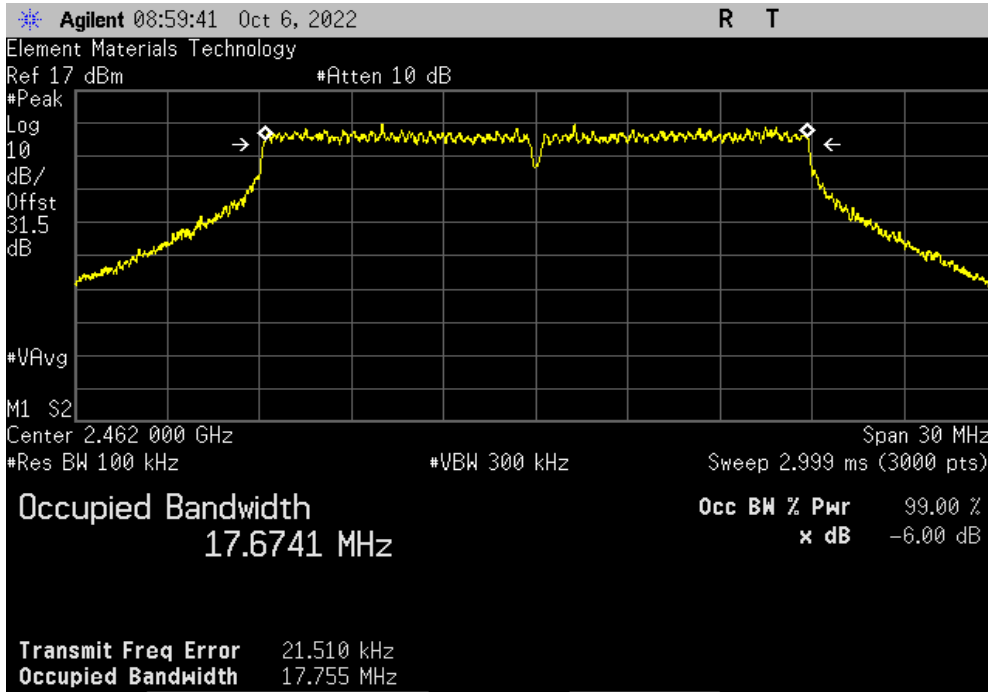


DTS BANDWIDTH - CHAIN 0

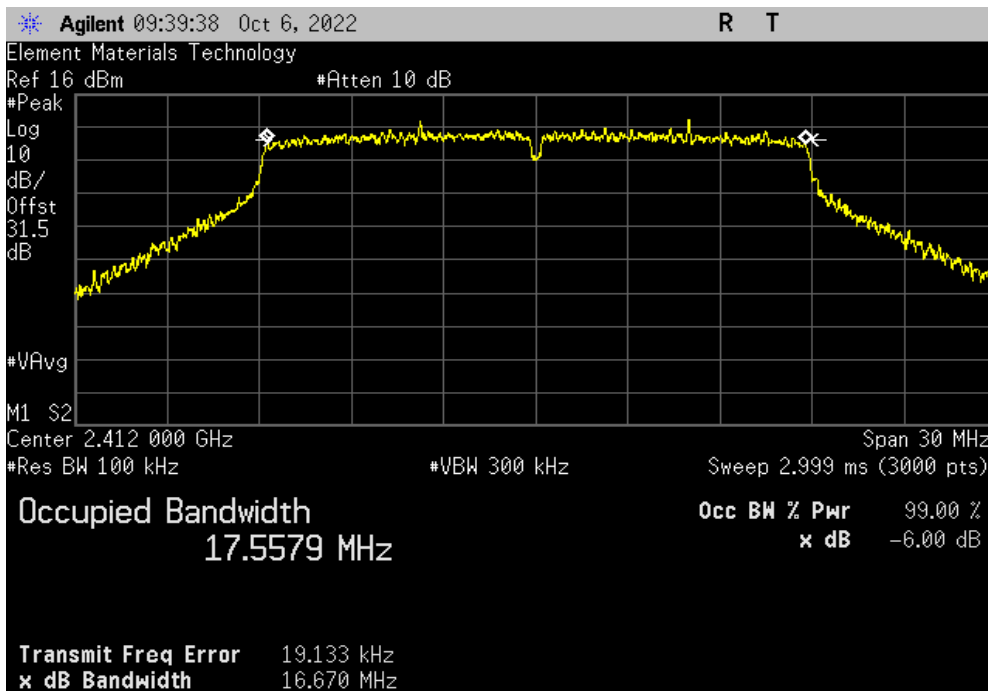


TuTx 2022.06.03.0 XMi 2022.02.07.0

| Chain 0, HT20, MCS7, High Channel 11, 2462 MHz | | | | | | |
|--|--|--|--|------------|-----------|--------|
| | | | | Value | Limit (>) | Result |
| | | | | 17.755 MHz | 500 kHz | Pass |



| Chain 0, VHT20, MCS0, Low Channel 1, 2412 MHz | | | | | | |
|---|--|--|--|-----------|-----------|--------|
| | | | | Value | Limit (>) | Result |
| | | | | 16.67 MHz | 500 kHz | Pass |

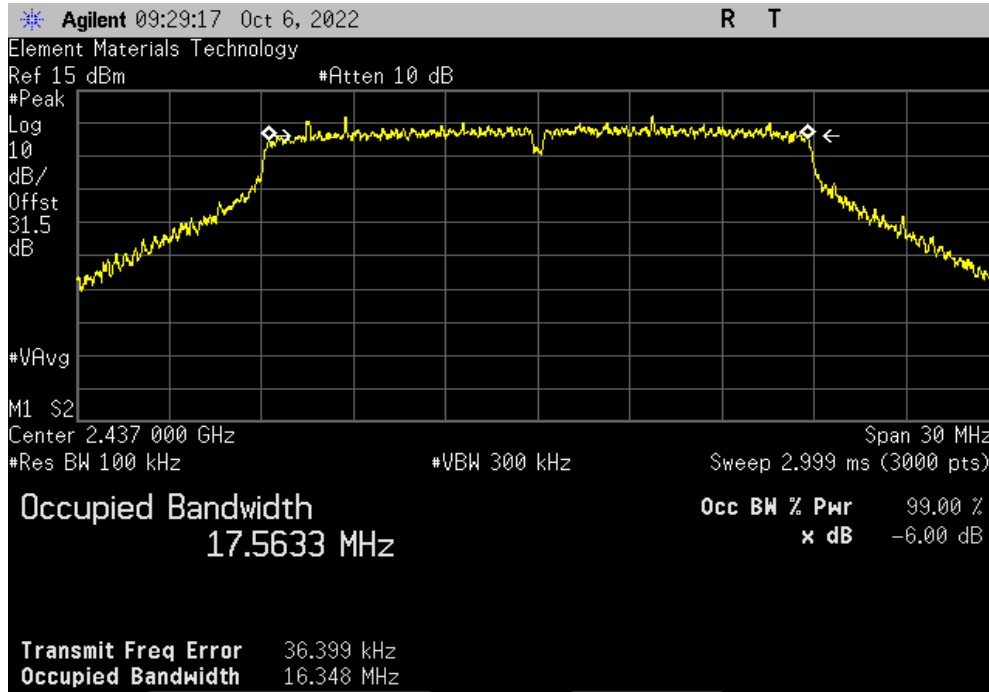


DTS BANDWIDTH - CHAIN 0

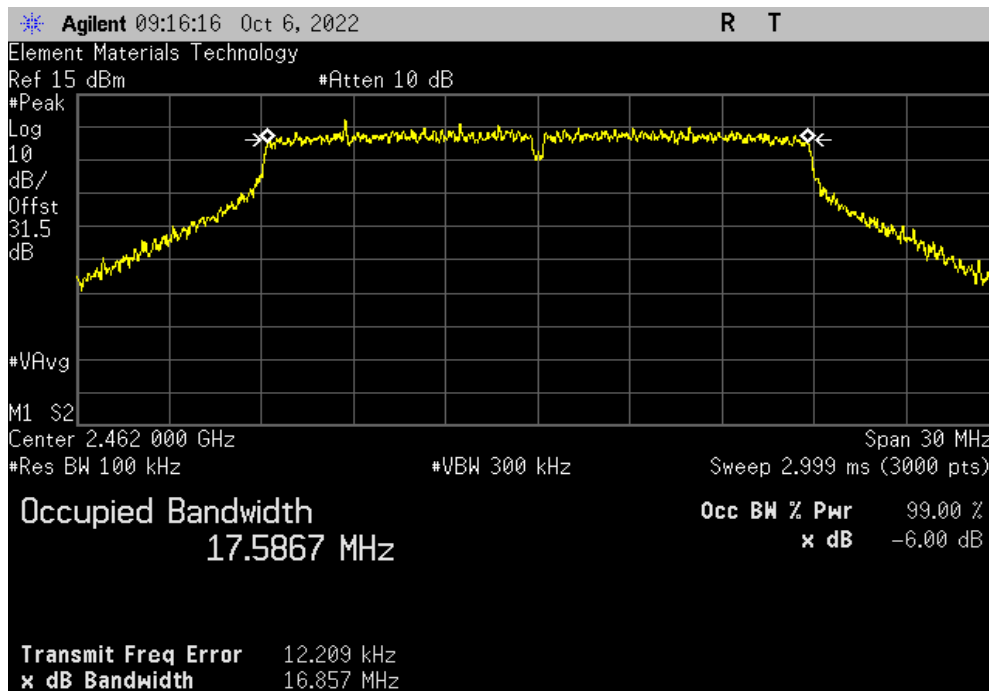


TuTx 2022.06.03.0 XMi 2022.02.07.0

| Chain 0, VHT20, MCS0, Mid Channel 6, 2437 MHz | | | | | | |
|---|--|--|--|------------|-----------|--------|
| | | | | Value | Limit (>) | Result |
| | | | | 16.348 MHz | 500 kHz | Pass |



| Chain 0, VHT20, MCS0, High Channel 11, 2462 MHz | | | | | | |
|---|--|--|--|------------|-----------|--------|
| | | | | Value | Limit (>) | Result |
| | | | | 16.857 MHz | 500 kHz | Pass |

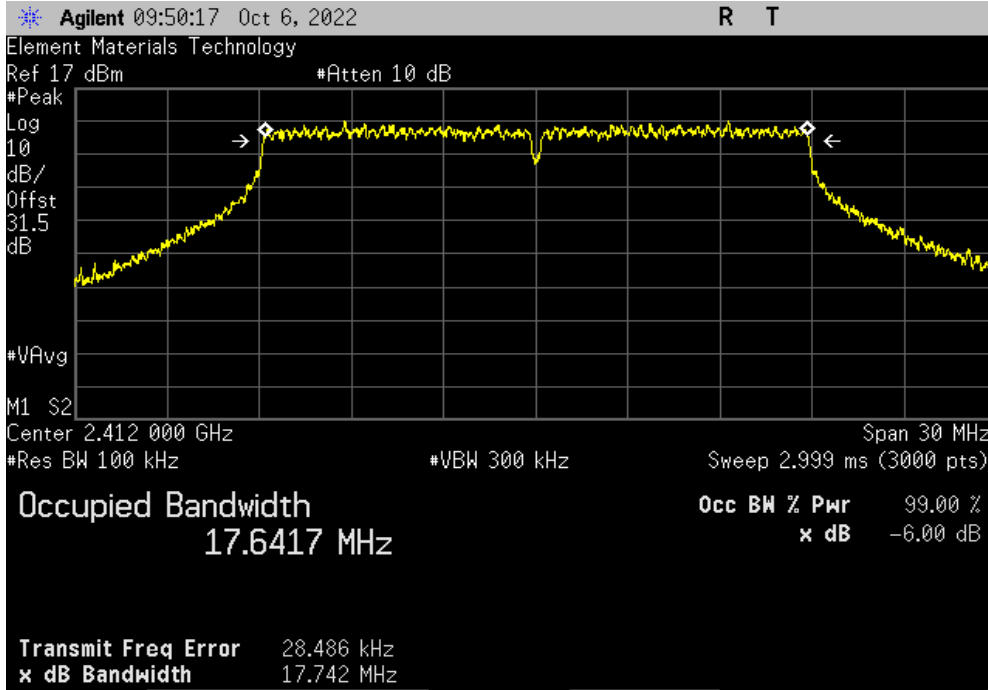


DTS BANDWIDTH - CHAIN 0

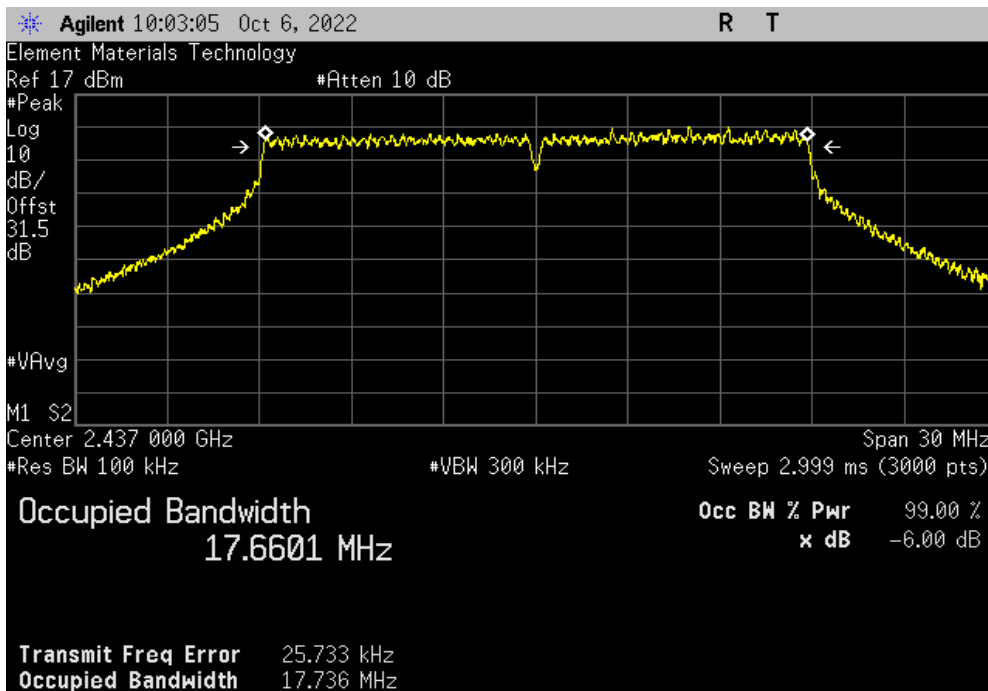


TuTx 2022.06.03.0 XMi 2022.02.07.0

| Chain 0, VHT20, MCS8, Low Channel 1, 2412 MHz | | | | | | |
|---|--|--|--|------------|-----------|--------|
| | | | | Value | Limit (>) | Result |
| | | | | 17.742 MHz | 500 kHz | Pass |



| Chain 0, VHT20, MCS8, Mid Channel 6, 2437 MHz | | | | | | |
|---|--|--|--|------------|-----------|--------|
| | | | | Value | Limit (>) | Result |
| | | | | 17.736 MHz | 500 kHz | Pass |

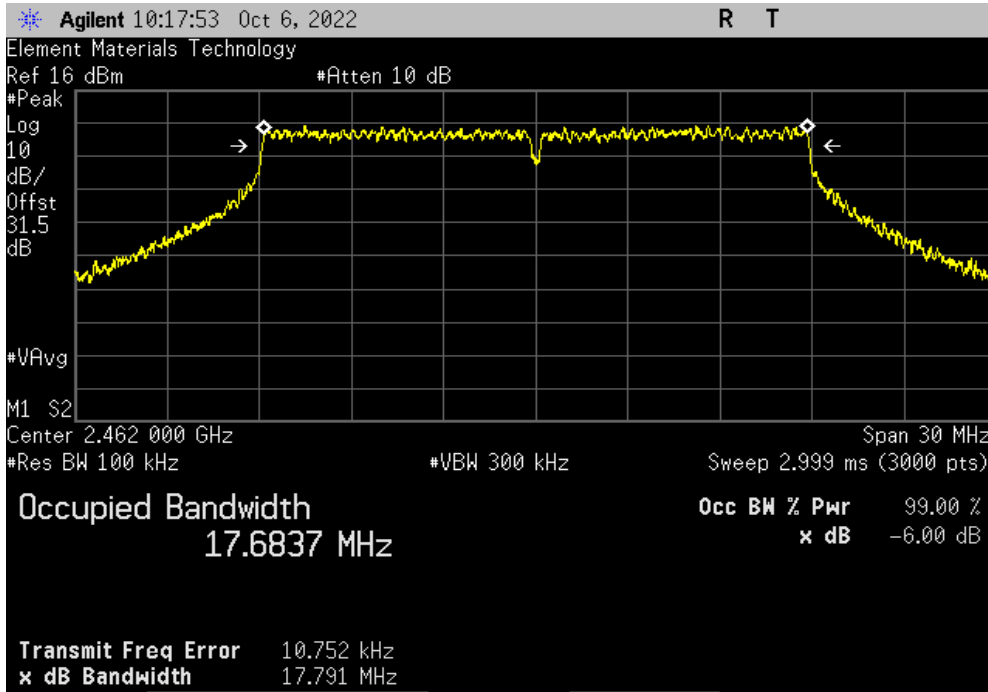


DTS BANDWIDTH - CHAIN 0

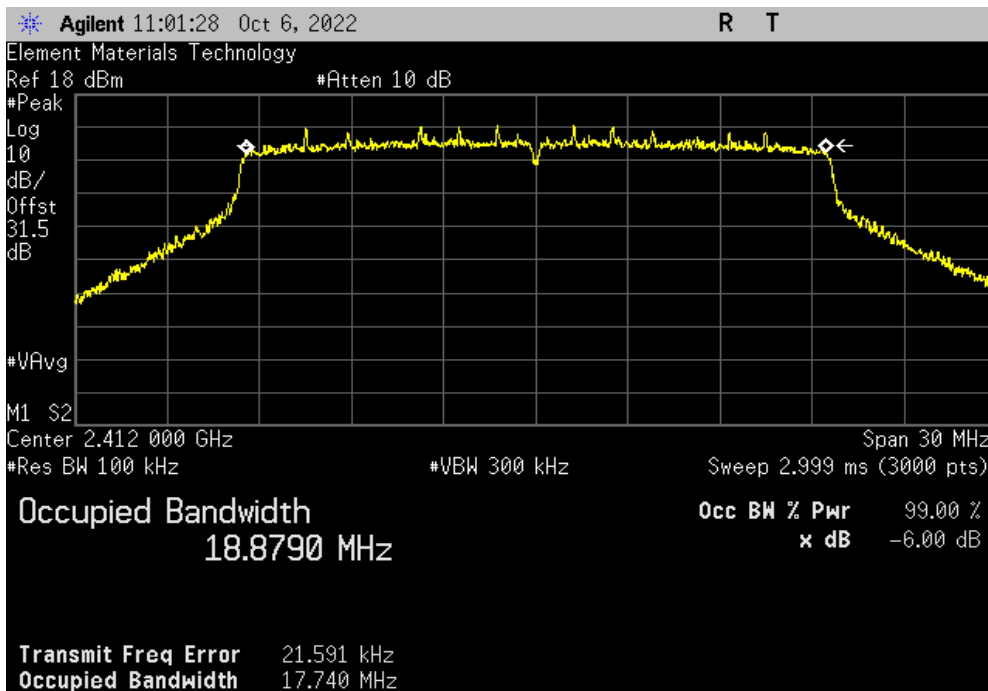


TuTx 2022.06.03.0 XMi 2022.02.07.0

| Chain 0, VHT20, MCS8, High Channel 11, 2462 MHz | | | | | | |
|---|--|--|--|------------|-----------|--------|
| | | | | Value | Limit (>) | Result |
| | | | | 17.791 MHz | 500 kHz | Pass |



| Chain 0, HE20, MCS0, Low Channel 1, 2412 MHz | | | | | | |
|--|--|--|--|-----------|-----------|--------|
| | | | | Value | Limit (>) | Result |
| | | | | 17.74 MHz | 500 kHz | Pass |

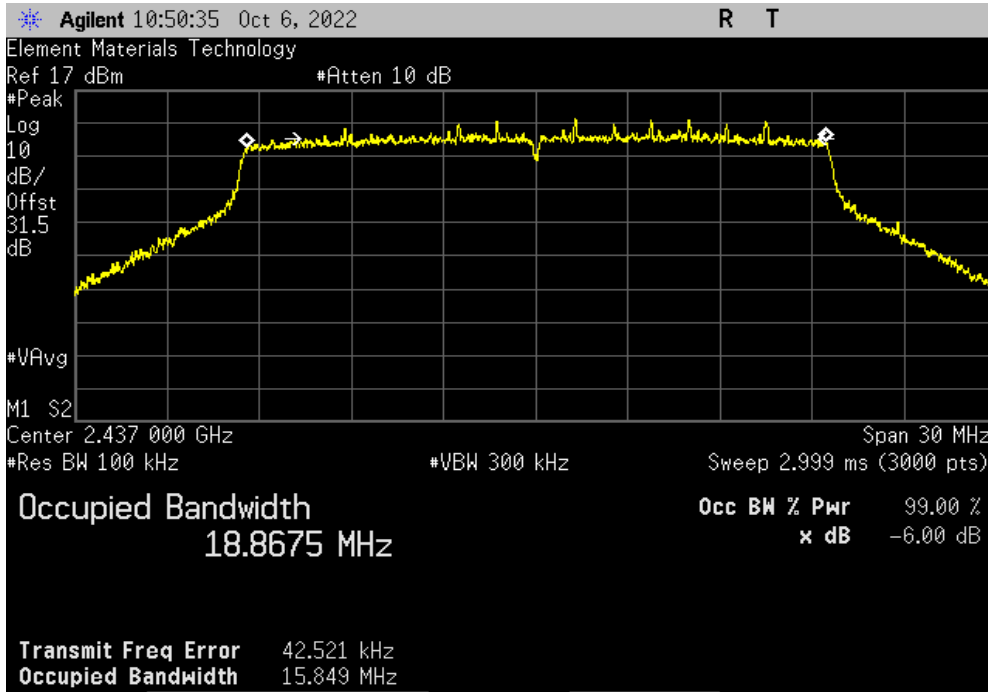


DTS BANDWIDTH - CHAIN 0

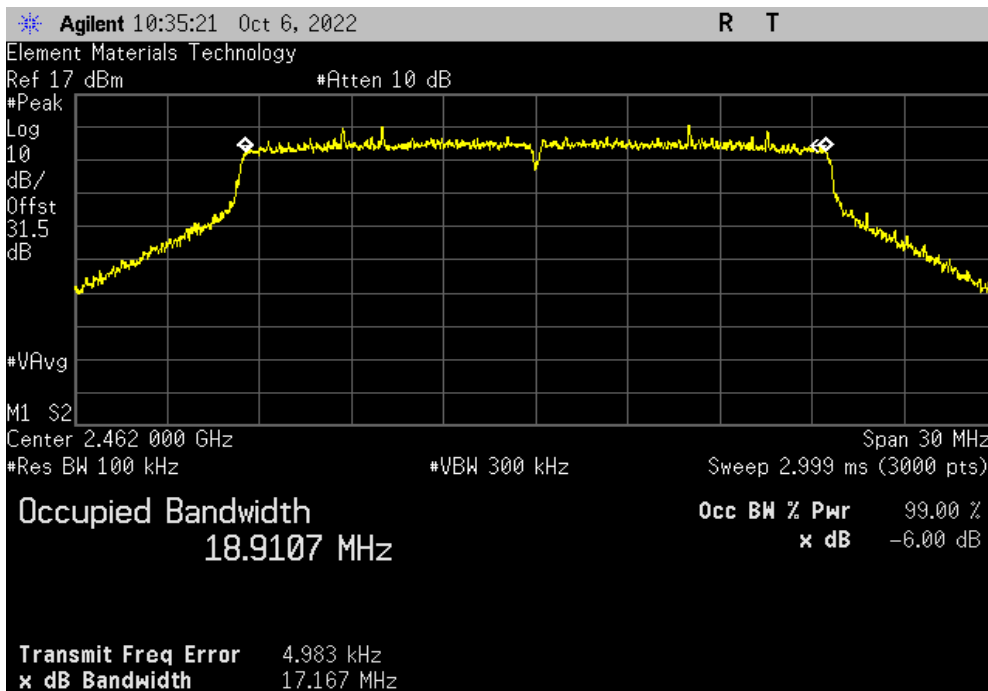


TuTx 2022.06.03.0 XMi 2022.02.07.0

| Chain 0, HE20, MCS0, Mid Channel 6, 2437 MHz | | |
|--|-----------|--------|
| Value | Limit (>) | Result |
| 15.849 MHz | 500 kHz | Pass |



| Chain 0, HE20, MCS0, High Channel 11, 2462 MHz | | |
|--|-----------|--------|
| Value | Limit (>) | Result |
| 17.167 MHz | 500 kHz | Pass |

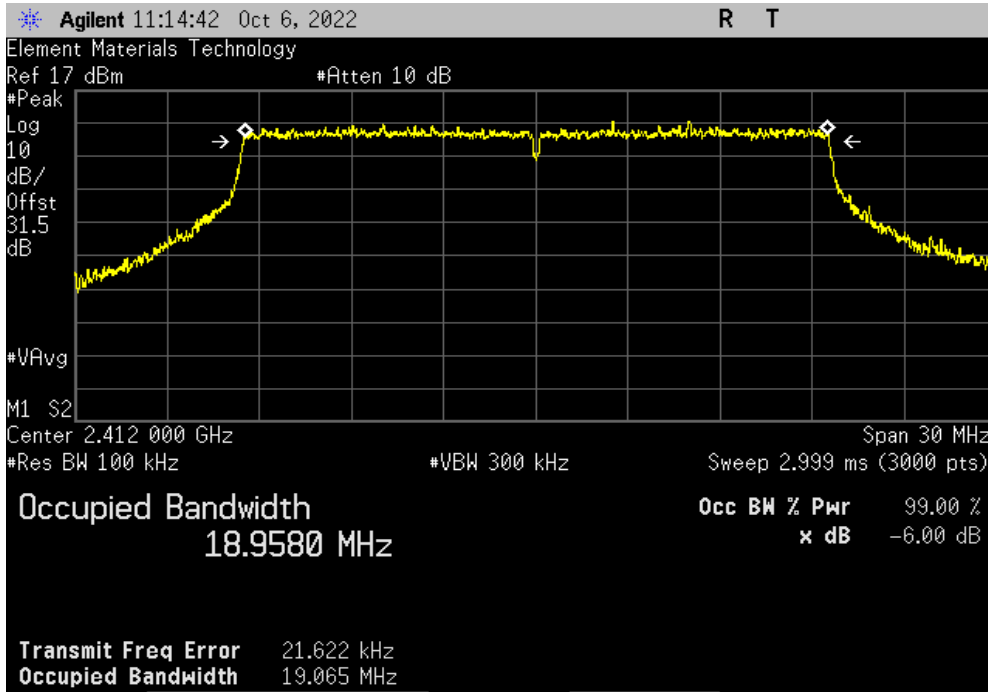


DTS BANDWIDTH - CHAIN 0

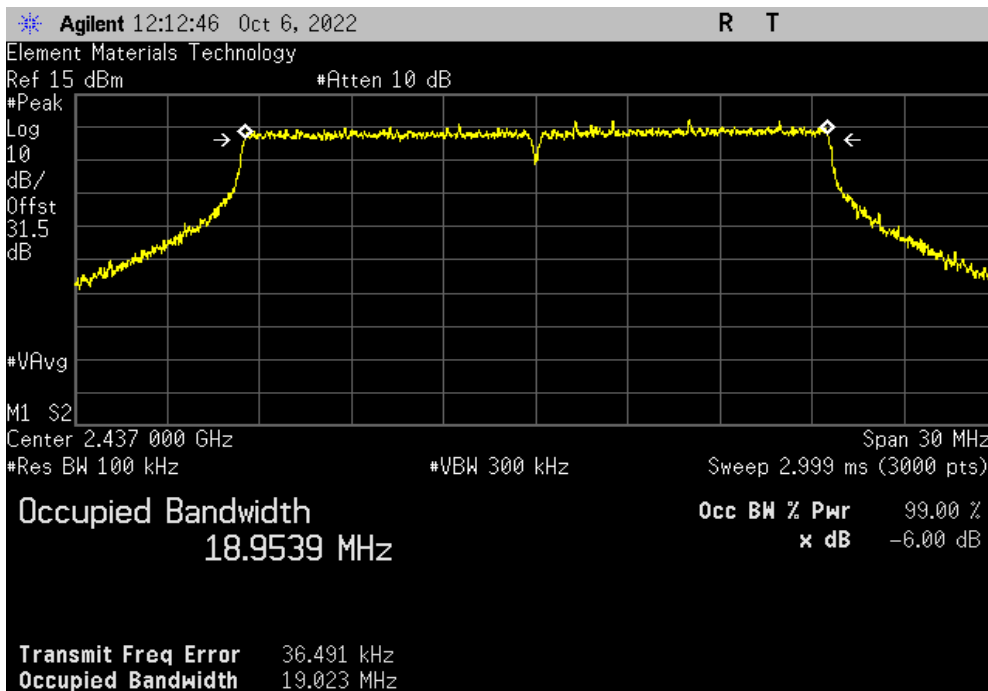


TuTx 2022.06.03.0 XMi 2022.02.07.0

| Chain 0, HE20, MCS11, Low Channel 1, 2412 MHz | | | | | | |
|---|--|--|--|------------|-----------|--------|
| | | | | Value | Limit (>) | Result |
| | | | | 19.065 MHz | 500 kHz | Pass |



| Chain 0, HE20, MCS11, Mid Channel 6, 2437 MHz | | | | | | |
|---|--|--|--|------------|-----------|--------|
| | | | | Value | Limit (>) | Result |
| | | | | 19.023 MHz | 500 kHz | Pass |



DTS BANDWIDTH - CHAIN 0



TbTx 2022.06.03.0 XMI 2022.02.07.0

| Chain 0, HE20, MCS11, High Channel 11, 2462 MHz | | |
|---|-----------|--------|
| Value | Limit (>) | Result |
| 19.101 MHz | 500 kHz | Pass |

