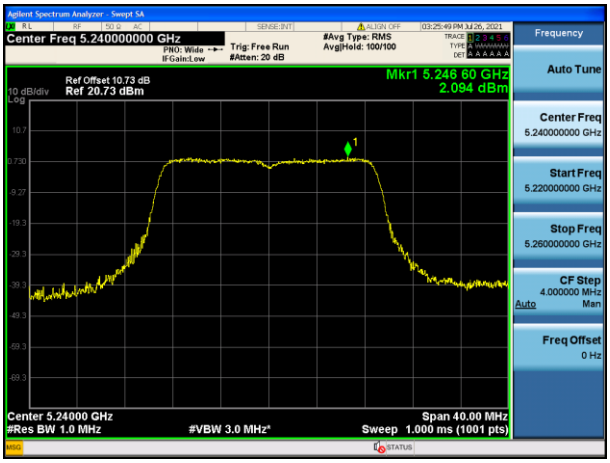
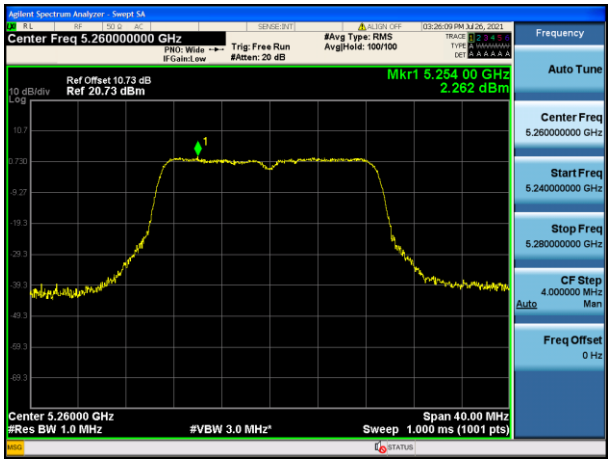
▣ Test Plots(802.11n(HT20))

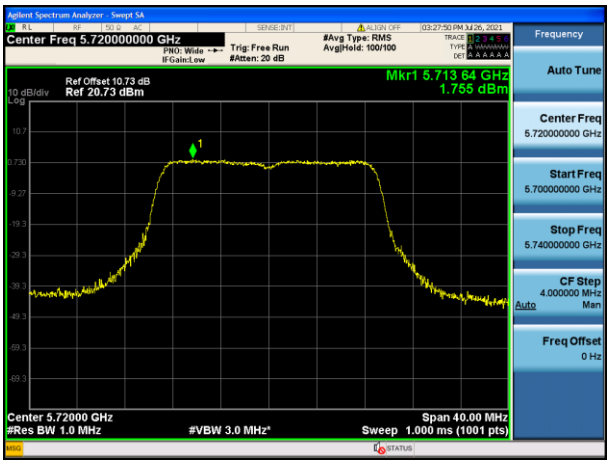
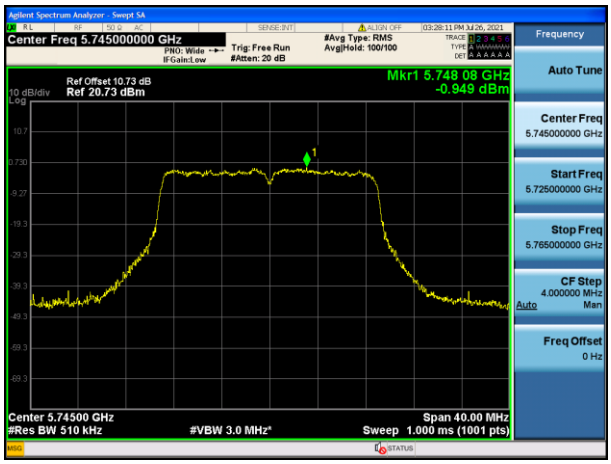
Note:

In order to simplify the report, attached plots were only channel of highest power.

| UNII 1 (Ch. 48) | UNII 2A (Ch. 52) |
|---|---|
|  |  |





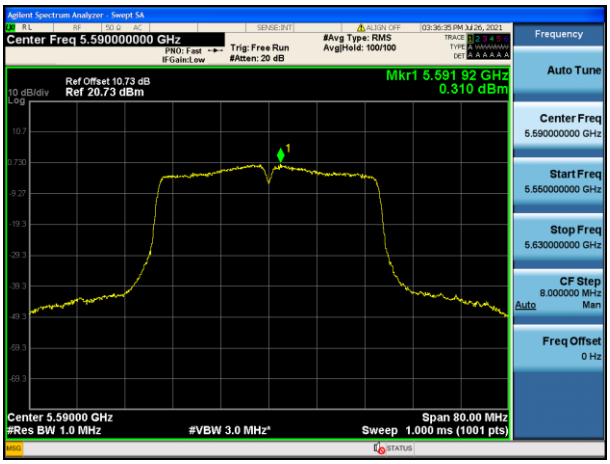
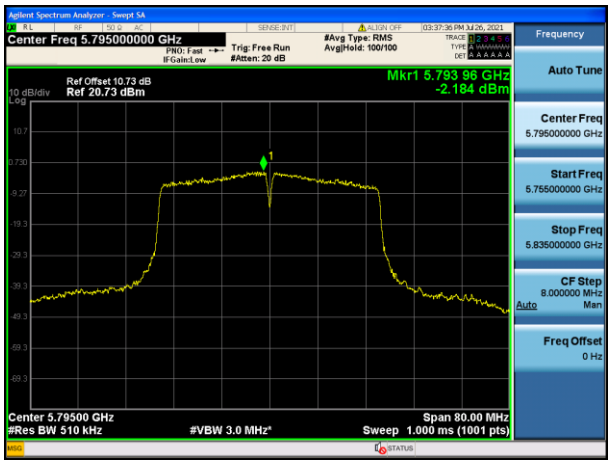
| UNII 2C (Ch. 144) | UNII 3 (Ch. 149) |
|---|---|
|  |  |

▣ Test Plots(802.11n(HT40))

Note:

In order to simplify the report, attached plots were only channel of highest power.

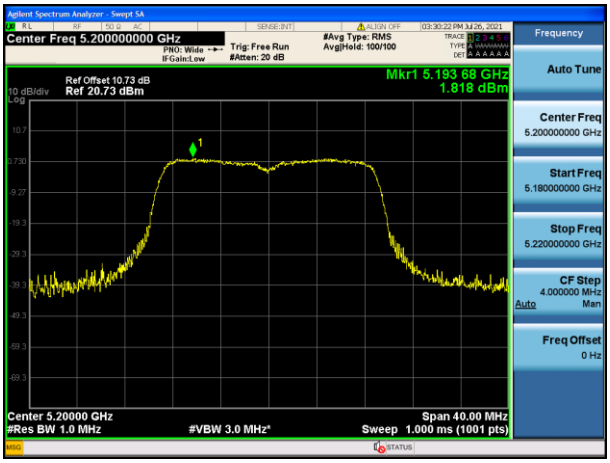
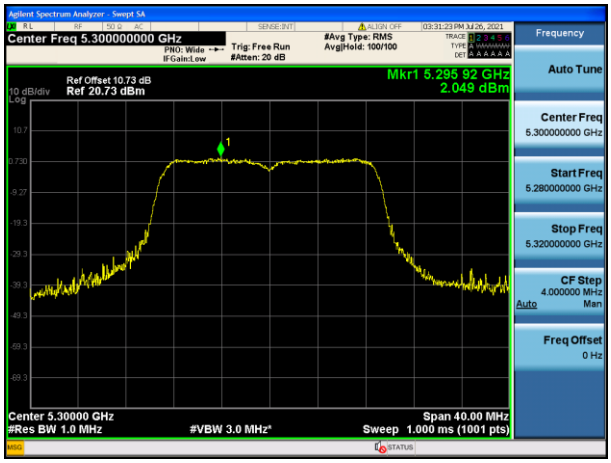
| UNII 1 (Ch. 38) | UNII 2A (Ch. 54) |
|---|---|
|  |  |

| UNII 2C (Ch. 118) | UNII 3 (Ch. 159) |
|---|---|
|  |  |

▣ Test Plots(802.11ac(VHT20))

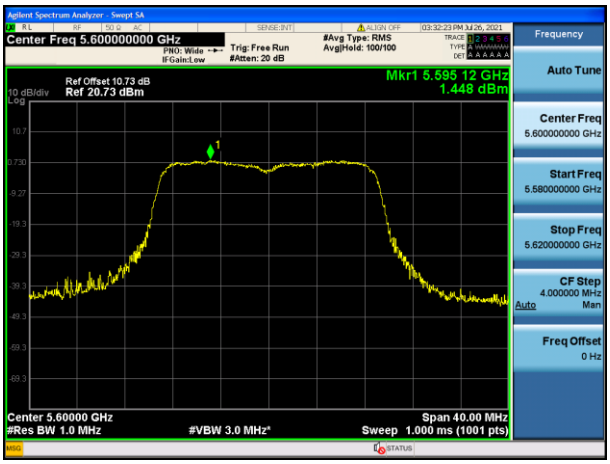
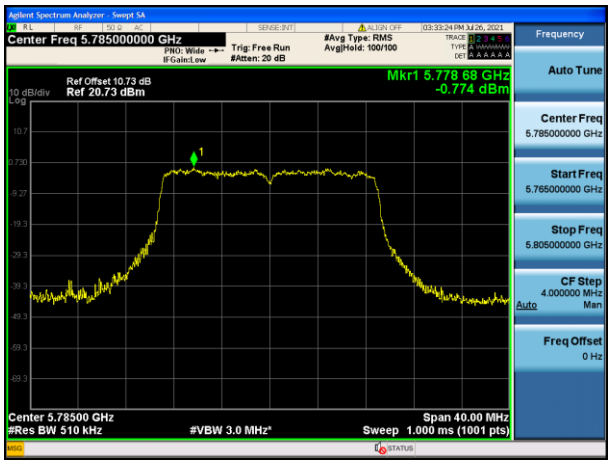
Note:

In order to simplify the report, attached plots were only channel of highest power.

| UNII 1 (Ch. 40) | UNII 2A (Ch. 60) |
|---|---|
|  |  |



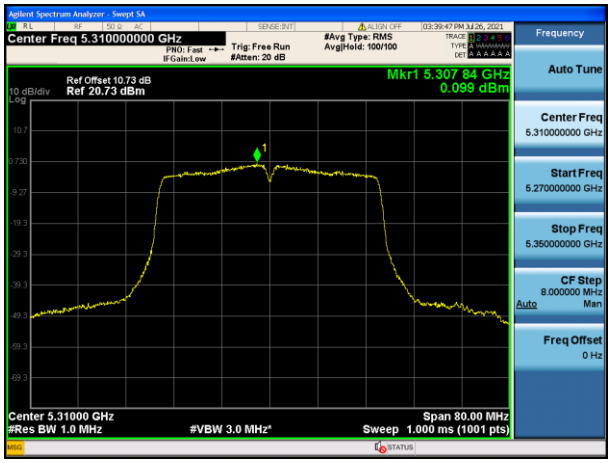


| UNII 2C (Ch. 120) | UNII 3 (Ch. 157) |
|---|---|
|  |  |

▣ Test Plots(802.11ac(VHT40))

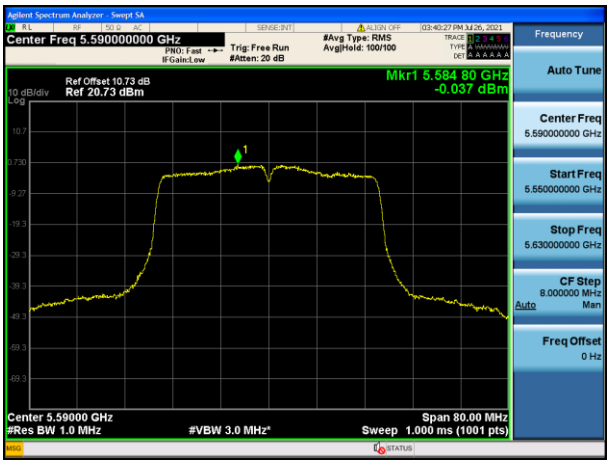
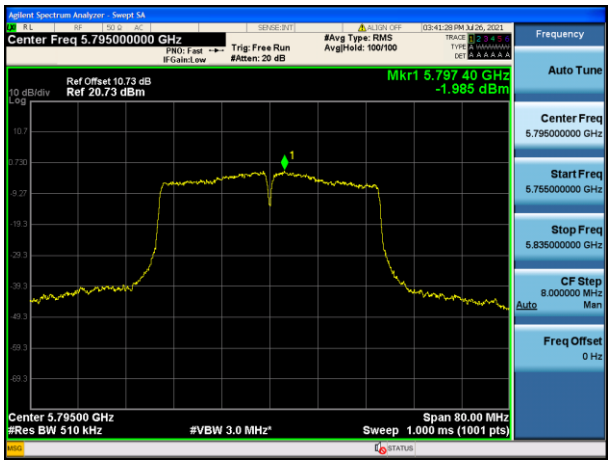
Note:

In order to simplify the report, attached plots were only channel of highest power.

| UNII 1 (Ch. 46) | UNII 2A (Ch. 62) |
|---|---|
|  |  |



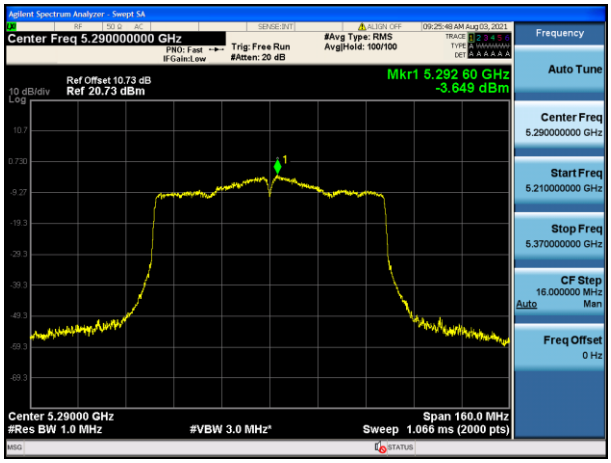


| UNII 2C (Ch. 118) | UNII 3 (Ch. 159) |
|---|---|
|  |  |

▣ Test Plots(802.11ac(VHT80))

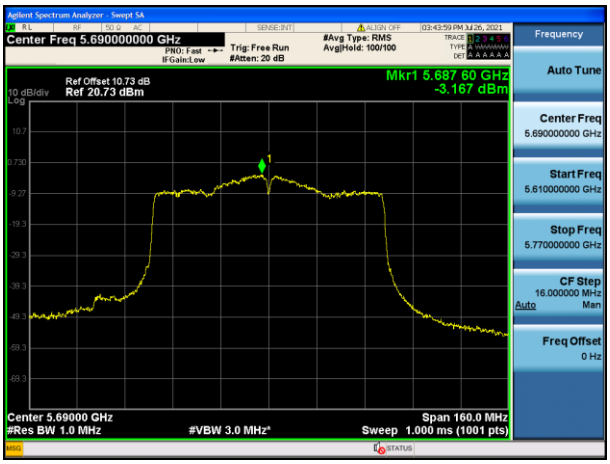
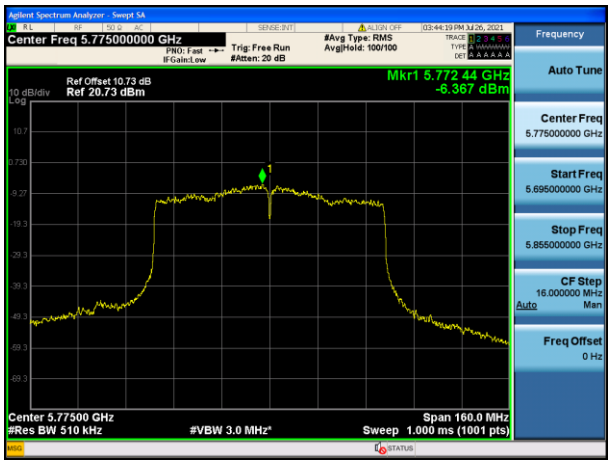
Note:

In order to simplify the report, attached plots were only channel of highest power.

| UNII 1 (Ch. 42) | UNII 2A (Ch. 58) |
|---|---|
|  |  |





| UNII 2C (Ch. 138) | UNII 3 (Ch. 155) |
|---|---|
|  |  |

## 10.6 FREQUENCY STABILITY.

### 10.6.1 80 MHz BW

**Startup after the EUT is energized**

| | |
|---|---|
| OPERATING BAND: | UNII Band 1 |
| OPERATING FREQUENCY: | 5,210,000,000 Hz |
| CHANNEL: | 42 |
| REFERENCE VOLTAGE: | 3.86 VDC |

| Voltage (%) | Power (VDC) | Temp. (℃) | Frequency (kHz) | Frequency Error (kHz) |
|---|---|---|---|---|
| 100% | 3.86 | +20(Ref) | 5210032.90 | 32.90 |
| 100% | | -30 | 5210005.85 | 5.85 |
| 100% | | -20 | 5210015.24 | 15.24 |
| 100% | | -10 | 5210018.29 | 18.29 |
| 100% | | 0 | 5210023.47 | 23.47 |
| 100% | | +10 | 5210025.24 | 25.24 |
| 100% | | +30 | 5210037.35 | 37.35 |
| 100% | | +40 | 5210047.05 | 47.05 |
| 100% | | +50 | 5210057.87 | 57.87 |
| Batt. Endpoint | 3.55 | +20 | 5210032.46 | 32.46 |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

| | |
|---|---|
| OPERATING BAND: | UNII Band 2A |
| OPERATING FREQUENCY: | 5,290,000,000 Hz |
| CHANNEL: | 58 |
| REFERENCE VOLTAGE: | 3.86 VDC |

| Voltage (%) | Power (VDC) | Temp. (℃) | Frequency (kHz) | Frequency Error (kHz) |
|---|---|---|---|---|
| 100% | 3.86 | +20(Ref) | 5290035.87 | 35.87 |
| 100% | | -30 | 5290009.39 | 9.39 |
| 100% | | -20 | 5290011.11 | 11.11 |
| 100% | | -10 | 5290020.24 | 20.24 |
| 100% | | 0 | 5290020.93 | 20.93 |
| 100% | | +10 | 5290029.39 | 29.39 |
| 100% | | +30 | 5290036.36 | 36.36 |
| 100% | | +40 | 5290047.73 | 47.73 |
| 100% | | +50 | 5290051.68 | 51.68 |
| Batt. Endpoint | 3.55 | +20 | 5290034.78 | 34.78 |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

| | |
|---|---|
| OPERATING BAND: | UNII Band 2C |
| OPERATING FREQUENCY: | 5,530,000,000 Hz |
| CHANNEL: | 106 |
| REFERENCE VOLTAGE: | 3.86 VDC |

| Voltage (%) | Power (VDC) | Temp. (℃) | Frequency (kHz) | Frequency Error (kHz) |
|---|---|---|---|---|
| 100% | 3.86 | +20(Ref) | 5530034.74 | 34.74 |
| 100% | | -30 | 5530010.51 | 10.51 |
| 100% | | -20 | 5530011.91 | 11.91 |
| 100% | | -10 | 5530015.52 | 15.52 |
| 100% | | 0 | 5530023.60 | 23.60 |
| 100% | | +10 | 5530029.66 | 29.66 |
| 100% | | +30 | 5530037.84 | 37.84 |
| 100% | | +40 | 5530040.60 | 40.60 |
| 100% | | +50 | 5530055.40 | 55.40 |
| Batt. Endpoint | 3.55 | +20 | 5530032.03 | 32.03 |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

| | |
|---|---|
| OPERATING BAND: | UNII Band 3 |
| OPERATING FREQUENCY: | 5,775,000,000 Hz |
| CHANNEL: | 155 |
| REFERENCE VOLTAGE: | 3.86 VDC |

| Voltage (%) | Power (VDC) | Temp. (℃) | Frequency (kHz) | Frequency Error (kHz) |
|---|---|---|---|---|
| 100% | 3.86 | +20(Ref) | 5775032.61 | 32.61 |
| 100% | | -30 | 5775007.43 | 7.43 |
| 100% | | -20 | 5775011.46 | 11.46 |
| 100% | | -10 | 5775018.61 | 18.61 |
| 100% | | 0 | 5775023.13 | 23.13 |
| 100% | | +10 | 5775026.90 | 26.90 |
| 100% | | +30 | 5775038.15 | 38.15 |
| 100% | | +40 | 5775049.69 | 49.69 |
| 100% | | +50 | 5775059.71 | 59.71 |
| Batt. Endpoint | 3.55 | +20 | 5775031.80 | 31.80 |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

**2 minutes after the EUT is energized**

| | |
|---|---|
| OPERATING BAND: | UNII Band 1 |
| OPERATING FREQUENCY: | 5,210,000,000 Hz |
| CHANNEL: | 42 |
| REFERENCE VOLTAGE: | 3.86 VDC |

| Voltage (%) | Power (VDC) | Temp. (℃) | Frequency (kHz) | Frequency Error (kHz) |
|---|---|---|---|---|
| 100% | 3.86 | +20(Ref) | 5210033.95 | 33.95 |
| 100% | | -30 | 5210009.84 | 9.84 |
| 100% | | -20 | 5210014.57 | 14.57 |
| 100% | | -10 | 5210017.89 | 17.89 |
| 100% | | 0 | 5210022.89 | 22.89 |
| 100% | | +10 | 5210025.38 | 25.38 |
| 100% | | +30 | 5210036.96 | 36.96 |
| 100% | | +40 | 5210050.84 | 50.84 |
| 100% | | +50 | 5210052.02 | 52.02 |
| Batt. Endpoint | 3.55 | +20 | 5210032.93 | 32.93 |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

| | |
|---|---|
| OPERATING BAND: | UNII Band 2A |
| OPERATING FREQUENCY: | 5,290,000,000 Hz |
| CHANNEL: | 58 |
| REFERENCE VOLTAGE: | 3.86 VDC |

| Voltage (%) | Power (VDC) | Temp. (℃) | Frequency (kHz) | Frequency Error (kHz) |
|---|---|---|---|---|
| 100% | 3.86 | +20(Ref) | 5290030.24 | 30.24 |
| 100% | | -30 | 5290009.94 | 9.94 |
| 100% | | -20 | 5290010.90 | 10.90 |
| 100% | | -10 | 5290017.13 | 17.13 |
| 100% | | 0 | 5290025.66 | 25.66 |
| 100% | | +10 | 5290025.71 | 25.71 |
| 100% | | +30 | 5290038.37 | 38.37 |
| 100% | | +40 | 5290041.31 | 41.31 |
| 100% | | +50 | 5290057.97 | 57.97 |
| Batt. Endpoint | 3.55 | +20 | 5290034.07 | 34.07 |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

| | |
|---|---|
| OPERATING BAND: | UNII Band 2C |
| OPERATING FREQUENCY: | 5,530,000,000 Hz |
| CHANNEL: | 106 |
| REFERENCE VOLTAGE: | 3.86 VDC |

| Voltage (%) | Power (VDC) | Temp. (℃) | Frequency (kHz) | Frequency Error (kHz) |
|---|---|---|---|---|
| 100% | 3.86 | +20(Ref) | 5530030.86 | 30.86 |
| 100% | | -30 | 5530008.91 | 8.91 |
| 100% | | -20 | 5530014.03 | 14.03 |
| 100% | | -10 | 5530018.87 | 18.87 |
| 100% | | 0 | 5530022.84 | 22.84 |
| 100% | | +10 | 5530030.42 | 30.42 |
| 100% | | +30 | 5530038.46 | 38.46 |
| 100% | | +40 | 5530042.11 | 42.11 |
| 100% | | +50 | 5530050.24 | 50.24 |
| Batt. Endpoint | 3.55 | +20 | 5530031.83 | 31.83 |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

| | |
|---|---|
| OPERATING BAND: | UNII Band 3 |
| OPERATING FREQUENCY: | 5,775,000,000 Hz |
| CHANNEL: | 155 |
| REFERENCE VOLTAGE: | 3.86 VDC |

| Voltage (%) | Power (VDC) | Temp. (℃) | Frequency (kHz) | Frequency Error (kHz) |
|---|---|---|---|---|
| 100% | 3.86 | +20(Ref) | 5775035.50 | 35.50 |
| 100% | | -30 | 5775009.89 | 9.89 |
| 100% | | -20 | 5775010.82 | 10.82 |
| 100% | | -10 | 5775018.24 | 18.24 |
| 100% | | 0 | 5775021.73 | 21.73 |
| 100% | | +10 | 5775028.90 | 28.90 |
| 100% | | +30 | 5775039.09 | 39.09 |
| 100% | | +40 | 5775049.96 | 49.96 |
| 100% | | +50 | 5775050.08 | 50.08 |
| Batt. Endpoint | 3.55 | +20 | 5775032.17 | 32.17 |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

**5 minutes after the EUT is energized**

| | |
|---|---|
| OPERATING BAND: | UNII Band 1 |
| OPERATING FREQUENCY: | 5,210,000,000 Hz |
| CHANNEL: | 42 |
| REFERENCE VOLTAGE: | 3.86 VDC |

| Voltage (%) | Power (VDC) | Temp. (℃) | Frequency (kHz) | Frequency Error (kHz) |
|---|---|---|---|---|
| 100% | 3.86 | +20(Ref) | 5210033.92 | 33.92 |
| 100% | | -30 | 5210007.49 | 7.49 |
| 100% | | -20 | 5210014.34 | 14.34 |
| 100% | | -10 | 5210020.04 | 20.04 |
| 100% | | 0 | 5210020.12 | 20.12 |
| 100% | | +10 | 5210025.25 | 25.25 |
| 100% | | +30 | 5210038.70 | 38.70 |
| 100% | | +40 | 5210046.77 | 46.77 |
| 100% | | +50 | 5210054.53 | 54.53 |
| Batt. Endpoint | 3.55 | +20 | 5210034.23 | 34.23 |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

| | |
|---|---|
| OPERATING BAND: | UNII Band 2A |
| OPERATING FREQUENCY: | 5,290,000,000 Hz |
| CHANNEL: | 58 |
| REFERENCE VOLTAGE: | 3.86 VDC |

| Voltage (%) | Power (VDC) | Temp. (℃) | Frequency (kHz) | Frequency Error (kHz) |
|---|---|---|---|---|
| 100% | 3.86 | +20(Ref) | 5290035.64 | 35.64 |
| 100% | | -30 | 5290010.87 | 10.87 |
| 100% | | -20 | 5290013.33 | 13.33 |
| 100% | | -10 | 5290016.98 | 16.98 |
| 100% | | 0 | 5290023.39 | 23.39 |
| 100% | | +10 | 5290026.82 | 26.82 |
| 100% | | +30 | 5290036.37 | 36.37 |
| 100% | | +40 | 5290047.51 | 47.51 |
| 100% | | +50 | 5290051.03 | 51.03 |
| Batt. Endpoint | 3.55 | +20 | 5290034.25 | 34.25 |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

| | |
|---|---|
| OPERATING BAND: | UNII Band 2C |
| OPERATING FREQUENCY: | 5,530,000,000 Hz |
| CHANNEL: | 106 |
| REFERENCE VOLTAGE: | 3.86 VDC |

| Voltage (%) | Power (VDC) | Temp. (℃) | Frequency (kHz) | Frequency Error (kHz) |
|---|---|---|---|---|
| 100% | 3.86 | +20(Ref) | 5530034.83 | 34.83 |
| 100% | | -30 | 5530009.76 | 9.76 |
| 100% | | -20 | 5530012.35 | 12.35 |
| 100% | | -10 | 5530016.56 | 16.56 |
| 100% | | 0 | 5530025.45 | 25.45 |
| 100% | | +10 | 5530027.73 | 27.73 |
| 100% | | +30 | 5530035.76 | 35.76 |
| 100% | | +40 | 5530043.95 | 43.95 |
| 100% | | +50 | 5530050.54 | 50.54 |
| Batt. Endpoint | 3.55 | +20 | 5530034.91 | 34.91 |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

| | |
|---|---|
| OPERATING BAND: | UNII Band 3 |
| OPERATING FREQUENCY: | 5,775,000,000 Hz |
| CHANNEL: | 155 |
| REFERENCE VOLTAGE: | 3.86 VDC |

| Voltage (%) | Power (VDC) | Temp. (℃) | Frequency (kHz) | Frequency Error (kHz) |
|---|---|---|---|---|
| 100% | 3.86 | +20(Ref) | 5775033.66 | 33.66 |
| 100% | | -30 | 5775009.70 | 9.70 |
| 100% | | -20 | 5775010.08 | 10.08 |
| 100% | | -10 | 5775015.27 | 15.27 |
| 100% | | 0 | 5775020.74 | 20.74 |
| 100% | | +10 | 5775028.88 | 28.88 |
| 100% | | +30 | 5775040.03 | 40.03 |
| 100% | | +40 | 5775042.17 | 42.17 |
| 100% | | +50 | 5775053.39 | 53.39 |
| Batt. Endpoint | 3.55 | +20 | 5775033.39 | 33.39 |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

**10 minutes after the EUT is energized**

| | |
|---|---|
| OPERATING BAND: | UNII Band 1 |
| OPERATING FREQUENCY: | 5,210,000,000 Hz |
| CHANNEL: | 42 |
| REFERENCE VOLTAGE: | 3.86 VDC |

| Voltage (%) | Power (VDC) | Temp. (℃) | Frequency (kHz) | Frequency Error (kHz) |
|---|---|---|---|---|
| 100% | 3.86 | +20(Ref) | 5210035.59 | 35.59 |
| 100% | | -30 | 5210007.69 | 7.69 |
| 100% | | -20 | 5210013.30 | 13.30 |
| 100% | | -10 | 5210019.18 | 19.18 |
| 100% | | 0 | 5210023.75 | 23.75 |
| 100% | | +10 | 5210029.82 | 29.82 |
| 100% | | +30 | 5210036.04 | 36.04 |
| 100% | | +40 | 5210045.21 | 45.21 |
| 100% | | +50 | 5210060.31 | 60.31 |
| Batt. Endpoint | 3.55 | +20 | 5210034.14 | 34.14 |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

| | |
|---|---|
| OPERATING BAND: | UNII Band 2A |
| OPERATING FREQUENCY: | 5,290,000,000 Hz |
| CHANNEL: | 58 |
| REFERENCE VOLTAGE: | 3.86 VDC |

| Voltage (%) | Power (VDC) | Temp. (℃) | Frequency (kHz) | Frequency Error (kHz) |
|---|---|---|---|---|
| 100% | 3.86 | +20(Ref) | 5290032.37 | 32.37 |
| 100% | | -30 | 5290006.37 | 6.37 |
| 100% | | -20 | 5290015.19 | 15.19 |
| 100% | | -10 | 5290020.78 | 20.78 |
| 100% | | 0 | 5290020.16 | 20.16 |
| 100% | | +10 | 5290027.90 | 27.90 |
| 100% | | +30 | 5290037.66 | 37.66 |
| 100% | | +40 | 5290040.47 | 40.47 |
| 100% | | +50 | 5290059.10 | 59.10 |
| Batt. Endpoint | 3.55 | +20 | 5290033.10 | 33.10 |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

| | |
|---|---|
| OPERATING BAND: | UNII Band 2C |
| OPERATING FREQUENCY: | 5,530,000,000 Hz |
| CHANNEL: | 106 |
| REFERENCE VOLTAGE: | 3.86 VDC |

| Voltage (%) | Power (VDC) | Temp. (℃) | Frequency (kHz) | Frequency Error (kHz) |
|---|---|---|---|---|
| 100% | 3.86 | +20(Ref) | 5530030.60 | 30.60 |
| 100% | | -30 | 5530007.59 | 7.59 |
| 100% | | -20 | 5530010.22 | 10.22 |
| 100% | | -10 | 5530019.85 | 19.85 |
| 100% | | 0 | 5530020.33 | 20.33 |
| 100% | | +10 | 5530030.92 | 30.92 |
| 100% | | +30 | 5530035.08 | 35.08 |
| 100% | | +40 | 5530043.65 | 43.65 |
| 100% | | +50 | 5530056.38 | 56.38 |
| Batt. Endpoint | 3.55 | +20 | 5530034.62 | 34.62 |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

| | |
|---|---|
| OPERATING BAND: | UNII Band 3 |
| OPERATING FREQUENCY: | 5,775,000,000 Hz |
| CHANNEL: | 155 |
| REFERENCE VOLTAGE: | 3.86 VDC |

| Voltage (%) | Power (VDC) | Temp. (℃) | Frequency (kHz) | Frequency Error (kHz) |
|---|---|---|---|---|
| 100% | 3.86 | +20(Ref) | 5775034.12 | 34.12 |
| 100% | | -30 | 5775009.04 | 9.04 |
| 100% | | -20 | 5775015.79 | 15.79 |
| 100% | | -10 | 5775019.95 | 19.95 |
| 100% | | 0 | 5775021.66 | 21.66 |
| 100% | | +10 | 5775027.59 | 27.59 |
| 100% | | +30 | 5775035.71 | 35.71 |
| 100% | | +40 | 5775046.26 | 46.26 |
| 100% | | +50 | 5775058.06 | 58.06 |
| Batt. Endpoint | 3.55 | +20 | 5775035.89 | 35.89 |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

## 10.7 STRADDLE CHANNEL

### 10.7.1 26 dB Bandwidth

| Mode | Band | Frequency [MHz] | Channel | Measured Frequency [MHz] | 26 dB Bandwidth [MHz] |
|---|---|---|---|---|---|
| 802.11a | UNII 2C | 5720 | 144 | 5710.92 | 14.08 |
| 802.11n(HT20) | | | | 5709.52 | 15.48 |
| 802.11ac(VHT20) | | | | 5707.48 | 17.52 |
| 802.11a | UNII 3 | 5720 | 144 | 5729.12 | 4.12 |
| 802.11n(HT20) | | | | 5730.52 | 5.52 |
| 802.11ac(VHT20) | | | | 5730.56 | 5.56 |

| Mode | Band | Frequency [MHz] | Channel | Measured Frequency [MHz] | 26 dB Bandwidth [MHz] |
|---|---|---|---|---|---|
| 802.11n(HT40) | UNII 2C | 5710 | 142 | 5690.48 | 34.52 |
| 802.11ac(VHT40) | | | | 5690.56 | 34.44 |
| 802.11n(HT40) | UNII 3 | 5710 | 142 | 5729.44 | 4.44 |
| 802.11ac(VHT40) | | | | 5729.36 | 4.36 |

| Mode | Band | Frequency [MHz] | Channel | Measured Frequency [MHz] | 26 dB Bandwidth [MHz] |
|---|---|---|---|---|---|
| 802.11ac(VHT80) | UNII 2C | 5690 | 138 | 5649.84 | 75.16 |
| | UNII 3 | 5690 | 138 | 5730.16 | 5.16 |

**Note:**

[UNII 2C] 26 dB Bandwidth = 5 725 MHz **-** Measured Frequency[MHz]

[UNII 3C] 26 dB Bandwidth = Measured Frequency[MHz] – 5 725 MHz

▣ Test Plots (26 dB Bandwidth)

| 802.11a UNII Band | 802.11n(HT20) UNII Band |
|---|---|
|  |  |

| 802.11ac(VHT20) UNII Band |
|---|
|  |

▣ Test Plots (26 dB Bandwidth)

| 802.11n(HT40) UNII Band | 802.11ac(VHT40) UNII Band |
|---|---|
|  |  |

| 802.11ac(VHT80) UNII Band |
|---|
|  |

**10.7.2 6 dB Bandwidth**

| Mode | Band | Frequency [MHz] | Channel | Measured Frequency [MHz] | 6 dB Bandwidth [MHz] | Limit [MHz] |
|---|---|---|---|---|---|---|
| 802.11a | UNII 3 | 5720 | 144 | 5727.56 | 2.56 | > 0.5 |
| 802.11n(HT20) | | | | 5728.80 | 3.80 | > 0.5 |
| 802.11ac(VHT20) | | | | 5728.80 | 3.80 | > 0.5 |

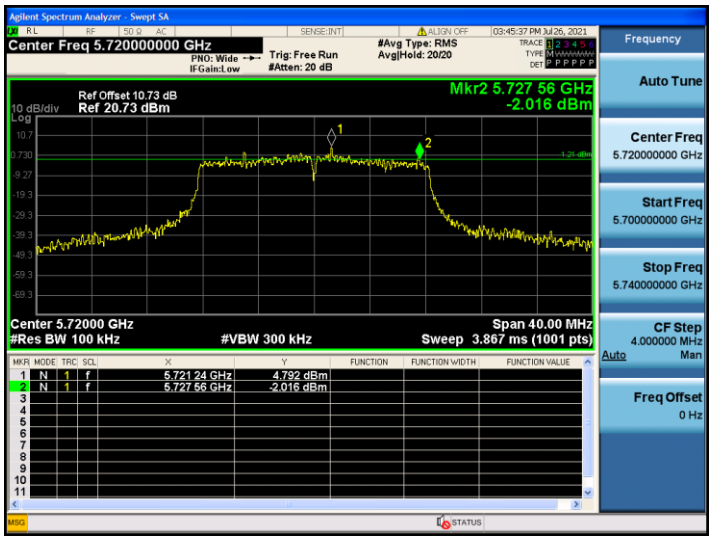
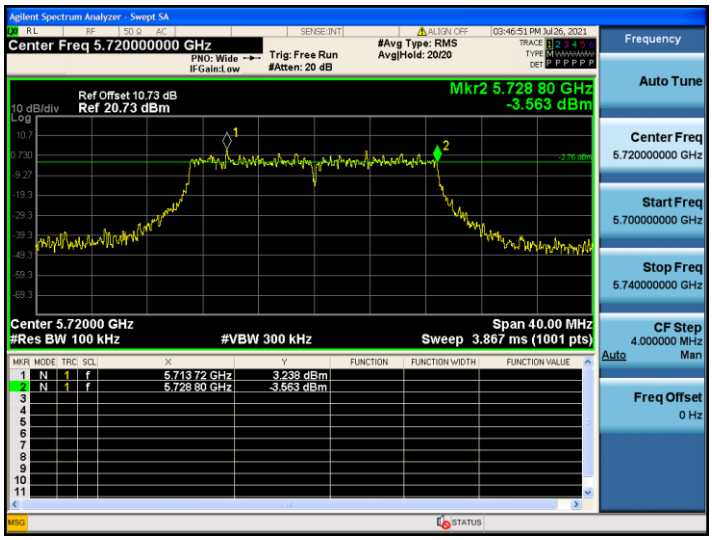
| Mode | Band | Frequency [MHz] | Channel | Measured Frequency [MHz] | 6 dB Bandwidth [MHz] | Limit [MHz] |
|---|---|---|---|---|---|---|
| 802.11n(HT40) | UNII 3 | 5710 | 142 | 5727.60 | 2.60 | > 0.5 |
| 802.11ac(VHT40) | | | | 5727.60 | 2.60 | > 0.5 |

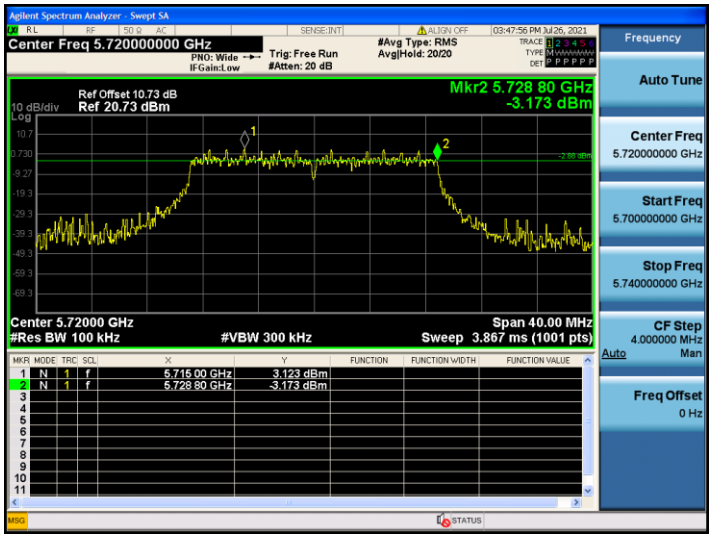
| Mode | Band | Frequency [MHz] | Channel | Measured Frequency [MHz] | 6 dB Bandwidth [MHz] | Limit [MHz] |
|---|---|---|---|---|---|---|
| 802.11ac(VHT80) | UNII 3 | 5690 | 138 | 5727.60 | 2.60 | > 0.5 |

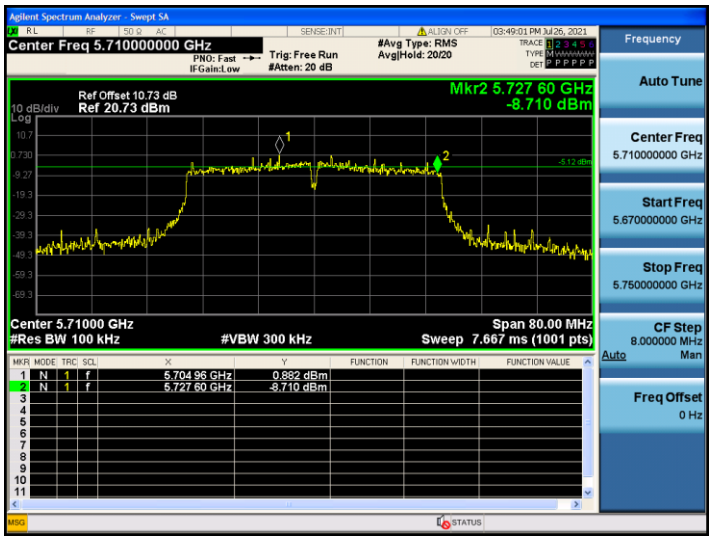
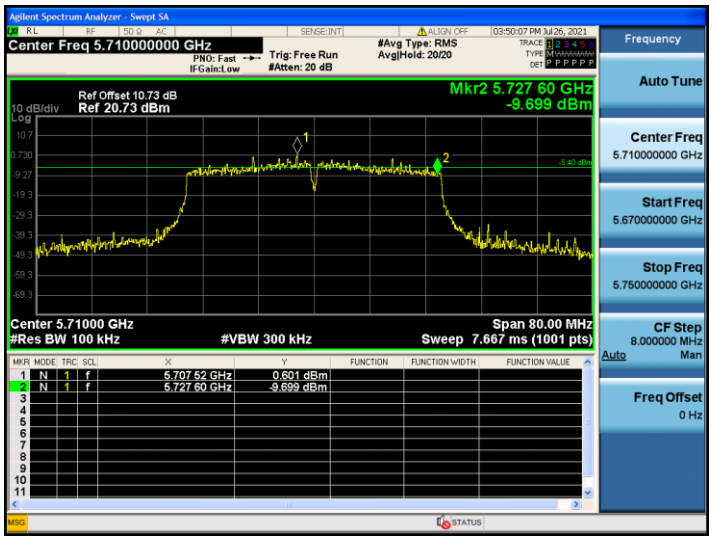
**Note:**

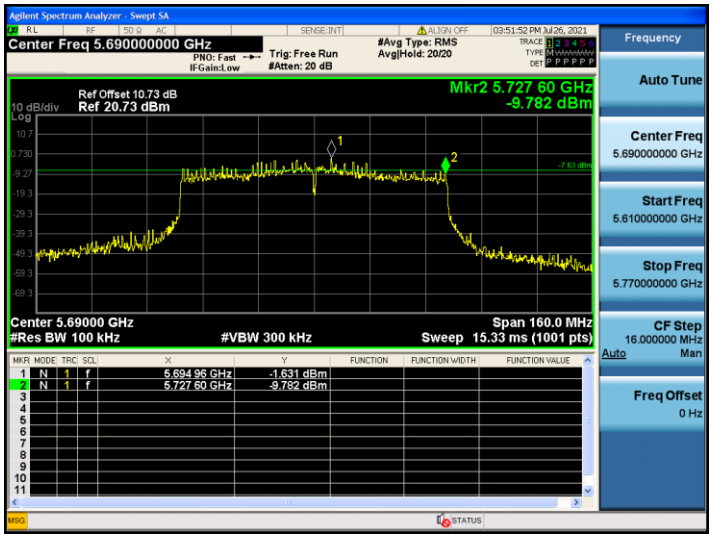
6 dB Bandwidth = Measured Frequency[MHz] – 5 725MHz

▣ Test Plots(UNII 3 Band 6 dB Bandwidth)

| 802.11a CH.144 | 802.11n_HT20 CH.144 |
|---|---|
|  |  |

| 802.11ac_VHT20 CH.144 |
|---|
|  |

| 802.11n_HT40 CH.142 | 802.11ac_VHT40 CH.142 |
|---|---|
|  |  |

| 802.11ac_VHT80 CH.138 |
|---|
|  |

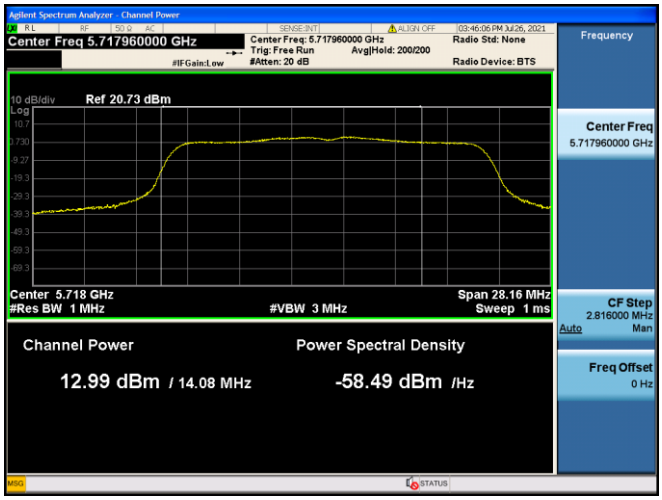
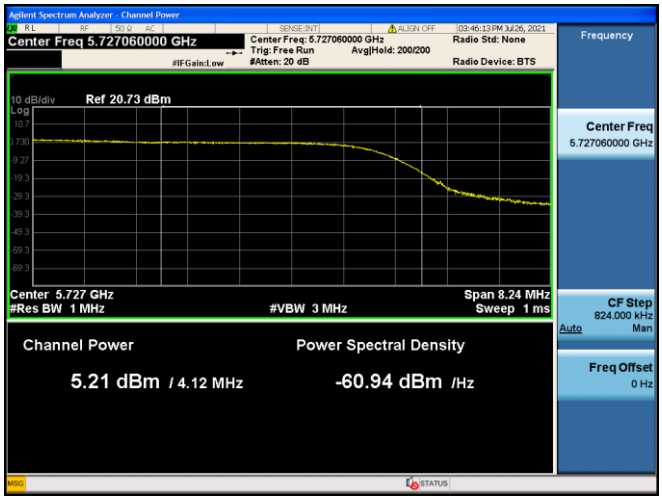
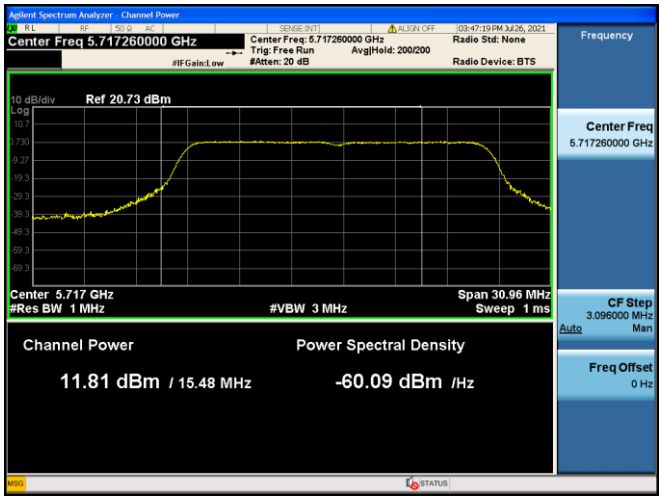
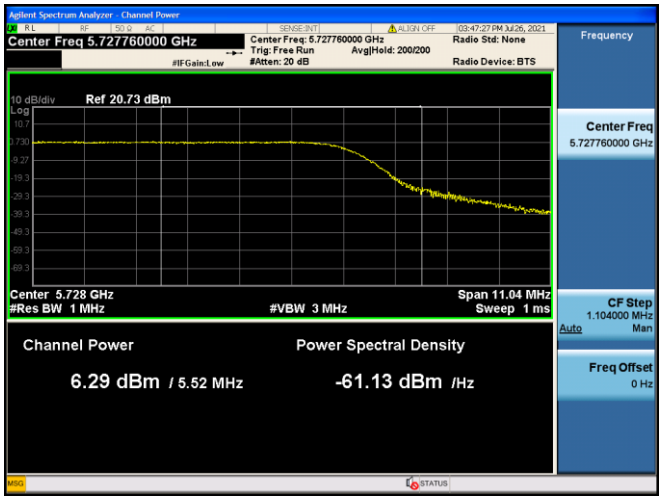
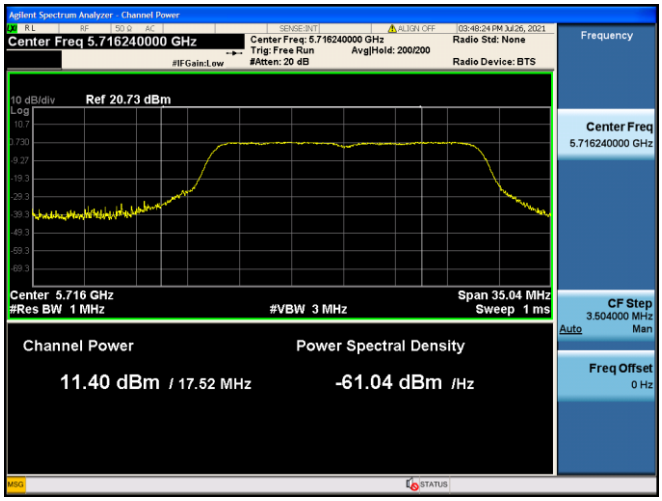
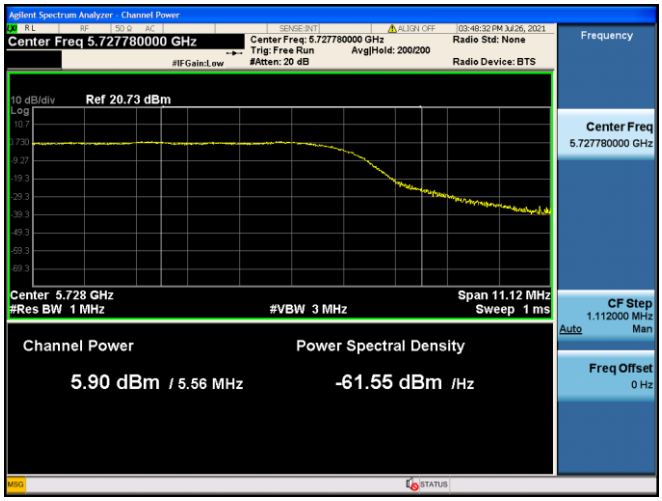
**10.7.3 Output Power**

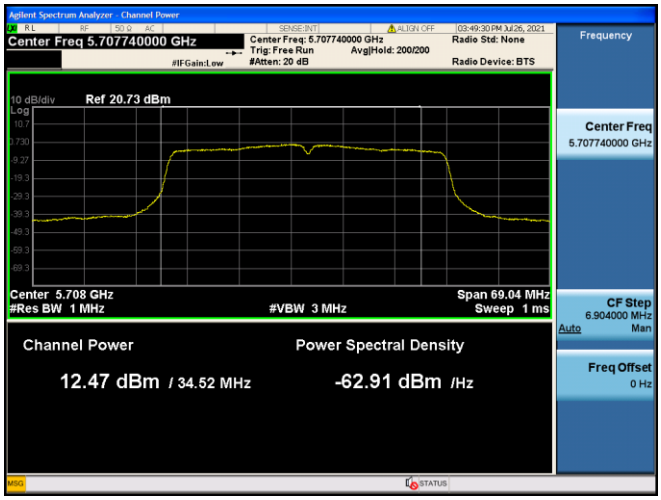
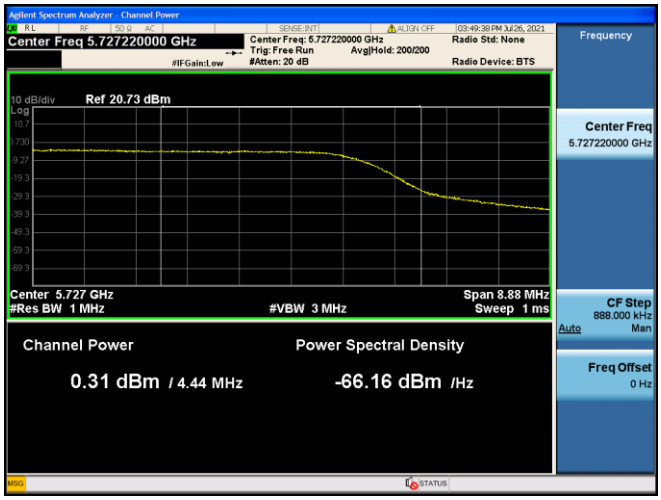
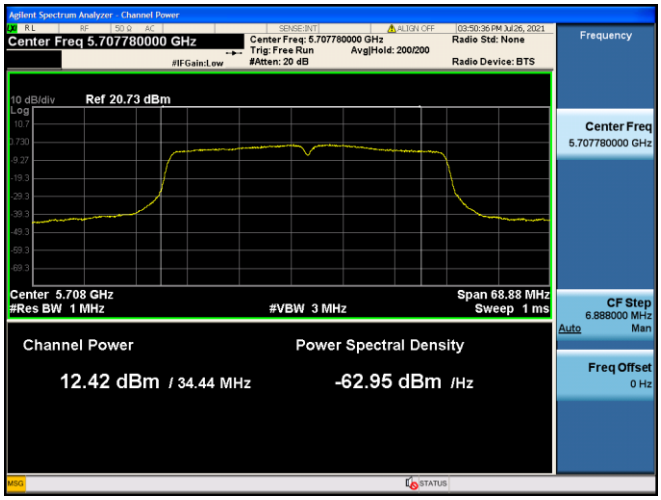
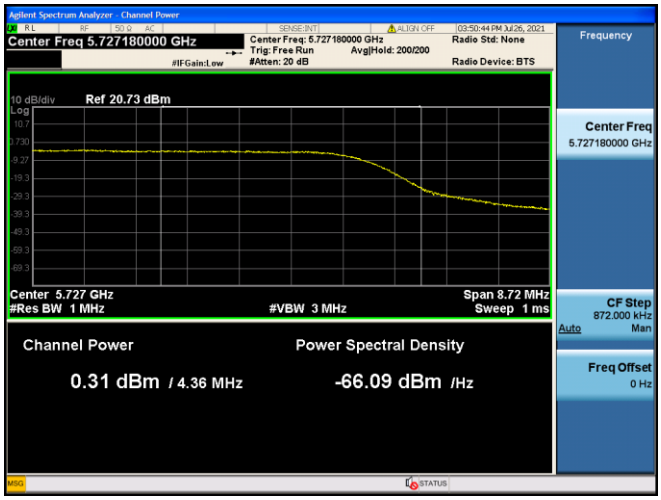
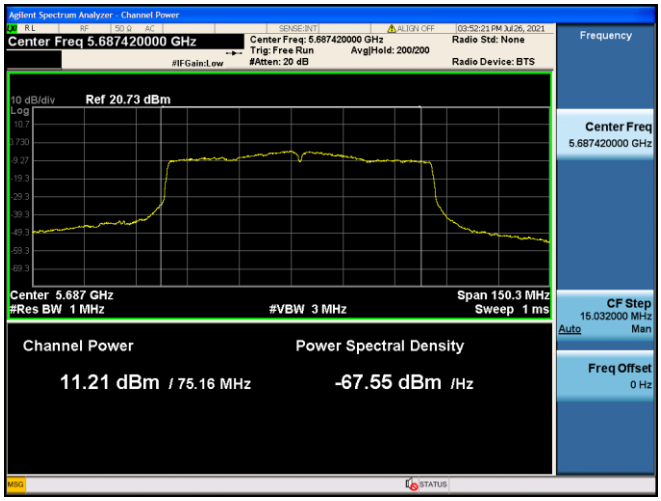
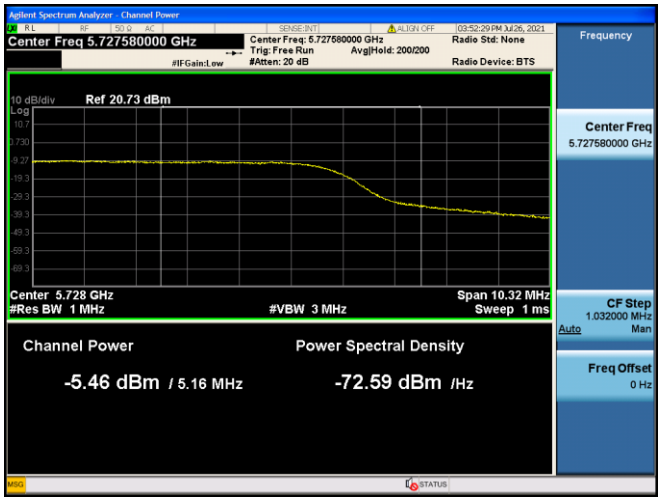
| Mode | Frequency [MHz] | Channel | Measured Power [dBm] | Duty Cycle Factor [dB] | Total Power [dBm] | Limit [dBm] | Worstcase Datarate |
|---|---|---|---|---|---|---|---|
| 802.11a | 5720 (UNII 2C Band) | 144 | 12.99 | 0.799 | 13.79 | 22.49 | 18M |
| 802.11n(HT20) | | | 11.81 | 1.448 | 13.25 | 22.90 | MCS4 |
| 802.11ac(VHT20) | | | 11.40 | 1.883 | 13.28 | 23.44 | MCS6 |
| 802.11a | 5720 (UNII 3 Band) | 144 | 5.21 | 0.799 | 6.01 | 30.00 | 18M |
| 802.11n(HT20) | | | 6.29 | 1.448 | 7.74 | 30.00 | MCS4 |
| 802.11ac(VHT20) | | | 5.90 | 1.883 | 7.78 | 30.00 | MCS6 |

| Mode | Frequency [MHz] | Channel | Measured Power [dBm] | Duty Cycle Factor [dB] | Total Power [dBm] | Limit [dBm] | Worstcase Datarate |
|---|---|---|---|---|---|---|---|
| 802.11n(HT40) | 5710 (UNII 2C Band) | 142 | 12.47 | 1.181 | 13.65 | 23.98 | MCS1 |
| 802.11ac(VHT40) | | | 12.42 | 1.099 | 13.52 | 23.98 | MCS1 |
| 802.11n(HT40) | 5710 (UNII 3 Band) | 142 | 0.31 | 1.181 | 1.50 | 30.00 | MCS1 |
| 802.11ac(VHT40) | | | 0.31 | 1.099 | 1.41 | 30.00 | MCS1 |

| Mode | Frequency [MHz] | Channel | Measured Power [dBm] | Duty Cycle Factor [dB] | Total Power [dBm] | Limit [dBm] | Worstcase Datarate |
|---|---|---|---|---|---|---|---|
| 802.11ac(VHT80) | 5690 (UNII 2C Band) | 138 | 11.21 | 1.928 | 13.14 | 23.98 | MCS1 |
| | 5690 (UNII 3 Band) | 138 | -5.46 | 1.928 | -3.53 | 30.00 | MCS1 |

## ▣ Test Plots_

| 802.11a UNII 2C Band | 802.11a UNII 3 Band |
|---|---|
|  |  |
| **802.11n(HT20) UNII 2C Band** | **802.11n(HT20) UNII 3 Band** |
|  |  |
| **802.11ac(VHT20) UNII 2C Band** | **802.11ac(VHT20) UNII 3 Band** |
|  |  |

| 802.11n(HT40) UNII 2C Band | 802.11n(HT40) UNII 3 Band |
|---|---|
|  |  |
| **802.11ac(VHT40) UNII 2C Band** | **802.11ac(VHT40) UNII 3 Band** |
|  |  |
| **802.11ac(VHT80) UNII 2C Band** | **802.11ac(VHT80) UNII 3 Band** |
|  |  |

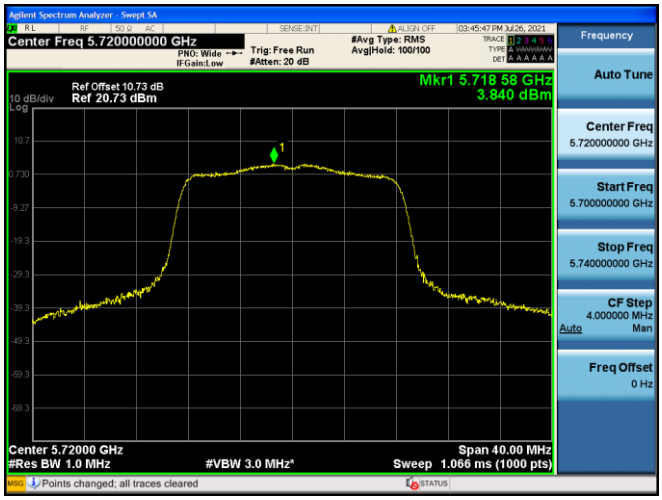
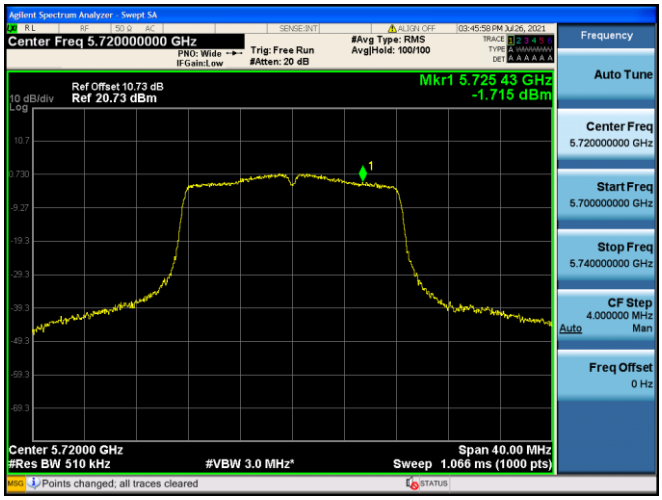
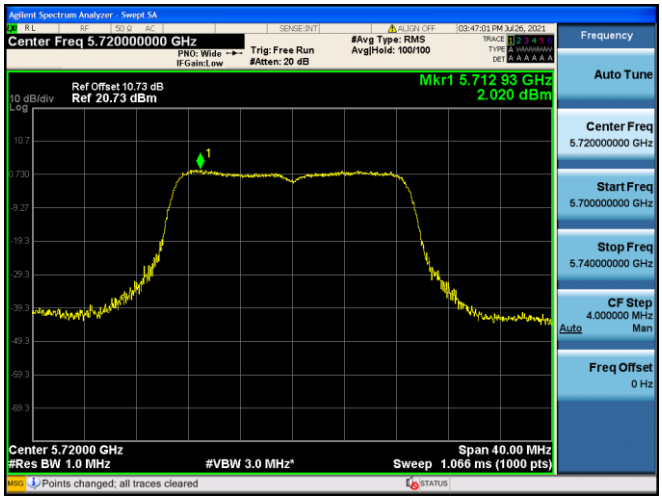
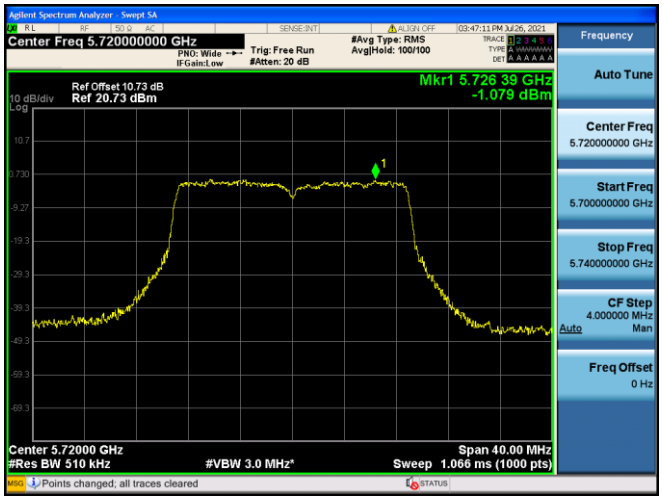
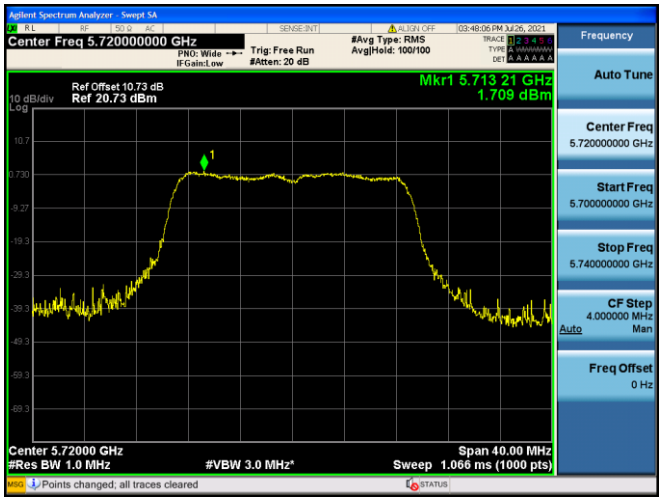
### 10.7.4 Power Spectral Density

| Mode | Frequency [MHz] | Channel | Measured Density [dBm] | Duty Cycle Factor [dB] | Total PSD [dBm] | Limit [dBm] | Worstcase Datarate |
|---|---|---|---|---|---|---|---|
| 802.11a | 5720 (UNII 2C Band) | 144 | 3.840 | 0.799 | 4.639 | 11dBm/ MHz | 18M |
| 802.11n(HT20) | | | 2.020 | 1.448 | 3.469 | | MCS4 |
| 802.11ac(VHT20) | | | 1.709 | 1.883 | 3.592 | | MCS6 |
| 802.11a | 5720 (UNII 3 Band) | 144 | -1.715 | 0.799 | -0.916 | 30 dB/ 500 kHz | 18M |
| 802.11n(HT20) | | | -1.079 | 1.448 | 0.369 | | MCS4 |
| 802.11ac(VHT20) | | | -1.586 | 1.883 | 0.297 | | MCS6 |

| Mode | Frequency [MHz] | Channel | Measured Density [dBm] | Duty Cycle Factor [dB] | Total PSD [dBm] | Limit [dBm] | Worstcase Datarate |
|---|---|---|---|---|---|---|---|
| 802.11n(HT40) | 5710 (UNII 2C Band) | 142 | 0.112 | 1.181 | 1.293 | 11dBm/ MHz | MCS1 |
| 802.11ac(VHT40) | | | -0.178 | 1.099 | 0.921 | | MCS1 |
| 802.11n(HT40) | 5710 (UNII 3 Band) | 142 | -6.472 | 1.181 | -5.291 | 30 dBm/ 500 kHz | MCS1 |
| 802.11ac(VHT40) | | | -6.923 | 1.099 | -5.824 | | MCS1 |

| Mode | Frequency [MHz] | Channel | Measured Density [dBm] | Duty Cycle Factor [dB] | Total PSD [dBm] | Limit [dBm] | Worstcase Datarate |
|---|---|---|---|---|---|---|---|
| 802.11ac(VHT80) | 5690 (UNII 2C Band) | 138 | -4.662 | 1.928 | -2.734 | 11dBm/ MHz | MCS1 |
| | 5690 (UNII 3 Band) | 138 | -12.072 | 1.928 | -10.144 | 30 dBm/ 500 kHz | MCS1 |

## ▣ Test Plots

| 802.11a UNII 2C Band | 802.11a UNII 3 Band |
|---|---|
|  |  |
| **802.11n(HT20) UNII 2C Band** | **802.11n(HT20) UNII 3 Band** |
|  |  |
| **802.11ac(VHT20) UNII 2C Band** | **802.11ac(VHT20) UNII 3 Band** |
|  |  |