

8.6 TEST RESULTS

| TX Mode_1Mbps | | | | |
|---------------|-----------------|-------------------------|--------------------------------|--------|
| Channel | Frequency (MHz) | Channel Separation(MHz) | Limit (MHz) | Result |
| CH00 | 2402 | 0.996 | >(25KHz or 2/3*20dB Bandwidth) | PASS |
| CH39 | 2441 | 1.005 | >(25KHz or 2/3*20dB Bandwidth) | PASS |
| CH78 | 2480 | 0.969 | >(25KHz or 2/3*20dB Bandwidth) | PASS |

2402MHz



2441MHz



2480MHz



| TX Mode _3Mbps | | | | |
|----------------|-----------------|-------------------------|--------------------------------|--------|
| Channel | Frequency (MHz) | Channel Separation(MHz) | Limit (MHz) | Result |
| CH00 | 2402 | 1.164 | >(25KHz or 2/3*20dB Bandwidth) | PASS |
| CH39 | 2441 | 1.167 | >(25KHz or 2/3*20dB Bandwidth) | PASS |
| CH78 | 2480 | 0.999 | >(25KHz or 2/3*20dB Bandwidth) | PASS |

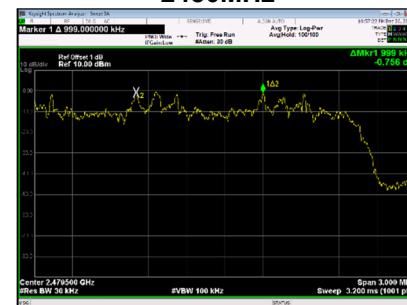
2402MHz



2441MHz



2480MHz



9BANDWIDTH TEST

9.1LIMIT

FCC Part15, Subpart C (15.247)

| Section | Test Item |
|--------------|-----------|
| 15.247(a)(1) | Bandwidth |

9.2TEST PROCEDURE AND SETTING

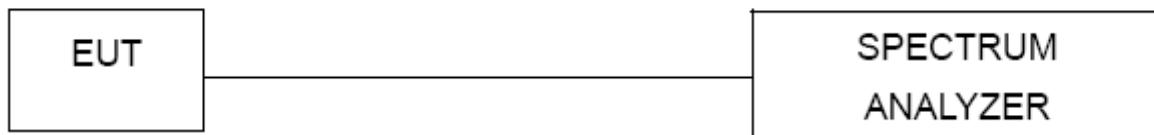
- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- Spectrum Setting: RBW= 30 kHz, VBW=100 kHz, Sweep Time = Auto.

| Spectrum Parameter | Setting |
|--------------------|-------------------------|
| Attenuation | Auto |
| Span Frequency | > Measurement Bandwidth |
| RBW | 30kHz |
| VBW | 100kHz |
| Detector | Peak |
| Trace | Max Hold |
| Sweep Time | Auto |

9.3MEASUREMENT INSTRUMENTS LIST

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|------|-------------------|---------------|-------------|------------|------------------|
| 1 | Spectrum analyzer | KEYSIGHT | N9010A | MY55150427 | 2025/05/22 |
| 2 | Attenuator | Mini-Circuits | BW-S10W2 | 101109 | N/A |
| 3 | RF Cable | Mi-cable | C10-01-01-1 | 100309 | N/A |

9.4TEST SETUP



9.5EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.5 unless otherwise a special operating condition is specified in the follows during the testing.

9.6 TEST RESULTS

| TX Mode_1Mbps | | | | |
|---------------|-----------------|----------------------|-------------------------------|--------|
| Channel | Frequency (MHz) | 20dB Bandwidth (MHz) | 99 % Emission Bandwidth (MHz) | Result |
| CH00 | 2402 | 0.884 | 0.8659 | PASS |
| CH39 | 2441 | 0.883 | 0.8682 | PASS |
| CH78 | 2480 | 0.924 | 0.8671 | PASS |

2402MHz



2441MHz



2480MHz

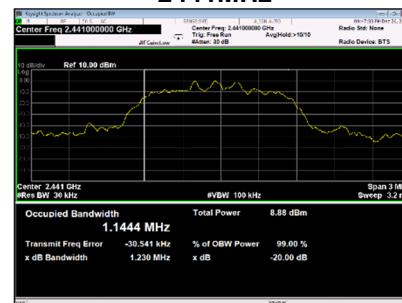


| TX Mode_3Mbps | | | | |
|---------------|-----------------|----------------------|-------------------------------|--------|
| Channel | Frequency (MHz) | 20dB Bandwidth (MHz) | 99 % Emission Bandwidth (MHz) | Result |
| CH00 | 2402 | 1.227 | 1.1423 | PASS |
| CH39 | 2441 | 1.230 | 1.1444 | PASS |
| CH78 | 2480 | 1.229 | 1.1433 | PASS |

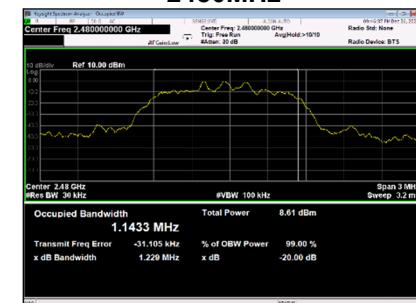
2402MHz



2441MHz



2480MHz



10MAXIMUM OUTPUT POWER

10.1LIMIT

| FCC Part15 , Subpart C (15.247) | | |
|---------------------------------|----------------------|--------------------|
| Section | Test Item | Limit |
| 15.247(a)(1) | Maximum Output Power | 0.125Watt or 21dBm |

Note:

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB band width of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

10.2TEST PROCEDURE AND SETTING

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- Spectrum Setting: RBW= 1MHz/3MHz, VBW= 1MHz/3MHz, Sweep time = Auto.

10.3MEASUREMENT INSTRUMENTS LIST

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|------|-------------------|---------------|-------------|------------|------------------|
| 1 | Spectrum analyzer | KEYSIGHT | N9010A | MY55150427 | 2025/05/22 |
| 2 | Attenuator | Mini-Circuits | BW-S10W2 | 101109 | N/A |
| 3 | RF Cable | Mi-cable | C10-01-01-1 | 100309 | N/A |

10.4TEST SETUP



10.5EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.5 unless otherwise a special operating condition is specified in the follows during the testing.

10.6 TEST RESULTS

| TX Mode_1Mbps | | | | |
|---------------|-----------------|--------------------|------------------|--------|
| Channel | Frequency (MHz) | Output Power (dBm) | Output Power (W) | Result |
| CH00 | 2402 | 2.217 | 0.001666 | PASS |
| CH39 | 2441 | 2.019 | 0.001592 | PASS |
| CH78 | 2480 | 1.753 | 0.001497 | PASS |
| Limit | 21dBm /0.125W | | | |

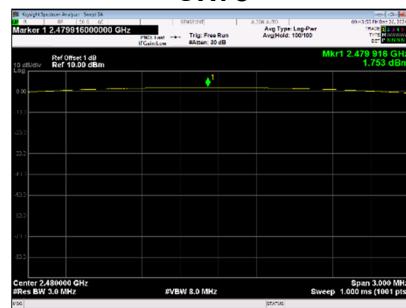
CH00



CH39



CH78



| TX Mode _2Mbps | | | | |
|----------------|-----------------|--------------------|------------------|--------|
| Channel | Frequency (MHz) | Output Power (dBm) | Output Power (W) | Result |
| CH00 | 2402 | 2.867 | 0.001935 | PASS |
| CH39 | 2441 | 2.633 | 0.001834 | PASS |
| CH78 | 2480 | 2.355 | 0.001720 | PASS |
| Limit | 21dBm /0.125W | | | |

CH00



CH39



CH78



| TX Mode_3Mbps | | | | |
|---------------|-----------------|--------------------|------------------|--------|
| Channel | Frequency (MHz) | Output Power (dBm) | Output Power (W) | Result |
| CH00 | 2402 | 3.124 | 0.002053 | PASS |
| CH39 | 2441 | 2.827 | 0.001917 | PASS |
| CH78 | 2480 | 2.658 | 0.001844 | PASS |
| Limit | 21dBm /0.125W | | | |

CH00



CH39



CH78



11 CONDUCTED SPURIOUS EMISSION

11.1 LIMIT

For FCC

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak Output Power limits. If the transmitter complies with the Output Power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required.

11.2 TEST PROCEDURE AND SETTING

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting: RBW= 100 kHz, VBW=300 kHz, Sweep time = Auto.

11.3 MEASUREMENT INSTRUMENTS LIST

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|------|-------------------|---------------|-------------|------------|------------------|
| 1 | Spectrum analyzer | KEYSIGHT | N9010A | MY55150427 | 2025/05/22 |
| 2 | Attenuator | Mini-Circuits | BW-S10W2 | 101109 | N/A |
| 3 | RF Cable | Mi-cable | C10-01-01-1 | 100309 | N/A |

11.4 TEST SETUP



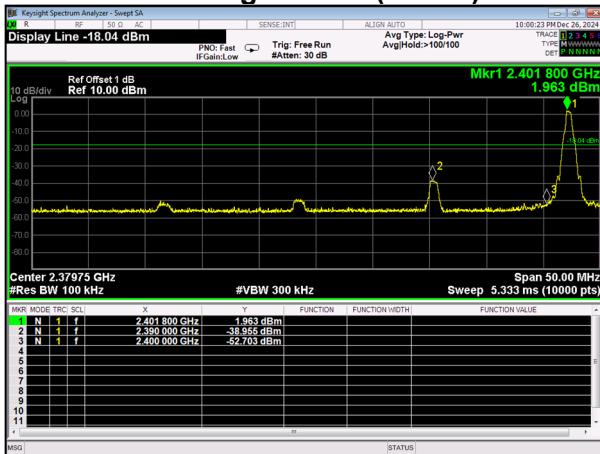
11.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.5 unless otherwise a special operating condition is specified in the follows during the testing.

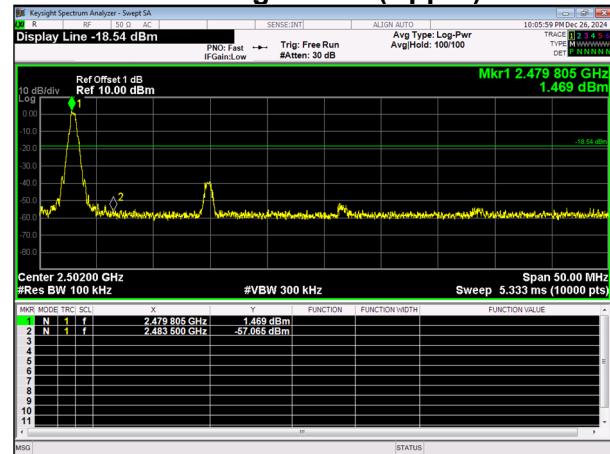
11.6 TEST RESULTS

TX Mode_1Mbps

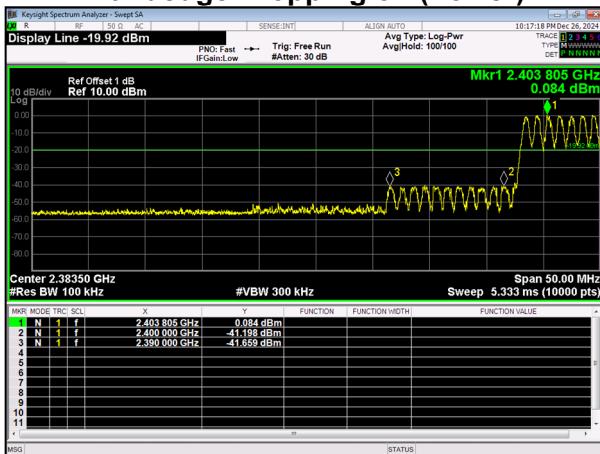
Bandedge- CH00 (Lower)



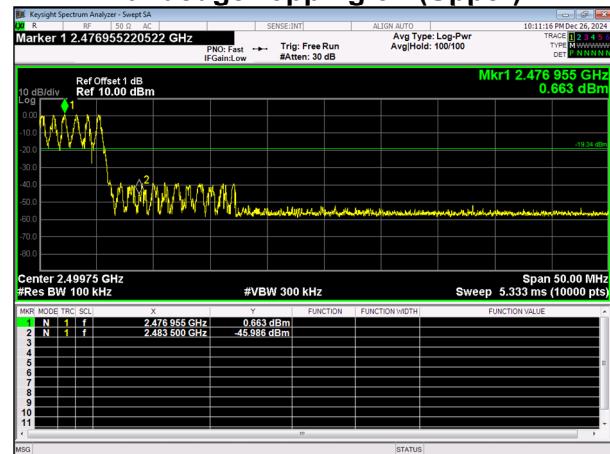
Bandedge CH78 (Upper)



Bandedge- Hopping on (Lower)

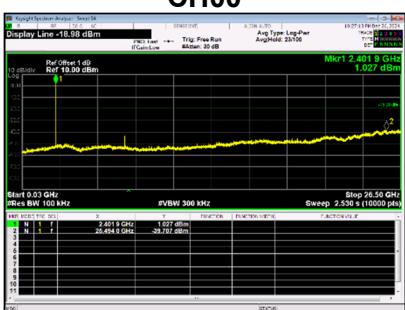


BandedgeHopping on (Upper)

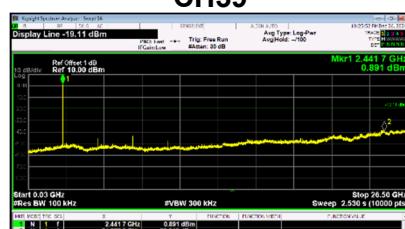


10th Harmonic of the fundamental frequency

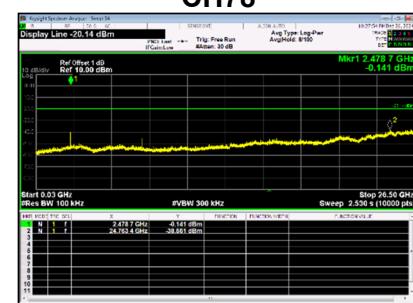
CH00



CH39

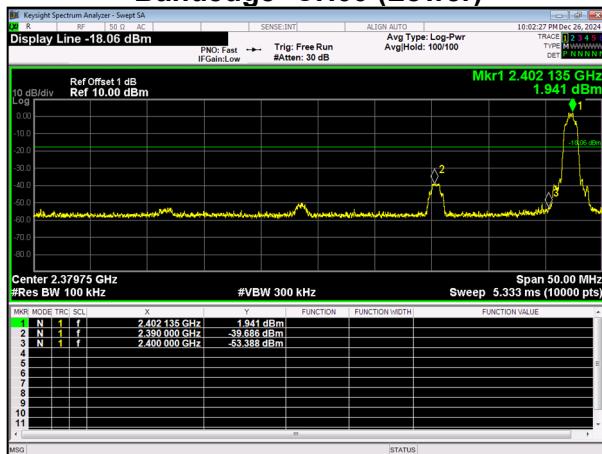


CH78

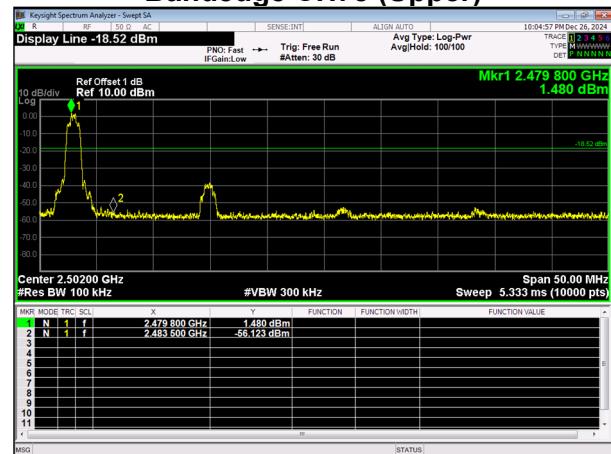


TX Mode_3Mbps

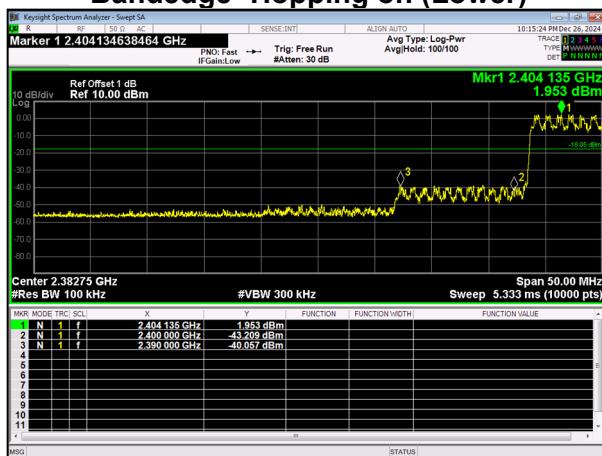
Bandedge- CH00 (Lower)



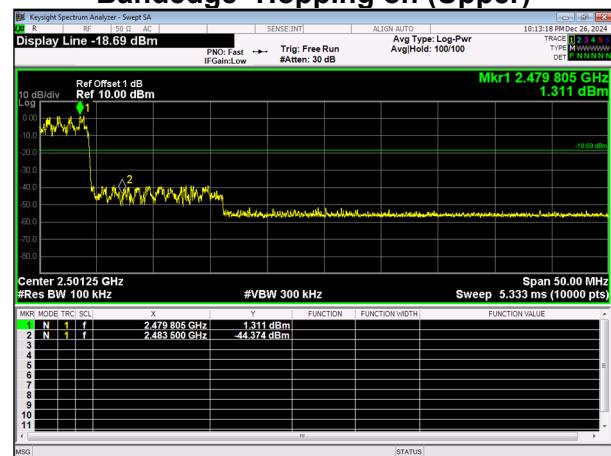
Bandedge CH78 (Upper)



Bandedge- Hopping on (Lower)

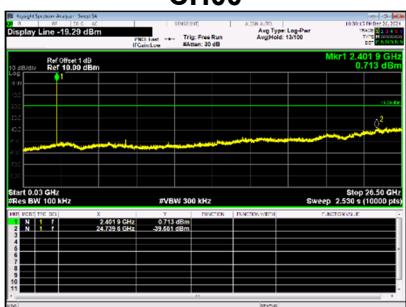


Bandedge- Hopping on (Upper)

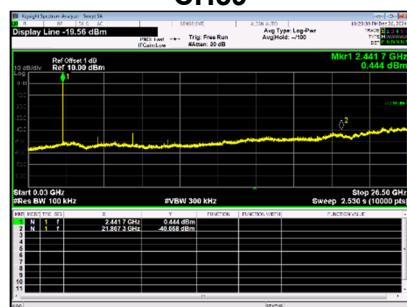


10th Harmonic of the fundamental frequency

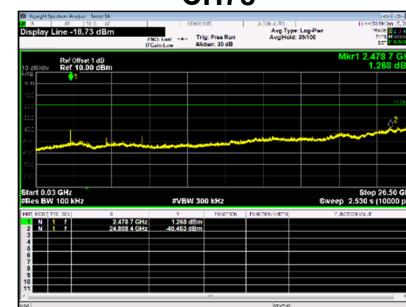
CH00



CH39



CH78



END OF TEST REPORT