

BAND EDGE COMPLIANCE



XMIT 2020.03.25.0

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 |
|------------------------------|--------------|------------|-----|-----------|-----------|
| Analyzer - Spectrum Analyzer | Agilent | N9010A | AFL | 27-Feb-20 | 27-Feb-21 |
| Generator - Signal | Agilent | N5173B | TIW | 5-Jul-17 | 5-Jul-20 |
| Generator - Signal | Keysight | N5171B-506 | TEW | 2-May-18 | 2-May-21 |

TEST DESCRIPTION

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

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

Per section 27.53(g) and RSS 130 4.7, the power of any emission outside of the authorized operating frequency range cannot exceed -13 dBm. The limit is adjusted to -19 dBm [-13 dBm -10 log (4)] per FCC KDB 662911D01 v02r01 because the BTS may operate as a 4 port MIMO transmitter.

Per FCC 27.53(g) and RSS 130 4.7 requires a >100 kHz measurement bandwidth for emissions 100 kHz outside of the RRH operating frequency range. FCC 27.53(g) and RSS 130 4.7 requires a >30 kHz measurement bandwidth for emissions between 100 kHz outside of the RRH operating frequency range and band edge of the operating frequency range.

RF conducted emissions testing was performed only on one port. The testing was performed on the same version of hardware (AHBOA) as the original certification test. The AHBOA antenna ports are essentially electrically identical (the RF power variation between antenna ports is small as shown in the original certification testing) and antenna port 1 was selected to perform the testing under this effort as allowed by ANSI C63.26-2015 paragraph 5.7.2i.

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| | | | | | |
|--|-------------------------|------------------------------------|-----------------|---------------|--------|
| EUT: Airscale Base Transceiver Station Remote Radio Head Model AHBOA | | Work Order: NOKI0017 | | | |
| Serial Number: BL1943X1001 | | Date: 10-Jun-20 | | | |
| Customer: Nokia Solutions and Networks | | Temperature: 23 °C | | | |
| Attendees: Mitchell Hill, John Rattanavong | | Humidity: 39.1% RH | | | |
| Project: None | | Barometric Pres.: 1023 mbar | | | |
| Tested by: Brandon Hobbs | | Power: 54 VDC | | | |
| TEST SPECIFICATIONS | | Job Site: TX05 | | | |
| FCC 27:2020 | | Test Method | | | |
| RSS-130:2019 | | ANSI C63.26:2015 | | | |
| | | RSS-130:2019 | | | |
| COMMENTS | | | | | |
| All measurement path losses were accounted for in the reference level offset including any attenuators, filters and DC blocks. The carrier power was set to maximum for all testing. | | | | | |
| DEVIATIONS FROM TEST STANDARD | | | | | |
| None | | | | | |
| Configuration # | 2 | Signature | | | |
| | | Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result |
| Port 1, Band 71, 617 MHz - 652 MHz | | | | | |
| 5 MHz Bandwidth | | | | | |
| QPSK Modulation | | | | | |
| | Low Channel, 619.5 MHz | 616.9 | -22.22 | -19 | Pass |
| | Low Channel, 619.5 MHz | 617 | -26.7 | -19 | Pass |
| | High Channel, 649.5 MHz | 652.1 | -22.98 | -19 | Pass |
| | High Channel, 649.5 MHz | 652 | -28.29 | -19 | Pass |
| 16-QAM Modulation | | | | | |
| | Low Channel, 619.5 MHz | 616.9 | -22.39 | -19 | Pass |
| | Low Channel, 619.5 MHz | 617 | -26.88 | -19 | Pass |
| | High Channel, 649.5 MHz | 652.1 | -22.68 | -19 | Pass |
| | High Channel, 649.5 MHz | 652 | -27.86 | -19 | Pass |
| 64-QAM Modulation | | | | | |
| | Low Channel, 619.5 MHz | 616.9 | -22.32 | -19 | Pass |
| | Low Channel, 619.5 MHz | 617 | -26.35 | -19 | Pass |
| | High Channel, 649.5 MHz | 652.1 | -23.34 | -19 | Pass |
| | High Channel, 649.5 MHz | 652 | -28.6 | -19 | Pass |
| 256-QAM Modulation | | | | | |
| | Low Channel, 619.5 MHz | 616.9 | -22.92 | -19 | Pass |
| | Low Channel, 619.5 MHz | 617 | -26.51 | -19 | Pass |
| | High Channel, 649.5 MHz | 652.1 | -23.03 | -19 | Pass |
| | High Channel, 649.5 MHz | 652 | -28.47 | -19 | Pass |
| 10 MHz Bandwidth | | | | | |
| QPSK Modulation | | | | | |
| | Low Channel, 622 MHz | 616.9 | -23.7 | -19 | Pass |
| | Low Channel, 622 MHz | 617 | -29.18 | -19 | Pass |
| | High Channel, 647 MHz | 652.1 | -24.64 | -19 | Pass |
| | High Channel, 647 MHz | 652 | -29.58 | -19 | Pass |
| 16-QAM Modulation | | | | | |
| | Low Channel, 622 MHz | 616.9 | -24.35 | -19 | Pass |
| | Low Channel, 622 MHz | 617 | -29.16 | -19 | Pass |
| | High Channel, 647 MHz | 652.1 | -25.48 | -19 | Pass |
| | High Channel, 647 MHz | 652 | -30.42 | -19 | Pass |
| 64-QAM Modulation | | | | | |
| | Low Channel, 622 MHz | 616.9 | -23.65 | -19 | Pass |
| | Low Channel, 622 MHz | 617 | -28.79 | -19 | Pass |
| | High Channel, 647 MHz | 652.1 | -25.34 | -19 | Pass |
| | High Channel, 647 MHz | 652 | -30.31 | -19 | Pass |
| 256-QAM Modulation | | | | | |
| | Low Channel, 622 MHz | 616.9 | -22.81 | -19 | Pass |
| | Low Channel, 622 MHz | 617 | -28.34 | -19 | Pass |
| | High Channel, 647 MHz | 652.1 | -24.83 | -19 | Pass |
| | High Channel, 647 MHz | 652 | -30.22 | -19 | Pass |
| 15 MHz Bandwidth | | | | | |
| QPSK Modulation | | | | | |
| | Low Channel, 624.5 MHz | 616.9 | -23.35 | -19 | Pass |
| | Low Channel, 624.5 MHz | 617 | -29.43 | -19 | Pass |
| | High Channel, 644.5 MHz | 652.1 | -23.99 | -19 | Pass |
| | High Channel, 644.5 MHz | 652 | -28.47 | -19 | Pass |
| 16-QAM Modulation | | | | | |
| | Low Channel, 624.5 MHz | 616.9 | -23.8 | -19 | Pass |
| | Low Channel, 624.5 MHz | 617 | -29.16 | -19 | Pass |
| | High Channel, 644.5 MHz | 652.1 | -24.95 | -19 | Pass |
| | High Channel, 644.5 MHz | 652 | -28.82 | -19 | Pass |
| 64-QAM Modulation | | | | | |
| | Low Channel, 624.5 MHz | 616.9 | -24.09 | -19 | Pass |
| | Low Channel, 624.5 MHz | 617 | -28.88 | -19 | Pass |
| | High Channel, 644.5 MHz | 652.1 | -24.12 | -19 | Pass |
| | High Channel, 644.5 MHz | 652 | -29.63 | -19 | Pass |
| 256-QAM Modulation | | | | | |
| | Low Channel, 624.5 MHz | 616.9 | -23.85 | -19 | Pass |
| | Low Channel, 624.5 MHz | 617 | -29.14 | -19 | Pass |
| | High Channel, 644.5 MHz | 652.1 | -24 | -19 | Pass |
| | High Channel, 644.5 MHz | 652 | -29.28 | -19 | Pass |
| 20 MHz Bandwidth | | | | | |
| QPSK Modulation | | | | | |
| | Low Channel, 627 MHz | 616.9 | -24.26 | -19 | Pass |
| | Low Channel, 627 MHz | 617 | -29.62 | -19 | Pass |
| | High Channel, 642 MHz | 652.1 | -24.36 | -19 | Pass |
| | High Channel, 642 MHz | 652 | -28.41 | -19 | Pass |
| 16-QAM Modulation | | | | | |
| | Low Channel, 627 MHz | 616.9 | -24.33 | -19 | Pass |
| | Low Channel, 627 MHz | 617 | -30.02 | -19 | Pass |
| | High Channel, 642 MHz | 652.1 | -24.63 | -19 | Pass |
| | High Channel, 642 MHz | 652 | -29.18 | -19 | Pass |
| 64-QAM Modulation | | | | | |

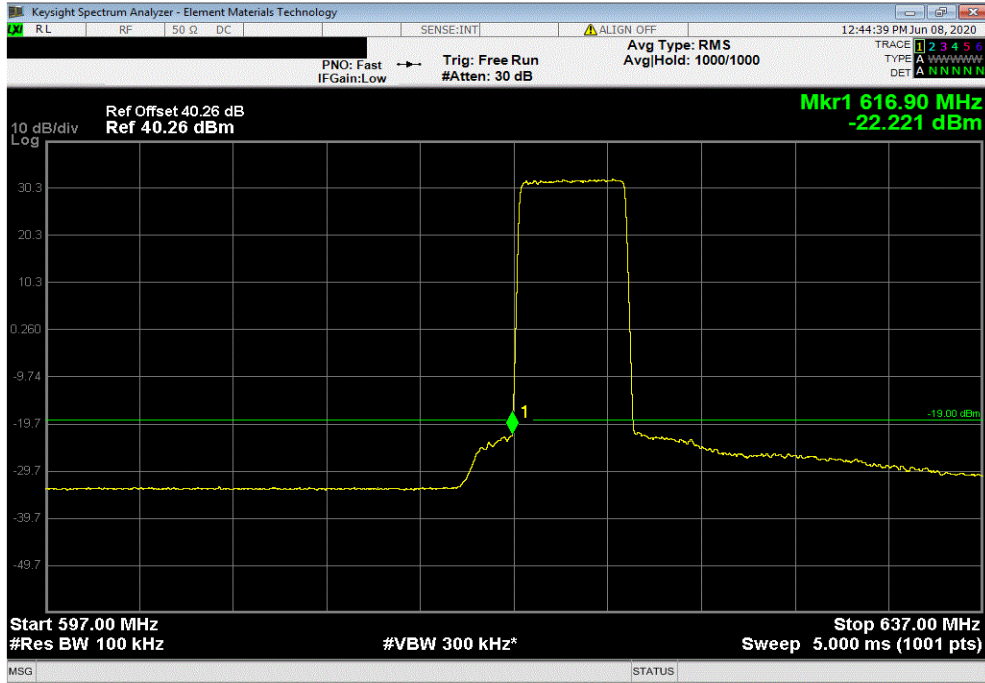
| | | | | |
|---------------------------|-------|--------|-----|------|
| Low Channel, 627 MHz | 616.9 | -23.54 | -19 | Pass |
| Low Channel, 627 MHz | 617 | -28.85 | -19 | Pass |
| High Channel, 642 MHz | 652.1 | -24.65 | -19 | Pass |
| High Channel, 642 MHz | 652 | -29.56 | -19 | Pass |
| 256-QAM Modulation | | | | |
| Low Channel, 627 MHz | 616.9 | -24.22 | -19 | Pass |
| Low Channel, 627 MHz | 617 | -29.87 | -19 | Pass |
| High Channel, 642 MHz | 652.1 | -24.33 | -19 | Pass |
| High Channel, 642 MHz | 652 | -29.66 | -19 | Pass |

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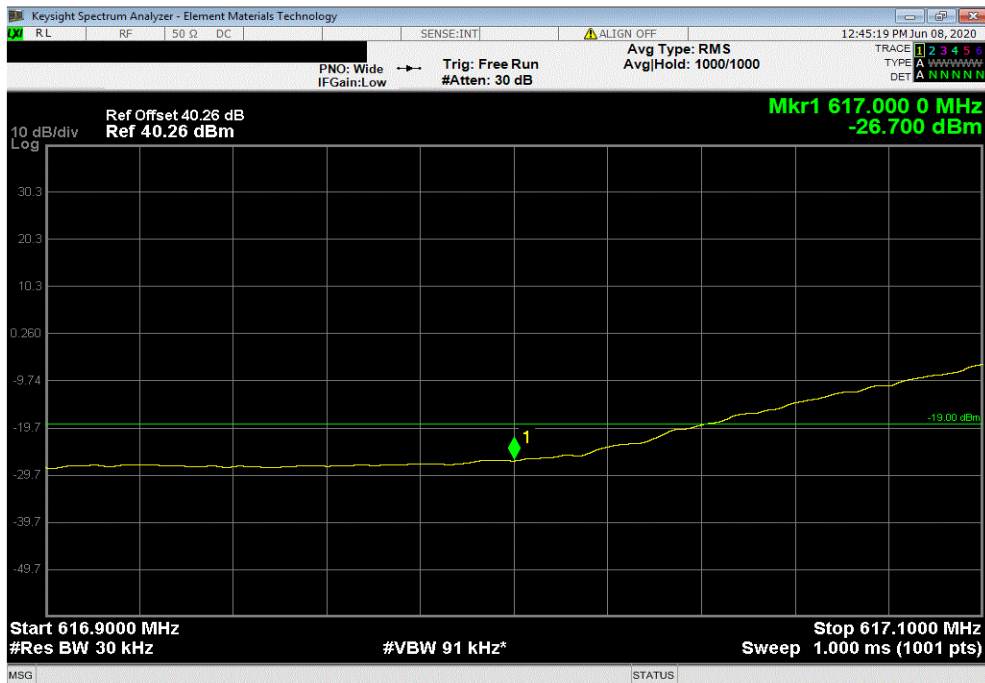


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| Port 1, Band 71, 617 MHz - 652 MHz, 5 MHz Bandwidth, QPSK Modulation, Low Channel, 619.5 MHz | | | | | | |
|--|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 616.9 | -22.22 | -19 | Pass | | | |



| Port 1, Band 71, 617 MHz - 652 MHz, 5 MHz Bandwidth, QPSK Modulation, Low Channel, 619.5 MHz | | | | | | |
|--|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 617 | -26.7 | -19 | Pass | | | |

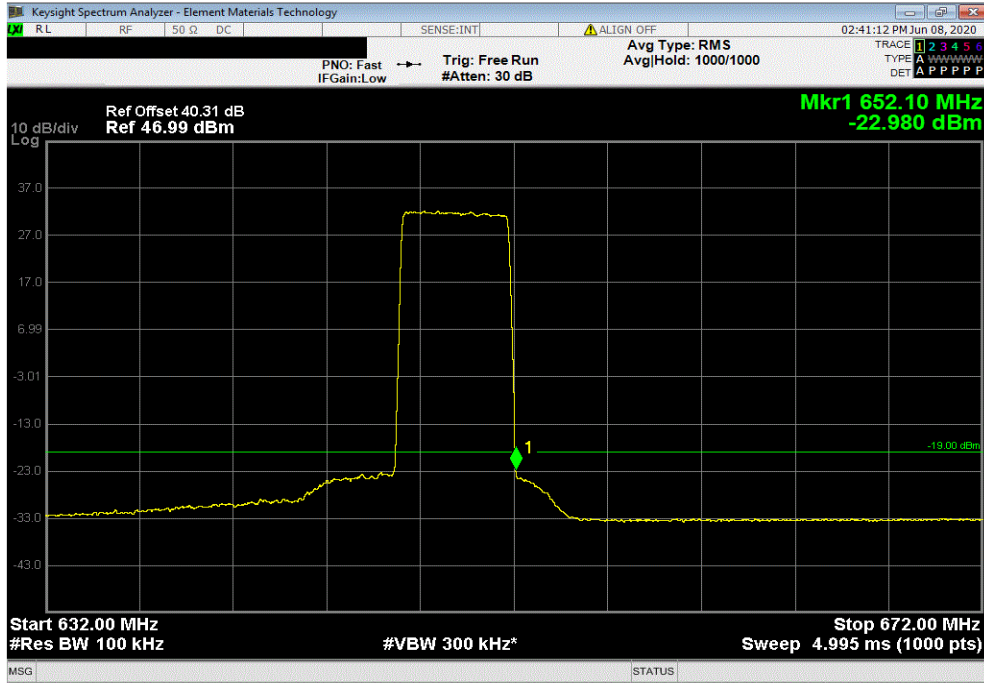


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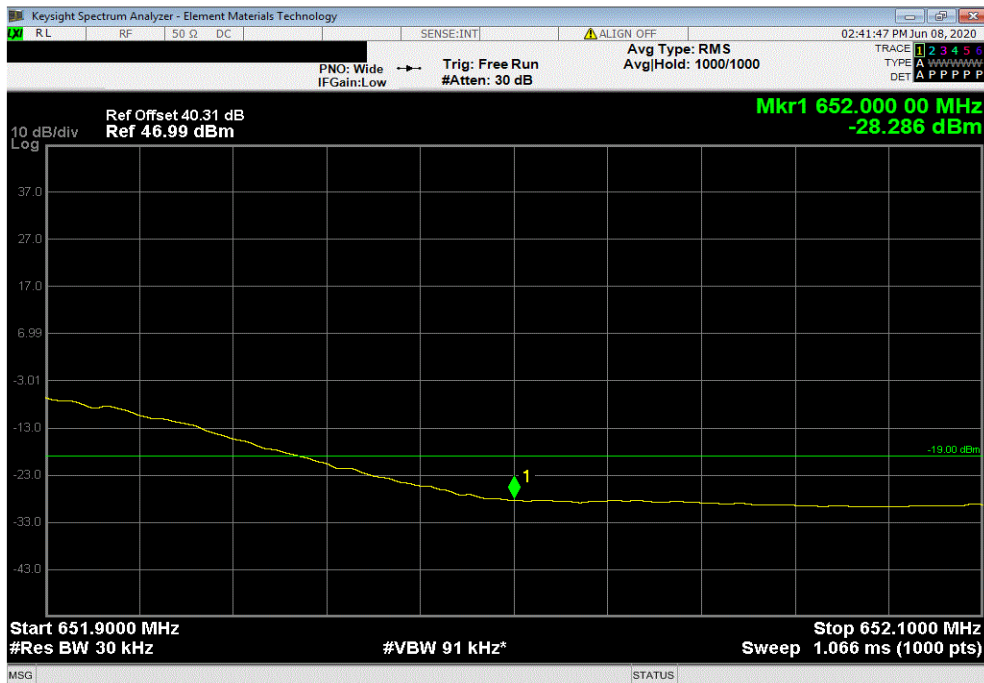


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| Port 1, Band 71, 617 MHz - 652 MHz, 5 MHz Bandwidth, QPSK Modulation, High Channel, 649.5 MHz | | | | | | |
|---|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 652.1 | -22.98 | -19 | Pass | | | |



| Port 1, Band 71, 617 MHz - 652 MHz, 5 MHz Bandwidth, QPSK Modulation, High Channel, 649.5 MHz | | | | | | |
|---|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 652 | -28.29 | -19 | Pass | | | |

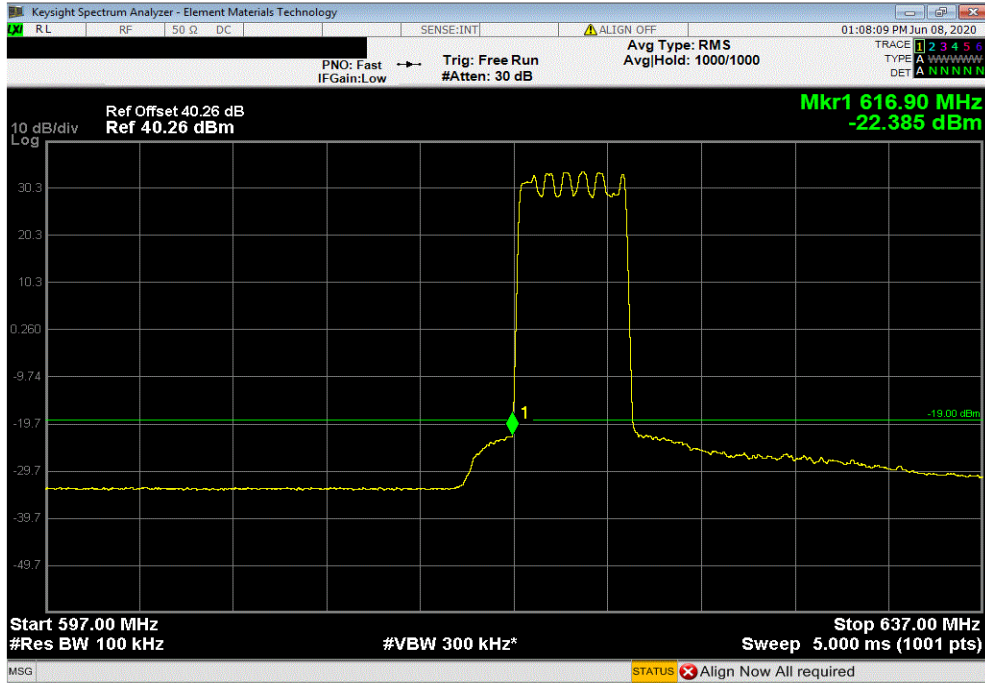


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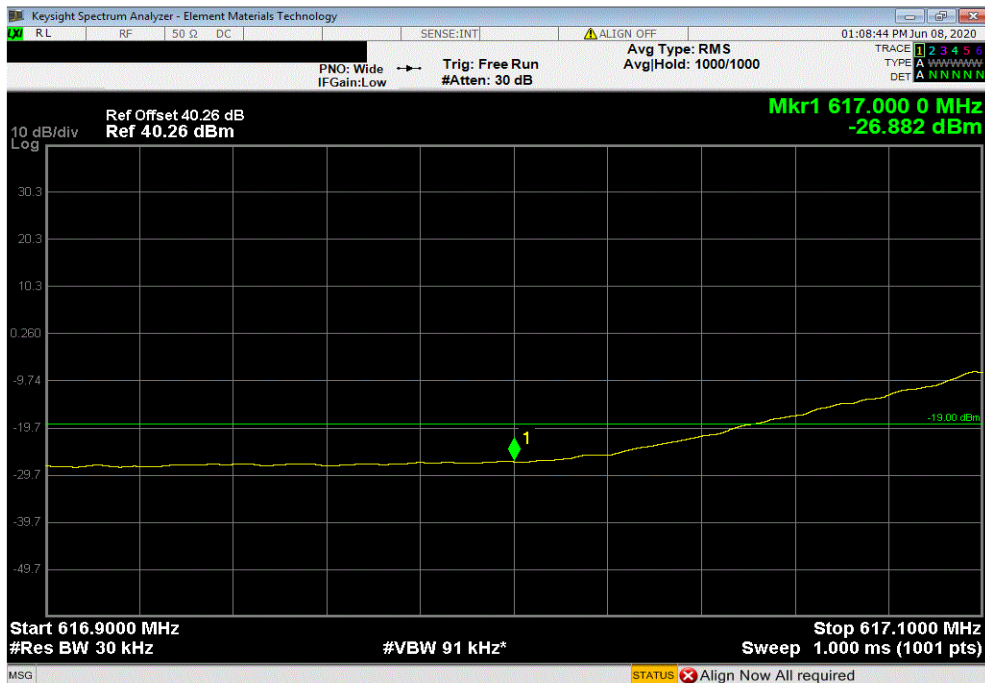


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| Port 1, Band 71, 617 MHz - 652 MHz, 5 MHz Bandwidth, 16-QAM Modulation, Low Channel, 619.5 MHz | | | | | | |
|--|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 616.9 | -22.39 | -19 | Pass | | | |



| Port 1, Band 71, 617 MHz - 652 MHz, 5 MHz Bandwidth, 16-QAM Modulation, Low Channel, 619.5 MHz | | | | | | |
|--|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 617 | -26.88 | -19 | Pass | | | |

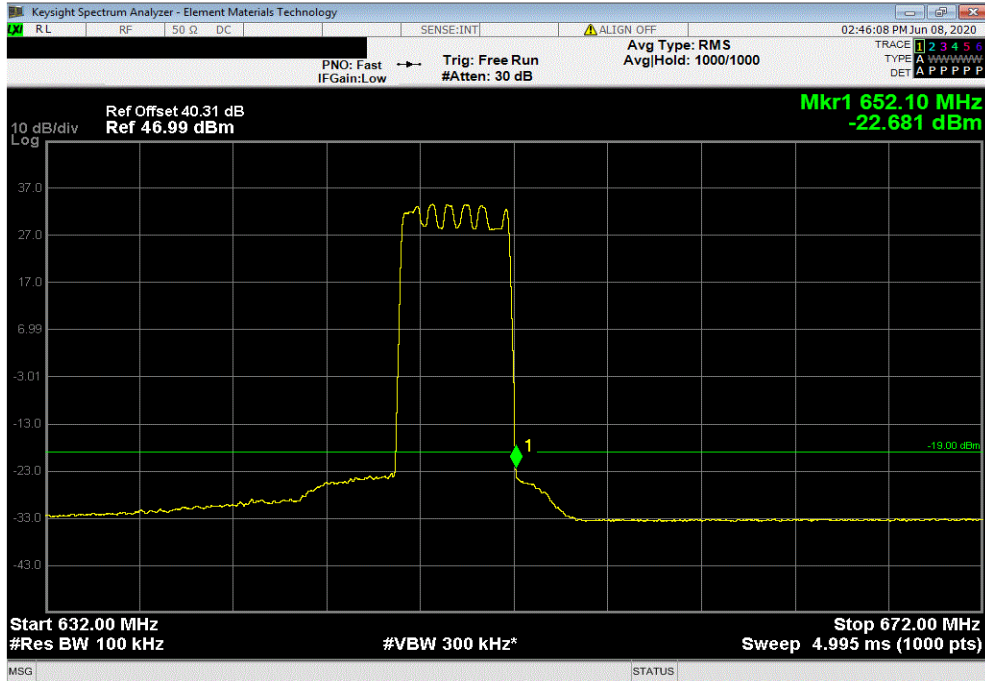


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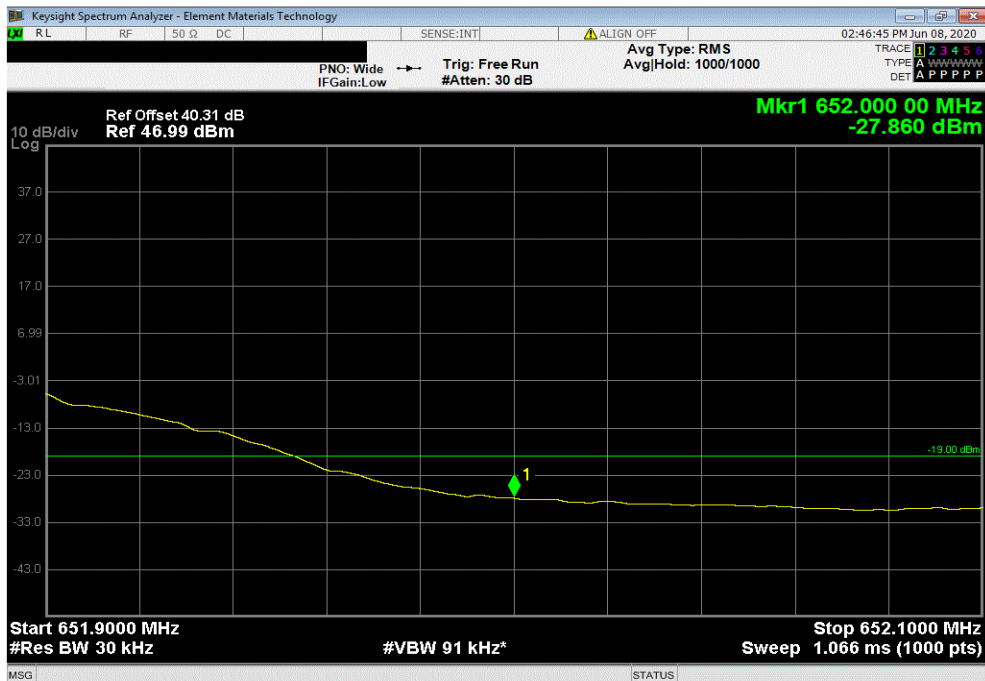


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| Port 1, Band 71, 617 MHz - 652 MHz, 5 MHz Bandwidth, 16-QAM Modulation, High Channel, 649.5 MHz | | | | | | |
|---|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 652.1 | -22.68 | -19 | Pass | | | |



| Port 1, Band 71, 617 MHz - 652 MHz, 5 MHz Bandwidth, 16-QAM Modulation, High Channel, 649.5 MHz | | | | | | |
|---|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 652 | -27.86 | -19 | Pass | | | |

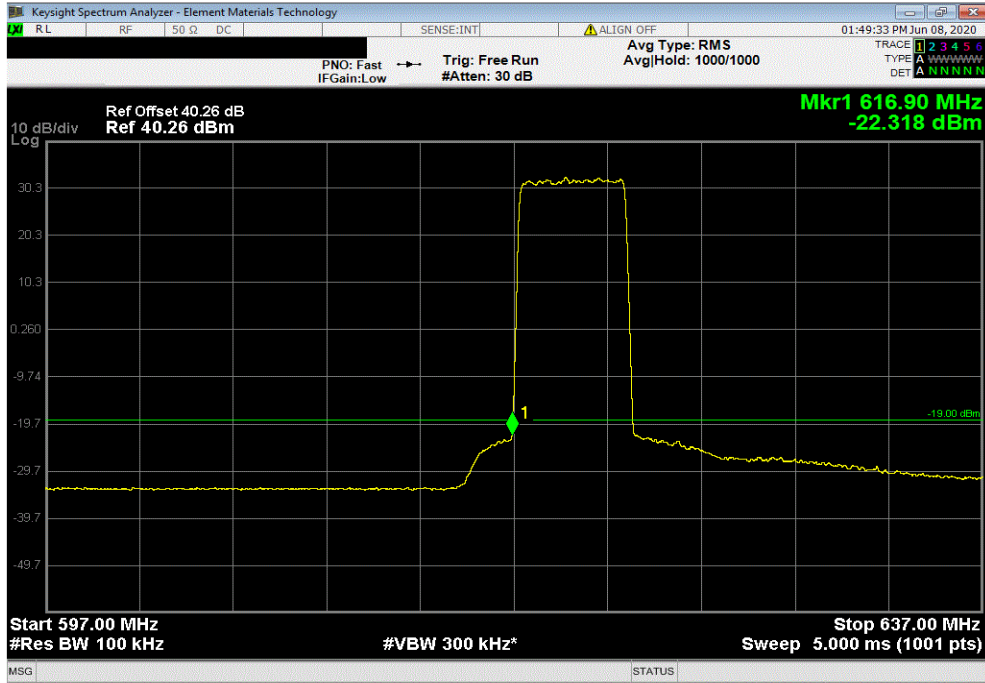


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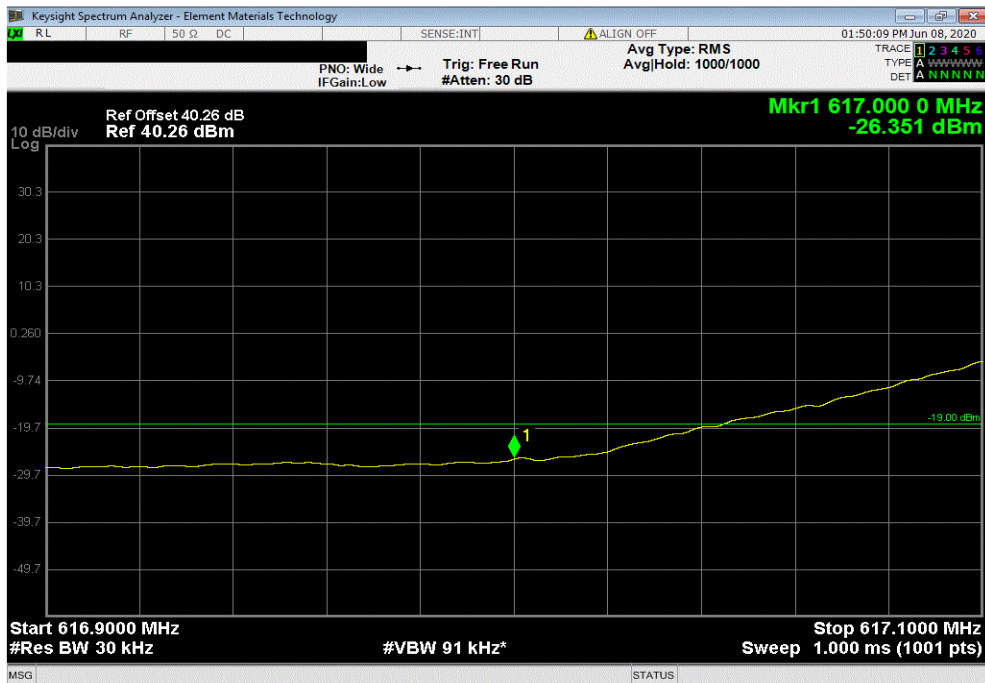


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| Port 1, Band 71, 617 MHz - 652 MHz, 5 MHz Bandwidth, 64-QAM Modulation, Low Channel, 619.5 MHz | | | | | | |
|--|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 616.9 | -22.32 | -19 | Pass | | | |



| Port 1, Band 71, 617 MHz - 652 MHz, 5 MHz Bandwidth, 64-QAM Modulation, Low Channel, 619.5 MHz | | | | | | |
|--|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 617 | -26.35 | -19 | Pass | | | |

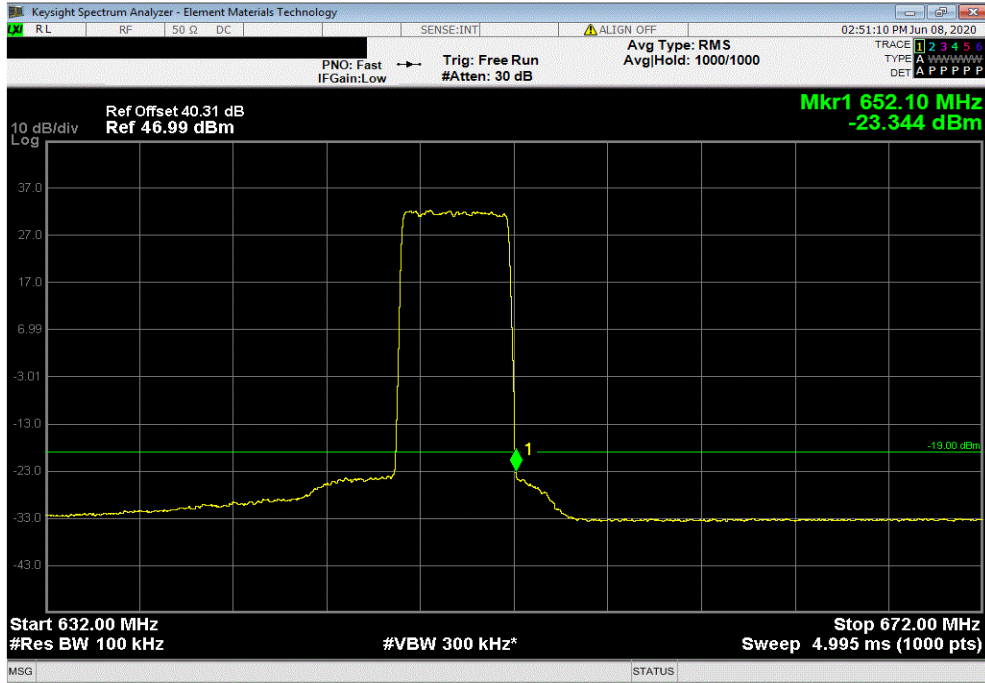


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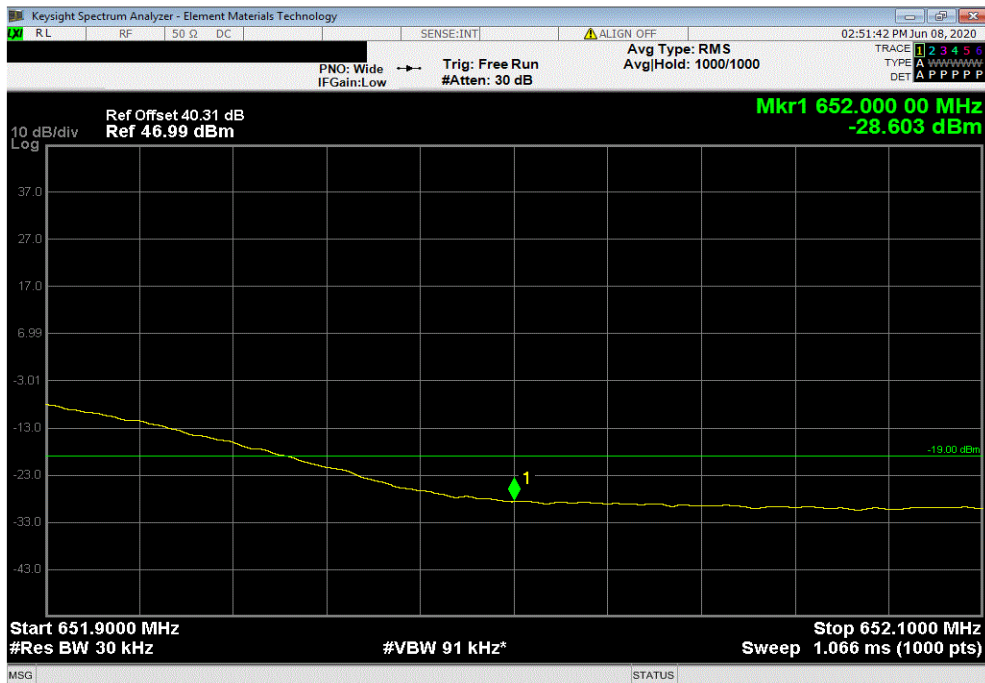


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| Port 1, Band 71, 617 MHz - 652 MHz, 5 MHz Bandwidth, 64-QAM Modulation, High Channel, 649.5 MHz | | | | | | |
|---|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 652.1 | -23.34 | -19 | Pass | | | |



| Port 1, Band 71, 617 MHz - 652 MHz, 5 MHz Bandwidth, 64-QAM Modulation, High Channel, 649.5 MHz | | | | | | |
|---|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 652 | -28.6 | -19 | Pass | | | |

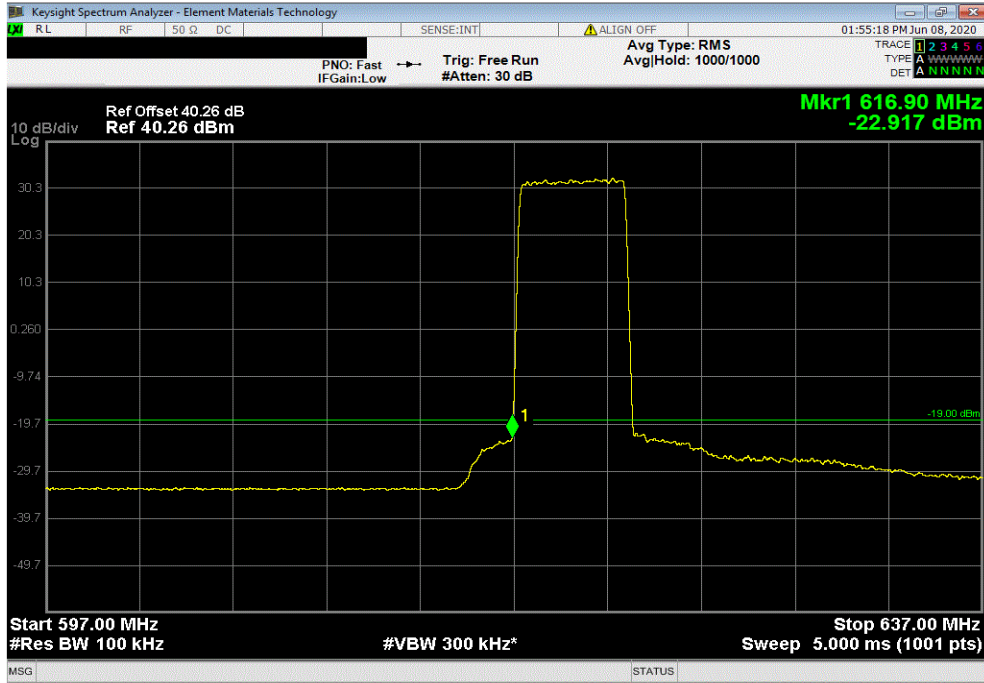


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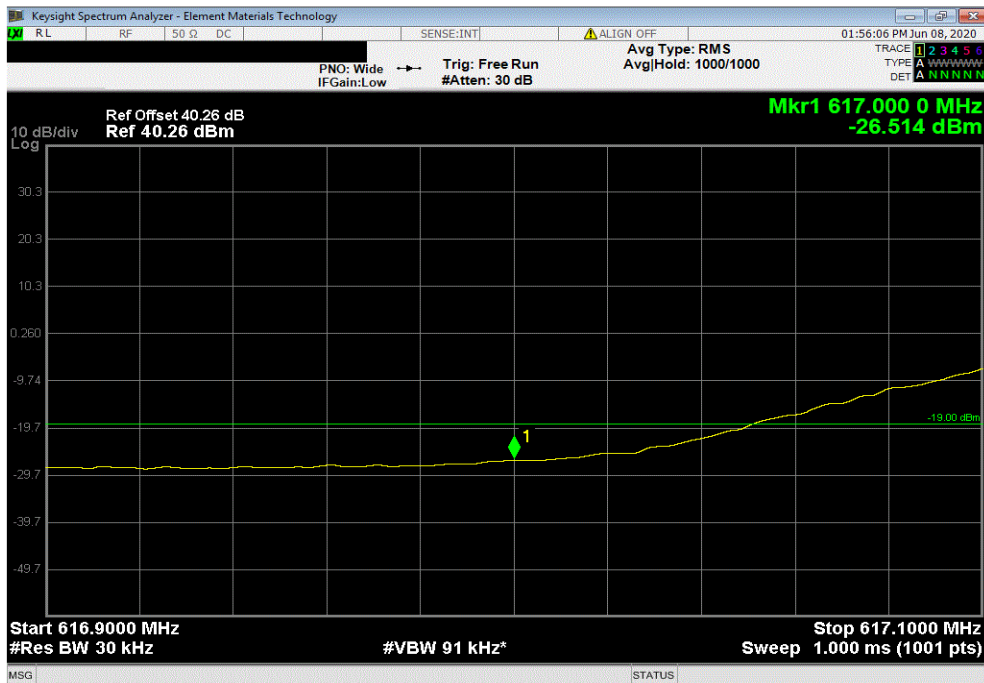


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| Port 1, Band 71, 617 MHz - 652 MHz, 5 MHz Bandwidth, 256-QAM Modulation, Low Channel, 619.5 MHz | | | | | | |
|---|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 616.9 | -22.92 | -19 | Pass | | | |



| Port 1, Band 71, 617 MHz - 652 MHz, 5 MHz Bandwidth, 256-QAM Modulation, Low Channel, 619.5 MHz | | | | | | |
|---|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 617 | -26.51 | -19 | Pass | | | |

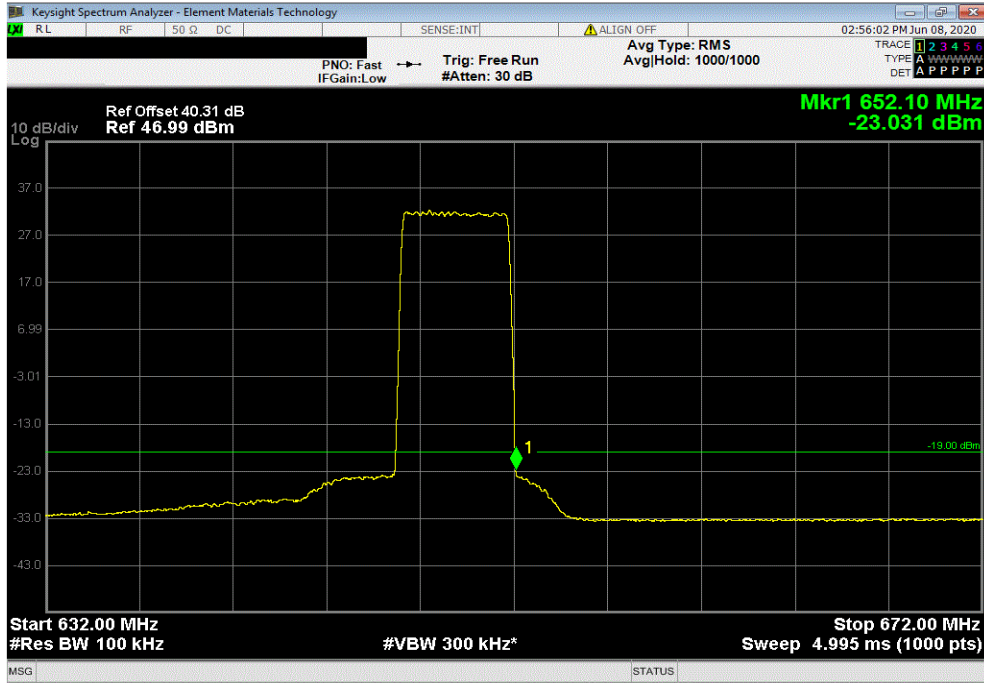


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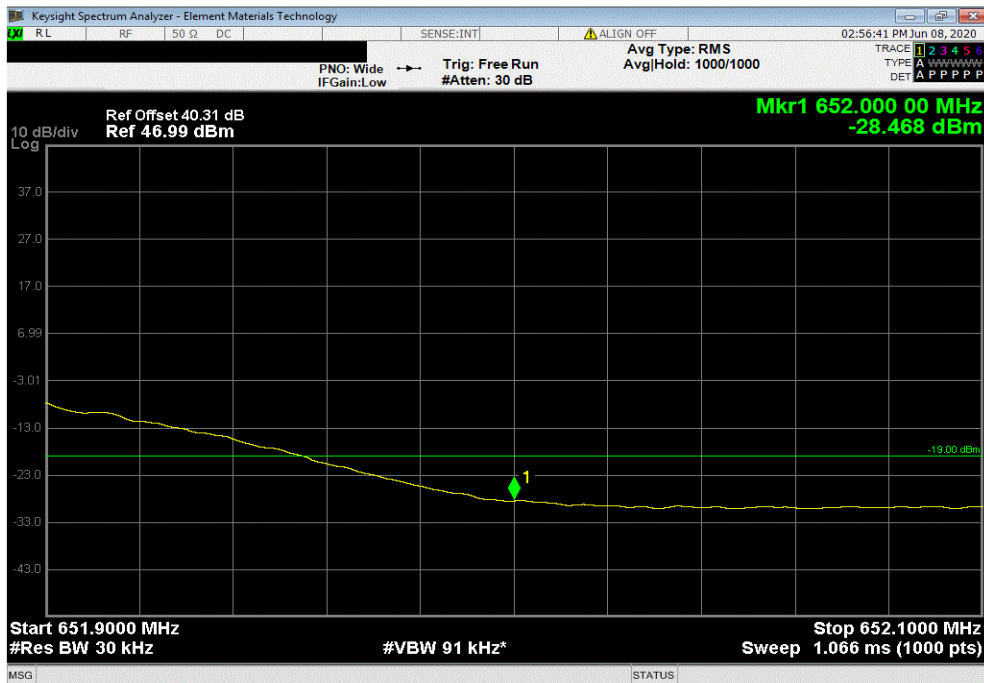


TMTX 2020.06.08.0 BETA XMI 2020.03.25.0

| Port 1, Band 71, 617 MHz - 652 MHz, 5 MHz Bandwidth, 256-QAM Modulation, High Channel, 649.5 MHz | | | | | | |
|--|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 652.1 | -23.03 | -19 | Pass | | | |



| Port 1, Band 71, 617 MHz - 652 MHz, 5 MHz Bandwidth, 256-QAM Modulation, High Channel, 649.5 MHz | | | | | | |
|--|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 652 | -28.47 | -19 | Pass | | | |

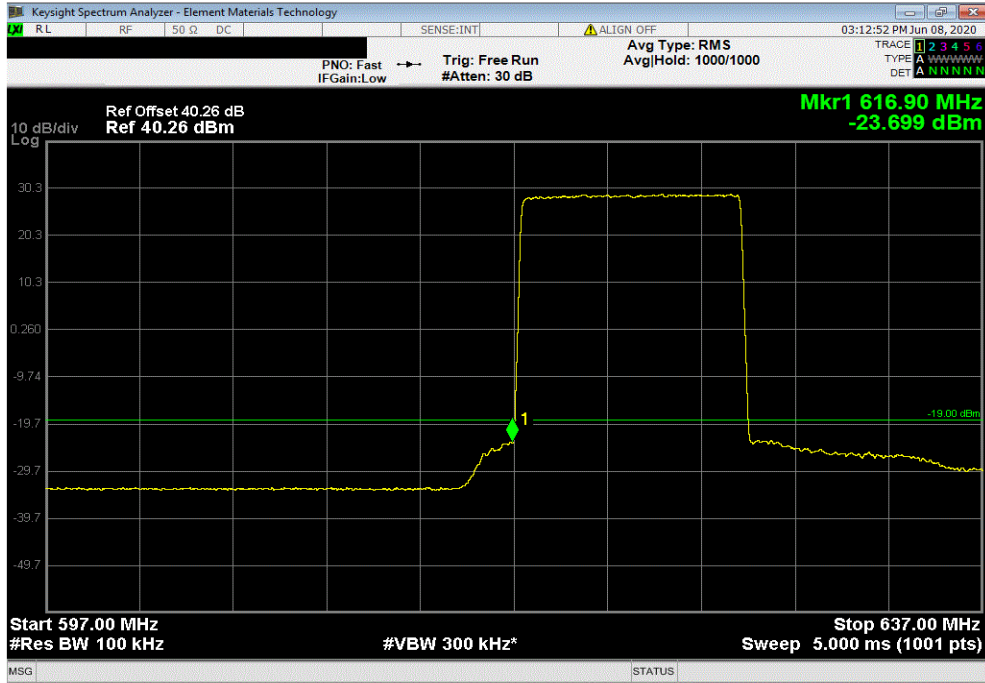


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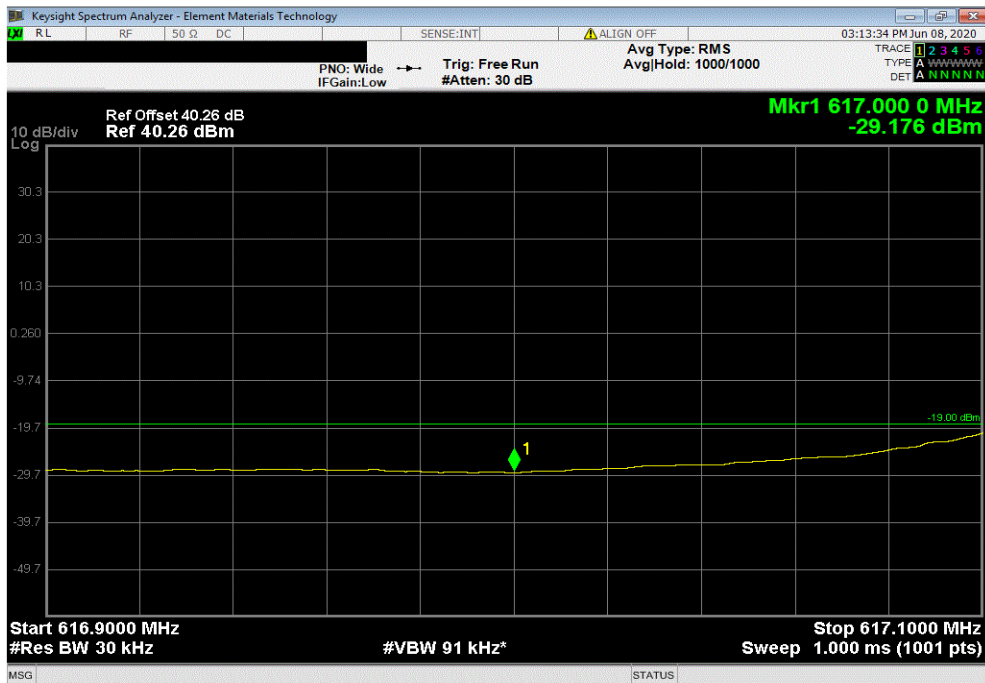


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| Port 1, Band 71, 617 MHz - 652 MHz, 10 MHz Bandwidth, QPSK Modulation, Low Channel, 622 MHz | | | | | | |
|---|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 616.9 | -23.7 | -19 | Pass | | | |



| Port 1, Band 71, 617 MHz - 652 MHz, 10 MHz Bandwidth, QPSK Modulation, Low Channel, 622 MHz | | | | | | |
|---|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 617 | -29.18 | -19 | Pass | | | |

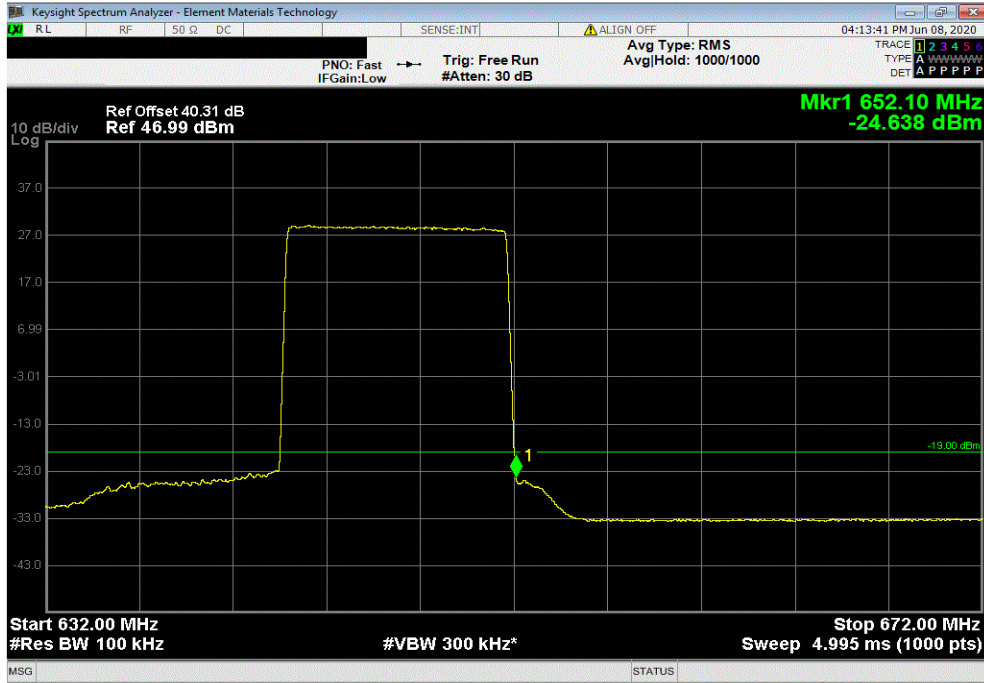


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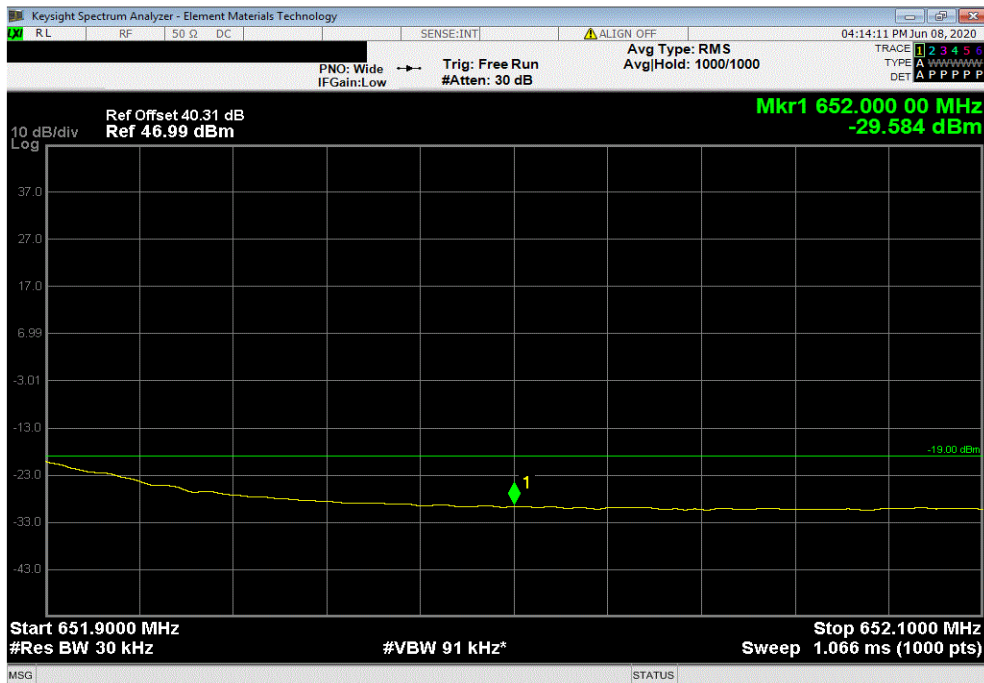


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| Port 1, Band 71, 617 MHz - 652 MHz, 10 MHz Bandwidth, QPSK Modulation, High Channel, 647 MHz | | | | | | |
|--|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 652.1 | -24.64 | -19 | Pass | | | |



| Port 1, Band 71, 617 MHz - 652 MHz, 10 MHz Bandwidth, QPSK Modulation, High Channel, 647 MHz | | | | | | |
|--|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 652 | -29.58 | -19 | Pass | | | |

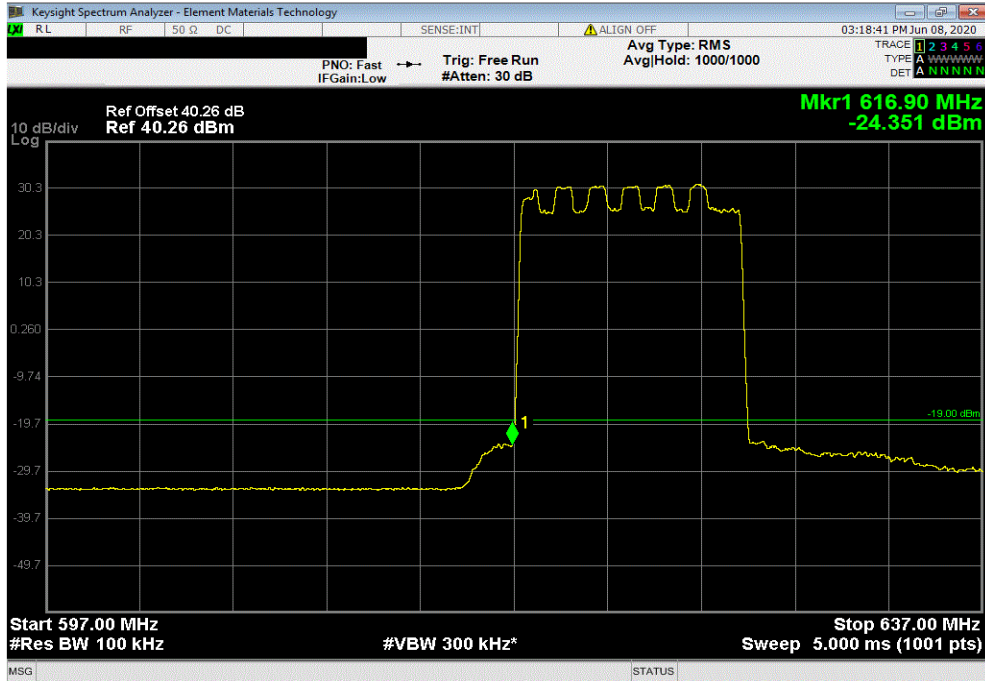


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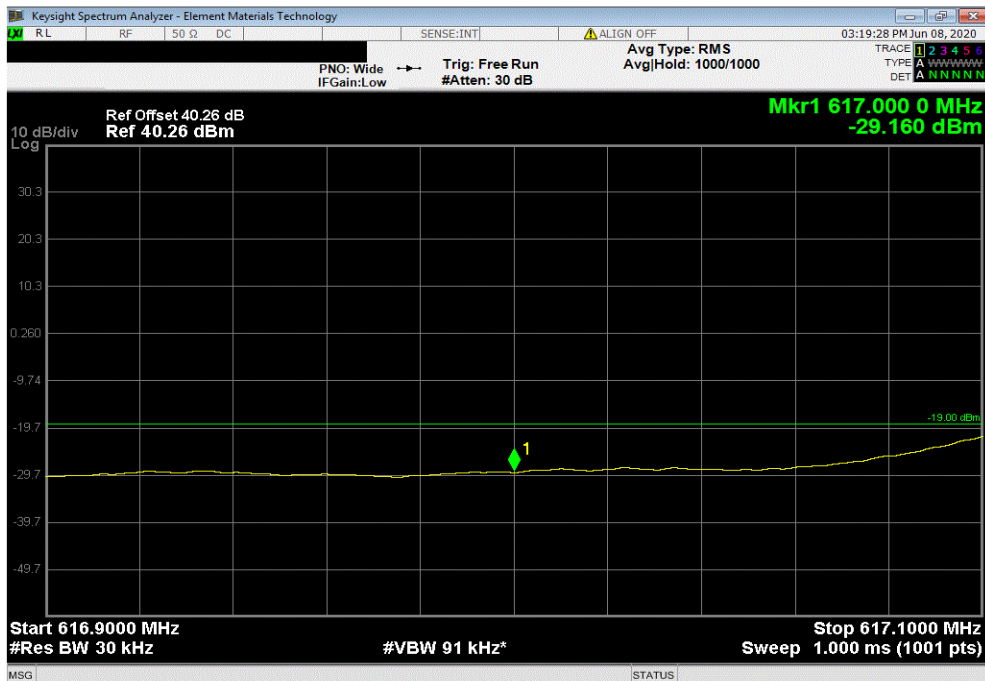


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| Port 1, Band 71, 617 MHz - 652 MHz, 10 MHz Bandwidth, 16-QAM Modulation, Low Channel, 622 MHz | | | | | | |
|---|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 616.9 | -24.35 | -19 | Pass | | | |



| Port 1, Band 71, 617 MHz - 652 MHz, 10 MHz Bandwidth, 16-QAM Modulation, Low Channel, 622 MHz | | | | | | |
|---|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 617 | -29.16 | -19 | Pass | | | |

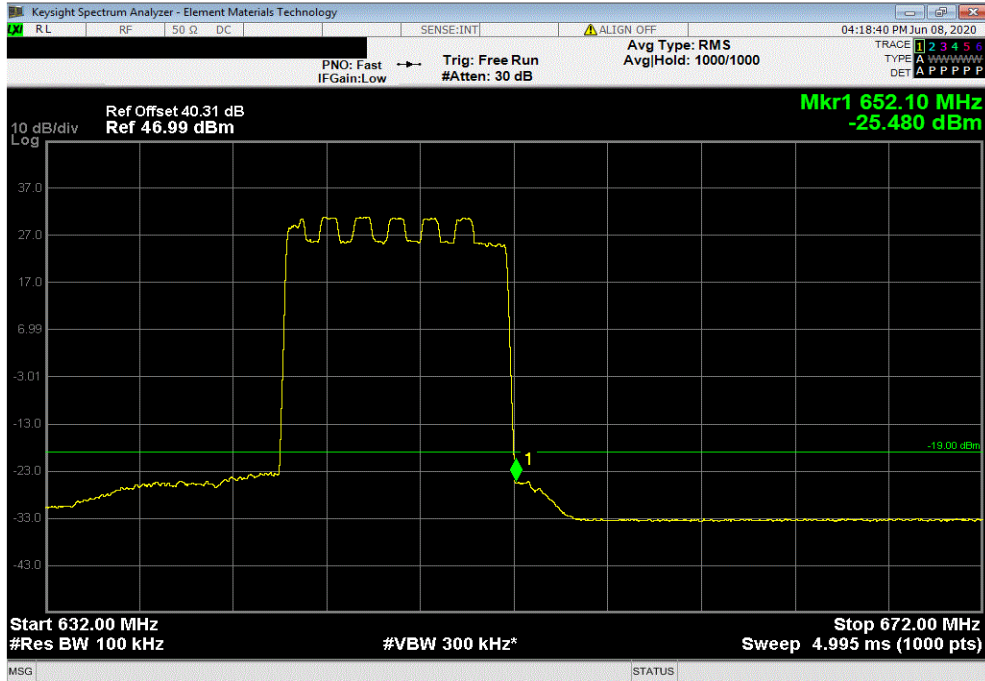


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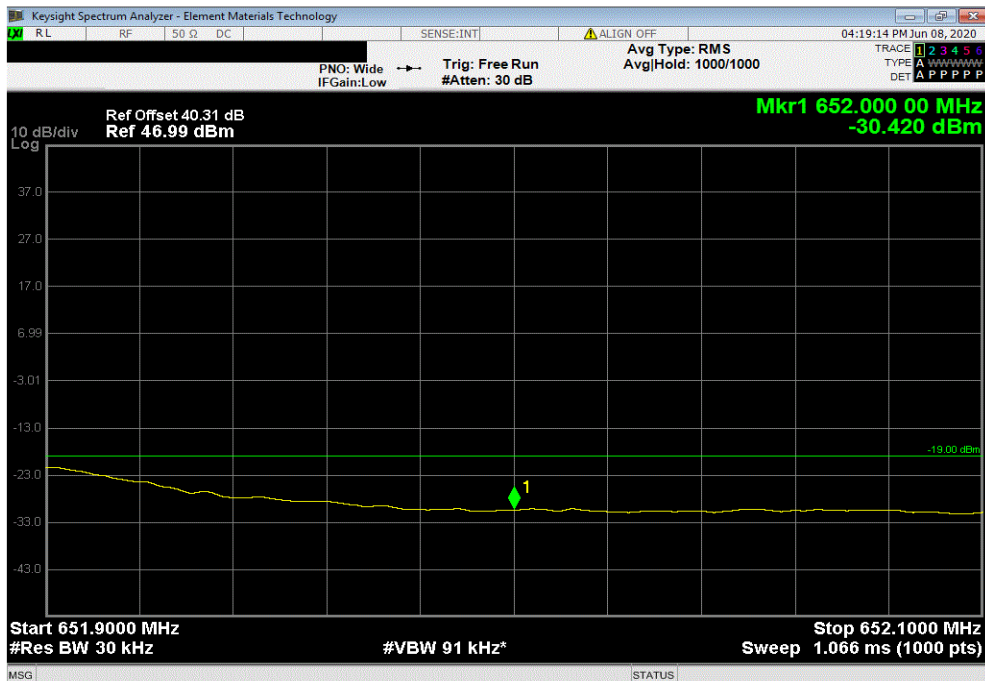


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| Port 1, Band 71, 617 MHz - 652 MHz, 10 MHz Bandwidth, 16-QAM Modulation, High Channel, 647 MHz | | | | | | |
|--|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 652.1 | -25.48 | -19 | Pass | | | |



| Port 1, Band 71, 617 MHz - 652 MHz, 10 MHz Bandwidth, 16-QAM Modulation, High Channel, 647 MHz | | | | | | |
|--|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 652 | -30.42 | -19 | Pass | | | |

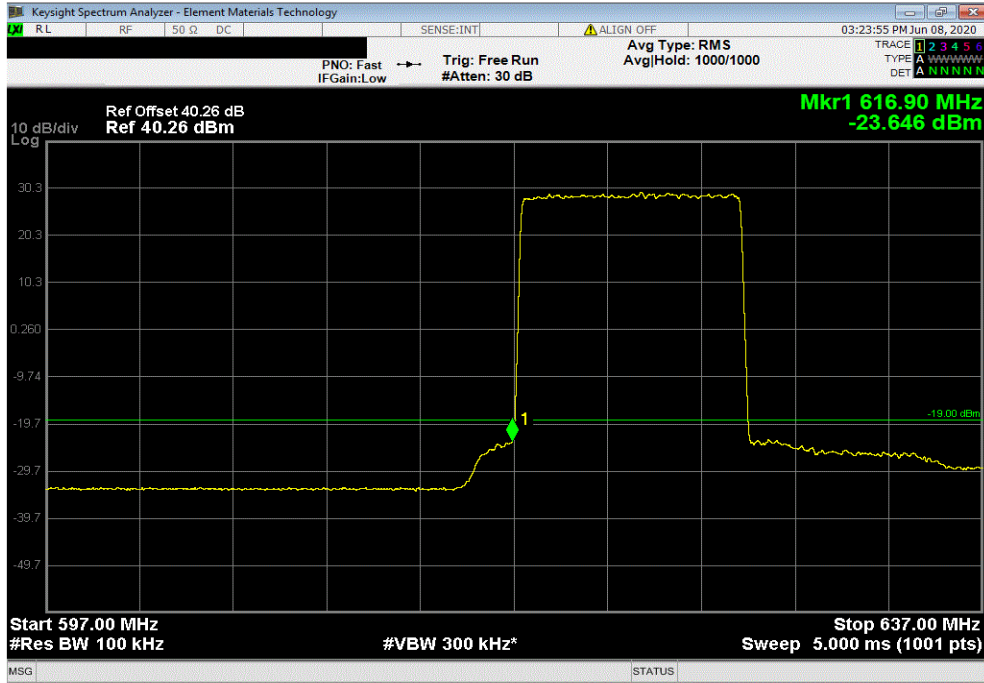


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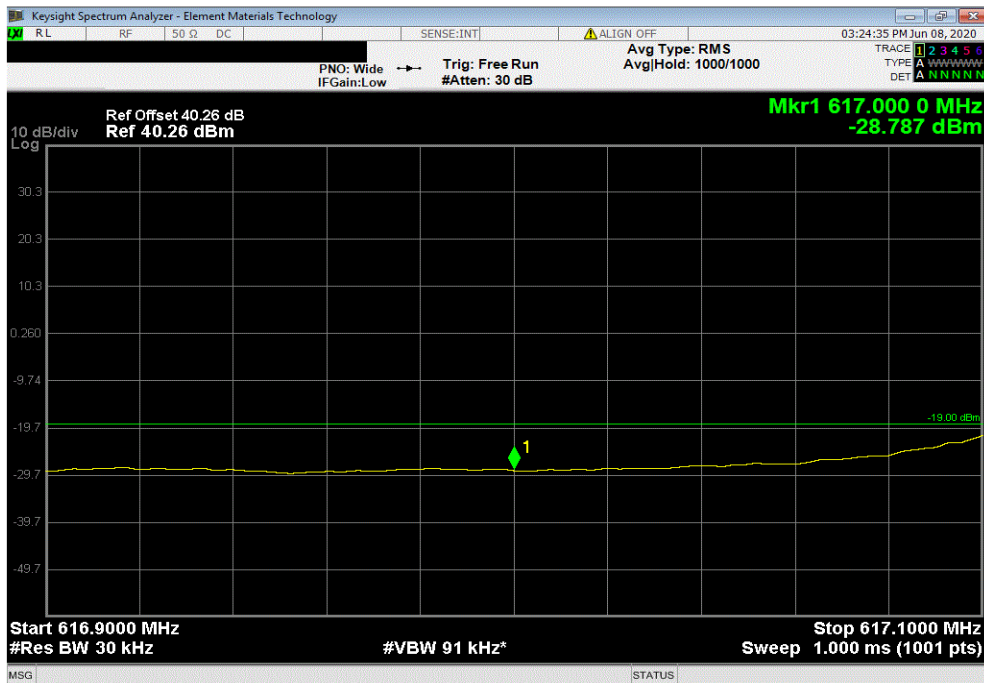


TMTX 2020.06.08.0 BETA XMI 2020.03.25.0

| Port 1, Band 71, 617 MHz - 652 MHz, 10 MHz Bandwidth, 64-QAM Modulation, Low Channel, 622 MHz | | | | | | |
|---|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 616.9 | -23.65 | -19 | Pass | | | |



| Port 1, Band 71, 617 MHz - 652 MHz, 10 MHz Bandwidth, 64-QAM Modulation, Low Channel, 622 MHz | | | | | | |
|---|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 617 | -28.79 | -19 | Pass | | | |

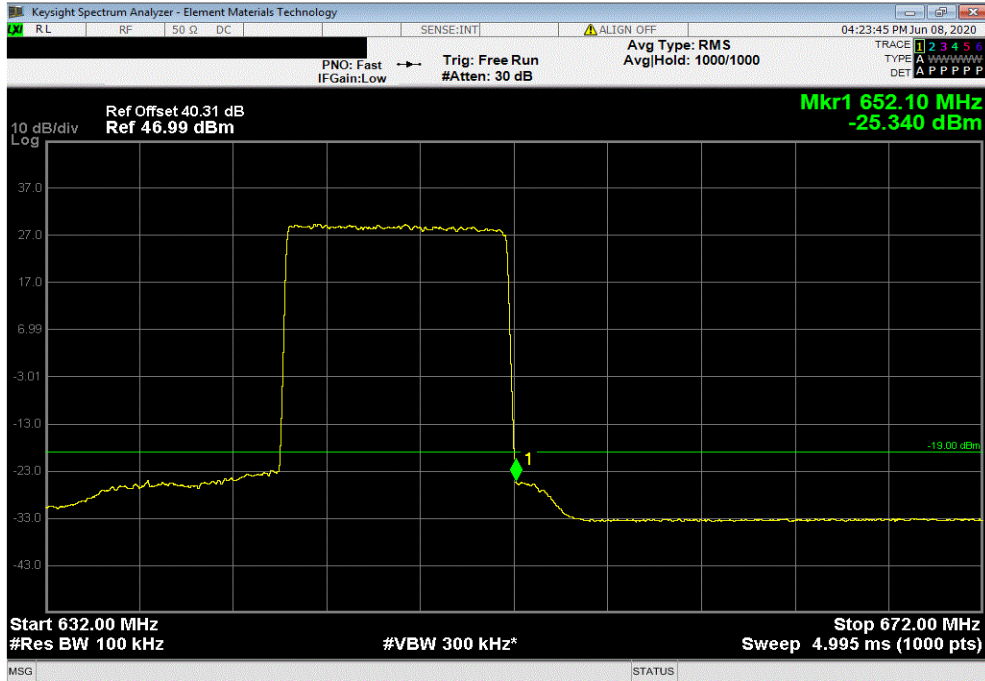


BAND EDGE COMPLIANCE

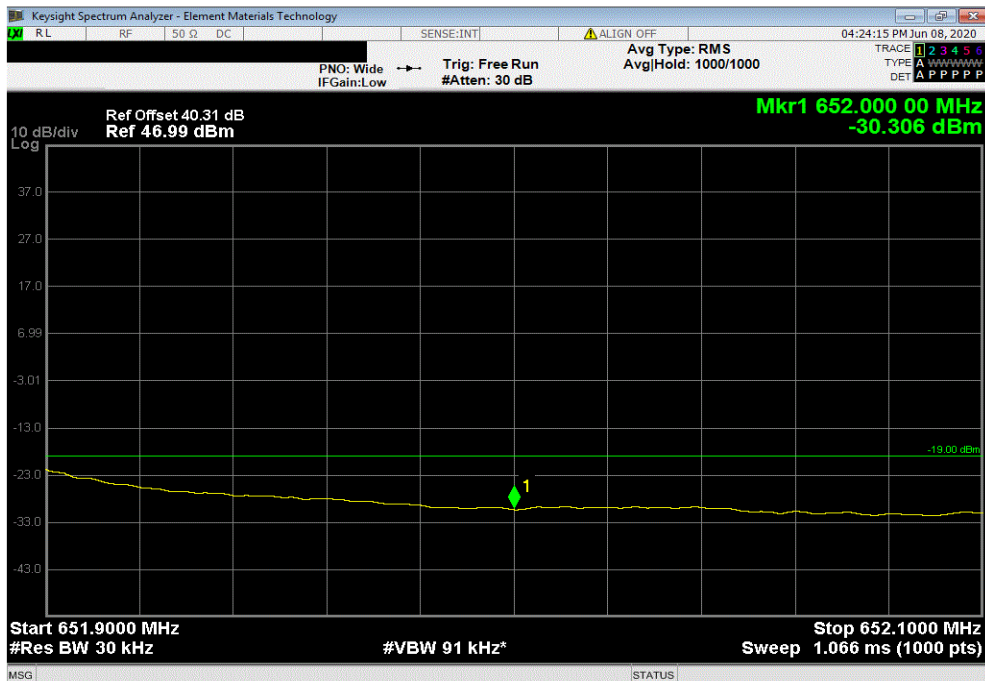


TMTX 2020.06.08.0 BETA XMI 2020.03.25.0

| Port 1, Band 71, 617 MHz - 652 MHz, 10 MHz Bandwidth, 64-QAM Modulation, High Channel, 647 MHz | | | | | | |
|--|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 652.1 | -25.34 | -19 | Pass | | | |



| Port 1, Band 71, 617 MHz - 652 MHz, 10 MHz Bandwidth, 64-QAM Modulation, High Channel, 647 MHz | | | | | | |
|--|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 652 | -30.31 | -19 | Pass | | | |

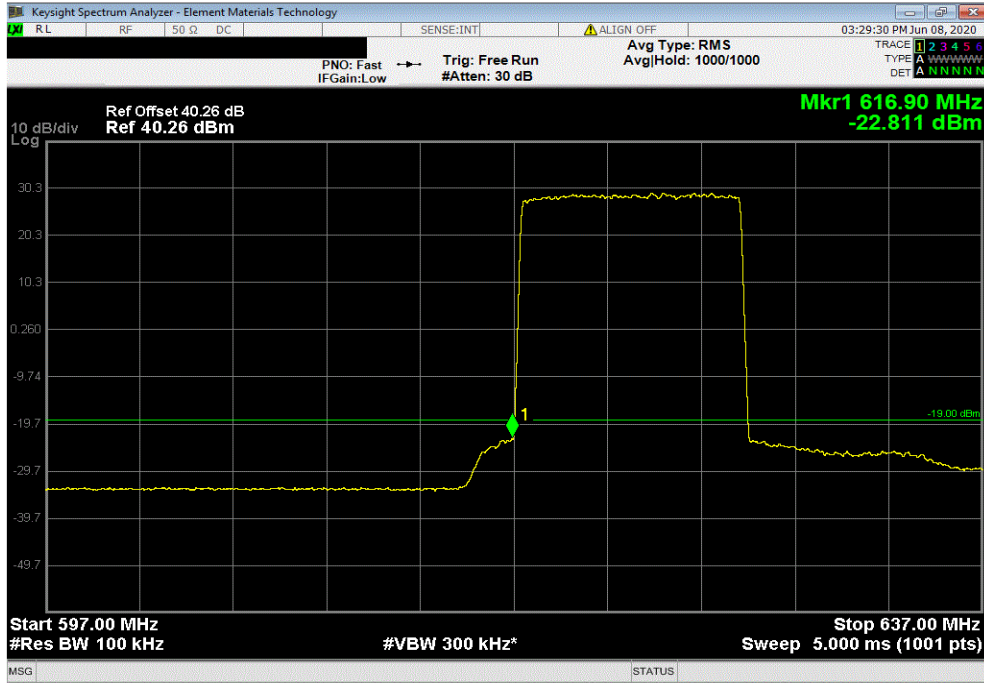


BAND EDGE COMPLIANCE

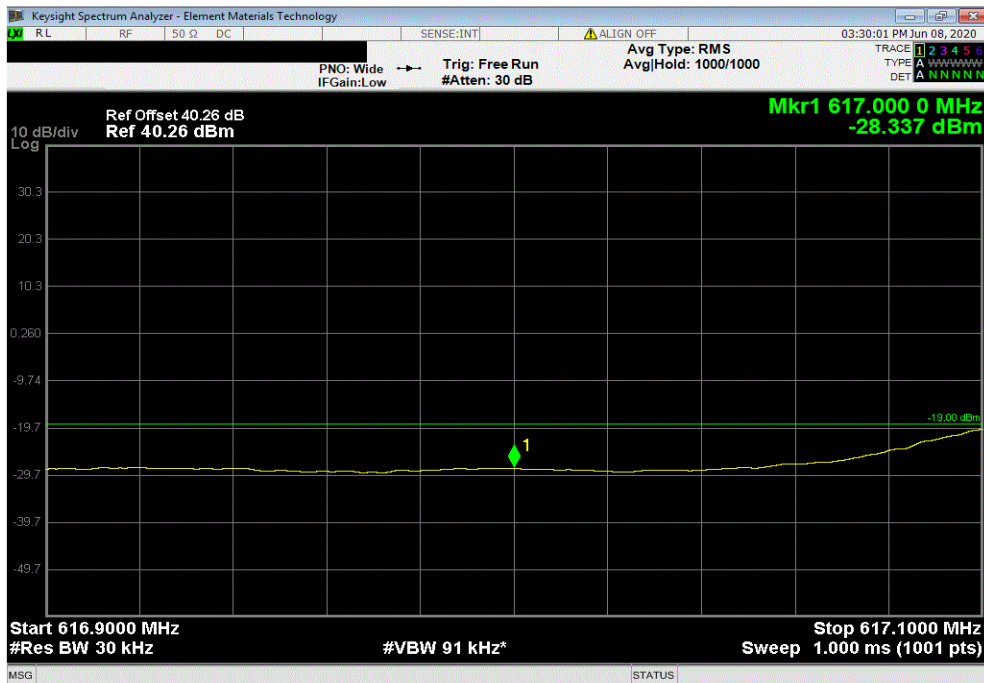


TMTX 2020.06.08.0 BETA XMI 2020.03.25.0

| Port 1, Band 71, 617 MHz - 652 MHz, 10 MHz Bandwidth, 256-QAM Modulation, Low Channel, 622 MHz | | | | | | |
|--|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 616.9 | -22.81 | -19 | Pass | | | |



| Port 1, Band 71, 617 MHz - 652 MHz, 10 MHz Bandwidth, 256-QAM Modulation, Low Channel, 622 MHz | | | | | | |
|--|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 617 | -28.34 | -19 | Pass | | | |

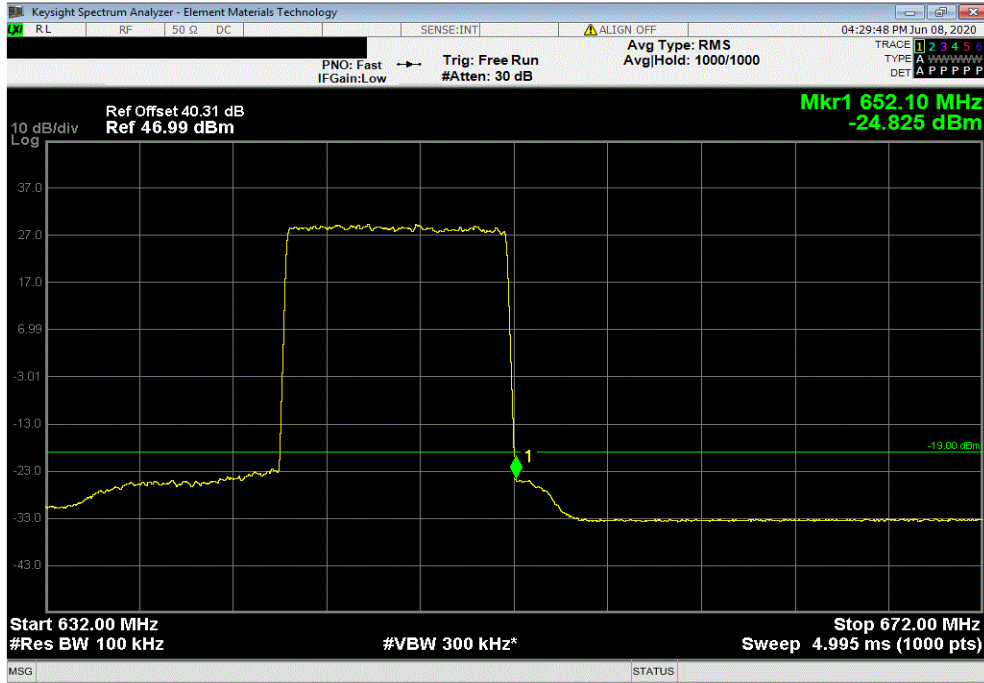


BAND EDGE COMPLIANCE

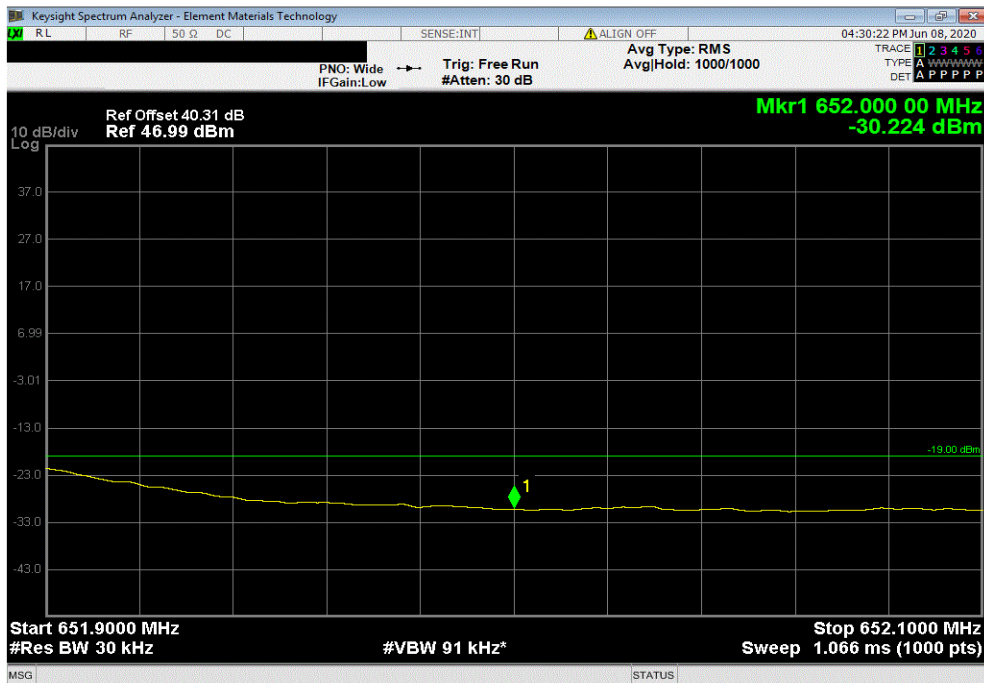


TMTX 2020.06.08.0 BETA XMI 2020.03.25.0

| Port 1, Band 71, 617 MHz - 652 MHz, 10 MHz Bandwidth, 256-QAM Modulation, High Channel, 647 MHz | | | | | | |
|---|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 652.1 | -24.83 | -19 | Pass | | | |



| Port 1, Band 71, 617 MHz - 652 MHz, 10 MHz Bandwidth, 256-QAM Modulation, High Channel, 647 MHz | | | | | | |
|---|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 652 | -30.22 | -19 | Pass | | | |

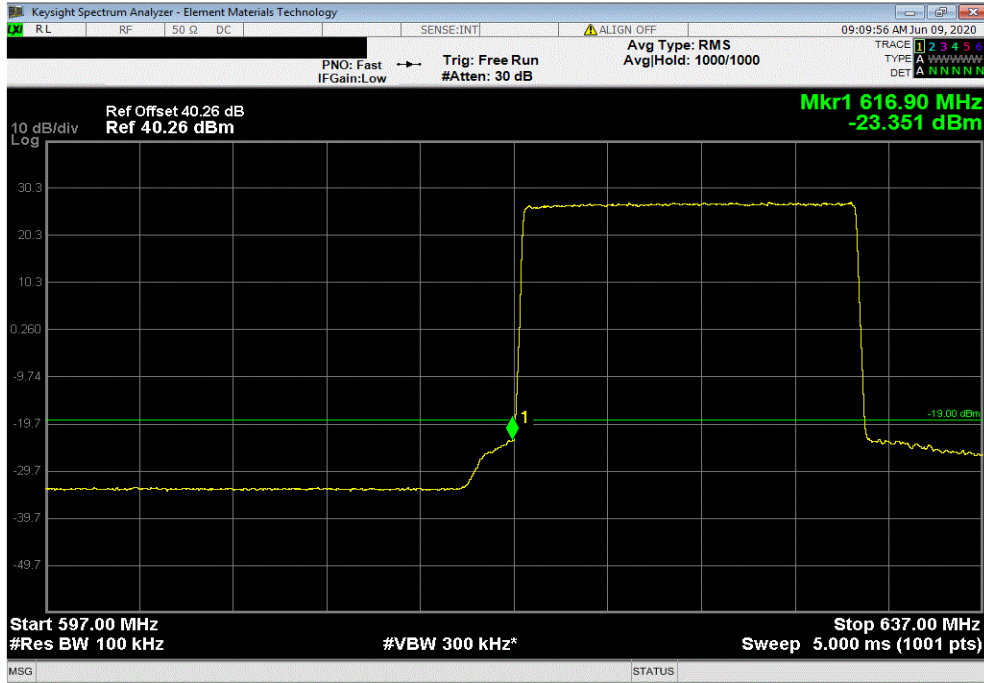


BAND EDGE COMPLIANCE

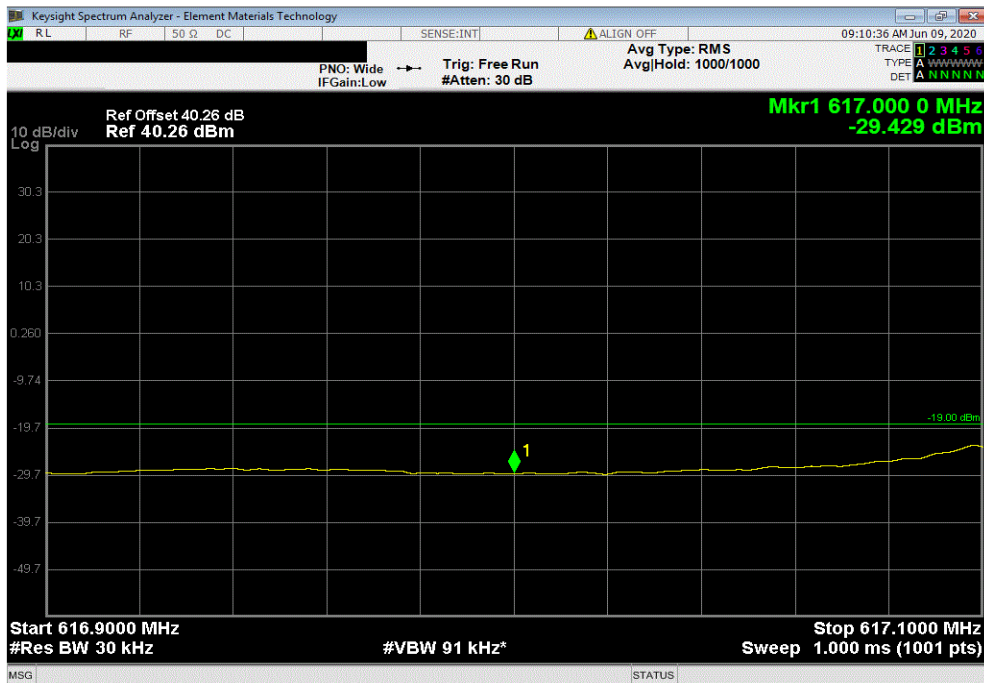


TMTX 2020.06.08.0 BETA XMI 2020.03.25.0

| Port 1, Band 71, 617 MHz - 652 MHz, 15 MHz Bandwidth, QPSK Modulation, Low Channel, 624.5 MHz | | | | | | |
|---|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 616.9 | -23.35 | -19 | Pass | | | |



| Port 1, Band 71, 617 MHz - 652 MHz, 15 MHz Bandwidth, QPSK Modulation, Low Channel, 624.5 MHz | | | | | | |
|---|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 617 | -29.43 | -19 | Pass | | | |

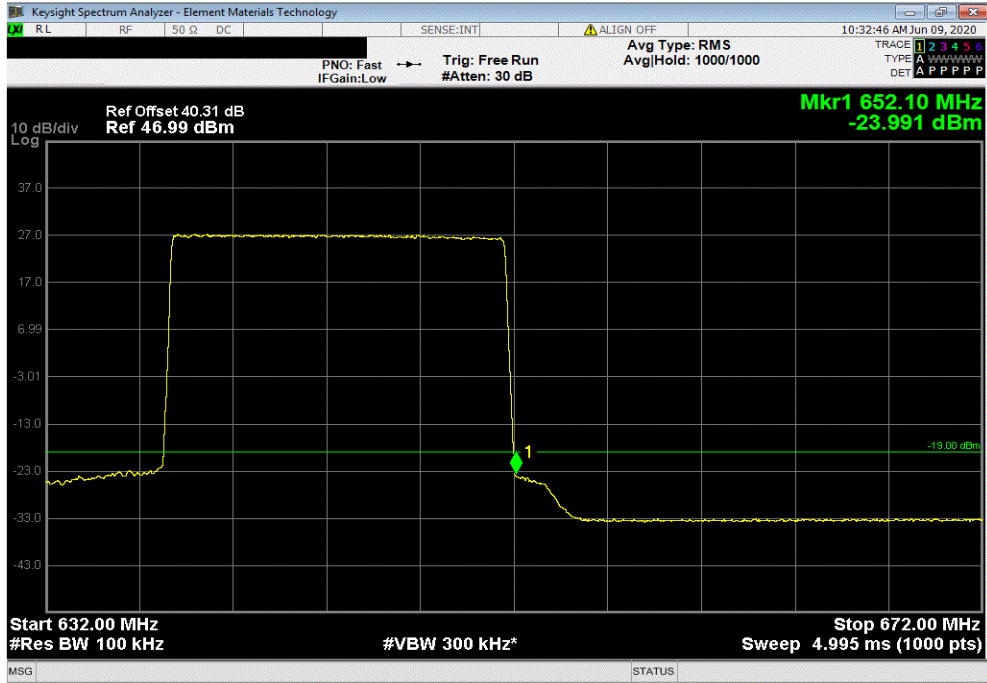


BAND EDGE COMPLIANCE

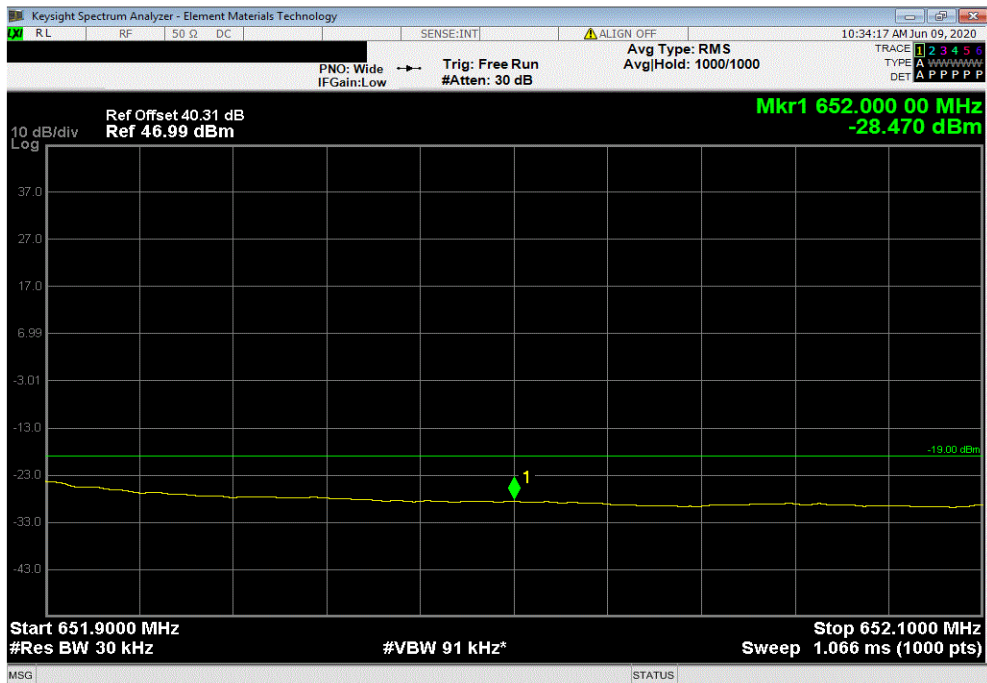


TMTX 2020.06.08.0 BETA XMI 2020.03.25.0

| Port 1, Band 71, 617 MHz - 652 MHz, 15 MHz Bandwidth, QPSK Modulation, High Channel, 644.5 MHz | | | | | | |
|--|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 652.1 | -23.99 | -19 | Pass | | | |



| Port 1, Band 71, 617 MHz - 652 MHz, 15 MHz Bandwidth, QPSK Modulation, High Channel, 644.5 MHz | | | | | | |
|--|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 652 | -28.47 | -19 | Pass | | | |

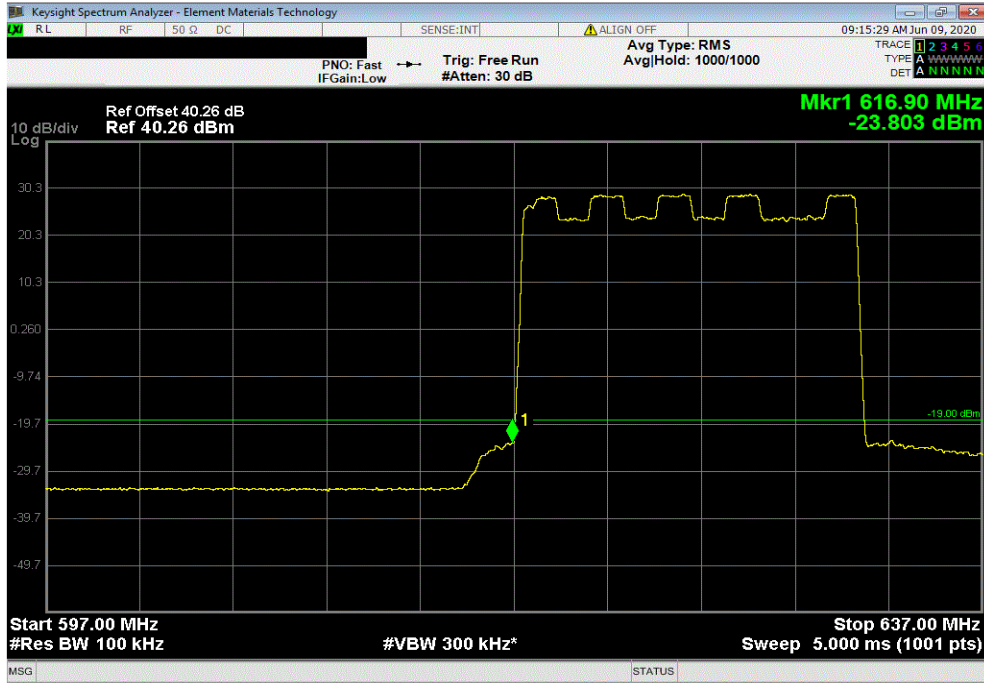


BAND EDGE COMPLIANCE

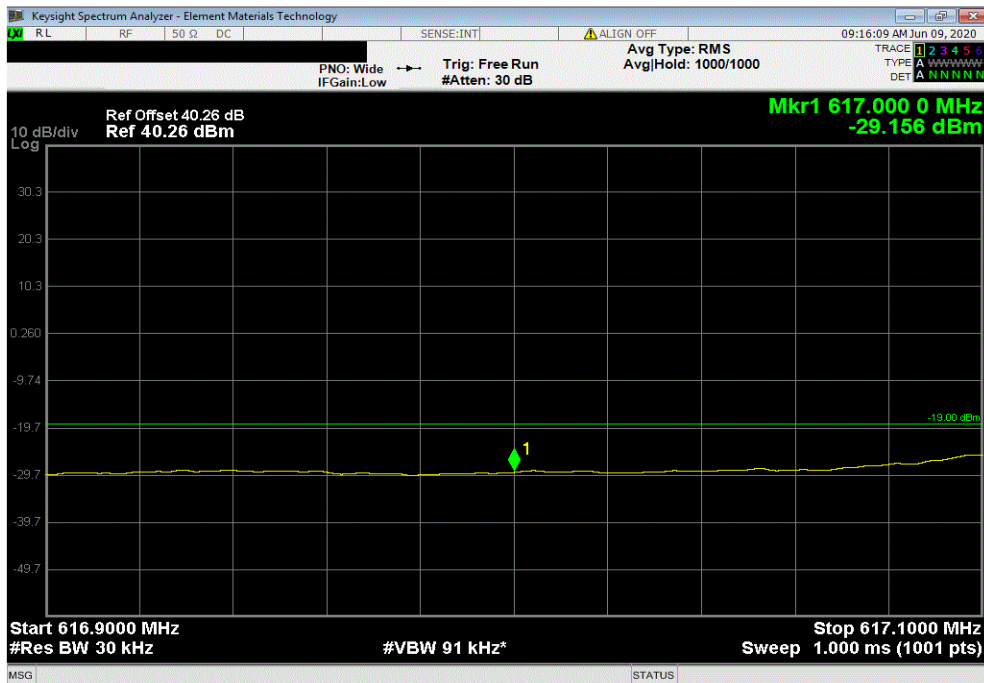


TMTX 2020.06.08.0 BETA XMI 2020.03.25.0

| Port 1, Band 71, 617 MHz - 652 MHz, 15 MHz Bandwidth, 16-QAM Modulation, Low Channel, 624.5 MHz | | | | | | |
|---|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 616.9 | -23.8 | -19 | Pass | | | |



| Port 1, Band 71, 617 MHz - 652 MHz, 15 MHz Bandwidth, 16-QAM Modulation, Low Channel, 624.5 MHz | | | | | | |
|---|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 617 | -29.16 | -19 | Pass | | | |

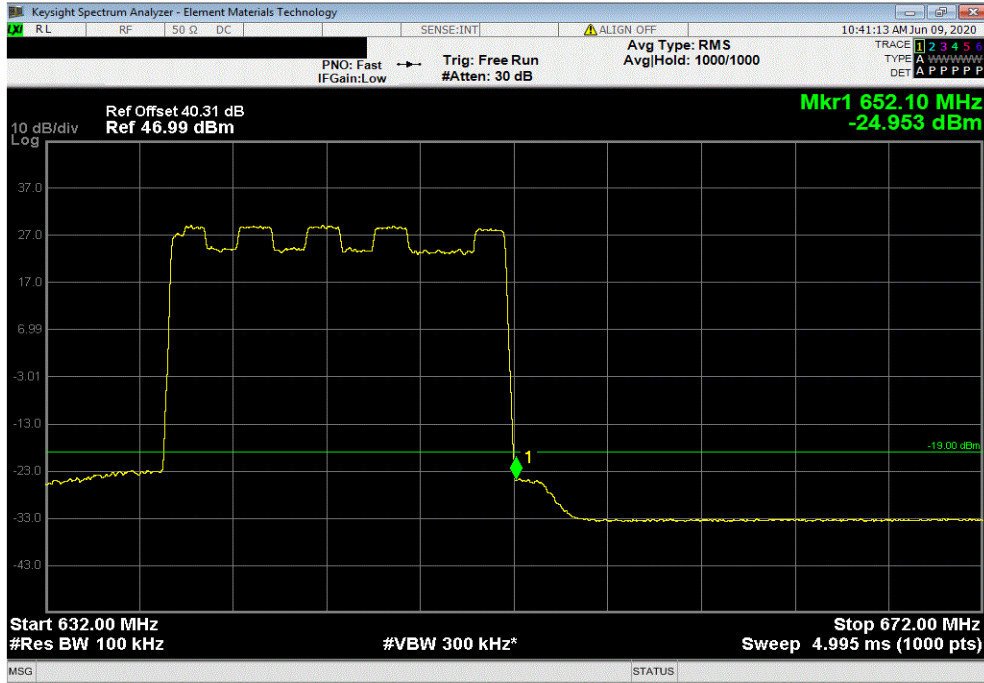


BAND EDGE COMPLIANCE

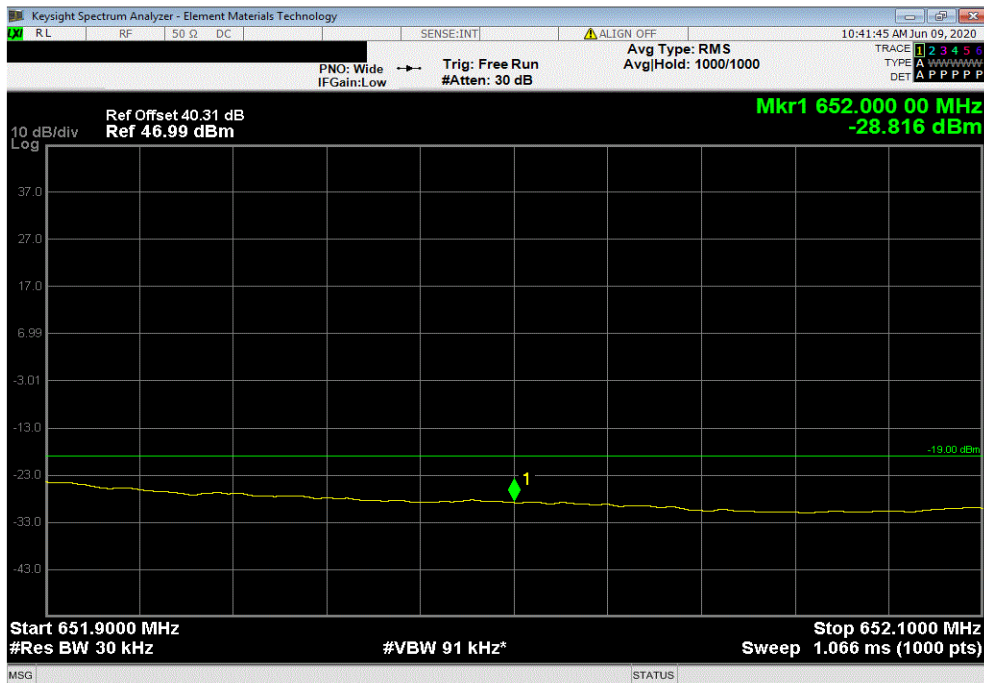


TMTX 2020.06.08.0 BETA XMI 2020.03.25.0

| Port 1, Band 71, 617 MHz - 652 MHz, 15 MHz Bandwidth, 16-QAM Modulation, High Channel, 644.5 MHz | | | | | | |
|--|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 652.1 | -24.95 | -19 | Pass | | | |



| Port 1, Band 71, 617 MHz - 652 MHz, 15 MHz Bandwidth, 16-QAM Modulation, High Channel, 644.5 MHz | | | | | | |
|--|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 652 | -28.82 | -19 | Pass | | | |

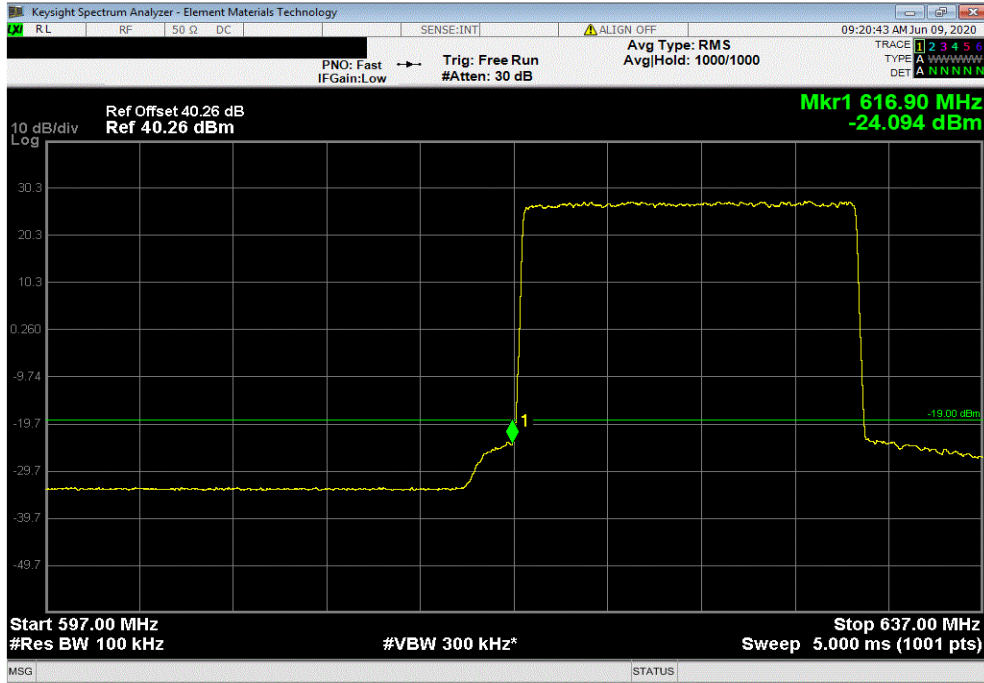


BAND EDGE COMPLIANCE

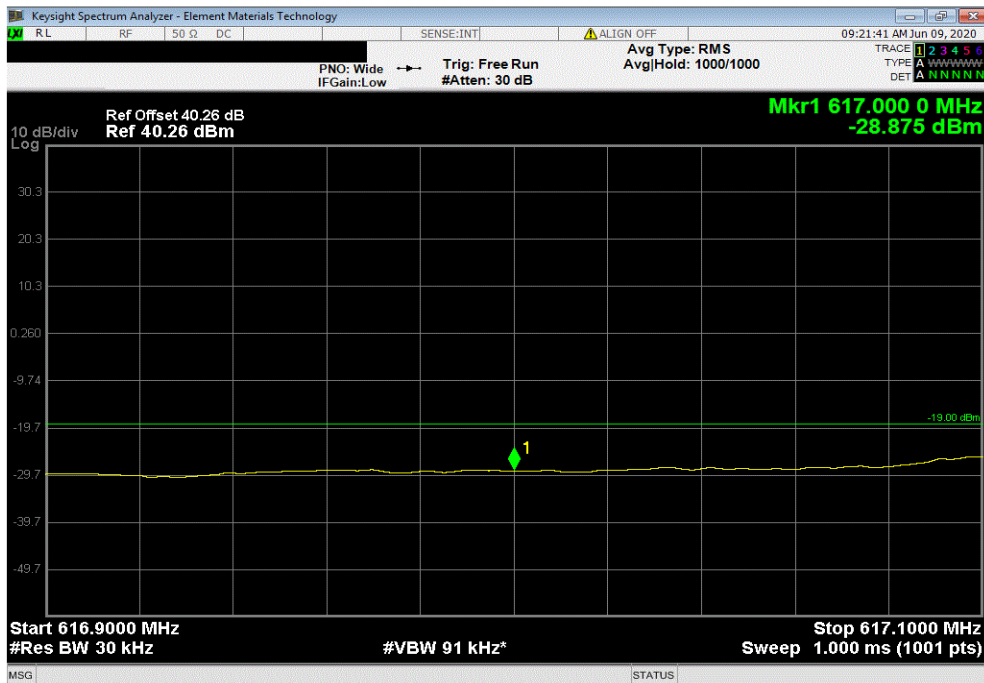


TMTX 2020.06.08.0 BETA XMI 2020.03.25.0

| Port 1, Band 71, 617 MHz - 652 MHz, 15 MHz Bandwidth, 64-QAM Modulation, Low Channel, 624.5 MHz | | | | | | |
|---|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 616.9 | -24.09 | -19 | Pass | | | |



| Port 1, Band 71, 617 MHz - 652 MHz, 15 MHz Bandwidth, 64-QAM Modulation, Low Channel, 624.5 MHz | | | | | | |
|---|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 617 | -28.88 | -19 | Pass | | | |

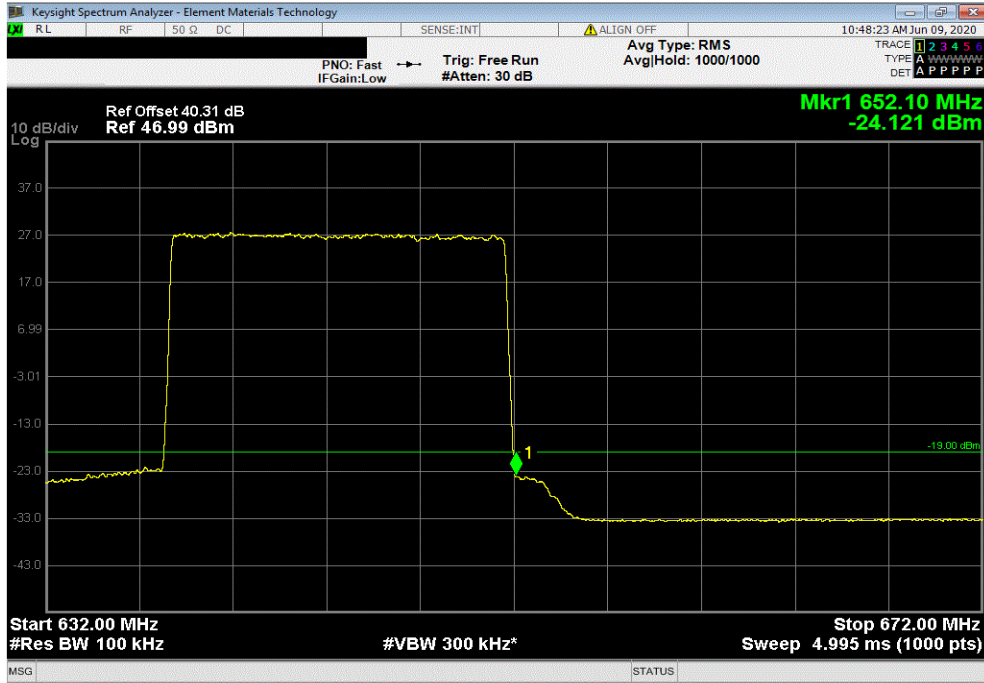


BAND EDGE COMPLIANCE

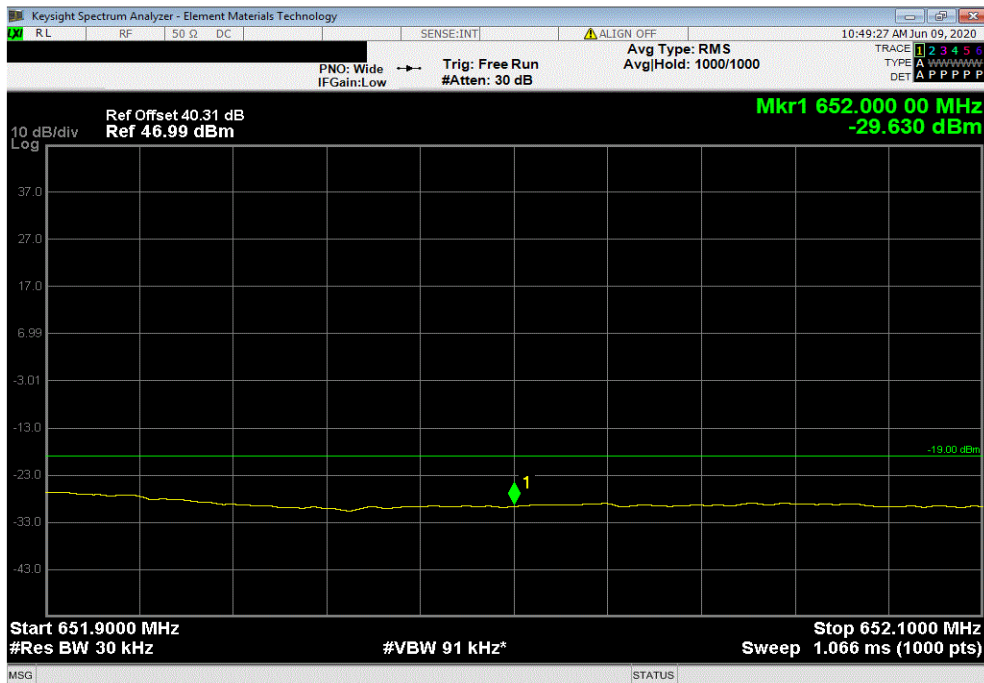


TMTX 2020.06.08.0 BETA XMI 2020.03.25.0

| Port 1, Band 71, 617 MHz - 652 MHz, 15 MHz Bandwidth, 64-QAM Modulation, High Channel, 644.5 MHz | | | | | | |
|--|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 652.1 | -24.12 | -19 | Pass | | | |



| Port 1, Band 71, 617 MHz - 652 MHz, 15 MHz Bandwidth, 64-QAM Modulation, High Channel, 644.5 MHz | | | | | | |
|--|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 652 | -29.63 | -19 | Pass | | | |

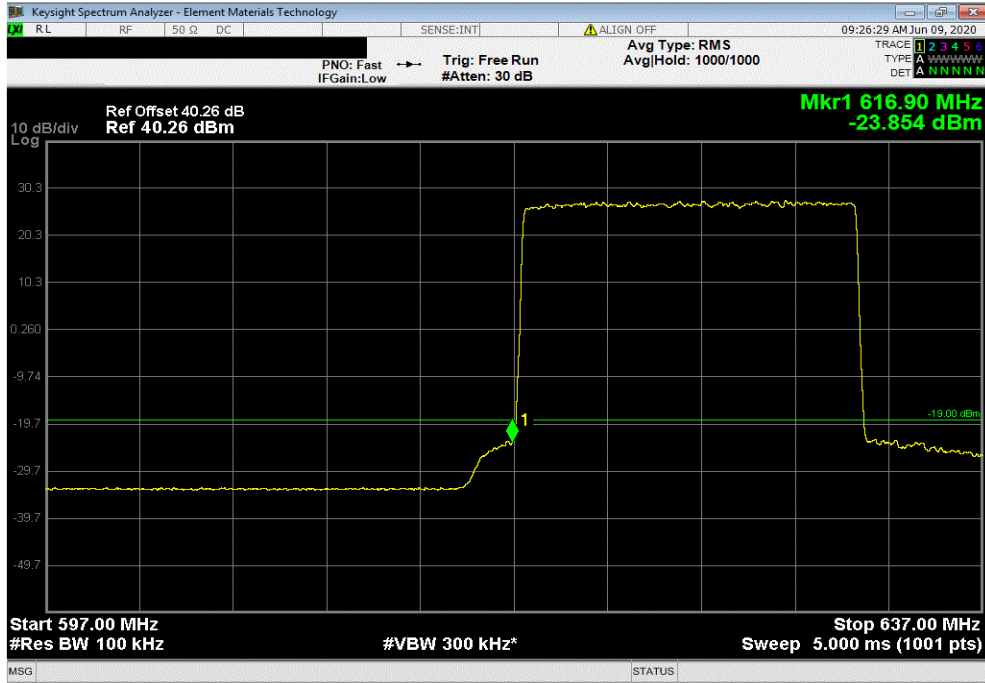


BAND EDGE COMPLIANCE

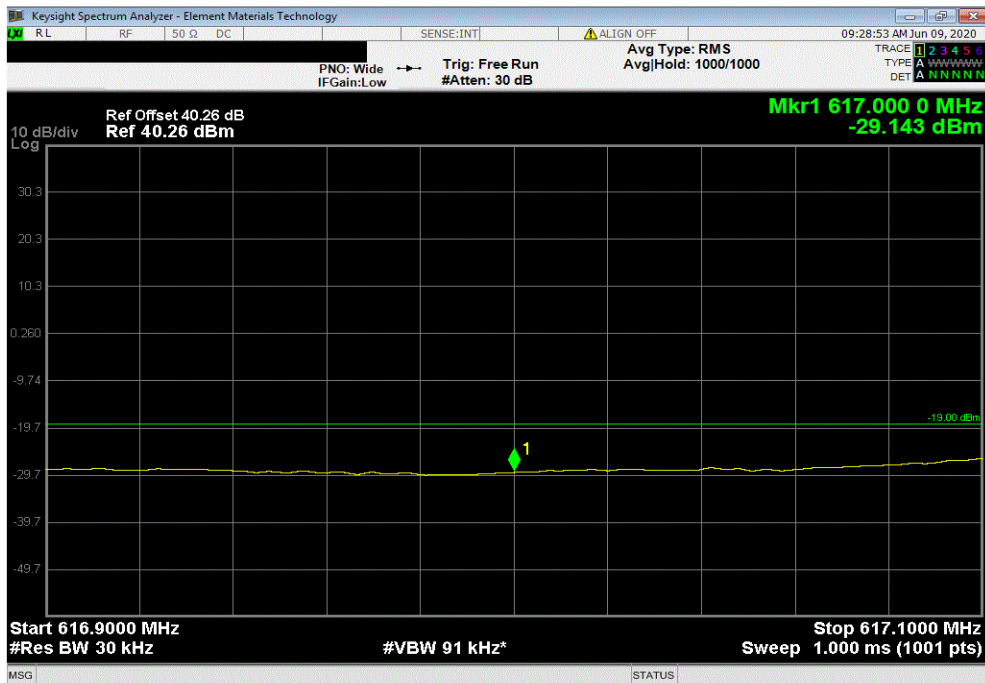


TMTX 2020.06.08.0 BETA XMI 2020.03.25.0

| Port 1, Band 71, 617 MHz - 652 MHz, 15 MHz Bandwidth, 256-QAM Modulation, Low Channel, 624.5 MHz | | | | | | |
|--|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 616.9 | -23.85 | -19 | Pass | | | |



| Port 1, Band 71, 617 MHz - 652 MHz, 15 MHz Bandwidth, 256-QAM Modulation, Low Channel, 624.5 MHz | | | | | | |
|--|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 617 | -29.14 | -19 | Pass | | | |

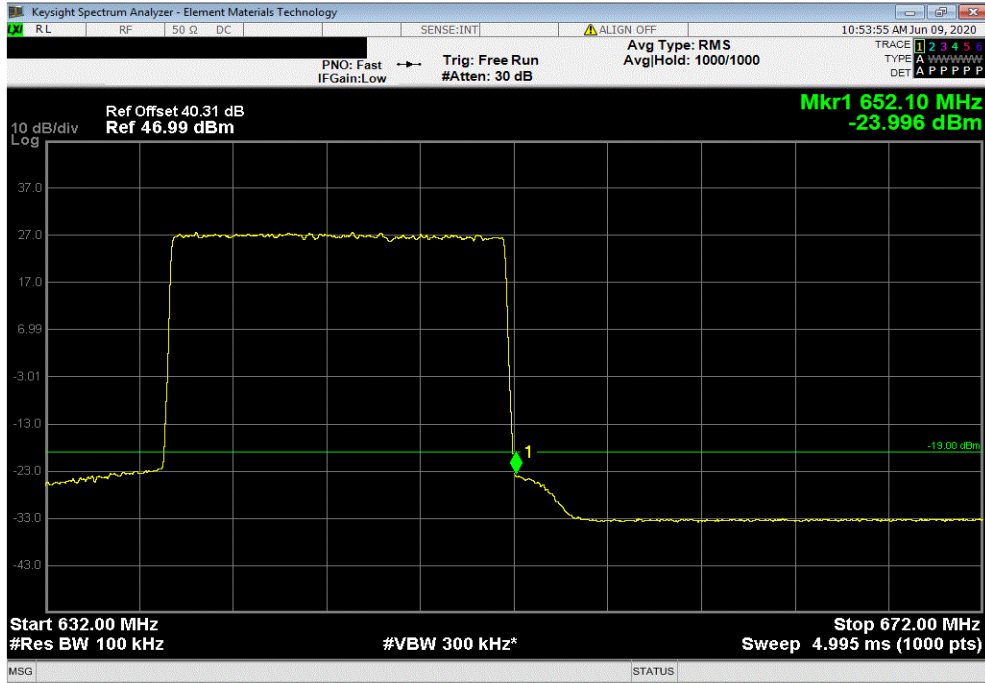


BAND EDGE COMPLIANCE

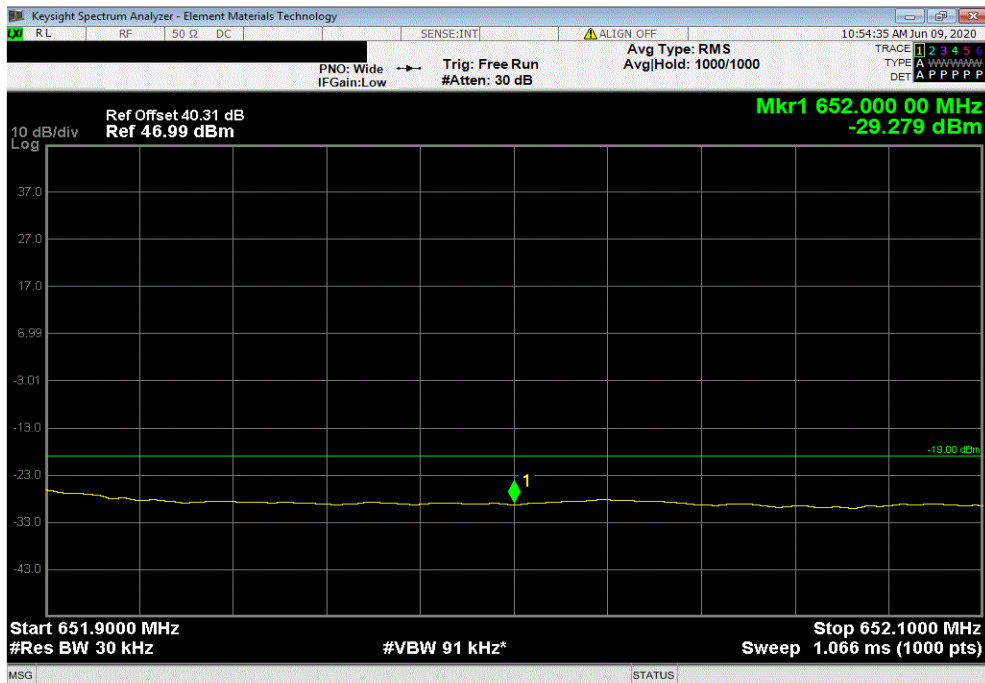


TMTX 2020.06.08.0 BETA XMI 2020.03.25.0

| Port 1, Band 71, 617 MHz - 652 MHz, 15 MHz Bandwidth, 256-QAM Modulation, High Channel, 644.5 MHz | | | | | | |
|---|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 652.1 | -24 | -19 | Pass | | | |



| Port 1, Band 71, 617 MHz - 652 MHz, 15 MHz Bandwidth, 256-QAM Modulation, High Channel, 644.5 MHz | | | | | | |
|---|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 652 | -29.28 | -19 | Pass | | | |

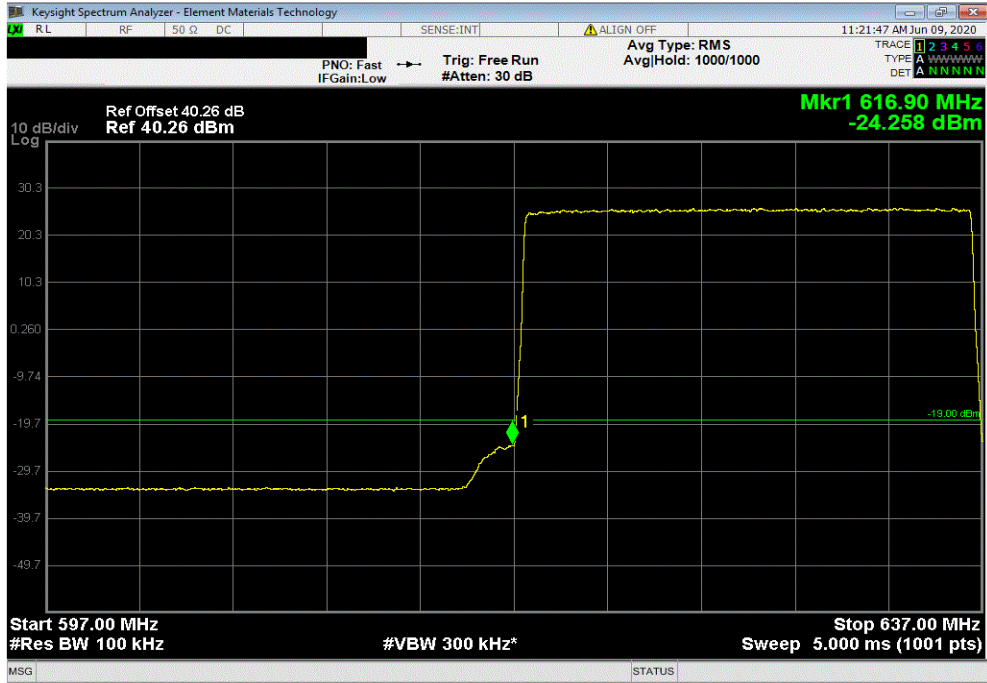


BAND EDGE COMPLIANCE

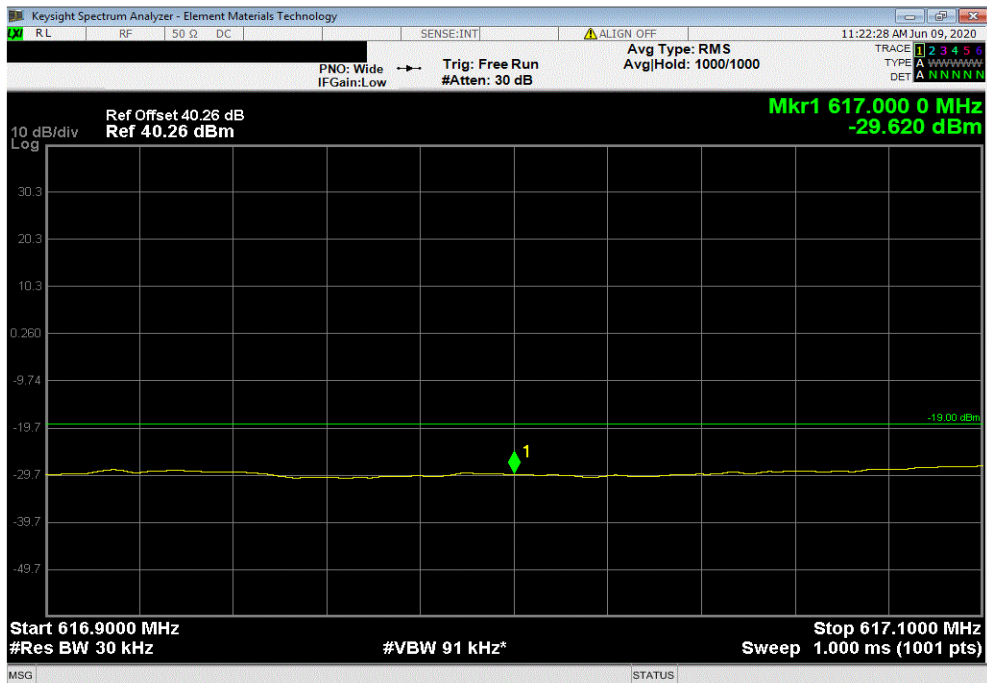


TMTX 2020.06.08.0 BETA XMI 2020.03.25.0

| Port 1, Band 71, 617 MHz - 652 MHz, 20 MHz Bandwidth, QPSK Modulation, Low Channel, 627 MHz | | | | | | |
|---|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 616.9 | -24.26 | -19 | Pass | | | |



| Port 1, Band 71, 617 MHz - 652 MHz, 20 MHz Bandwidth, QPSK Modulation, Low Channel, 627 MHz | | | | | | |
|---|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 617 | -29.62 | -19 | Pass | | | |

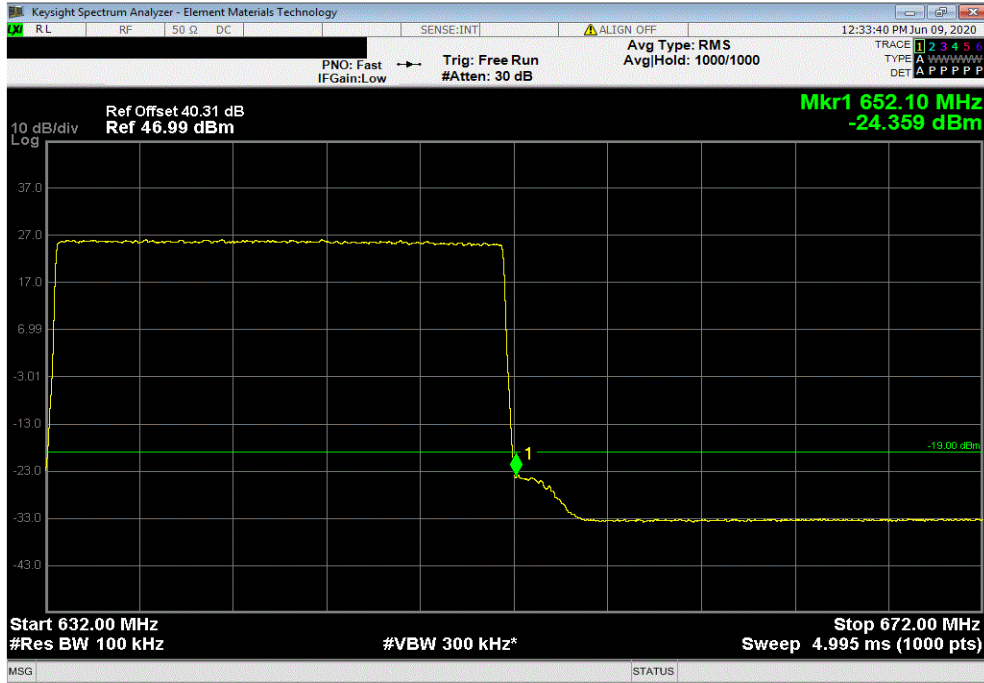


BAND EDGE COMPLIANCE

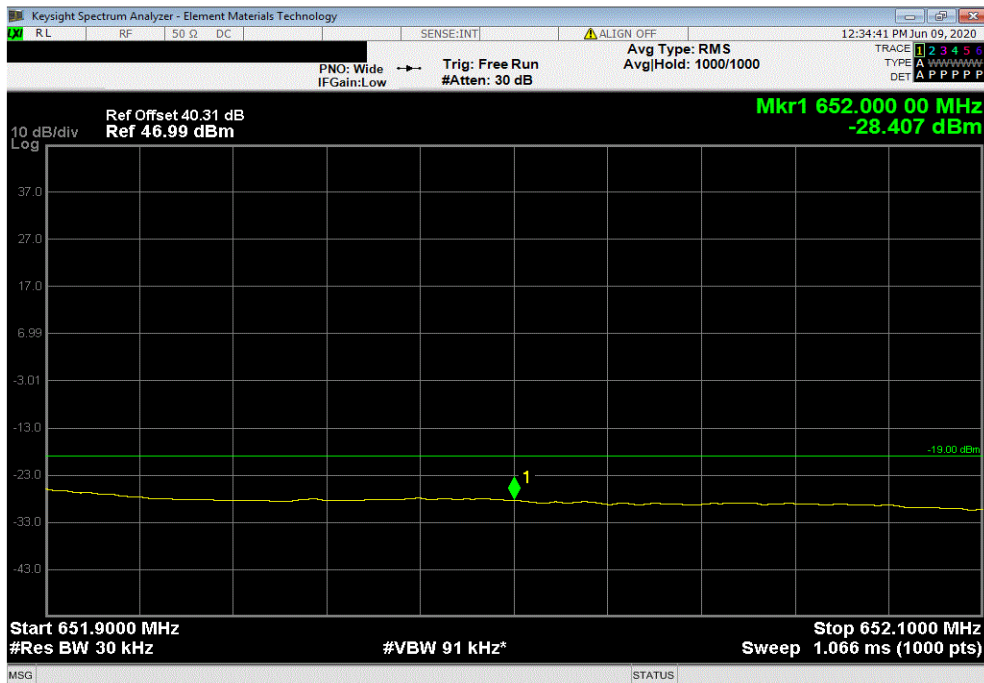


TMTX 2020.06.08.0 BETA XMI 2020.03.25.0

| Port 1, Band 71, 617 MHz - 652 MHz, 20 MHz Bandwidth, QPSK Modulation, High Channel, 642 MHz | | | | | | |
|--|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 652.1 | -24.36 | -19 | Pass | | | |



| Port 1, Band 71, 617 MHz - 652 MHz, 20 MHz Bandwidth, QPSK Modulation, High Channel, 642 MHz | | | | | | |
|--|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 652 | -28.41 | -19 | Pass | | | |

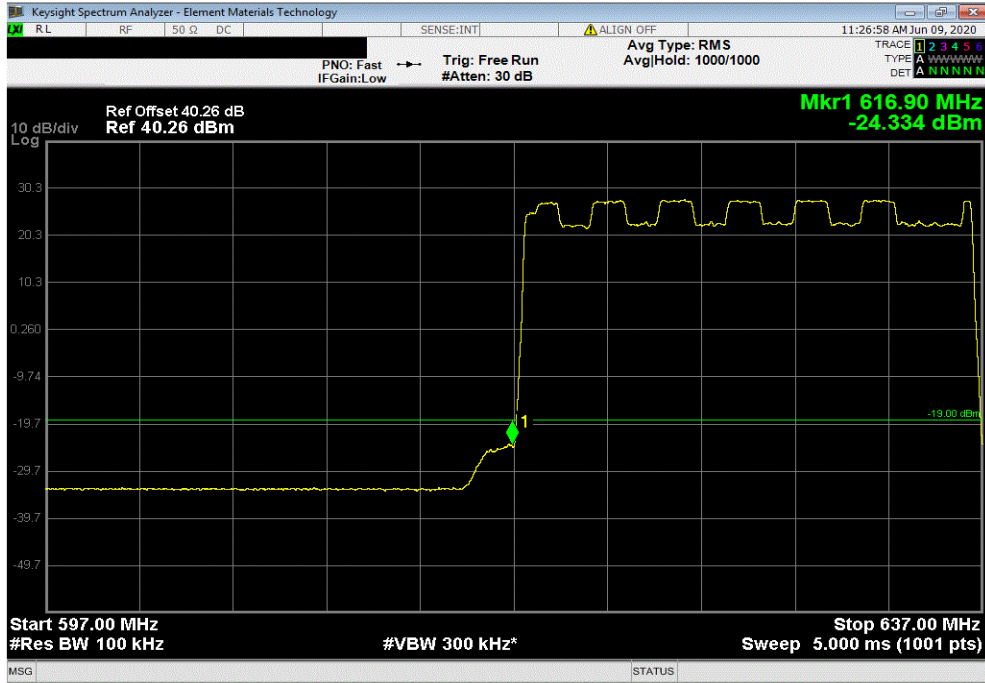


BAND EDGE COMPLIANCE

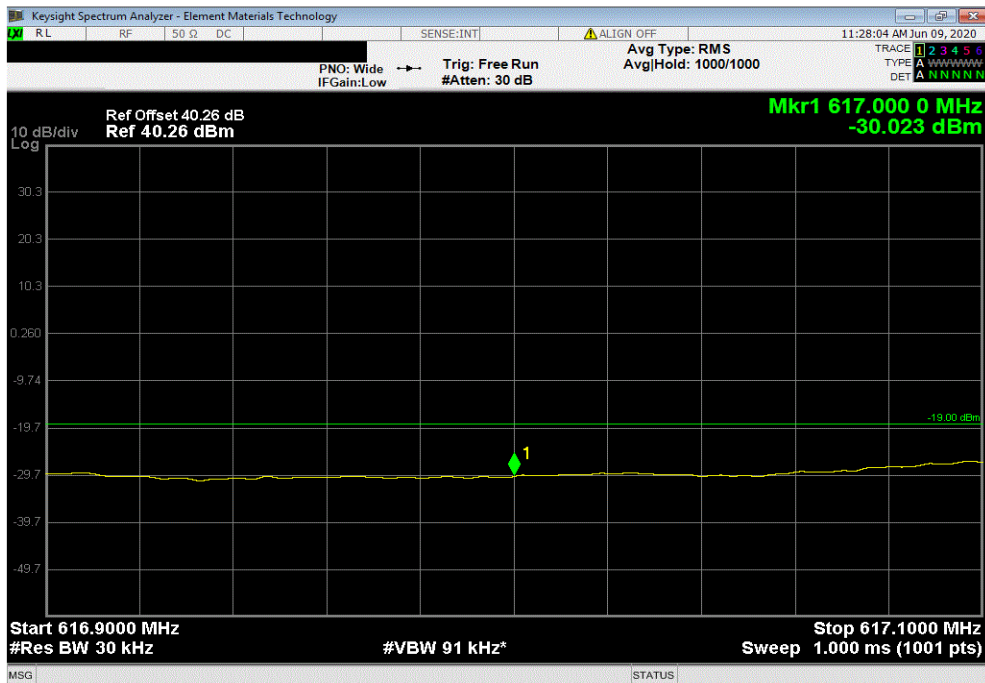


TMTX 2020.06.08.0 BETA XMI 2020.03.25.0

| Port 1, Band 71, 617 MHz - 652 MHz, 20 MHz Bandwidth, 16-QAM Modulation, Low Channel, 627 MHz | | | | | | |
|---|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 616.9 | -24.33 | -19 | Pass | | | |



| Port 1, Band 71, 617 MHz - 652 MHz, 20 MHz Bandwidth, 16-QAM Modulation, Low Channel, 627 MHz | | | | | | |
|---|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 617 | -30.02 | -19 | Pass | | | |

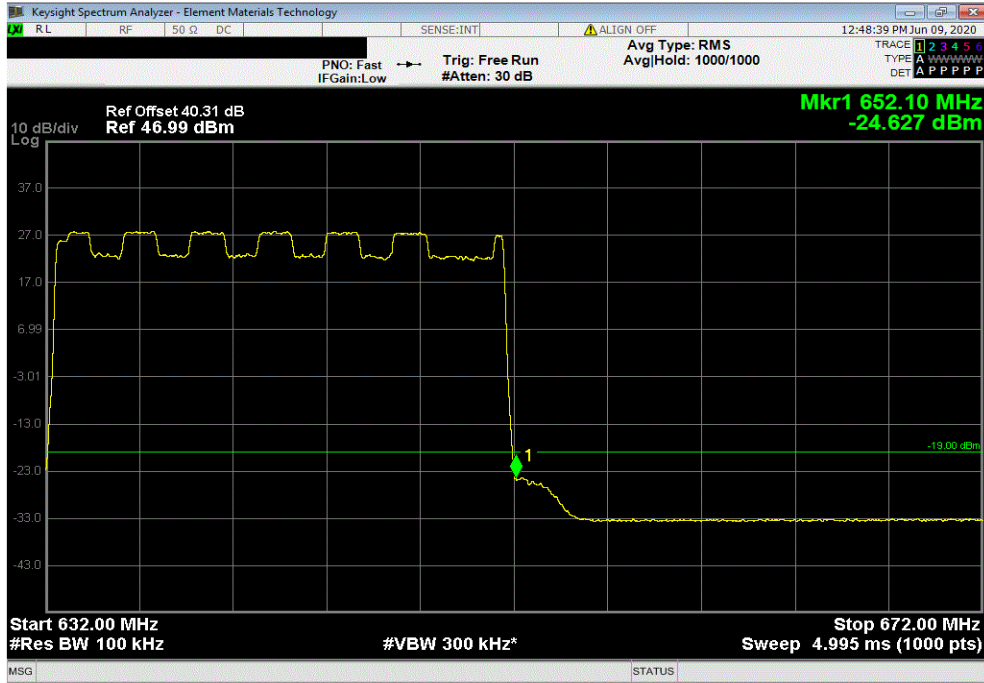


BAND EDGE COMPLIANCE

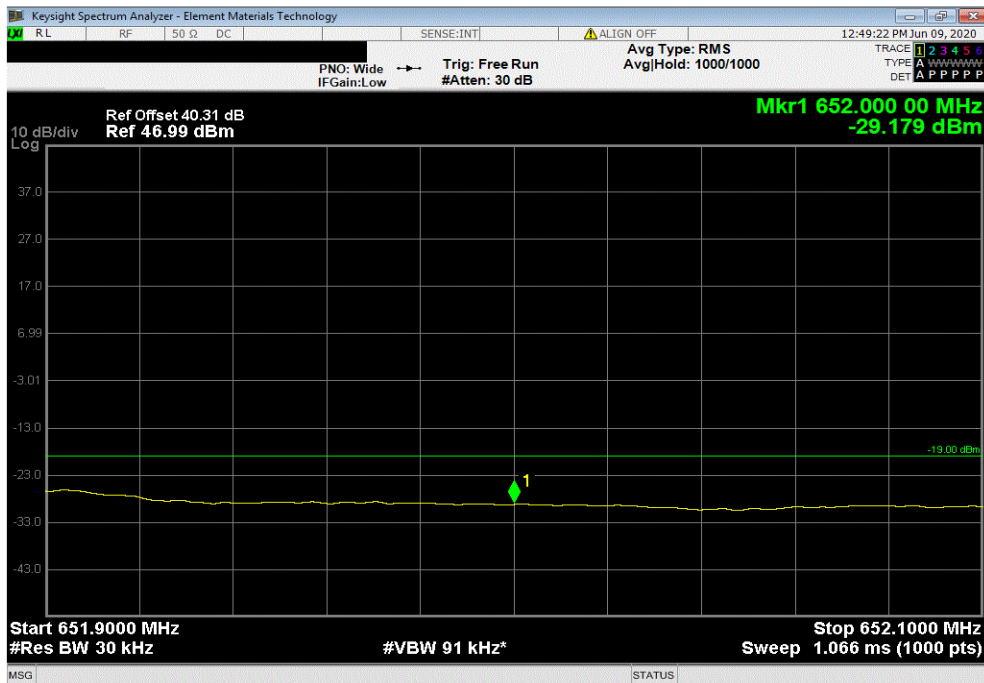


TMTX 2020.06.08.0 BETA XMI 2020.03.25.0

| Port 1, Band 71, 617 MHz - 652 MHz, 20 MHz Bandwidth, 16-QAM Modulation, High Channel, 642 MHz | | | | | | |
|--|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 652.1 | -24.63 | -19 | Pass | | | |



| Port 1, Band 71, 617 MHz - 652 MHz, 20 MHz Bandwidth, 16-QAM Modulation, High Channel, 642 MHz | | | | | | |
|--|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 652 | -29.18 | -19 | Pass | | | |

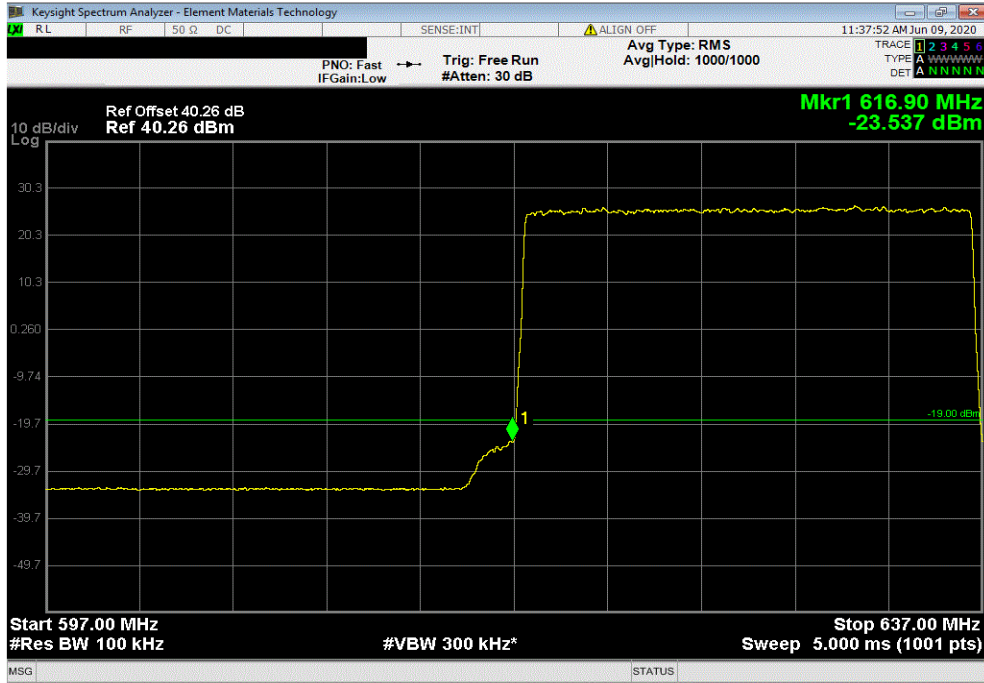


BAND EDGE COMPLIANCE

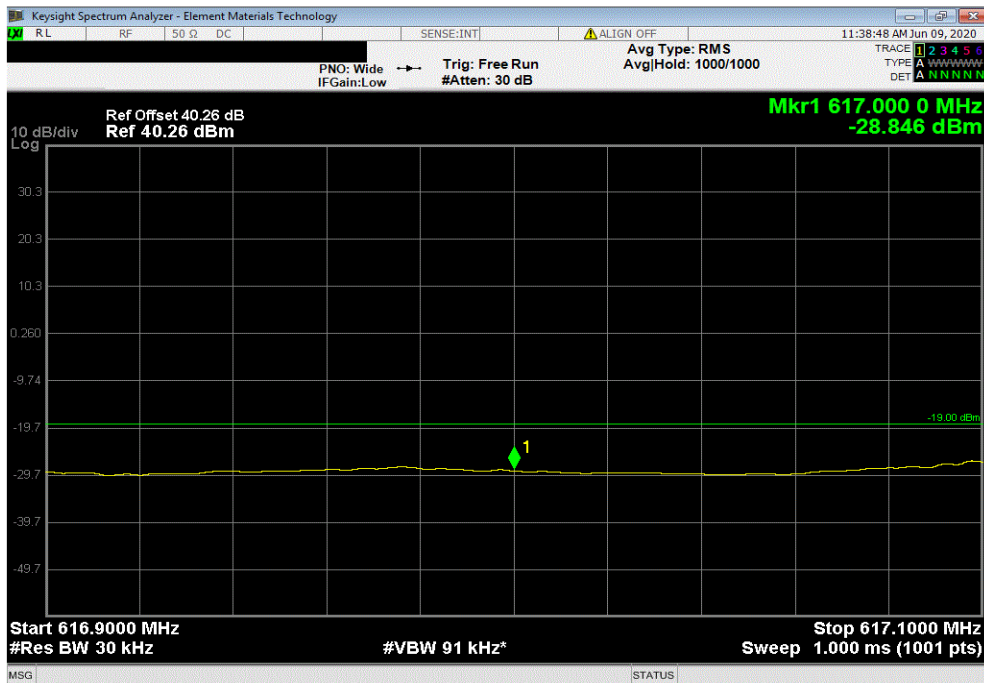


TMTX 2020.06.08.0 BETA XMI 2020.03.25.0

| Port 1, Band 71, 617 MHz - 652 MHz, 20 MHz Bandwidth, 64-QAM Modulation, Low Channel, 627 MHz | | | | | | |
|---|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 616.9 | -23.54 | -19 | Pass | | | |



| Port 1, Band 71, 617 MHz - 652 MHz, 20 MHz Bandwidth, 64-QAM Modulation, Low Channel, 627 MHz | | | | | | |
|---|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 617 | -28.85 | -19 | Pass | | | |

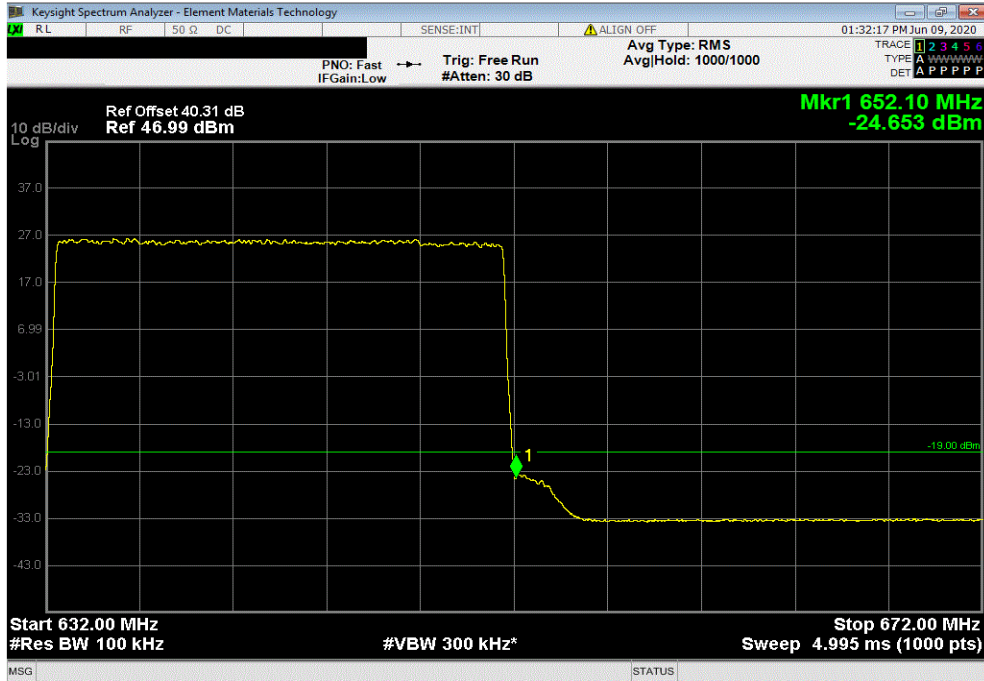


BAND EDGE COMPLIANCE

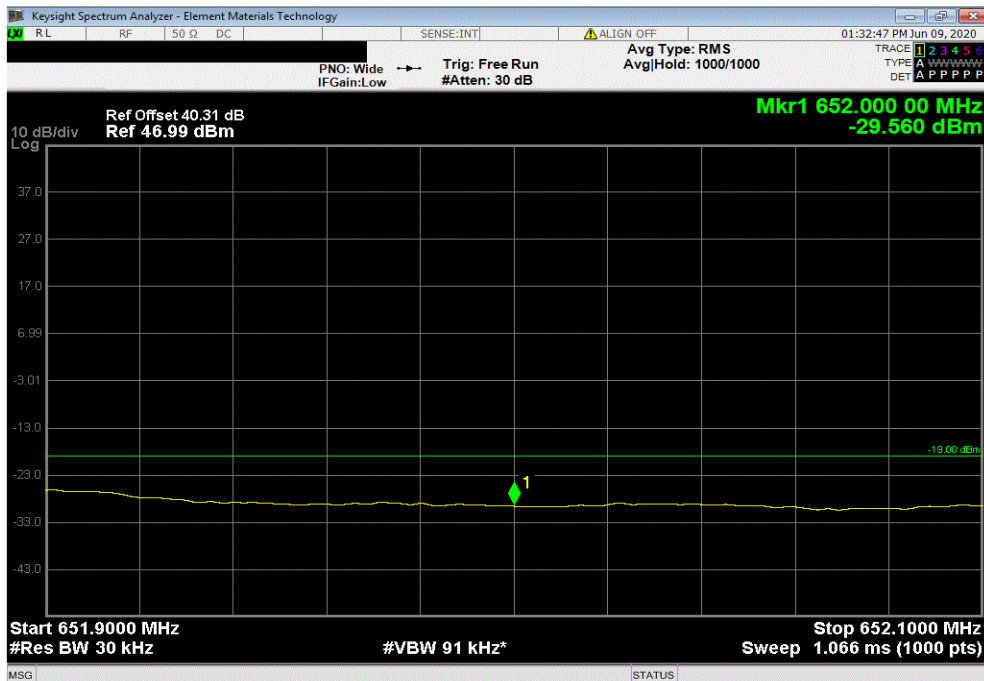


TMTX 2020.06.08.0 BETA XMI 2020.03.25.0

| Port 1, Band 71, 617 MHz - 652 MHz, 20 MHz Bandwidth, 64-QAM Modulation, High Channel, 642 MHz | | | | | | |
|--|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 652.1 | -24.65 | -19 | Pass | | | |



| Port 1, Band 71, 617 MHz - 652 MHz, 20 MHz Bandwidth, 64-QAM Modulation, High Channel, 642 MHz | | | | | | |
|--|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 652 | -29.56 | -19 | Pass | | | |

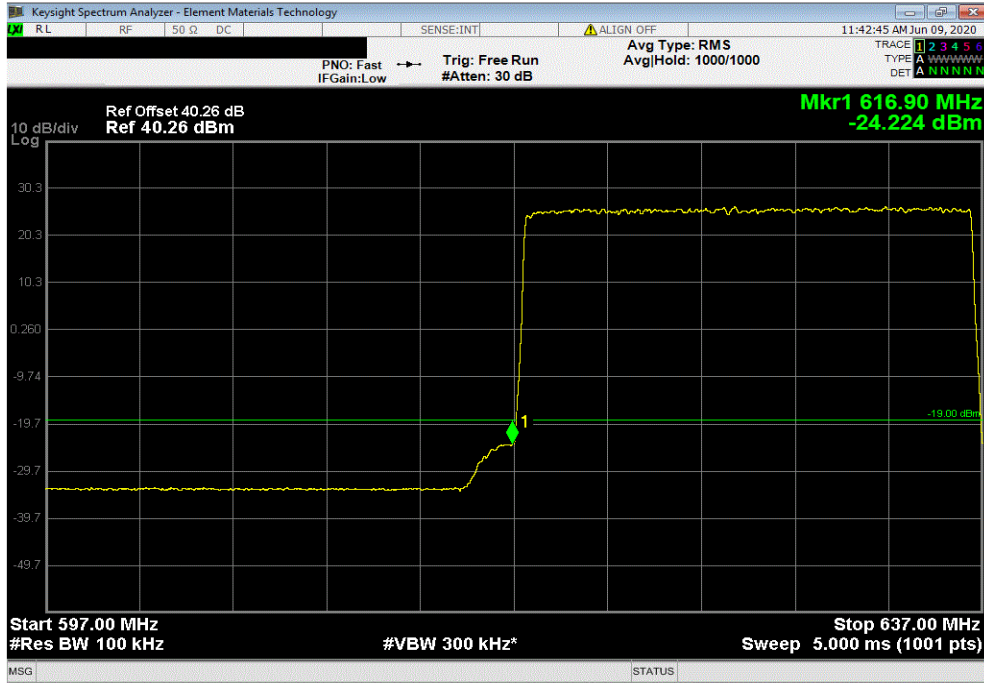


BAND EDGE COMPLIANCE

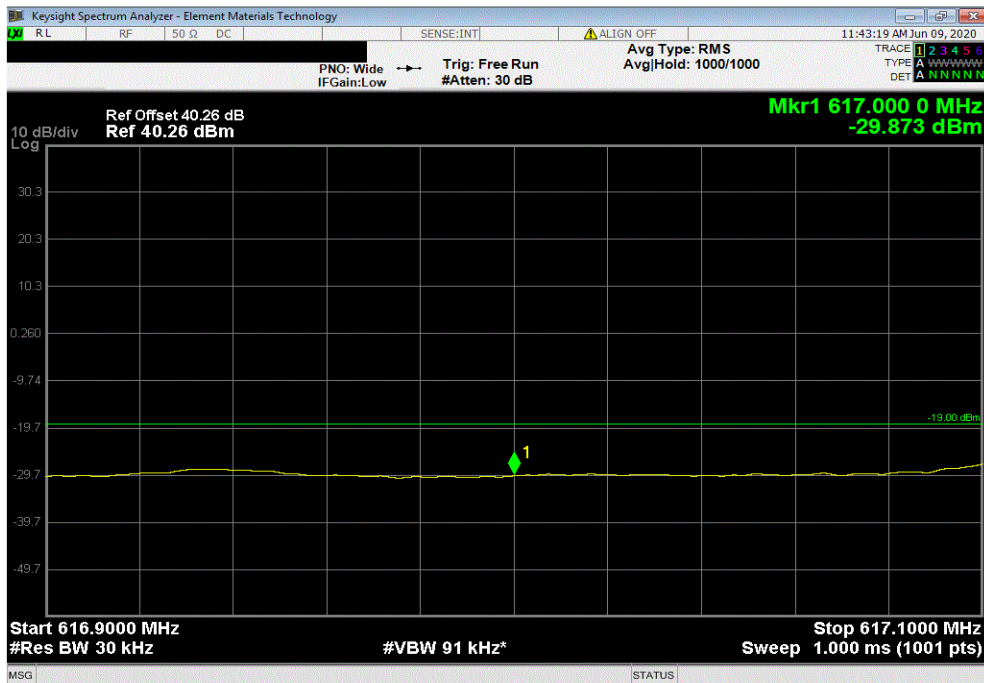


TMTX 2020.06.08.0 BETA XMI 2020.03.25.0

| Port 1, Band 71, 617 MHz - 652 MHz, 20 MHz Bandwidth, 256-QAM Modulation, Low Channel, 627 MHz | | | | | | |
|--|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 616.9 | -24.22 | -19 | Pass | | | |



| Port 1, Band 71, 617 MHz - 652 MHz, 20 MHz Bandwidth, 256-QAM Modulation, Low Channel, 627 MHz | | | | | | |
|--|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 617 | -29.87 | -19 | Pass | | | |

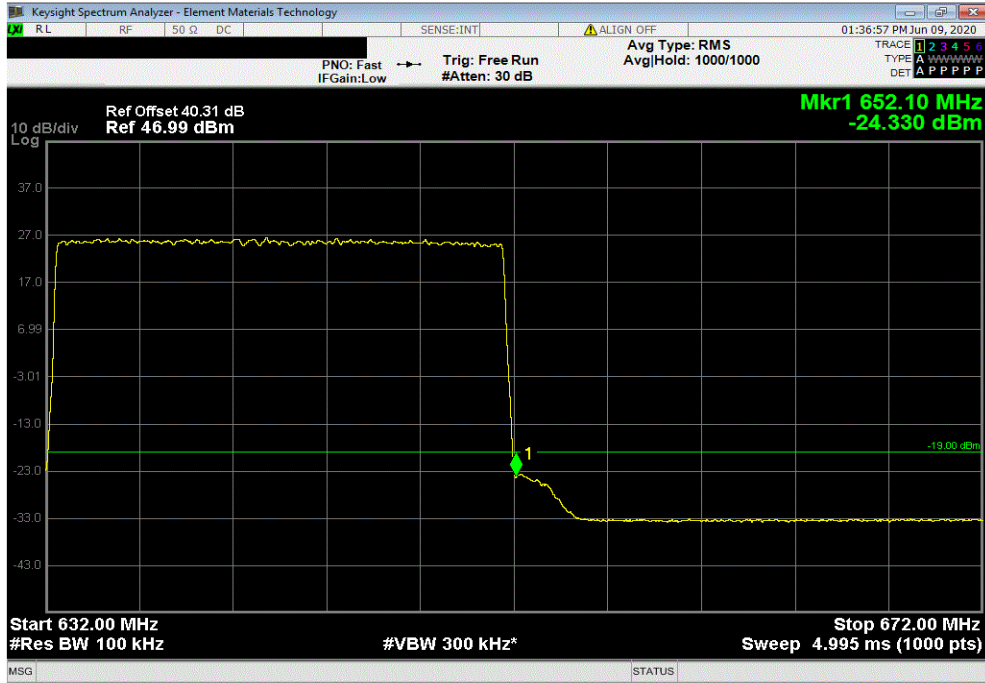


BAND EDGE COMPLIANCE



TMTX 2020.06.08.0 BETA XMI 2020.03.25.0

| Port 1, Band 71, 617 MHz - 652 MHz, 20 MHz Bandwidth, 256-QAM Modulation, High Channel, 642 MHz | | | | | | |
|---|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 652.1 | -24.33 | -19 | Pass | | | |



| Port 1, Band 71, 617 MHz - 652 MHz, 20 MHz Bandwidth, 256-QAM Modulation, High Channel, 642 MHz | | | | | | |
|---|-----------------|---------------|--------|--|--|--|
| Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result | | | |
| 652 | -29.66 | -19 | Pass | | | |

