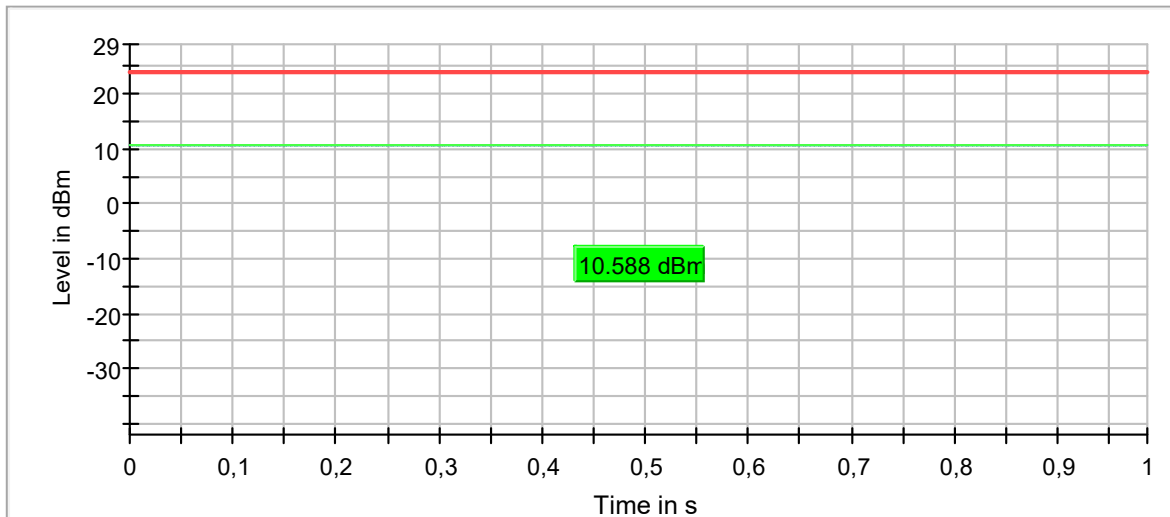


Mode 802.11 ac20 (VHT20):

- Low Channel:

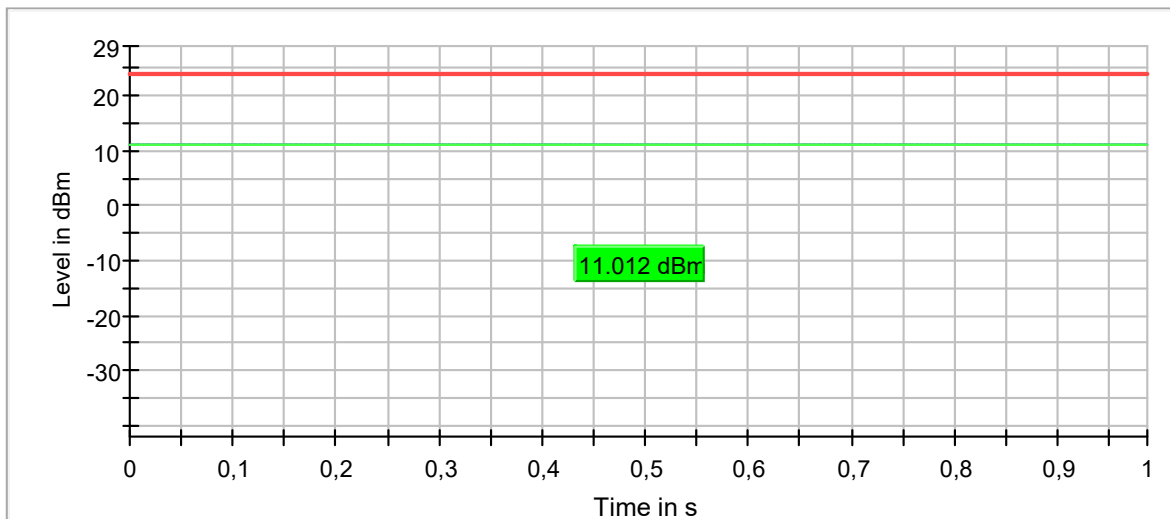
Gated Trace



— Gated Trace — Overall — Limit

- Middle Channel:

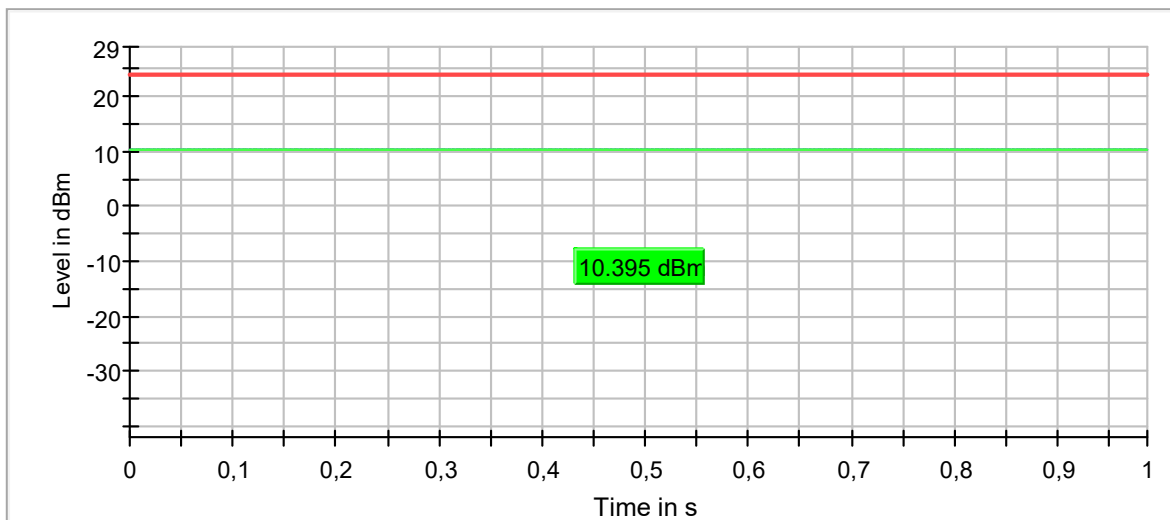
Gated Trace



— Gated Trace — Overall — Limit

- High Channel:

Gated Trace

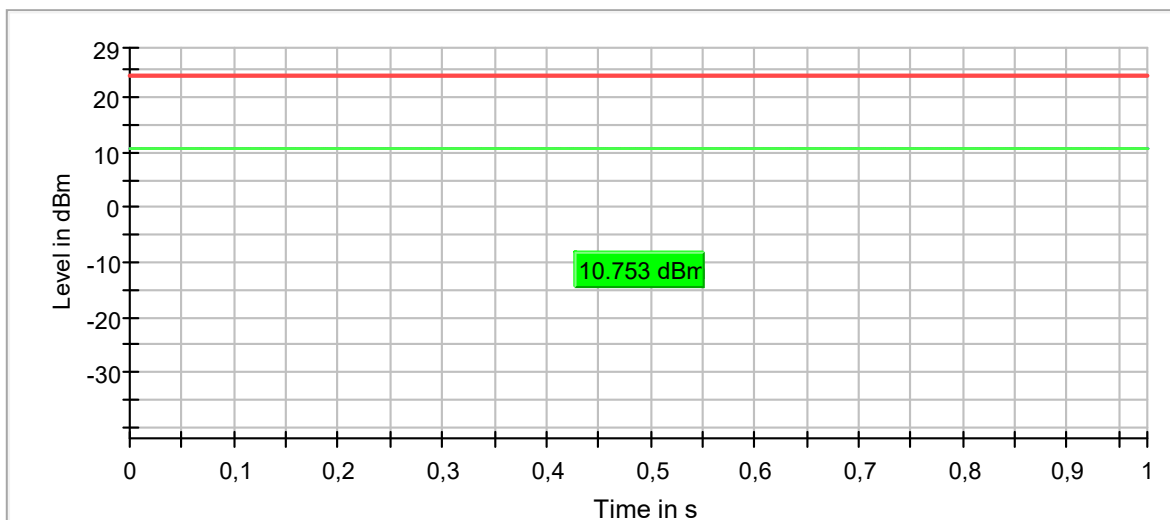


— Gated Trace — Overall — Limit

Mode 802.11 n40 (HT40):

- Low Channel:

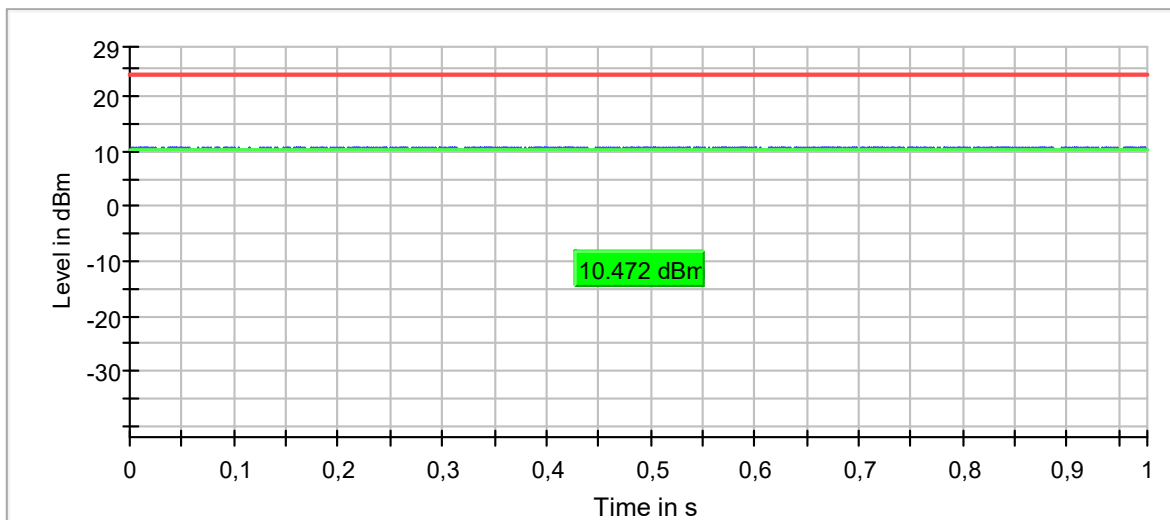
Gated Trace



— Gated Trace — Overall — Limit

- High Channel:

Gated Trace

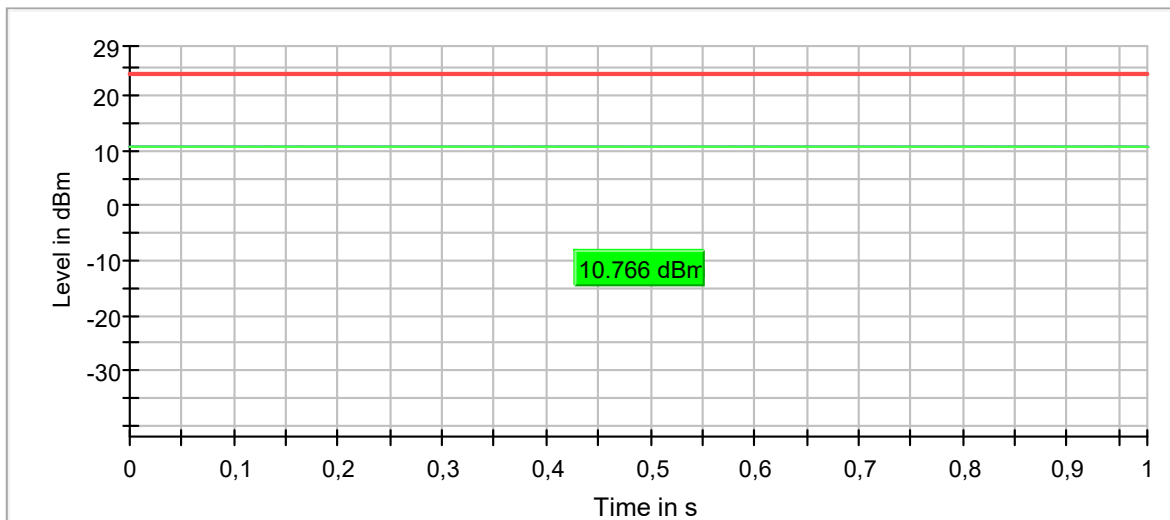


— Gated Trace — Overall — Limit

Mode 802.11 ac40 (VHT40):

- Low Channel:

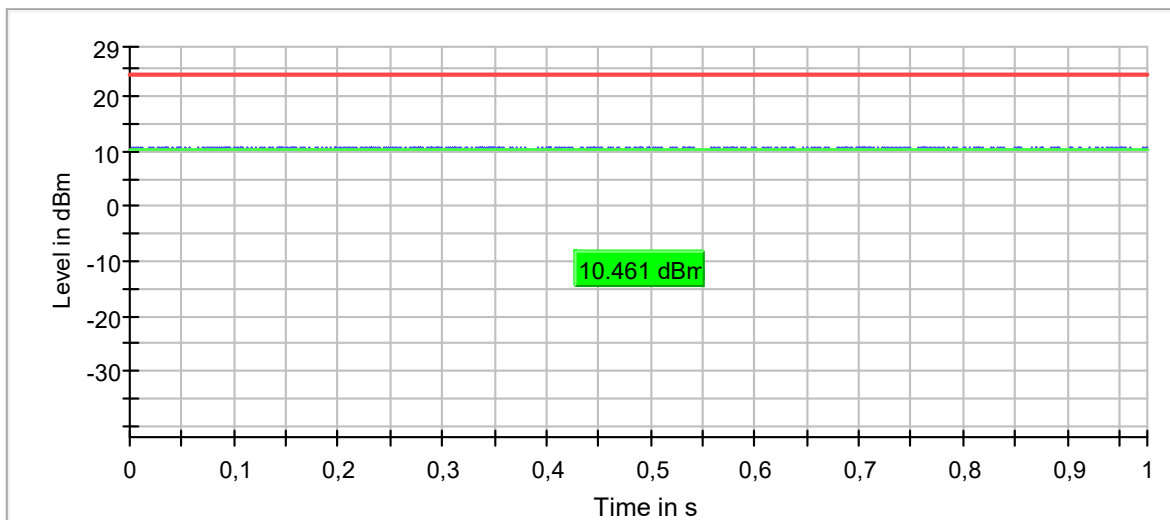
Gated Trace



— Gated Trace — Overall — Limit

- High Channel:

Gated Trace

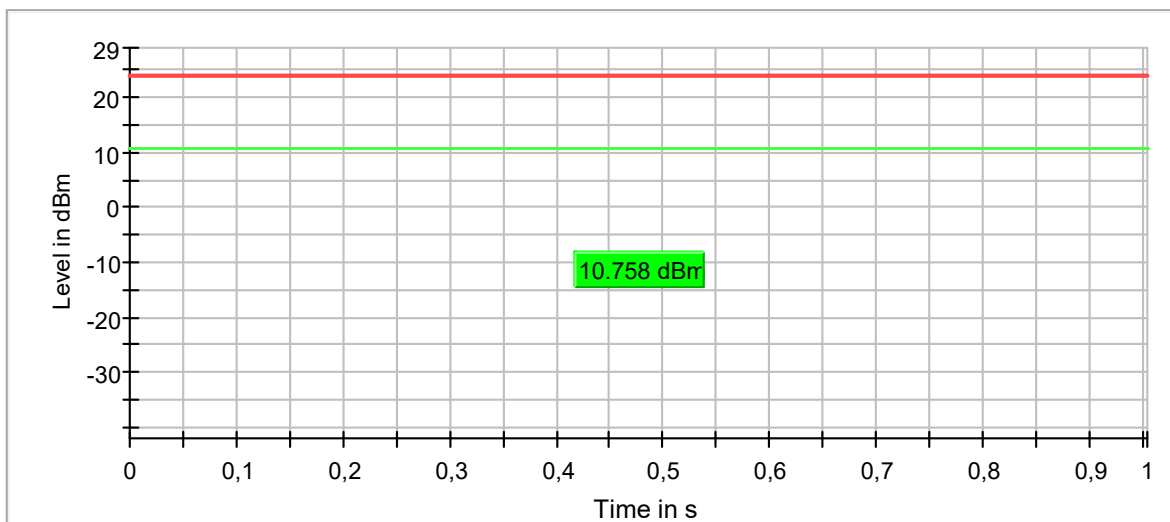


— Gated Trace — Overall — Limit

Mode 802.11 ac80 (VHT80):

- Single Channel:

Gated Trace



— Gated Trace — Overall — Limit

Canada power setting

Mode 802.11 a20:

| | Low Channel 36 (5180 MHz) | Middle Channel 40 (5200 MHz) | High Channel 48 (5240 MHz) |
|------------------------------|------------------------------|---------------------------------|-------------------------------|
| Max. Conducted Power (dBm) | 7.64 | 7.40 | 7.35 |
| Max. EIRP power (dBm) | 8.54 | 8.30 | 8.25 |
| Measurement uncertainty (dB) | <±0.99 | | |

Mode 802.11 n20 (HT20):

| | Low Channel 36 (5180 MHz) | Middle Channel 40 (5200 MHz) | High Channel 48 (5240 MHz) |
|------------------------------|------------------------------|---------------------------------|-------------------------------|
| Max. Conducted Power (dBm) | 7.36 | 7.16 | 7.52 |
| Max. EIRP power (dBm) | 8.26 | 8.06 | 8.42 |
| Measurement uncertainty (dB) | <±0.99 | | |

Mode 802.11 ac20 (VHT20):

| | Low Channel 36 (5180 MHz) | Middle Channel 40 (5200 MHz) | High Channel 48 (5240 MHz) |
|------------------------------|------------------------------|---------------------------------|-------------------------------|
| Max. Conducted Power (dBm) | 7.13 | 7.38 | 7.23 |
| Max. EIRP power (dBm) | 8.03 | 8.28 | 8.13 |
| Measurement uncertainty (dB) | <±0.99 | | |

Mode 802.11 n40 (HT40):

| | Low Channel 38 (5190 MHz) | High Channel 46 (5230 MHz) |
|--------------------------------------|------------------------------|-------------------------------|
| Max. Conducted Power (dBm) | 7.42 | 7.49 |
| Duty Cycle Correction Factor (dB) | 0.10 | |
| Max. Conducted Power Corrected (dBm) | 7.52 | 7.59 |
| Max. EIRP Power Corrected (dBm) | 8.42 | 8.49 |
| Measurement uncertainty (dB) | <±0.99 | |

Mode 802.11 ac40 (VHT40):

| | Low Channel 38 (5190 MHz) | High Channel 46 (5230 MHz) |
|--------------------------------------|------------------------------|-------------------------------|
| Max. Conducted Power (dBm) | 7.40 | 7.49 |
| Duty Cycle Correction Factor (dB) | 0.10 | |
| Max. Conducted Power Corrected (dBm) | 7.50 | 7.59 |
| Max. EIRP Power Corrected (dBm) | 8.40 | 8.49 |
| Measurement uncertainty (dB) | <±0.99 | |

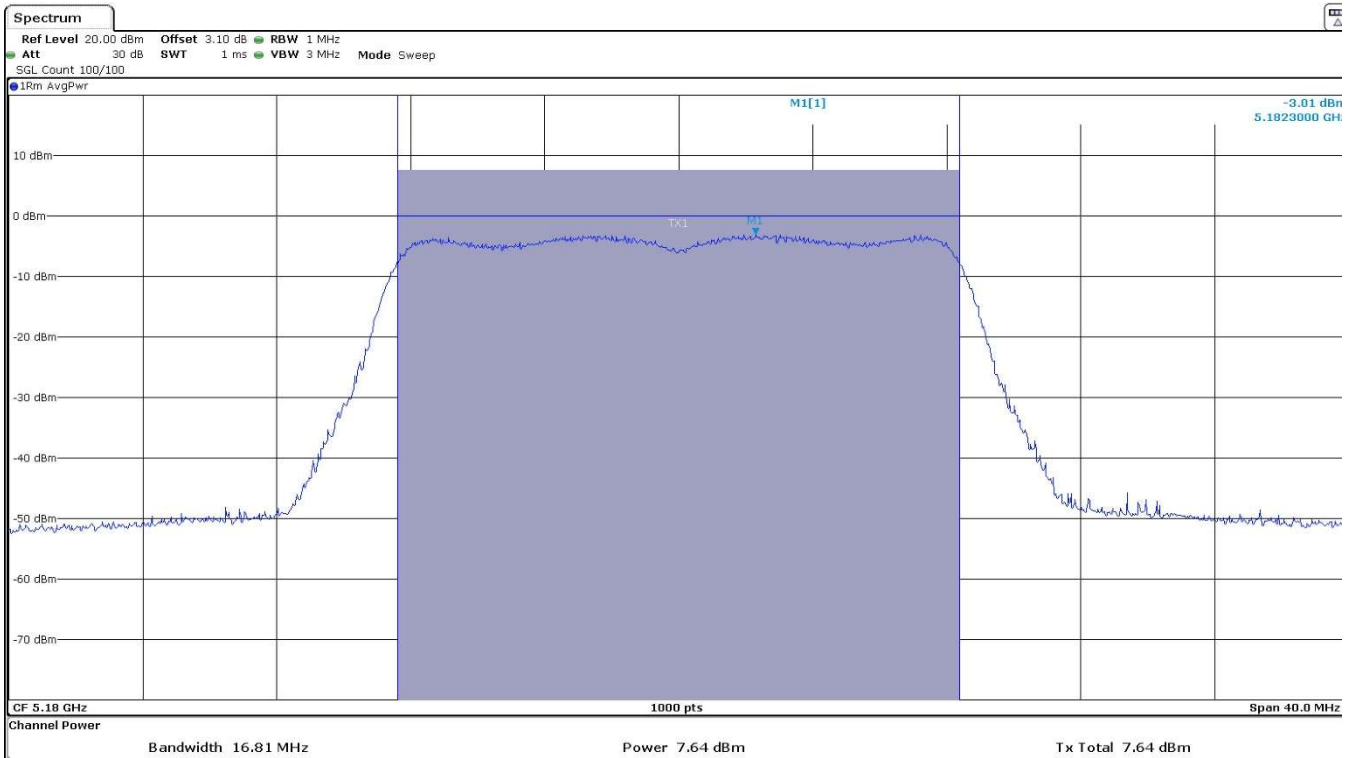
Mode 802.11 ac80 (VHT80):

| | Single Channel 42 (5210 MHz) |
|--------------------------------------|---------------------------------|
| Max. Conducted Power (dBm) | 7.93 |
| Duty Cycle Correction Factor (dB) | 0.21 |
| Max. Conducted Power Corrected (dBm) | 8.14 |
| Max. EIRP Power Corrected (dBm) | 9.04 |
| Measurement uncertainty (dB) | <±0.99 |

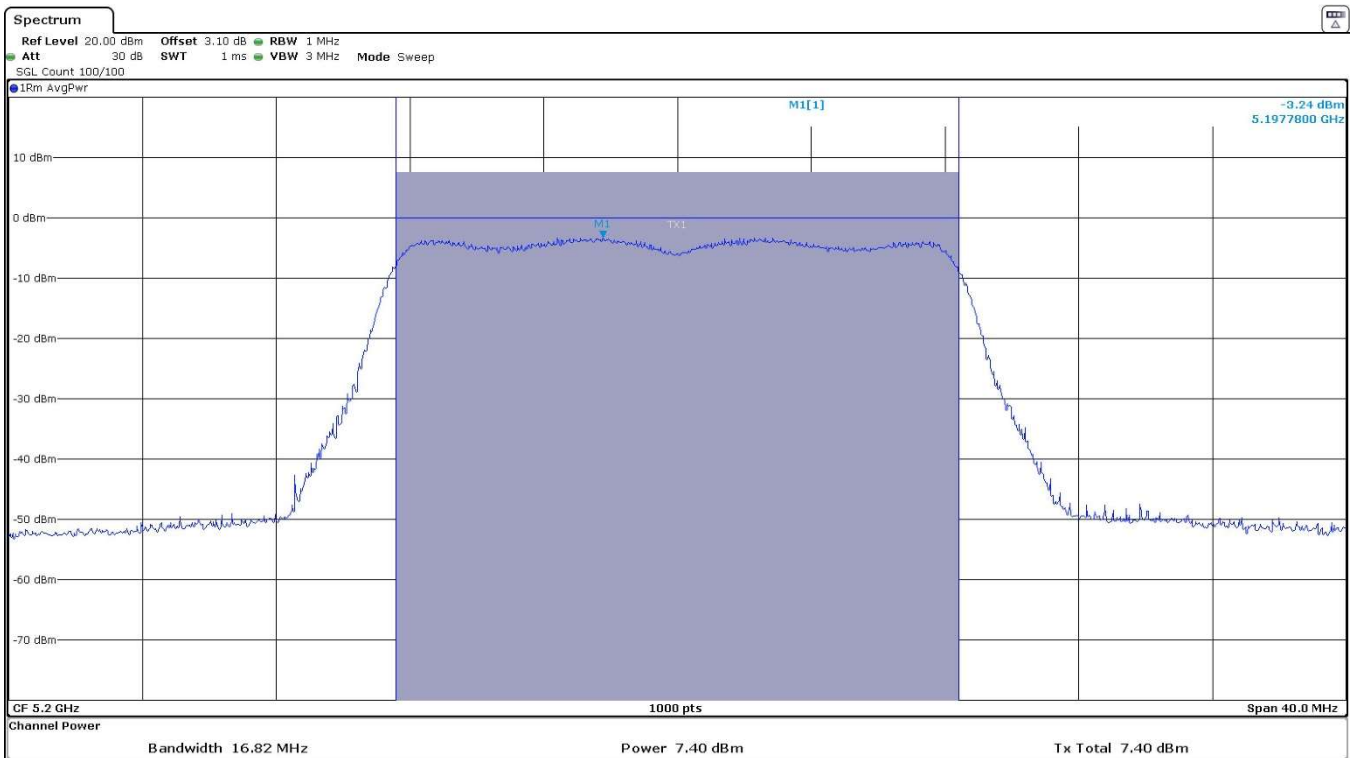
Verdict: PASS

Mode 802.11 a20:

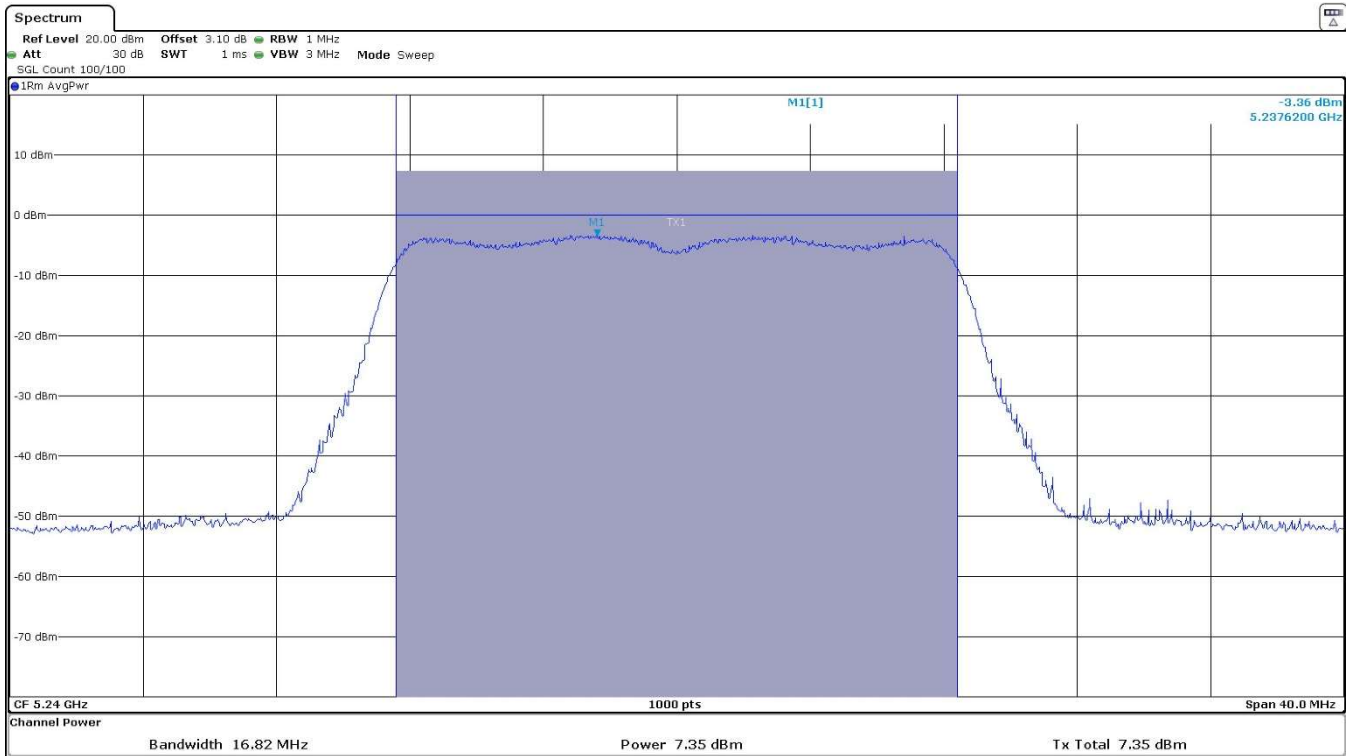
- Low Channel:



- Middle Channel:

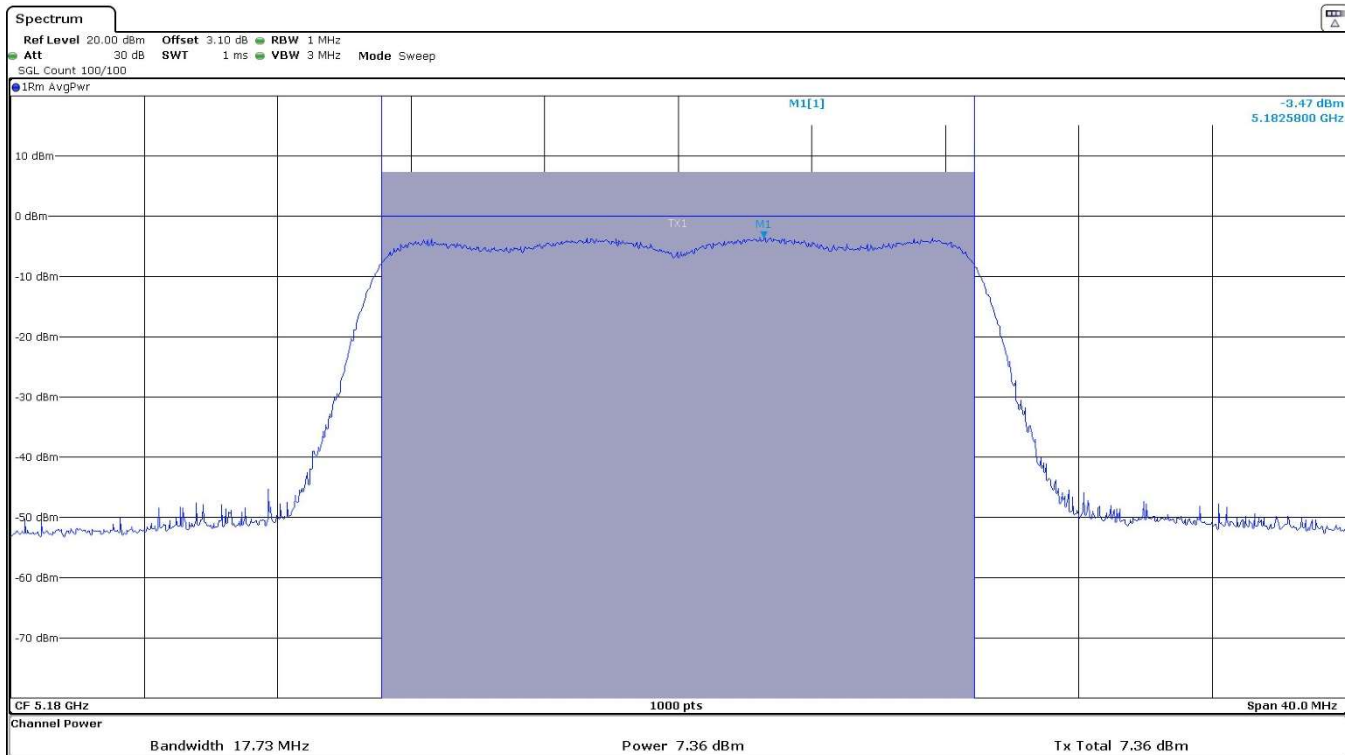


- High Channel:

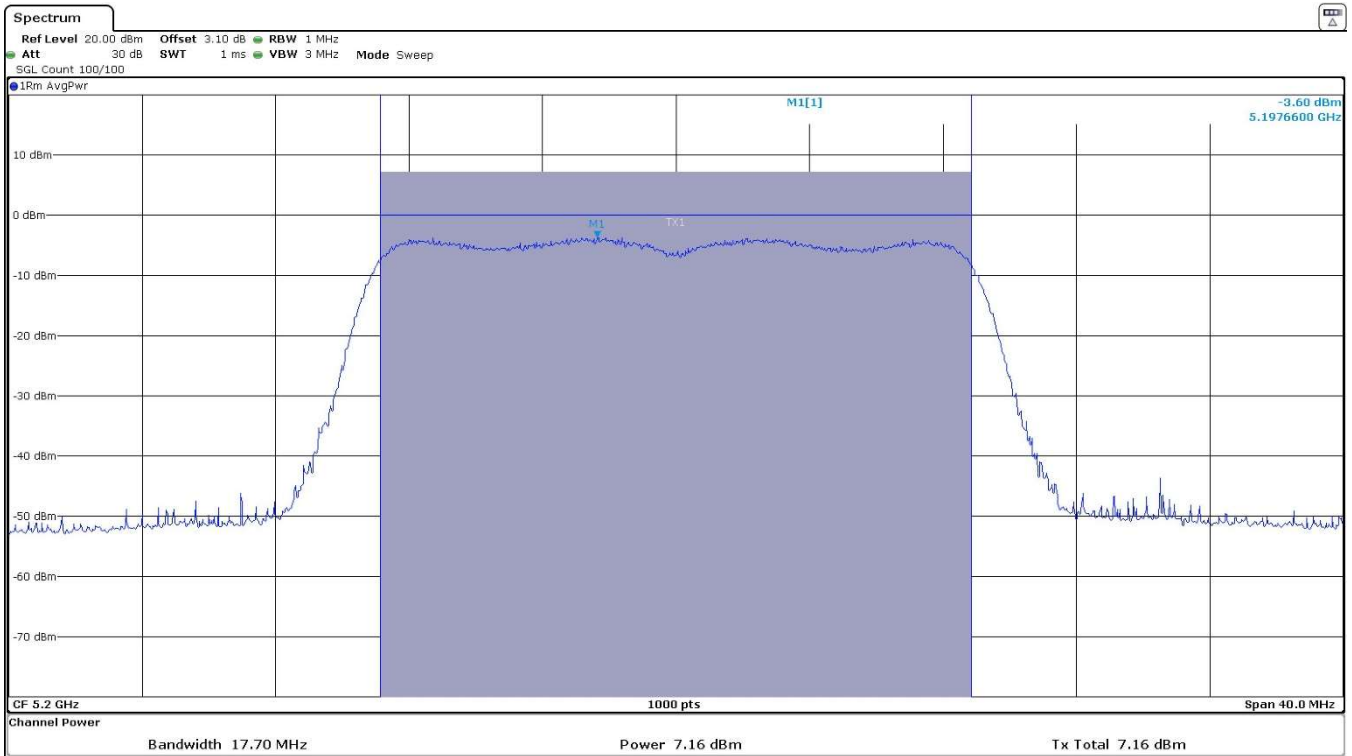


Mode 802.11 n20 (HT20):

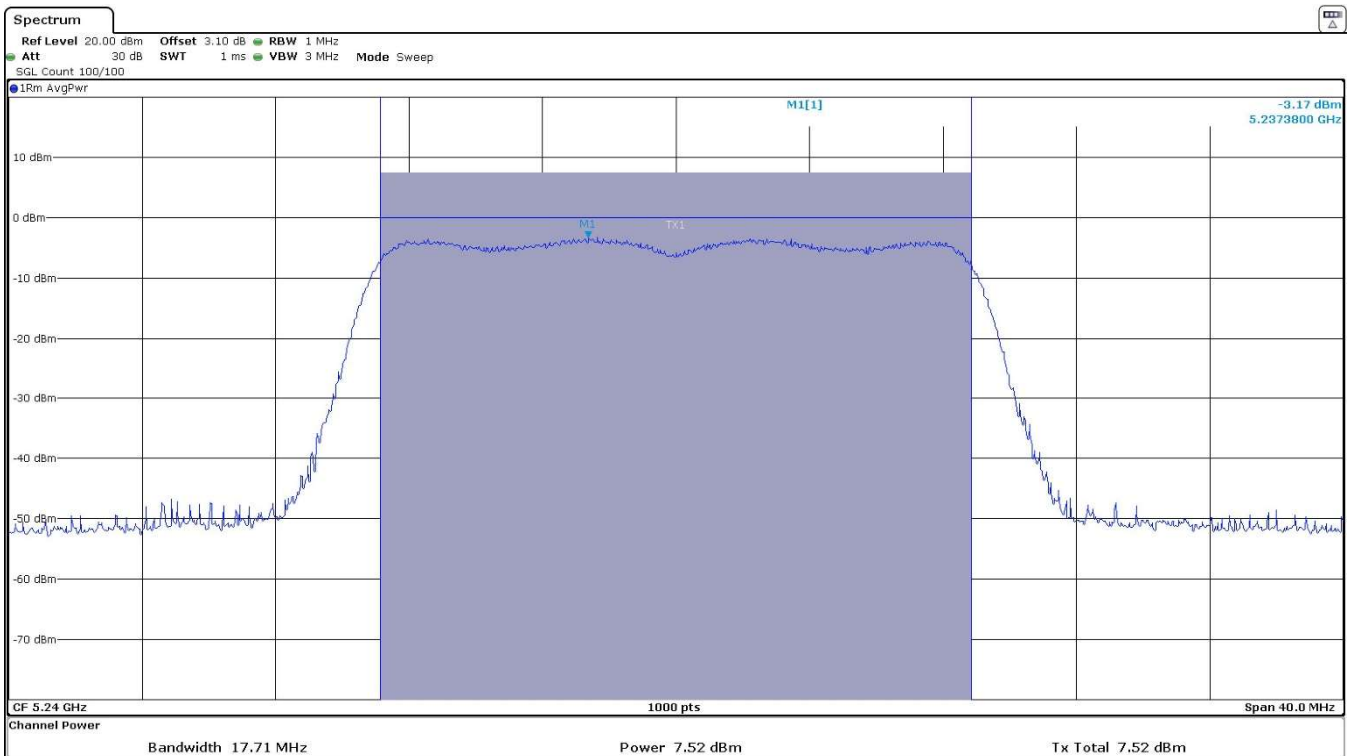
- Low Channel:



- Middle Channel:

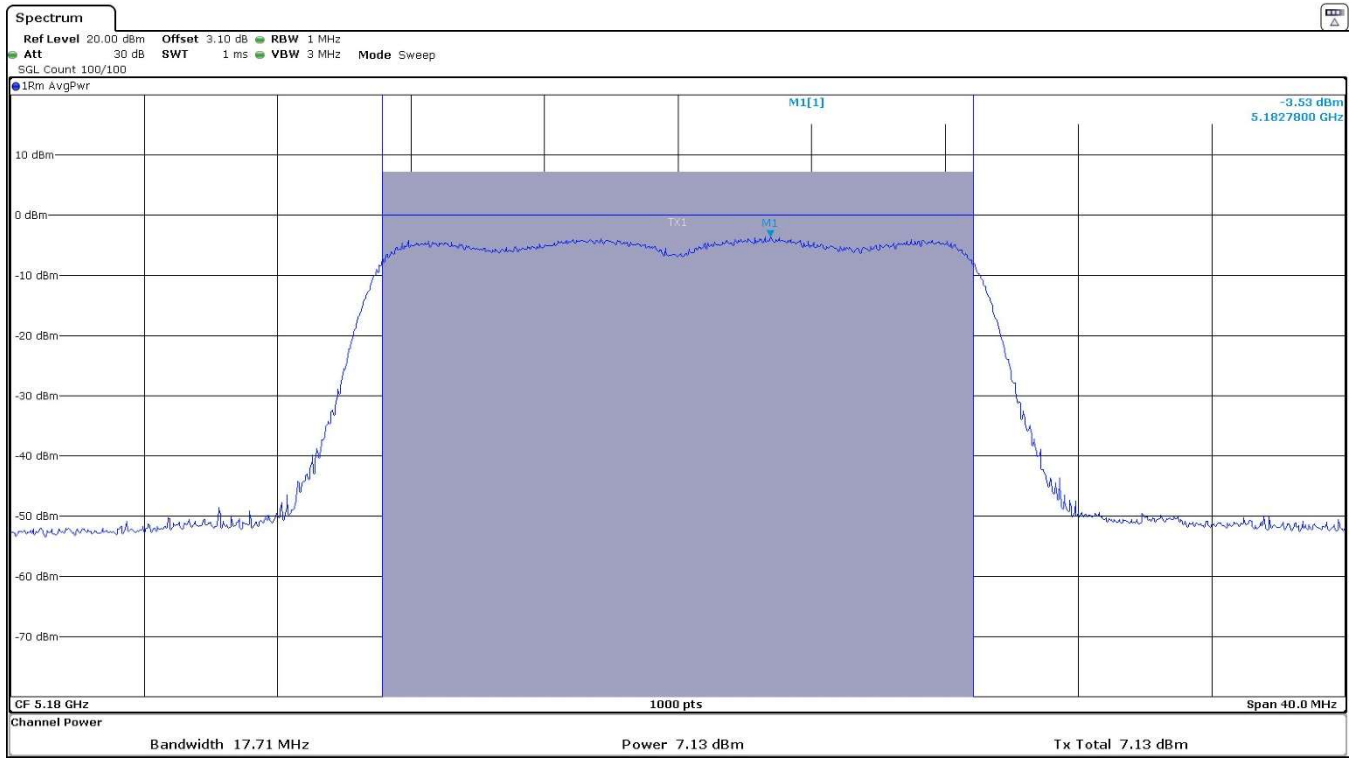


- High Channel:

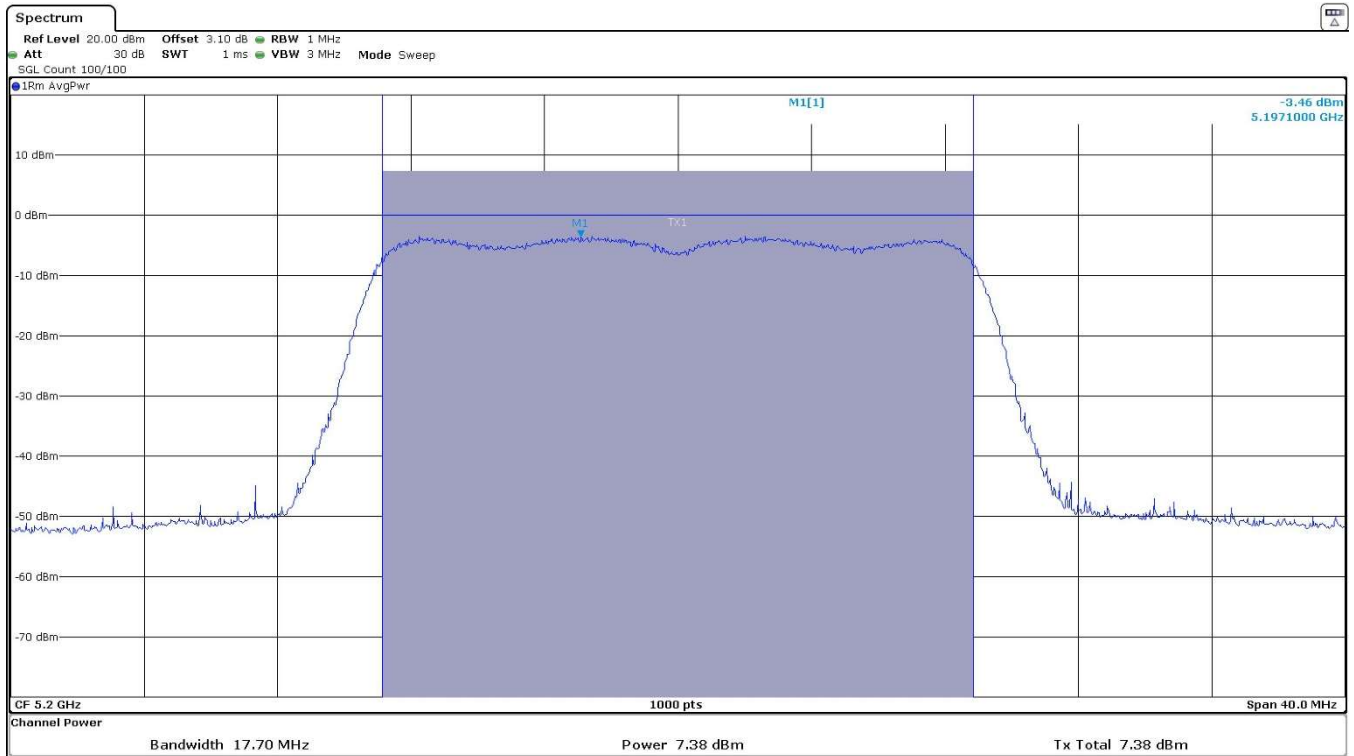


Mode 802.11 ac20 (VHT20):

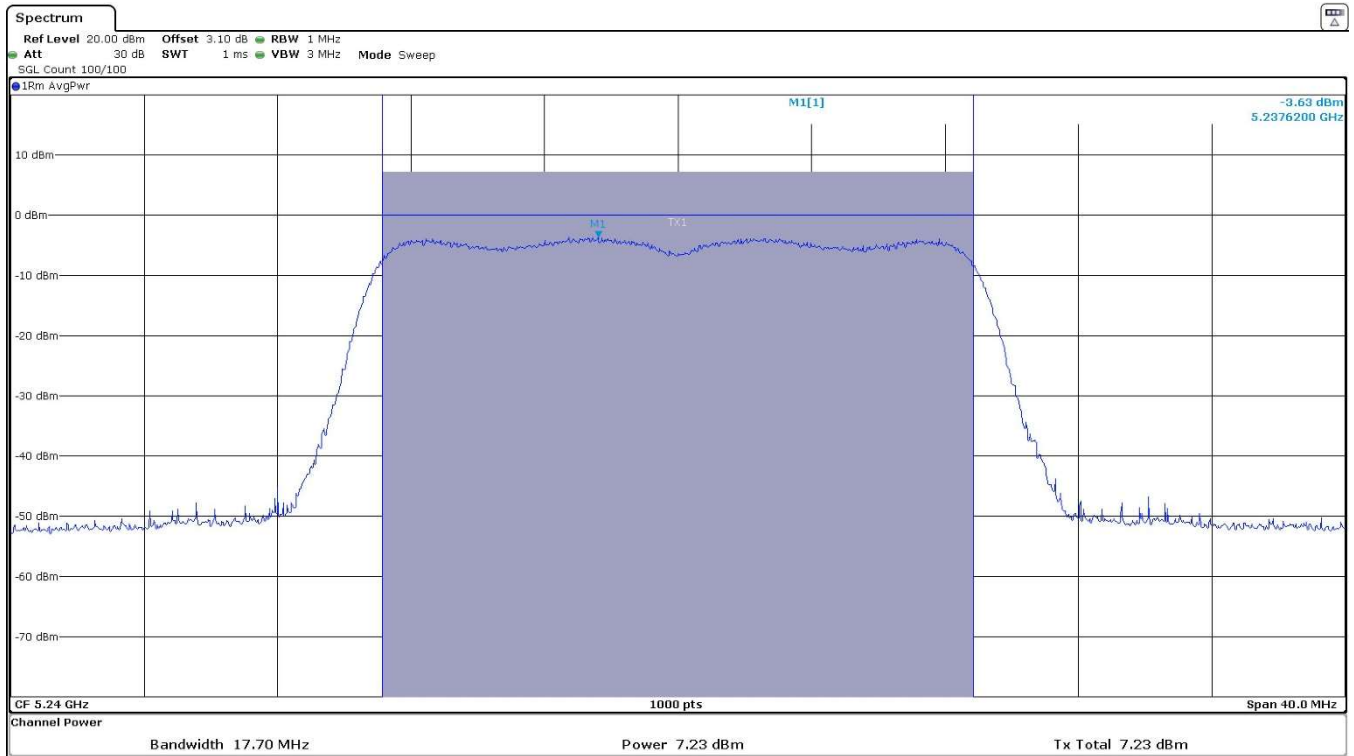
- Low Channel:



- Middle Channel:

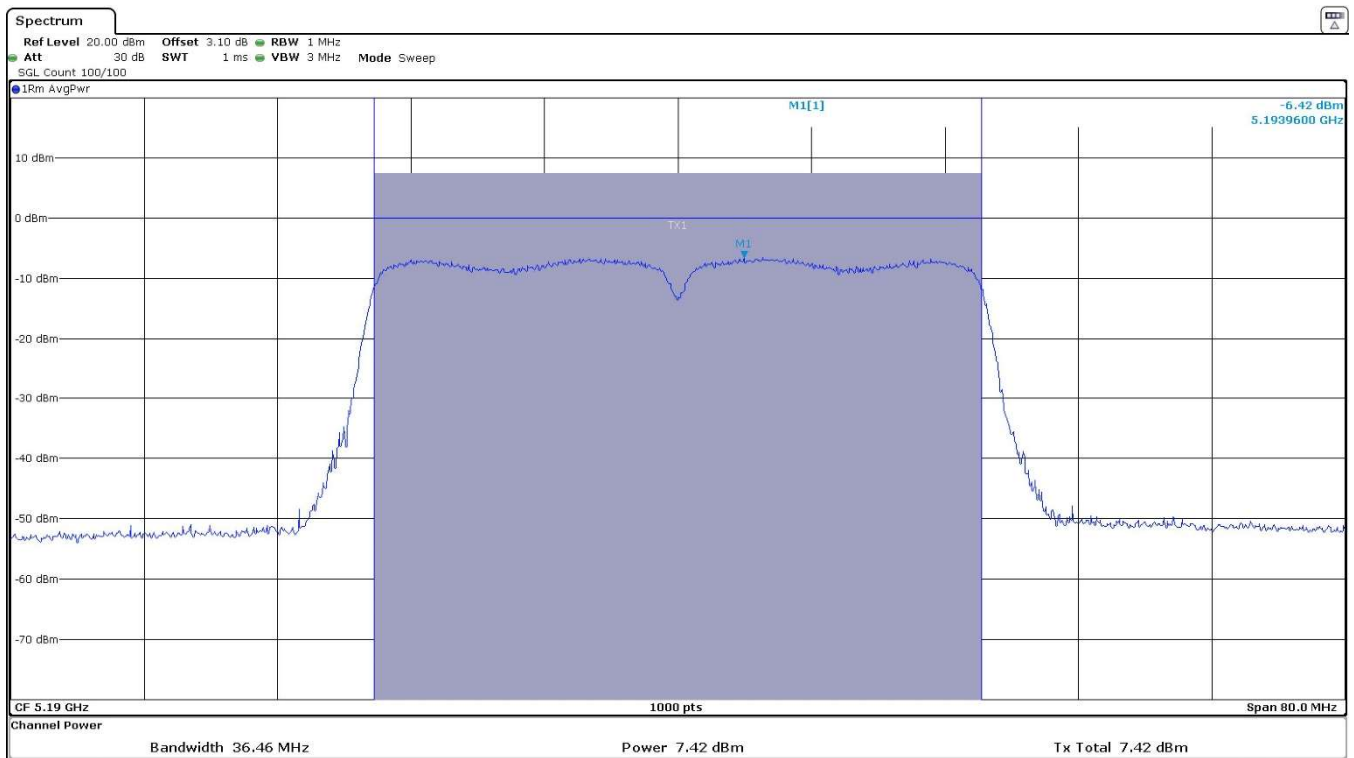


- High Channel:

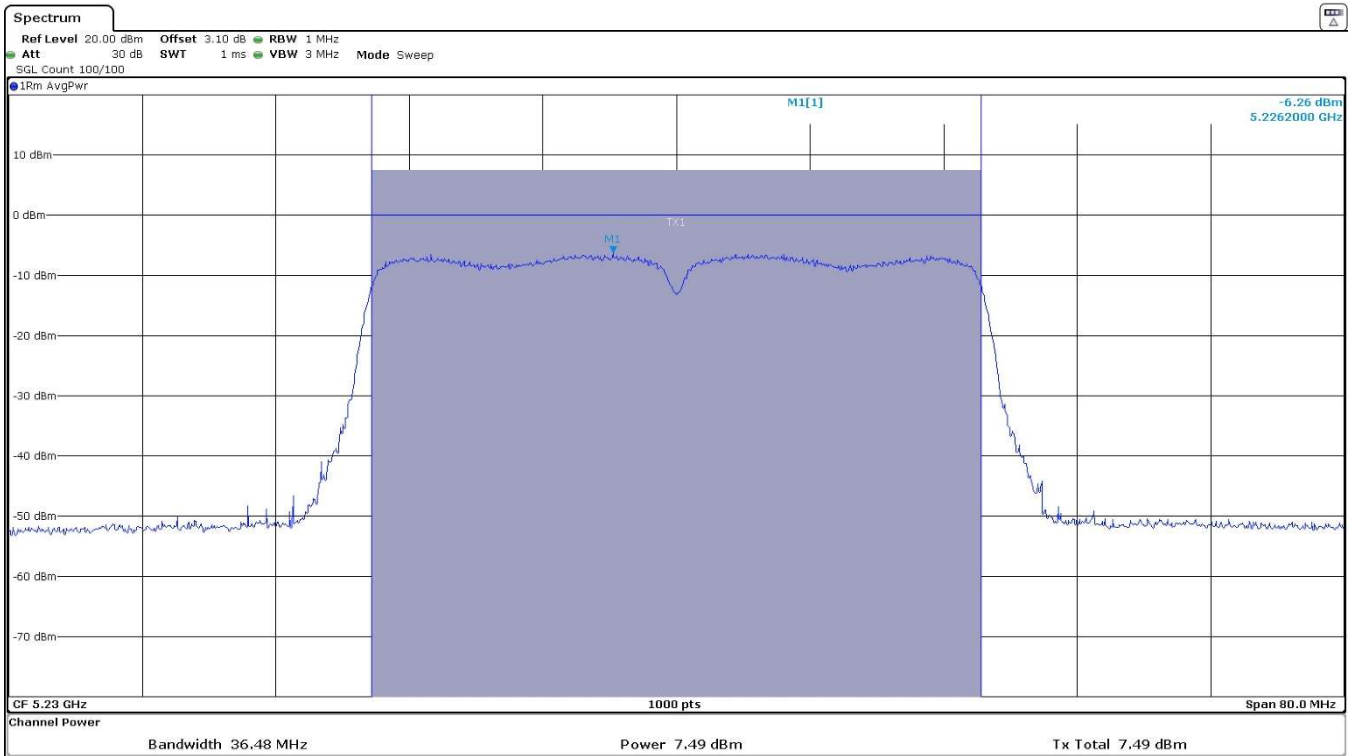


Mode 802.11 n40 (HT40):

- Low Channel:

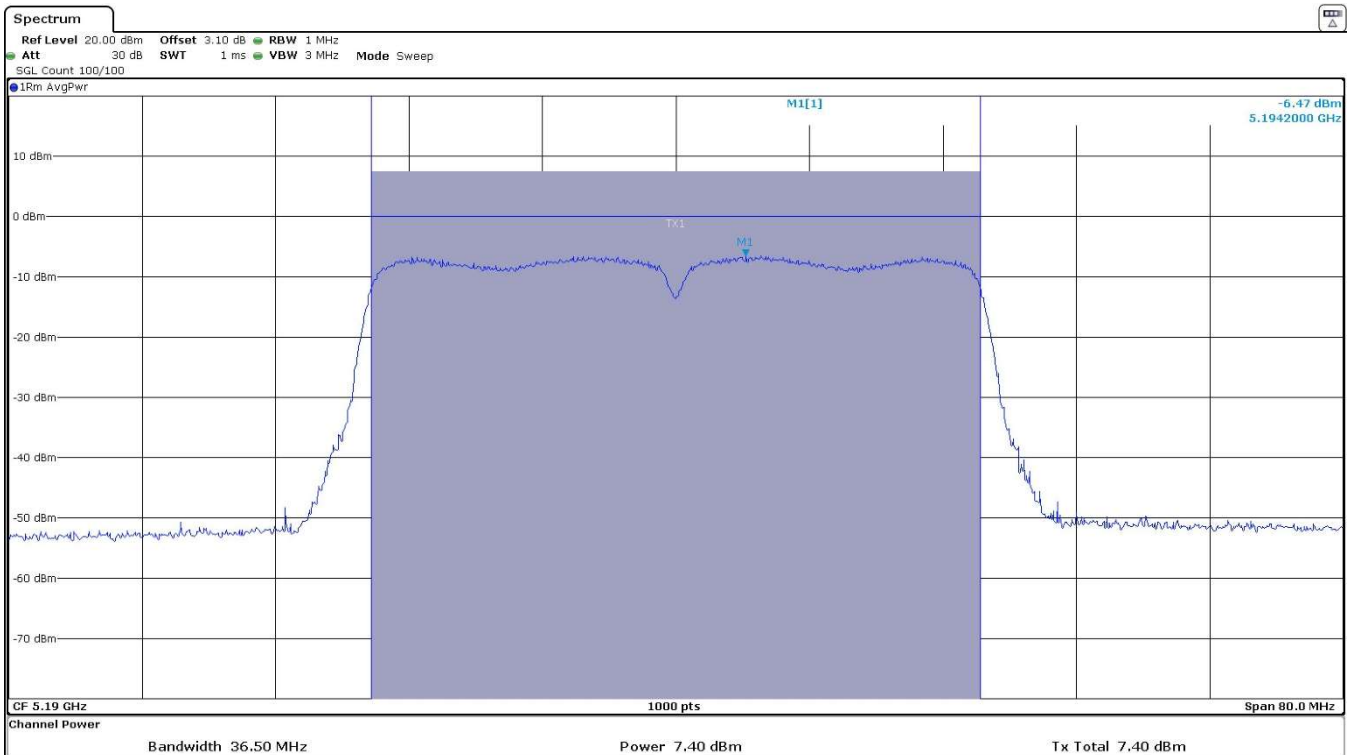


- High Channel:

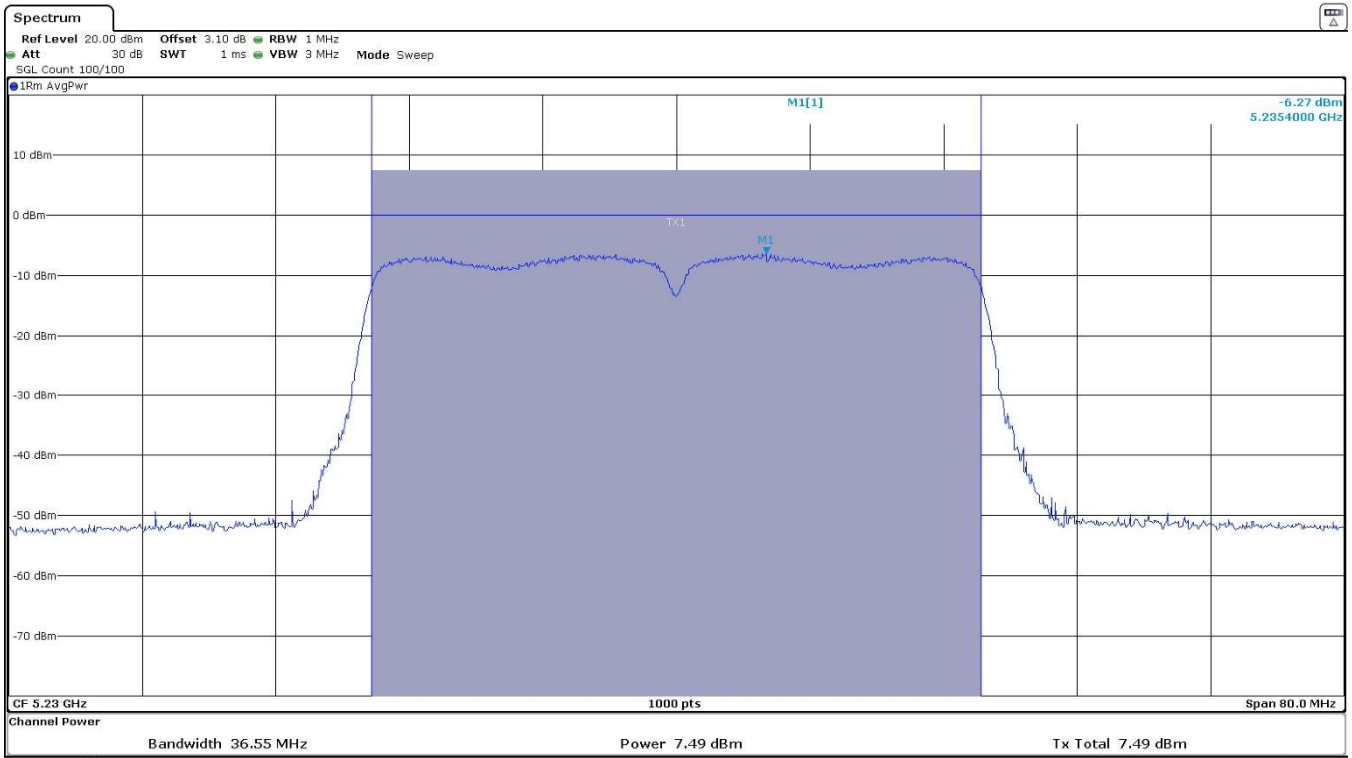


Mode 802.11 ac40 (VHT40):

- Low Channel:

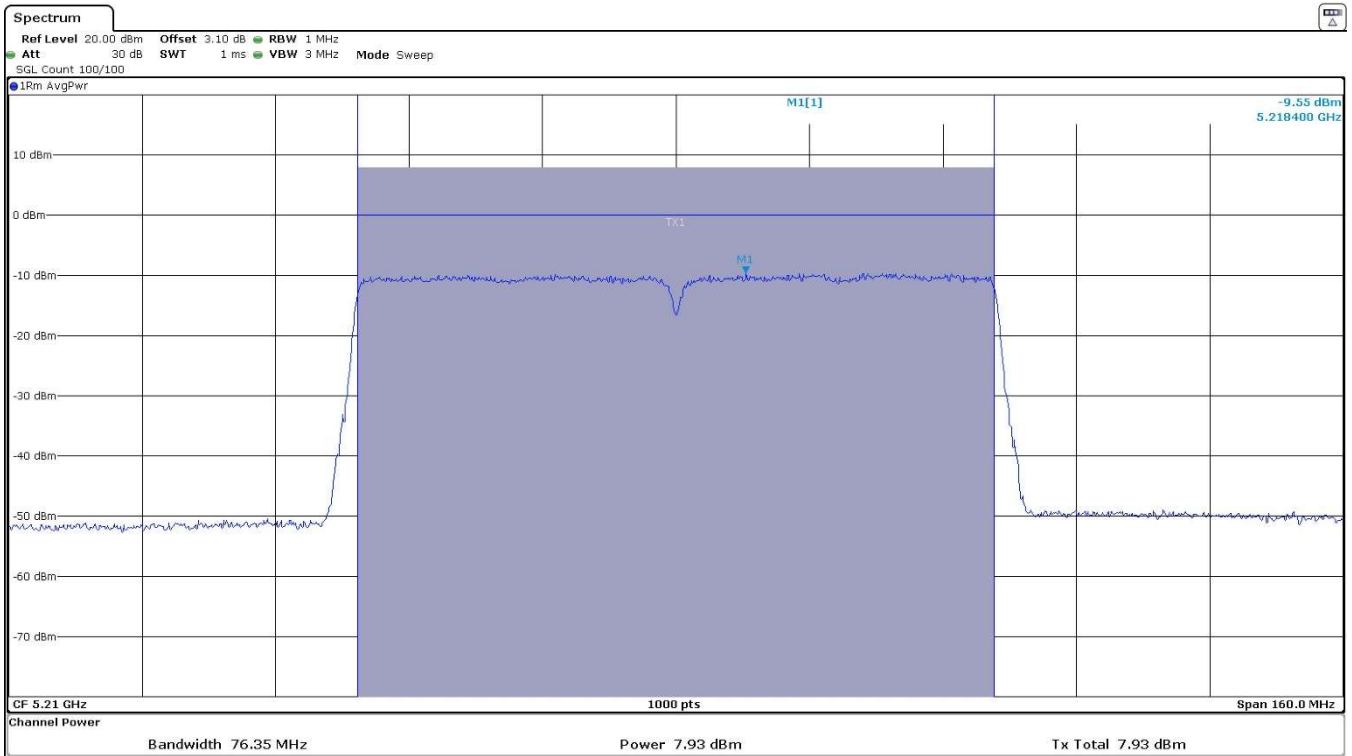


- High Channel:



Mode 802.11 ac80 (VHT80):

- Single Channel:



FCC 15.407 (a)(1)(iv). Transmitter Maximum Power Spectral Density / RSS-247

6.2.1.1. Transmitter EIRP Spectral Density

SPECIFICATION:

FCC 15.407: The maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

RSS-247: The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

RESULTS:

The maximum power spectral density (PSD) was measured using the method according to point F) referencing E.2.b) (Method SA-1) and E.2.b) (Method SA-2) of Guidance 789033 D02 General UNII Test Procedures New Rules v02r01.

The PSD test uses the same setup as the transmitter maximum conducted output power test. The result of the Peak PSD was measured by colocation a maker on the peak of the signal and the results are in the tables below.

The e.i.r.p. levels are calculated by adding the declared maximum antenna gain (dBi).

For all modes of operation, the antenna gain is < 6 dBi.

Maximum Declared Antenna Gain: 0.9 dBi

FCC power setting

Mode 802.11 a20:

| | Low Channel 36 (5180 MHz) | Middle Channel 40 (5200 MHz) | High Channel 48 (5240 MHz) |
|-------------------------------|------------------------------|---------------------------------|-------------------------------|
| Maximum Average PSD (dBm/MHz) | -3.16 | -2.75 | -3.37 |
| Maximum EIRP PSD (dBm/MHz) | -2.26 | -1.85 | -2.47 |
| Measurement uncertainty (dB) | <±0.99 | | |

Mode 802.11 n20 (HT20):

| | Low Channel 36 (5180 MHz) | Middle Channel 40 (5200 MHz) | High Channel 48 (5240 MHz) |
|-------------------------------|------------------------------|---------------------------------|-------------------------------|
| Maximum Average PSD (dBm/MHz) | -3.38 | -3.00 | -3.69 |
| Maximum EIRP PSD (dBm/MHz) | -2.48 | -2.10 | -2.79 |
| Measurement uncertainty (dB) | <±0.99 | | |

Mode 802.11 ac20 (VHT20):

| | Low Channel 36 (5180 MHz) | Middle Channel 40 (5200 MHz) | High Channel 48 (5240 MHz) |
|-------------------------------|------------------------------|---------------------------------|-------------------------------|
| Maximum Average PSD (dBm/MHz) | -3.45 | -3.03 | -3.68 |
| Maximum EIRP PSD (dBm/MHz) | -2.55 | -2.13 | -2.78 |
| Measurement uncertainty (dB) | <±0.99 | | |

Mode 802.11 n40 (HT40):

| | Low Channel 38 (5190 MHz) | High Channel 46 (5230 MHz) |
|--|------------------------------|-------------------------------|
| Maximum Average PSD (dBm/MHz) | -4.40 | -4.69 |
| Duty Cycle Correction Factor (dB) | 0.10 | |
| Maximum Average PSD Corrected (dBm/MHz) | -4.30 | -4.59 |
| Maximum EIRP PSD Corrected (dBm/MHz) | -3.40 | -3.69 |
| Measurement uncertainty (dB) | <±0.99 | |

Mode 802.11 ac40 (VHT40):

| | Low Channel 38 (5190 MHz) | High Channel 46 (5230 MHz) |
|--|------------------------------|-------------------------------|
| Maximum Average PSD (dBm/MHz) | -4.38 | -4.75 |
| Duty Cycle Correction Factor (dB) | 0.10 | |
| Maximum Average PSD Corrected (dBm/MHz) | -4.28 | -4.65 |
| Maximum EIRP PSD Corrected (dBm/MHz) | -3.38 | -3.75 |
| Measurement uncertainty (dB) | <±0.99 | |

Mode 802.11 ac80 (VHT80):

| | Single Channel 42 (5210 MHz) |
|--|---------------------------------|
| Maximum Average PSD (dBm/MHz) | -7.99 |
| Duty Cycle Correction Factor (dB) | 0.21 |
| Maximum Average PSD Corrected (dBm/MHz) | -7.78 |
| Maximum EIRP PSD Corrected (dBm/MHz) | -6.68 |
| Measurement uncertainty (dB) | <±0.99 |

Verdict: PASS