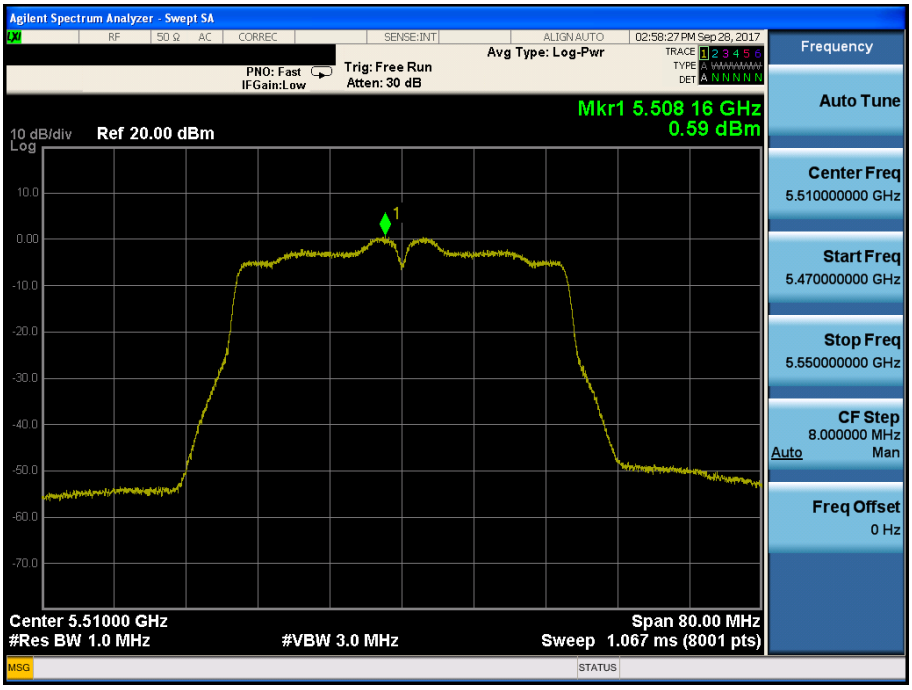
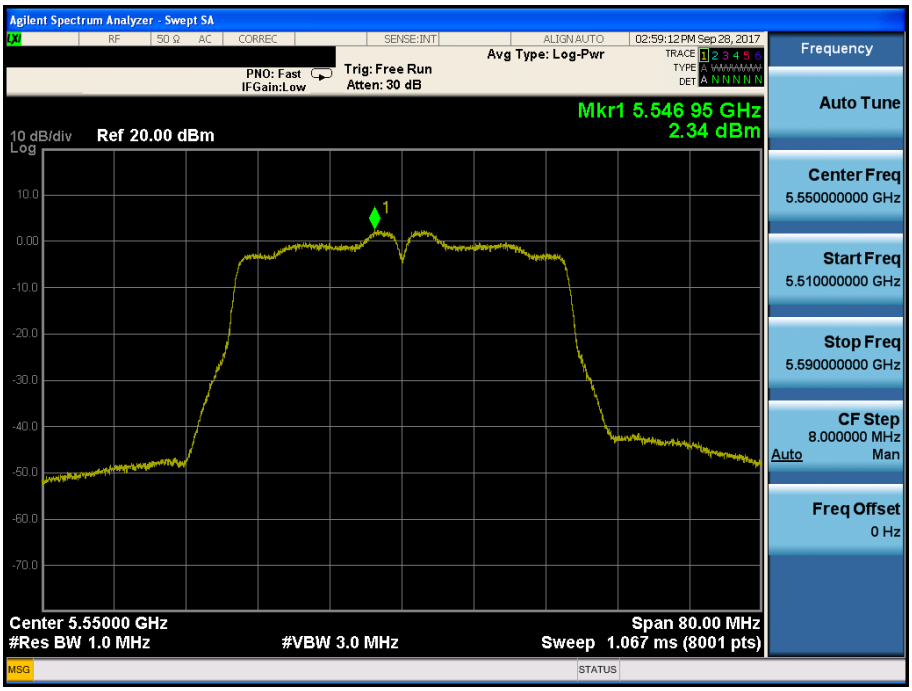
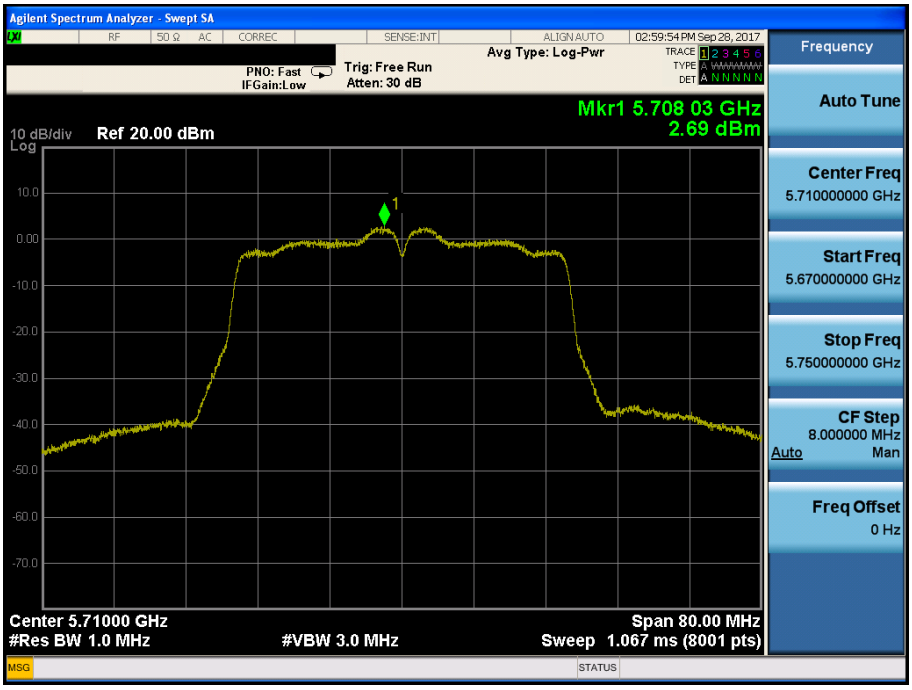
**Maximum Power Spectral Density** Test Mode: 802.11n HT40 & ANT 2 & Ch.102



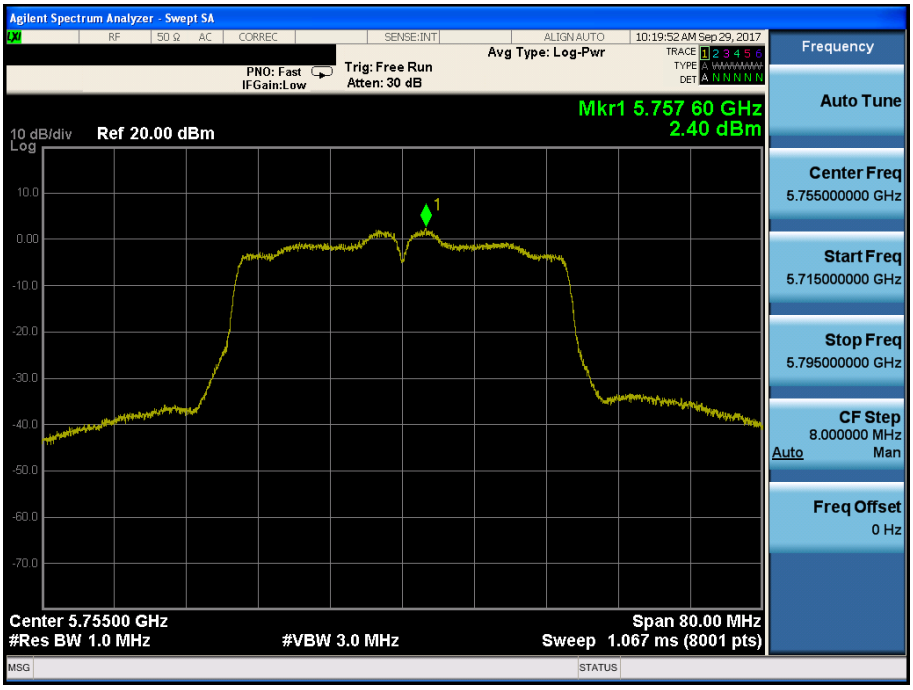

**Maximum Power Spectral Density** Test Mode: 802.11n HT40 & ANT 2 & Ch.110



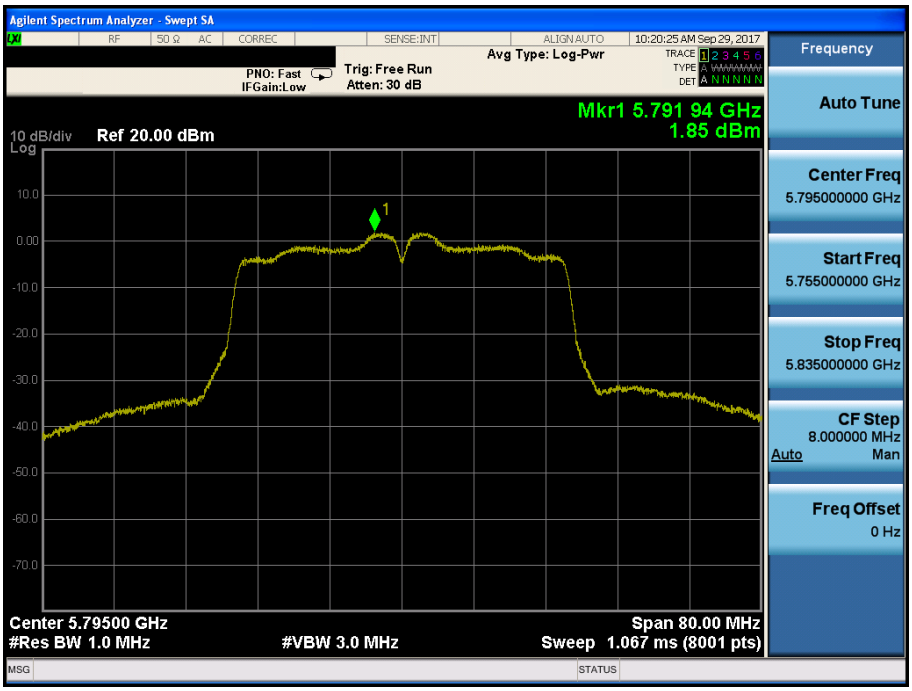
**Maximum Power Spectral Density** Test Mode: 802.11n HT40 & ANT 2 & Ch.142



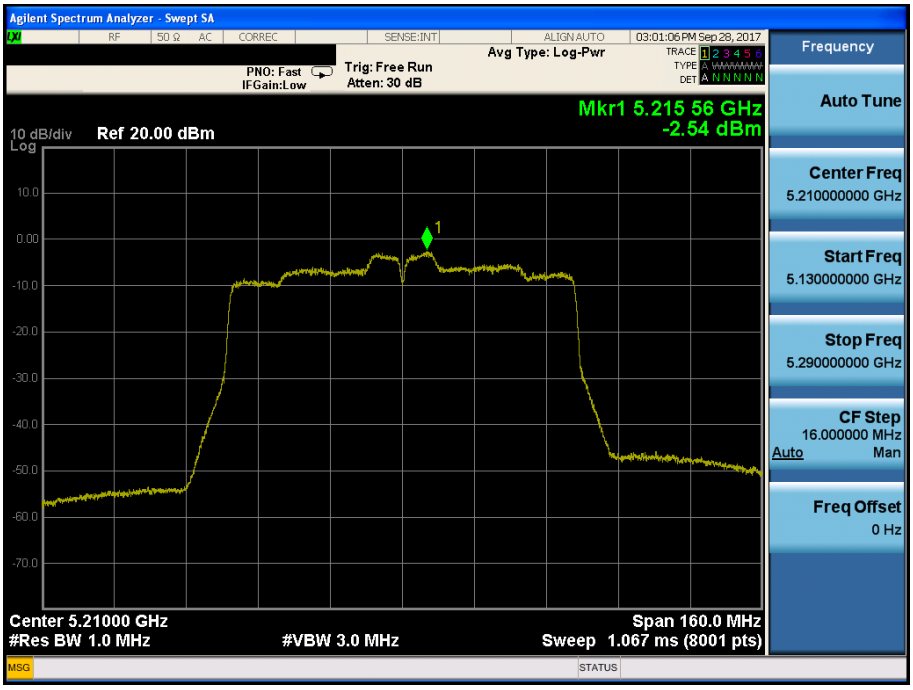
**Maximum Power Spectral Density** Test Mode: 802.11n HT40 & ANT 2 & Ch.151



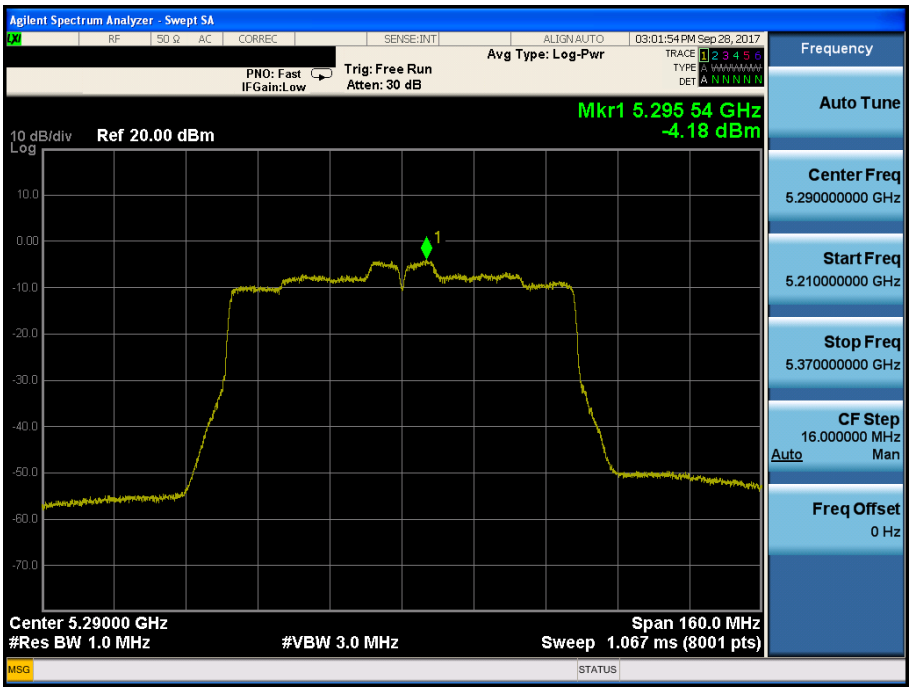

**Maximum Power Spectral Density** Test Mode: 802.11n HT40 & ANT 2 & Ch.159



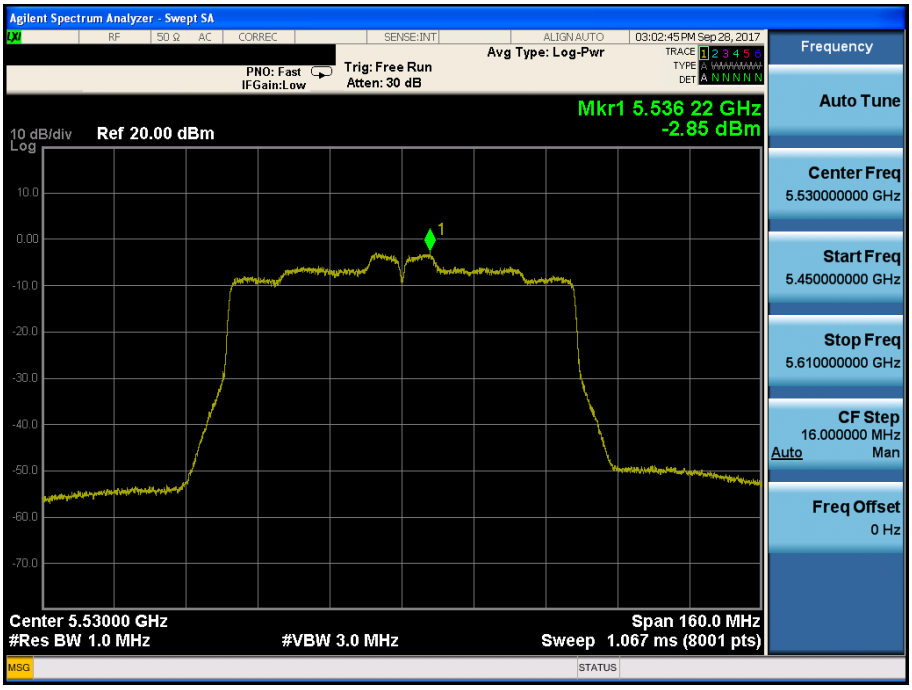
**Maximum Power Spectral Density** Test Mode: 802.11ac VHT80 & ANT 2 & Ch.42



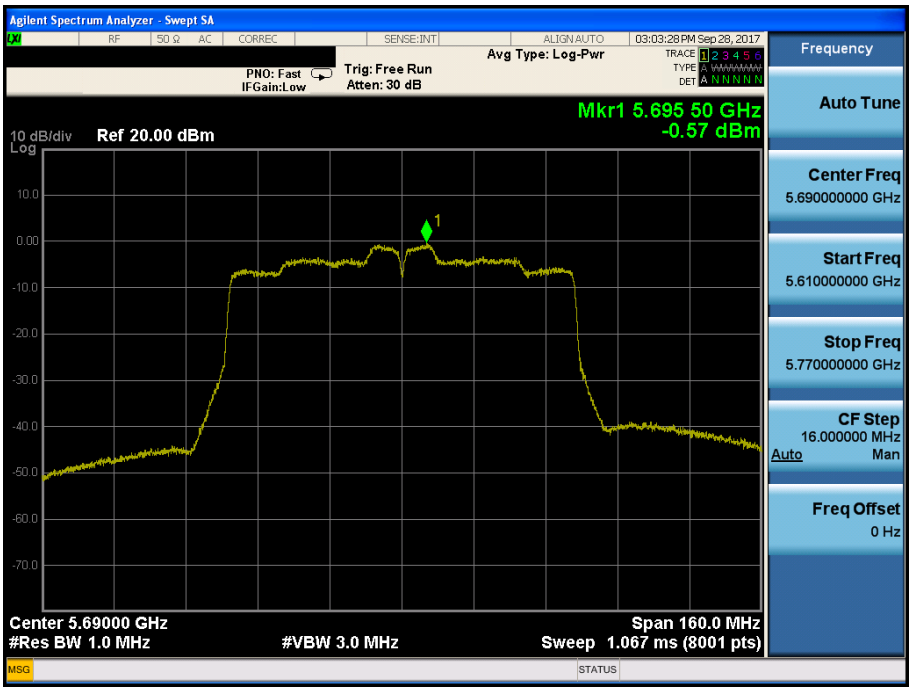

**Maximum Power Spectral Density** Test Mode: 802.11ac VHT80 & ANT 2 & Ch.58



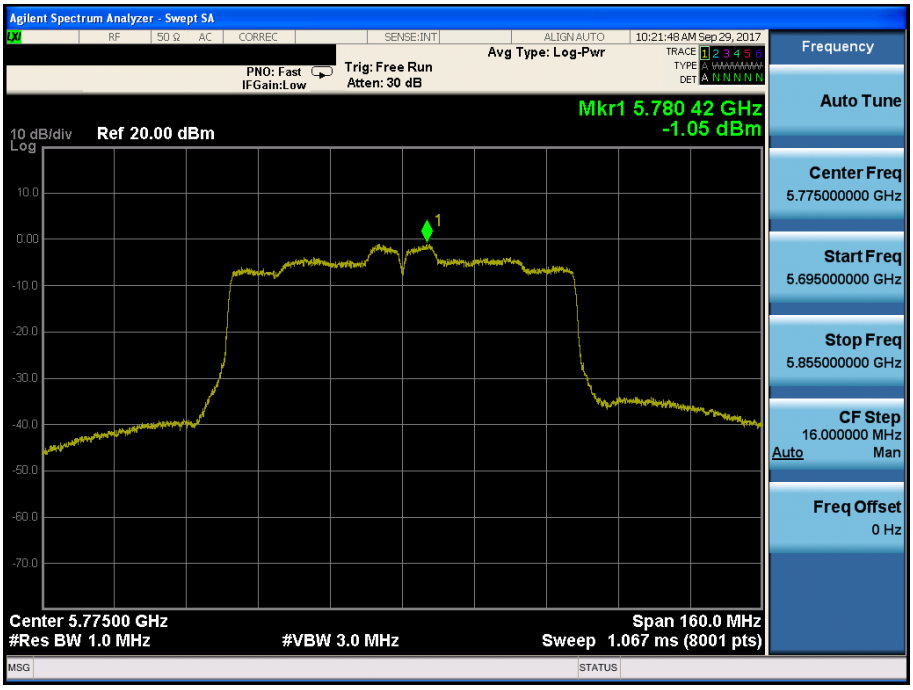
**Maximum Power Spectral Density** Test Mode: 802.11ac VHT80 & ANT 2 & Ch.106




**Maximum Power Spectral Density** Test Mode: 802.11ac VHT80 & ANT 2 & Ch.138

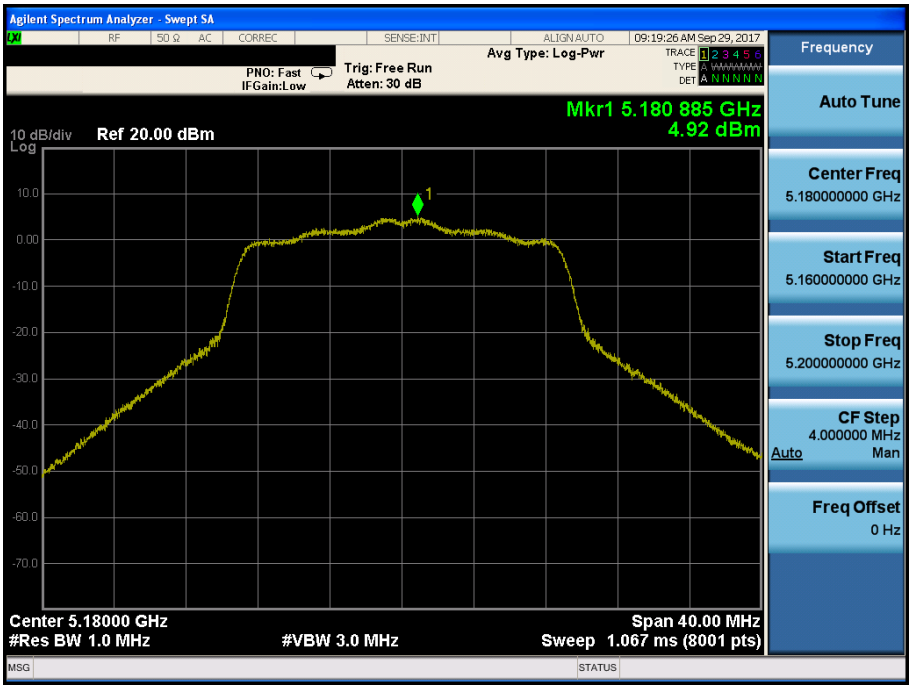


**Maximum Power Spectral Density** Test Mode: 802.11ac VHT80 & ANT 2 & Ch.155

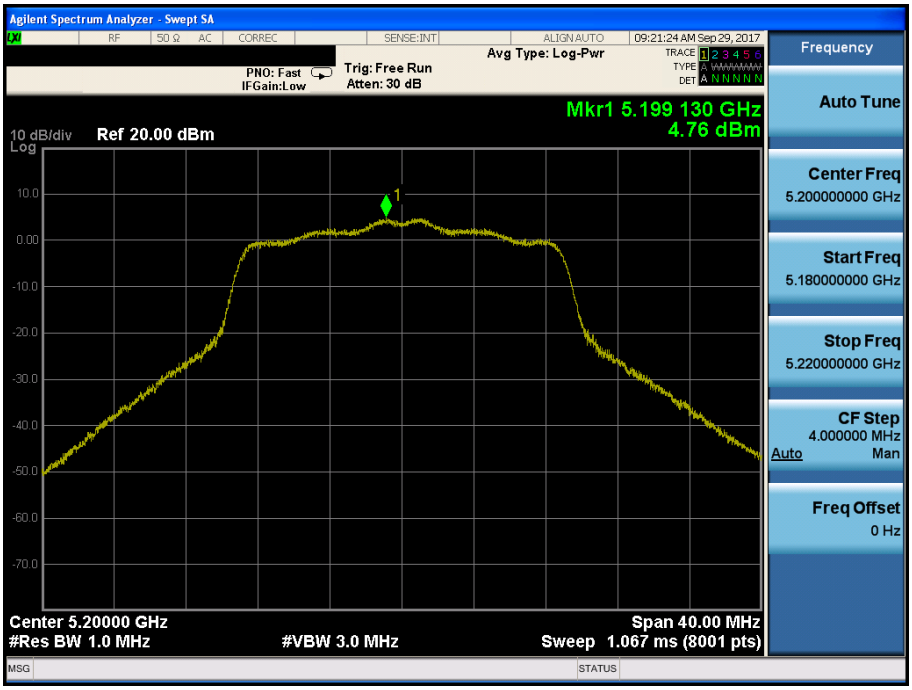


**- Power spectral density: SDM-Antenna 1**

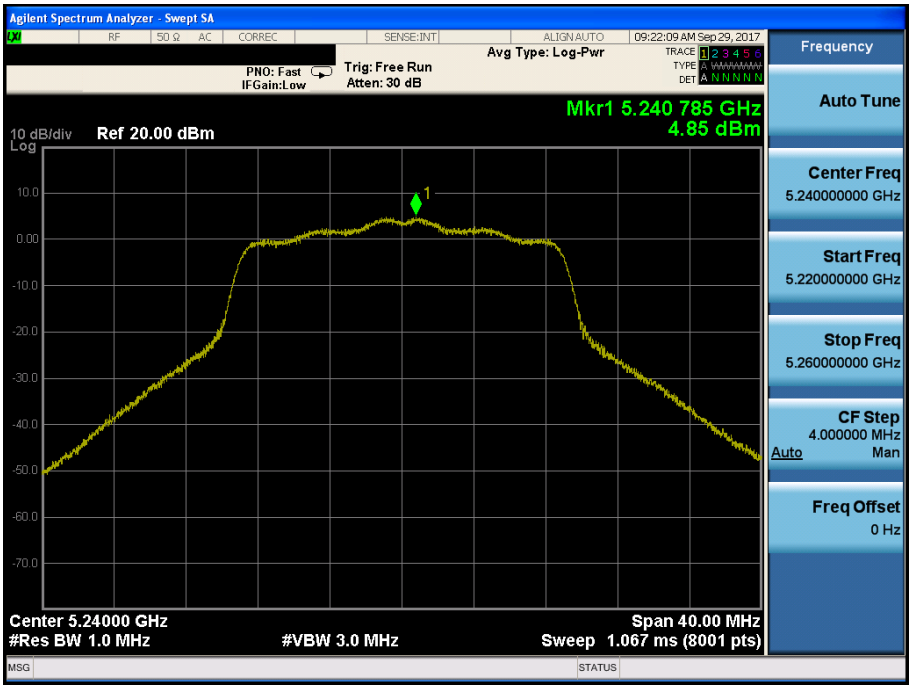
**Maximum Power Spectral Density** Test Mode: 802.11n HT20 & ANT 1 & Ch.36



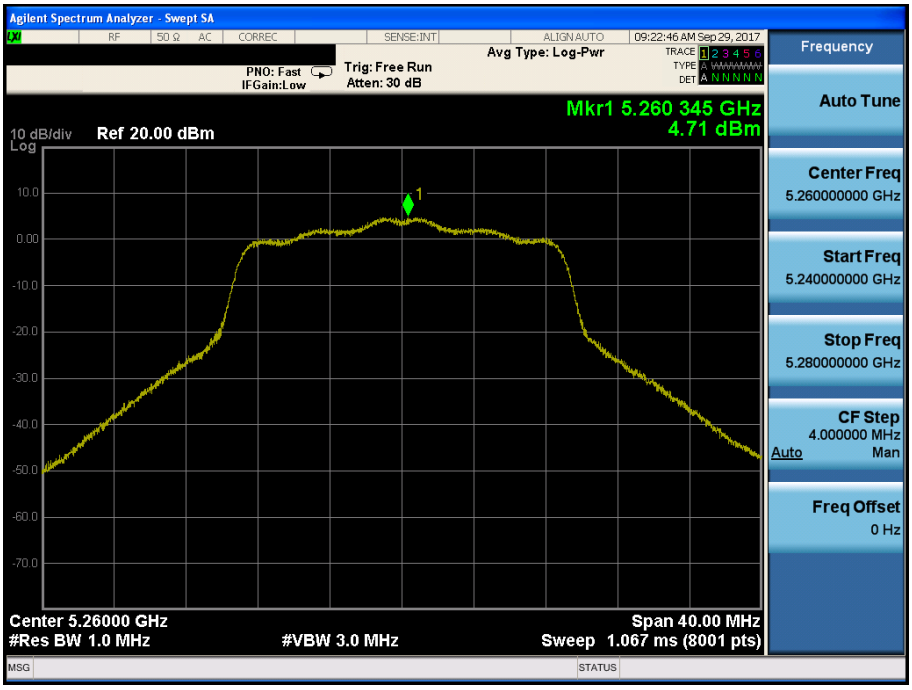

**Maximum Power Spectral Density** Test Mode: 802.11n HT20 & ANT 1 & Ch.40



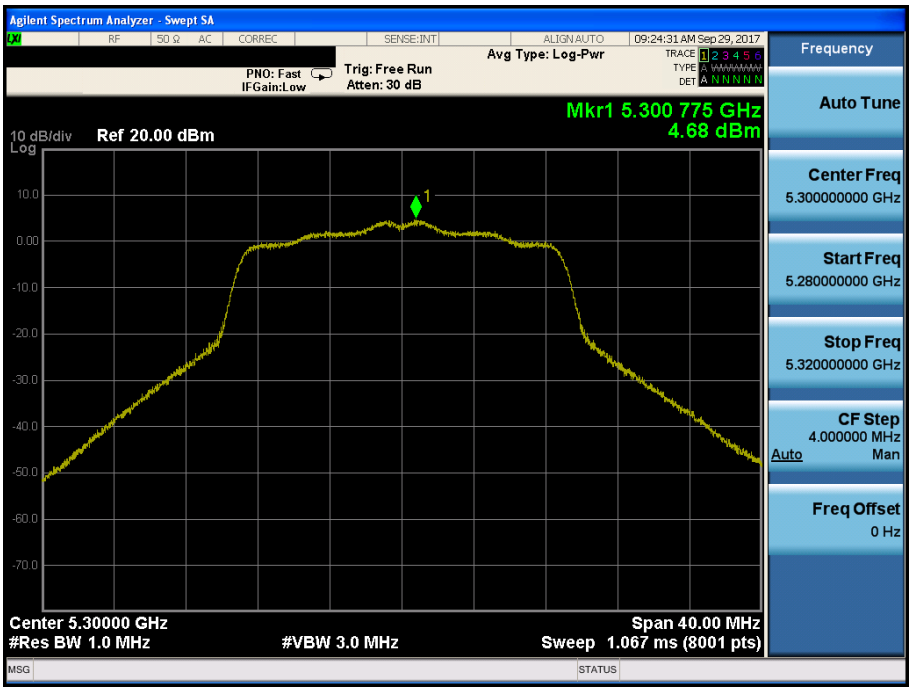
**Maximum Power Spectral Density** Test Mode: 802.11n HT20 & ANT 1 & Ch.48



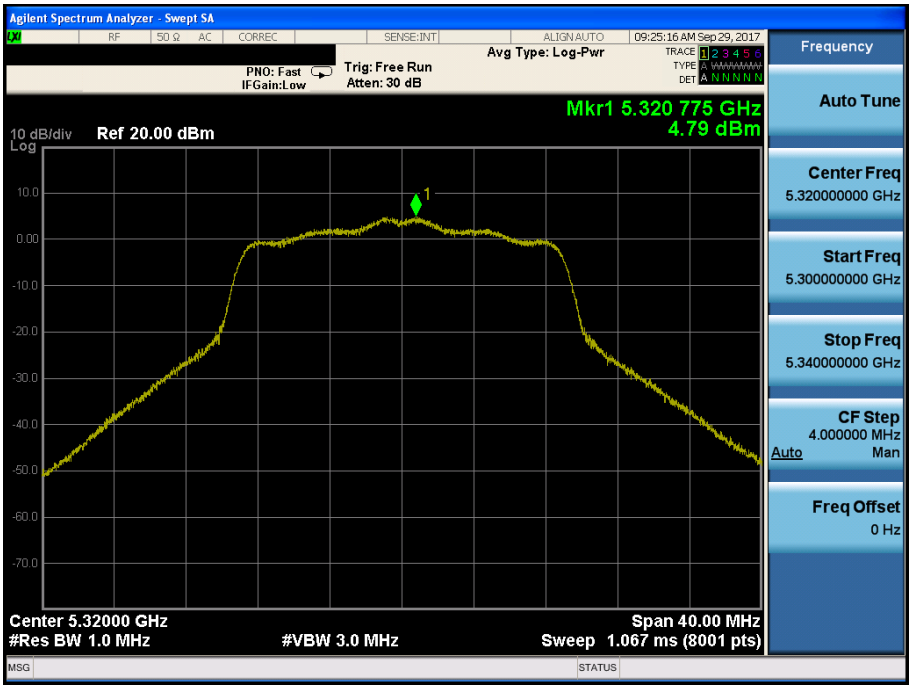
**Maximum Power Spectral Density** Test Mode: 802.11n HT20 & ANT 1 & Ch.52



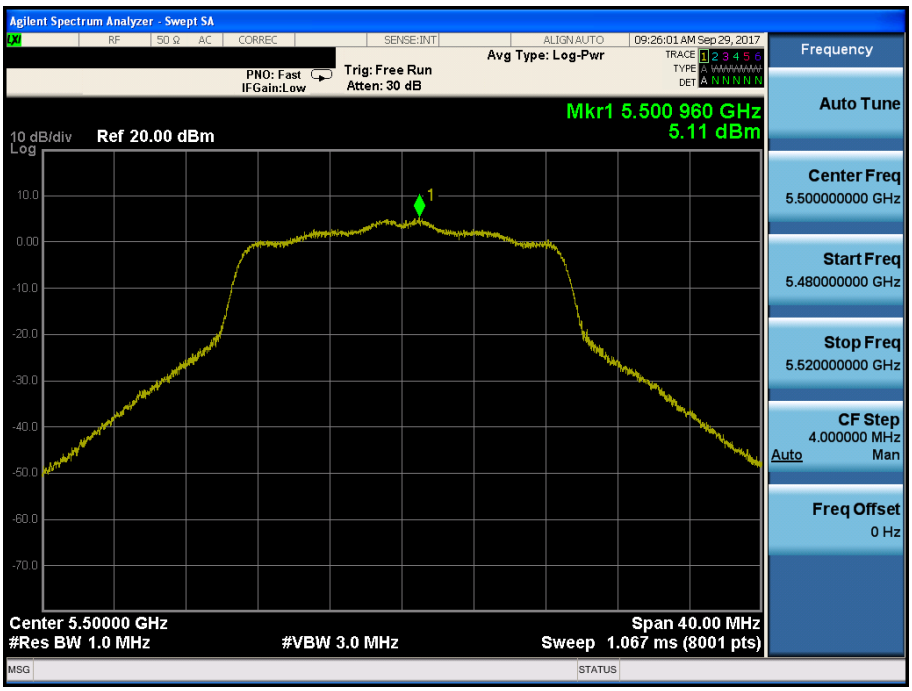

**Maximum Power Spectral Density** Test Mode: 802.11n HT20 & ANT 1 & Ch.60



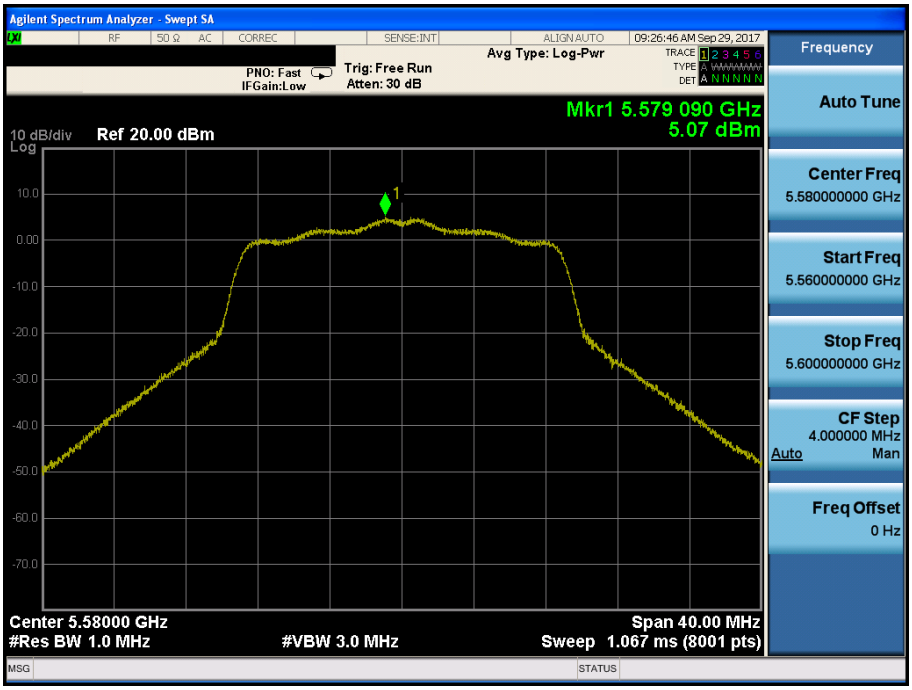
**Maximum Power Spectral Density** Test Mode: 802.11n HT20 & ANT 1 & Ch.64



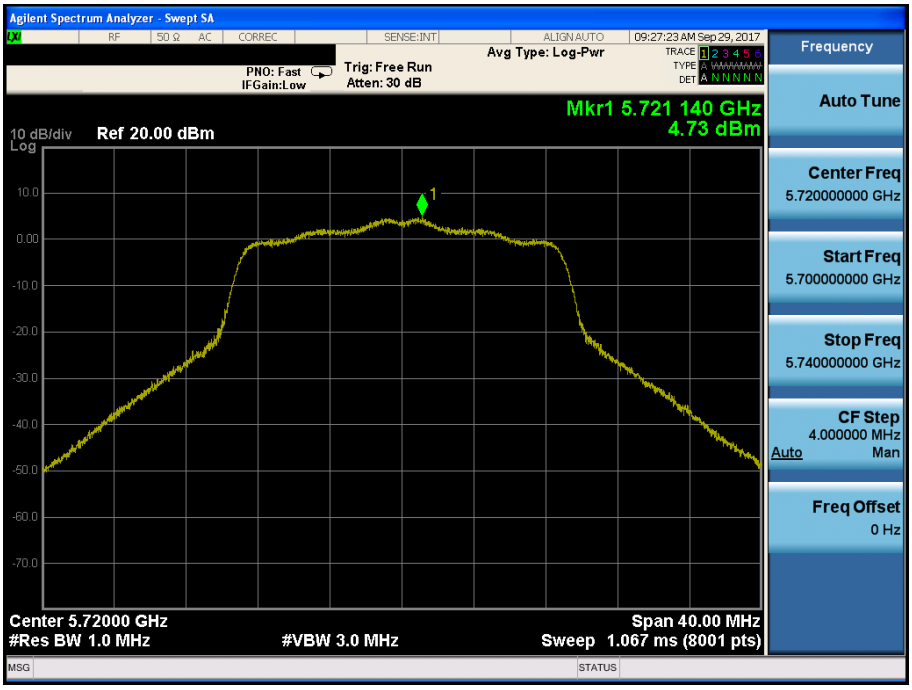
**Maximum Power Spectral Density** Test Mode: 802.11n HT20 & ANT 1 & Ch.100



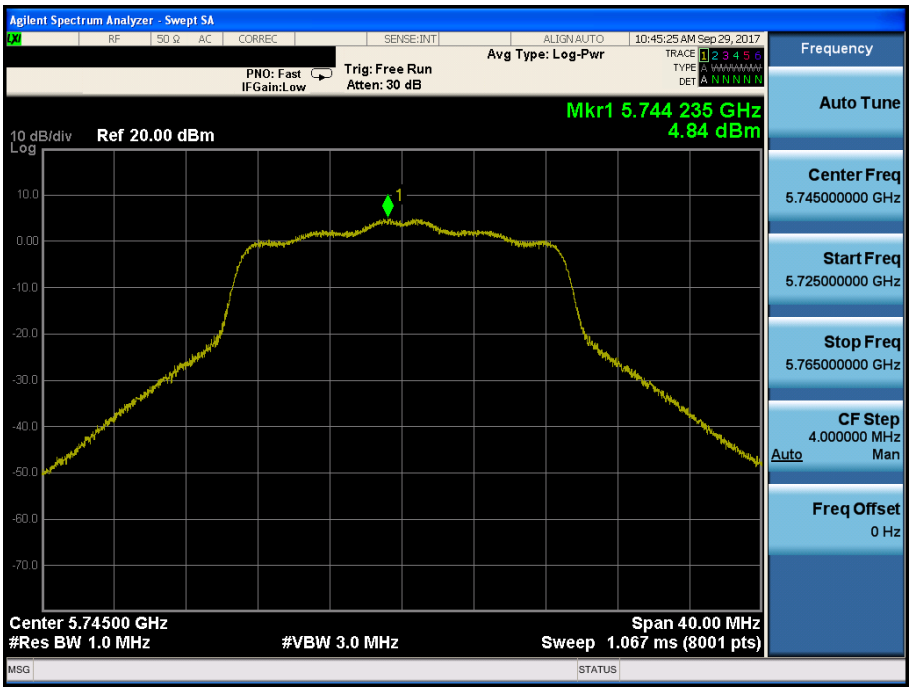

**Maximum Power Spectral Density** Test Mode: 802.11n HT20 & ANT 1 & Ch.116



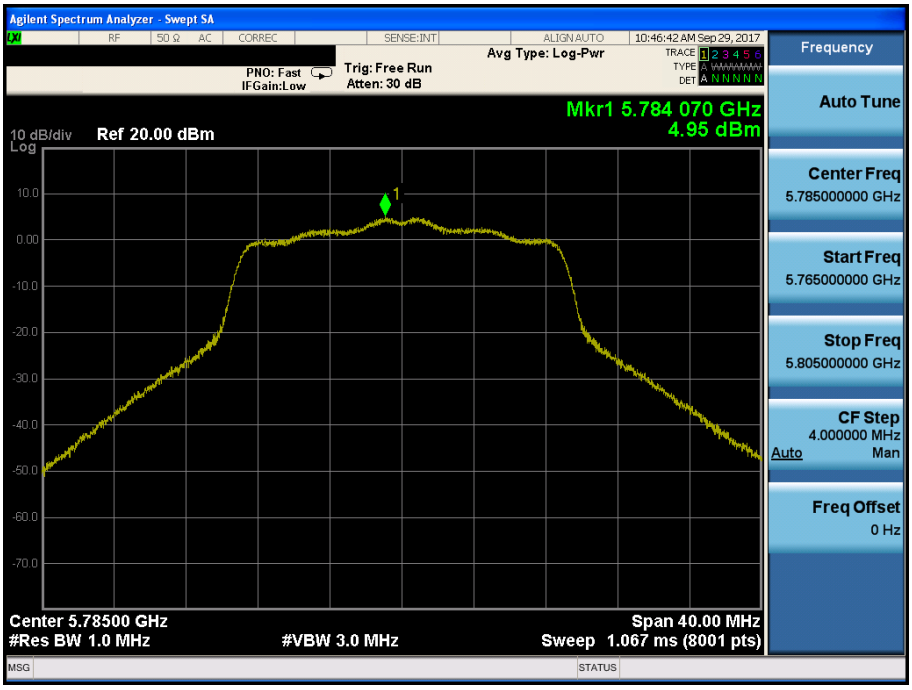
**Maximum Power Spectral Density** Test Mode: 802.11n HT20 & ANT 1 & Ch.144



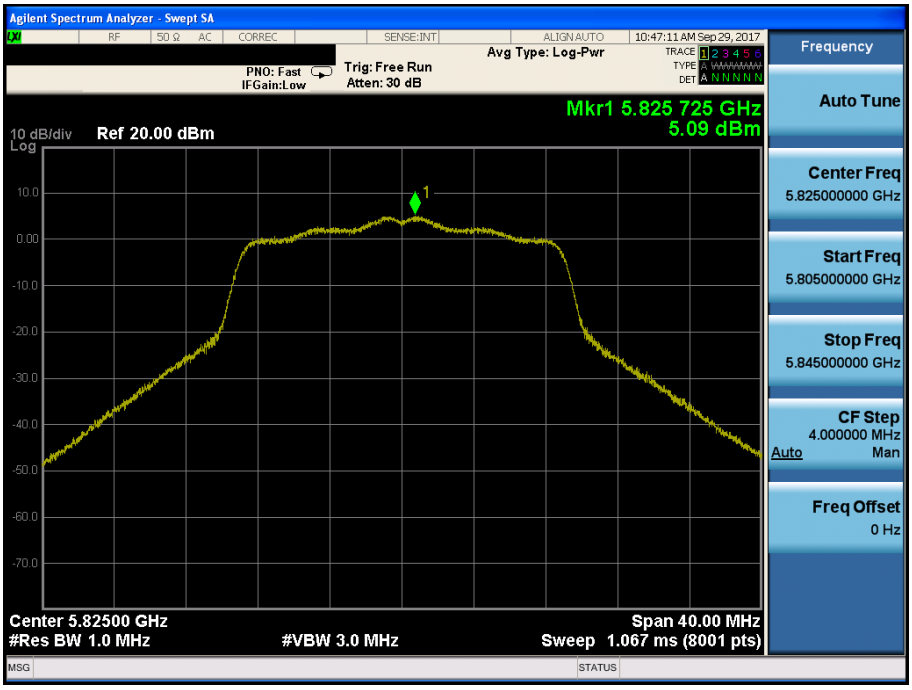
**Maximum Power Spectral Density** Test Mode: 802.11n HT20 & ANT 1 & Ch.149



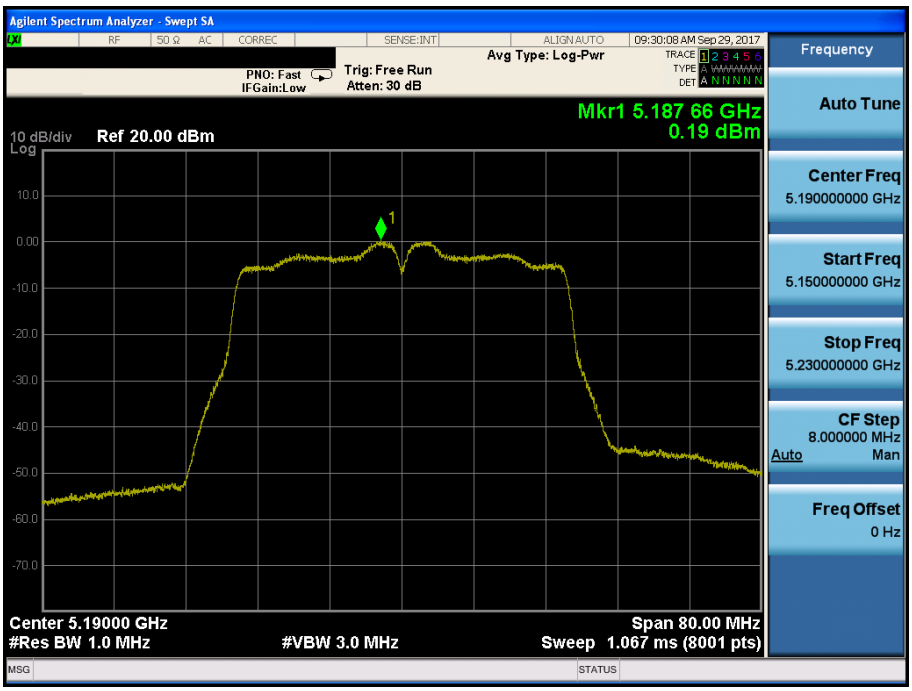

**Maximum Power Spectral Density** Test Mode: 802.11n HT20 & ANT 1 & Ch.157



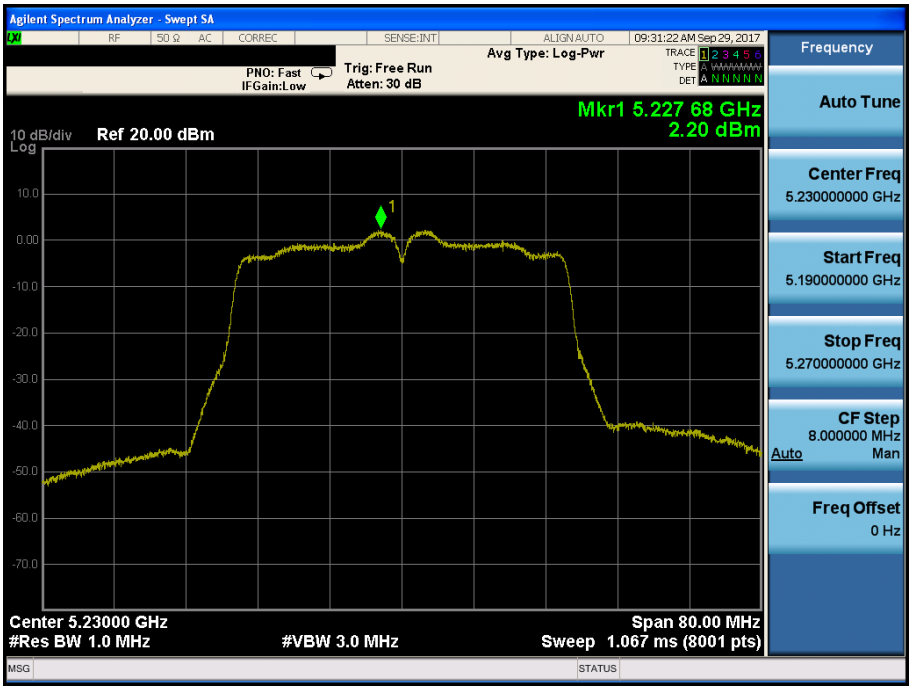
**Maximum Power Spectral Density** Test Mode: 802.11n HT20 & ANT 1 & Ch.165



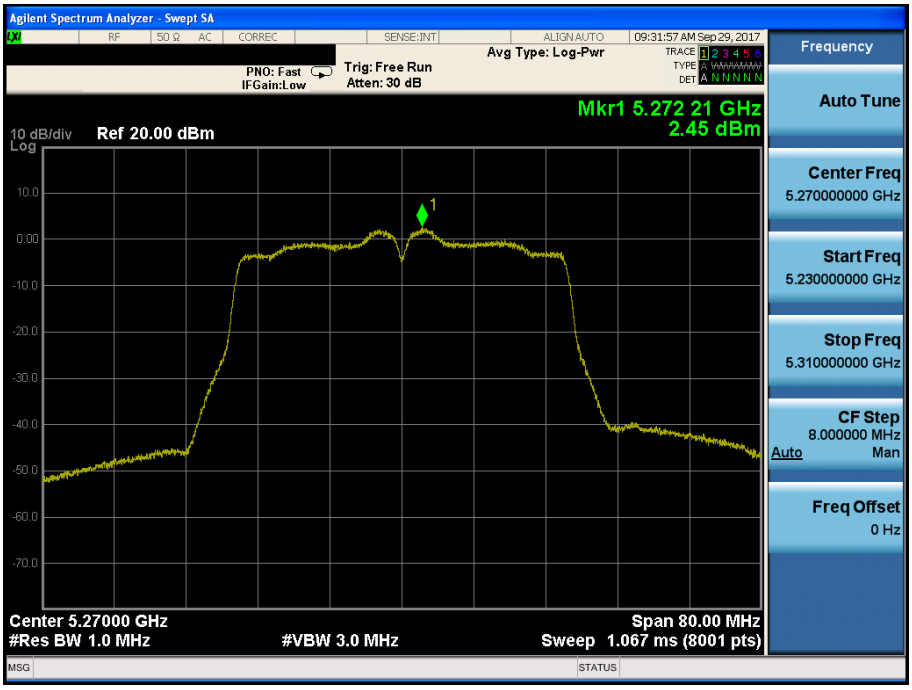
**Maximum Power Spectral Density** Test Mode: 802.11n HT40 & ANT 1 & Ch.38



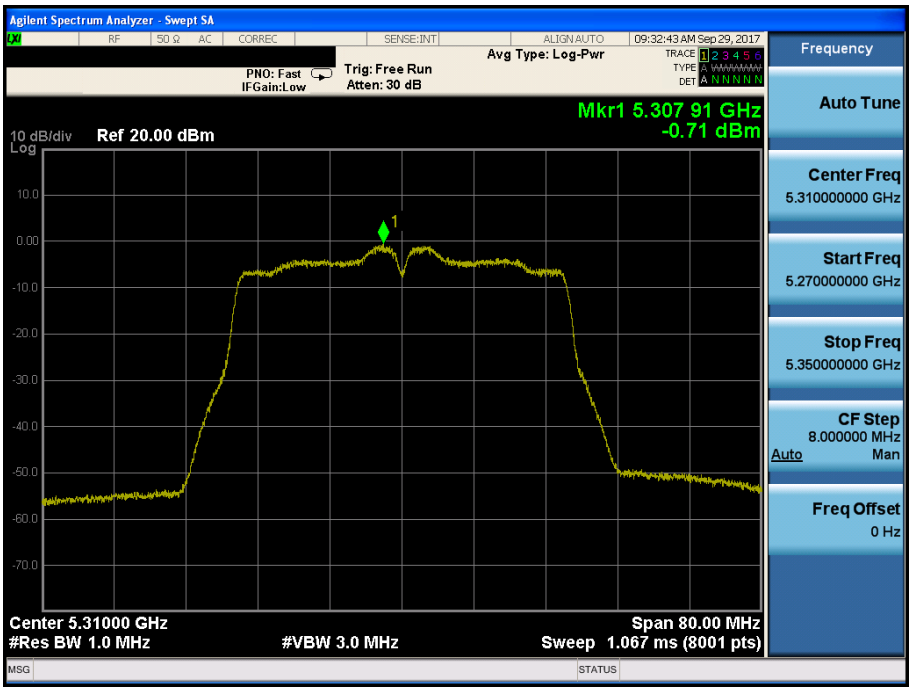

**Maximum Power Spectral Density** Test Mode: 802.11n HT40 & ANT 1 & Ch.46



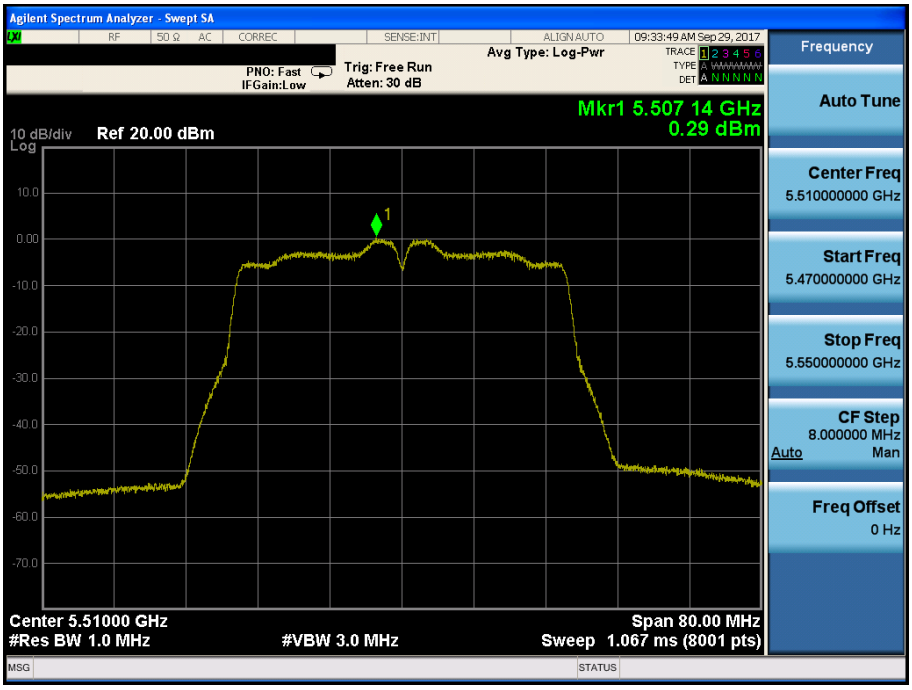
**Maximum Power Spectral Density** Test Mode: 802.11n HT40 & ANT 1 & Ch.54



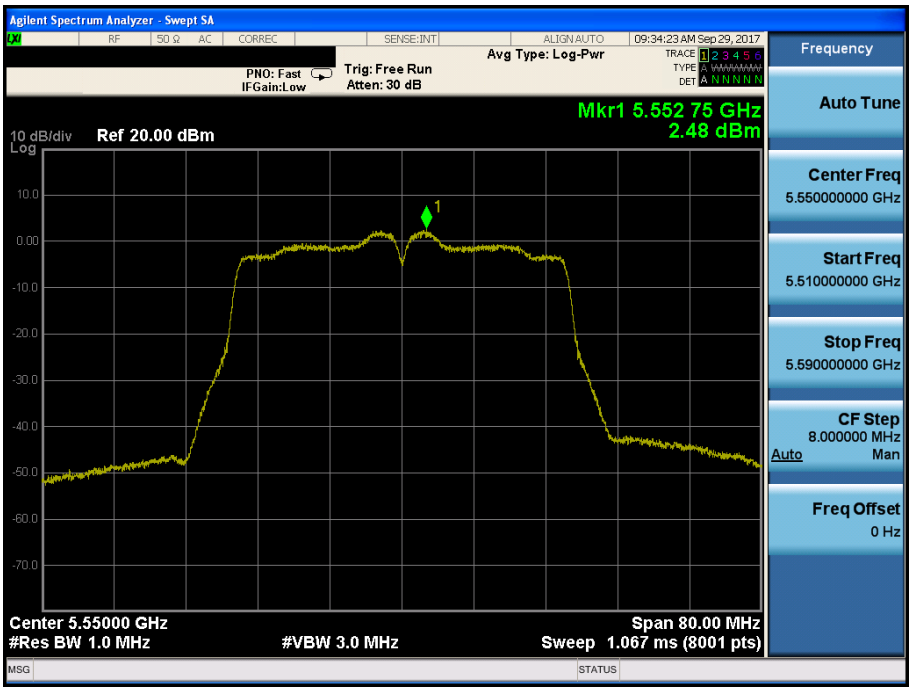

**Maximum Power Spectral Density** Test Mode: 802.11n HT40 & ANT 1 & Ch.62



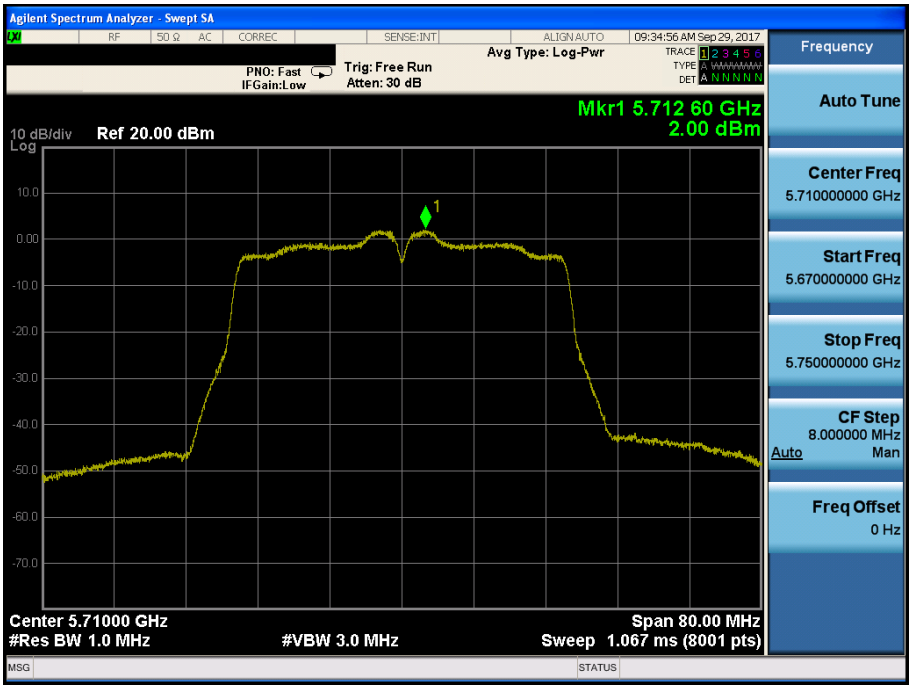
**Maximum Power Spectral Density** Test Mode: 802.11n HT40 & ANT 1 & Ch.102



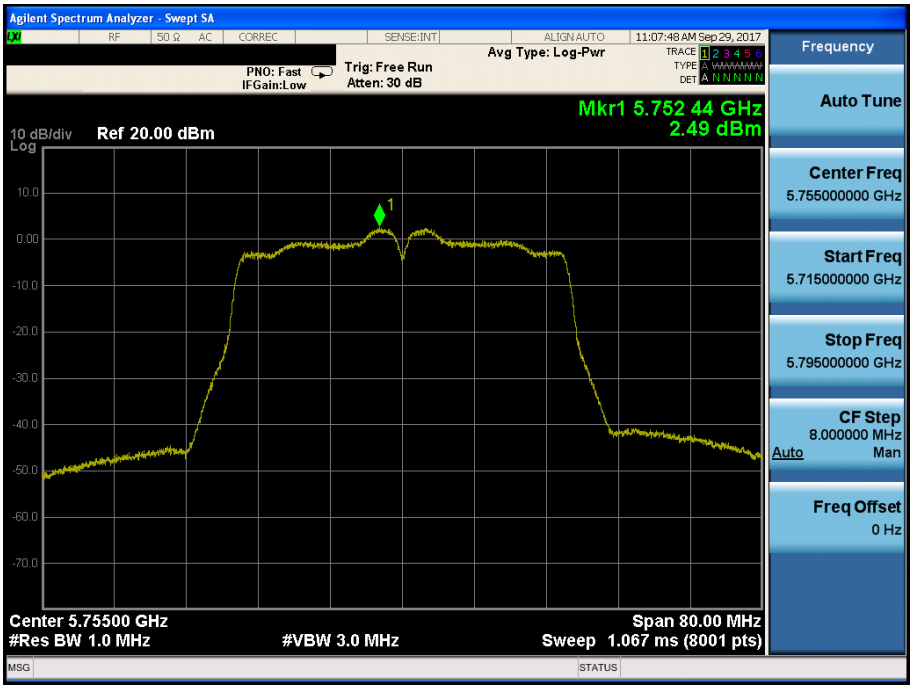

**Maximum Power Spectral Density** Test Mode: 802.11n HT40 & ANT 1 & Ch.110



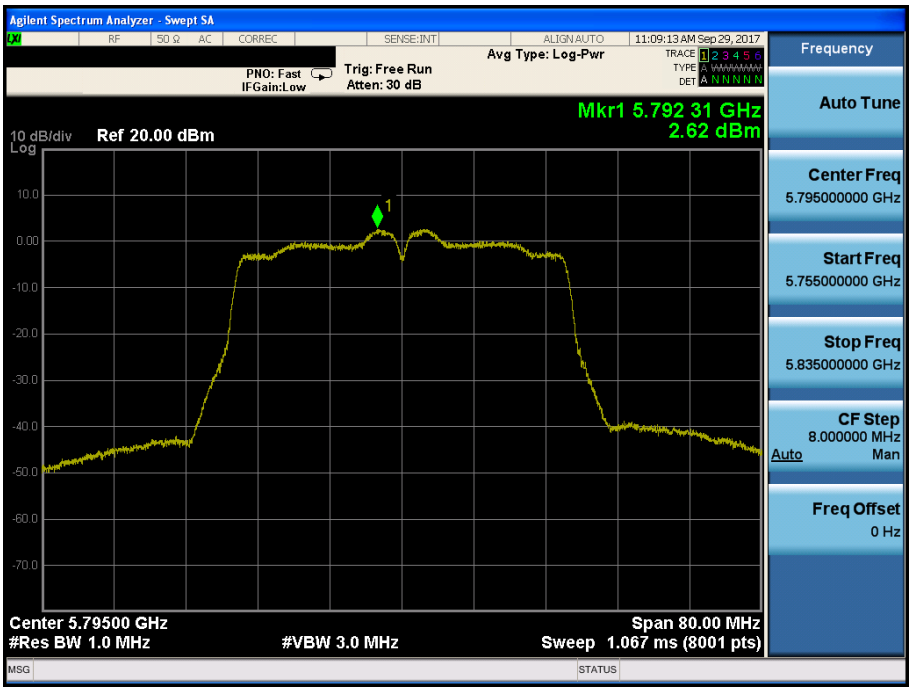
**Maximum Power Spectral Density** Test Mode: 802.11n HT40 & ANT 1 & Ch.142



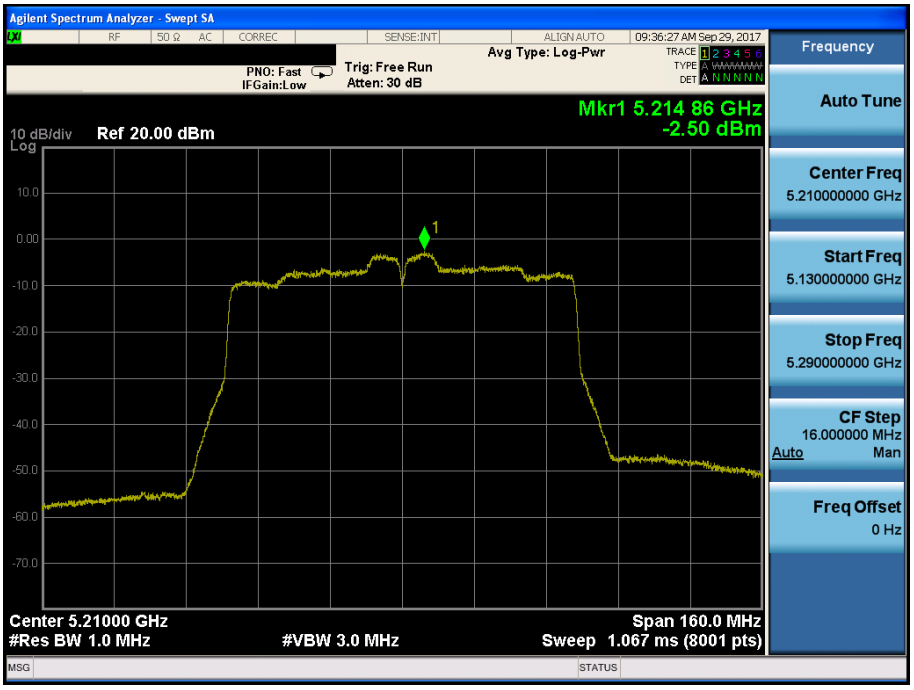
**Maximum Power Spectral Density** Test Mode: 802.11n HT40 & ANT 1 & Ch.151



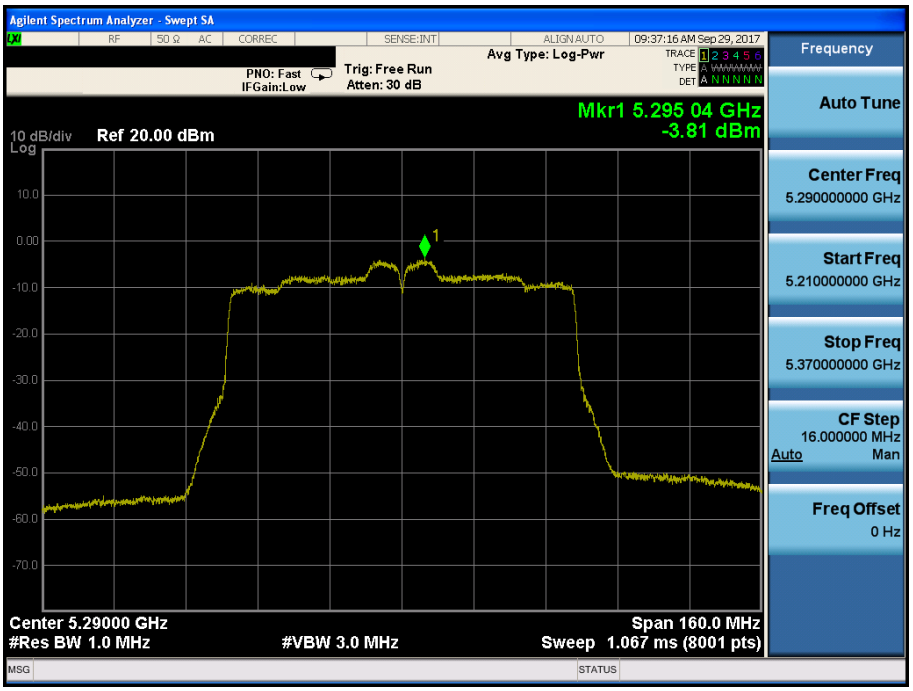

**Maximum Power Spectral Density** Test Mode: 802.11n HT40 & ANT 1 & Ch.159



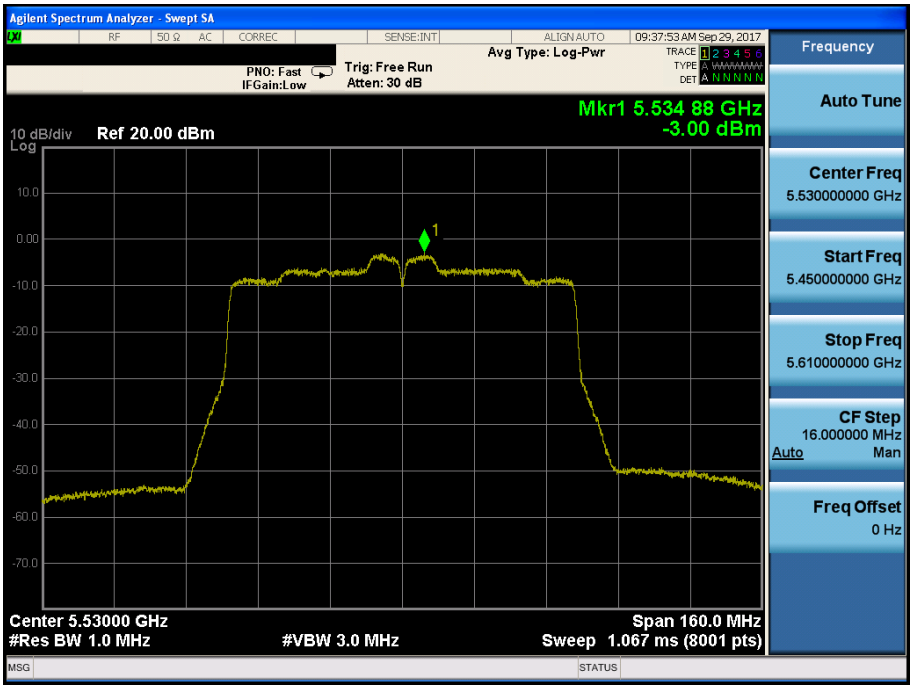
**Maximum Power Spectral Density** Test Mode: 802.11ac VHT80 & ANT 1 & Ch.42



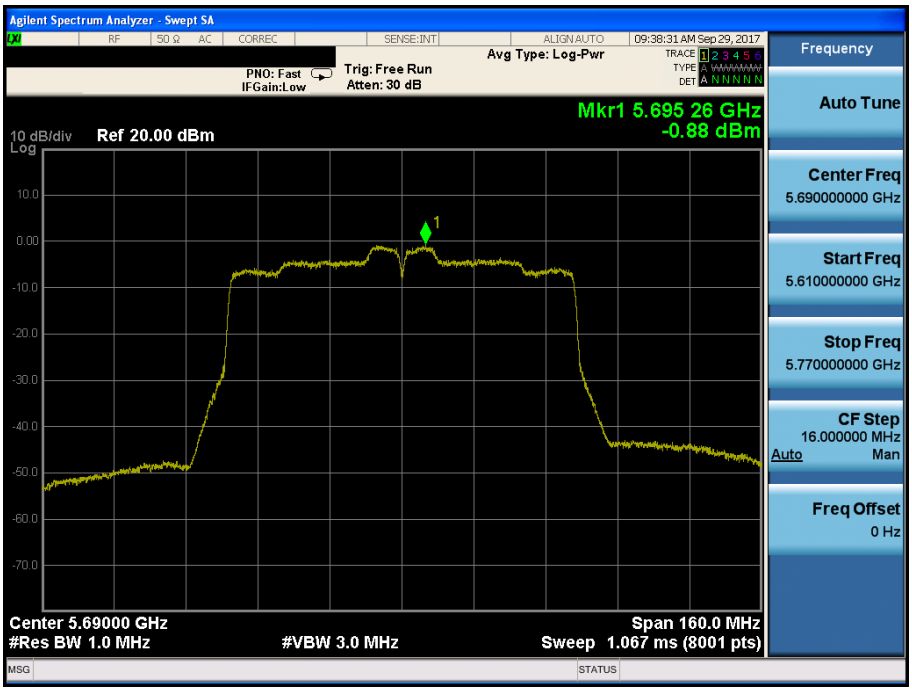

**Maximum Power Spectral Density** Test Mode: 802.11ac VHT80 & ANT 1 & Ch.58



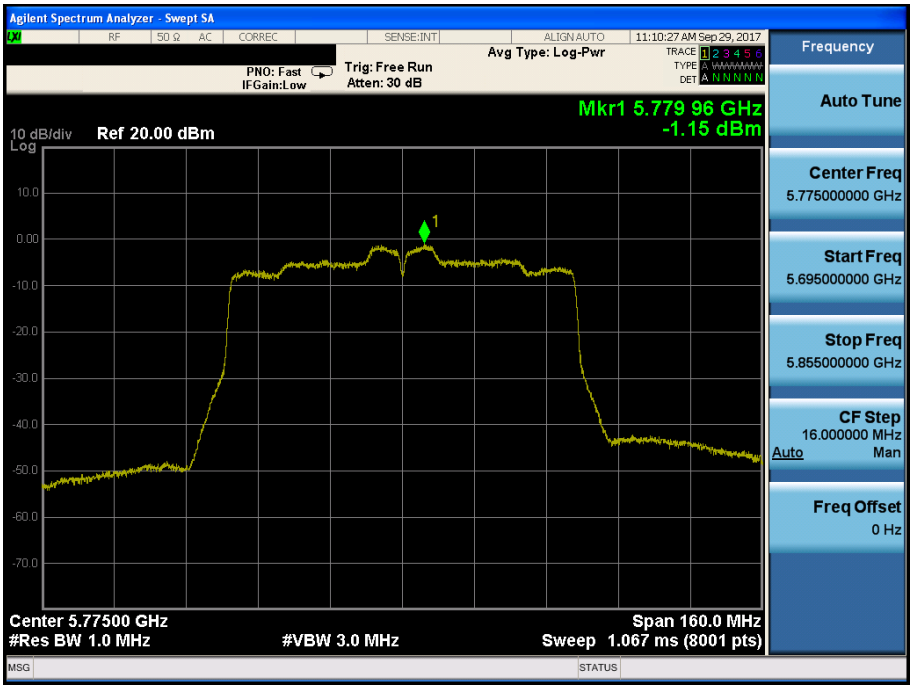
**Maximum Power Spectral Density** Test Mode: 802.11ac VHT80 & ANT 1 & Ch.106




**Maximum Power Spectral Density** Test Mode: 802.11ac VHT80 & ANT 1 & Ch.138

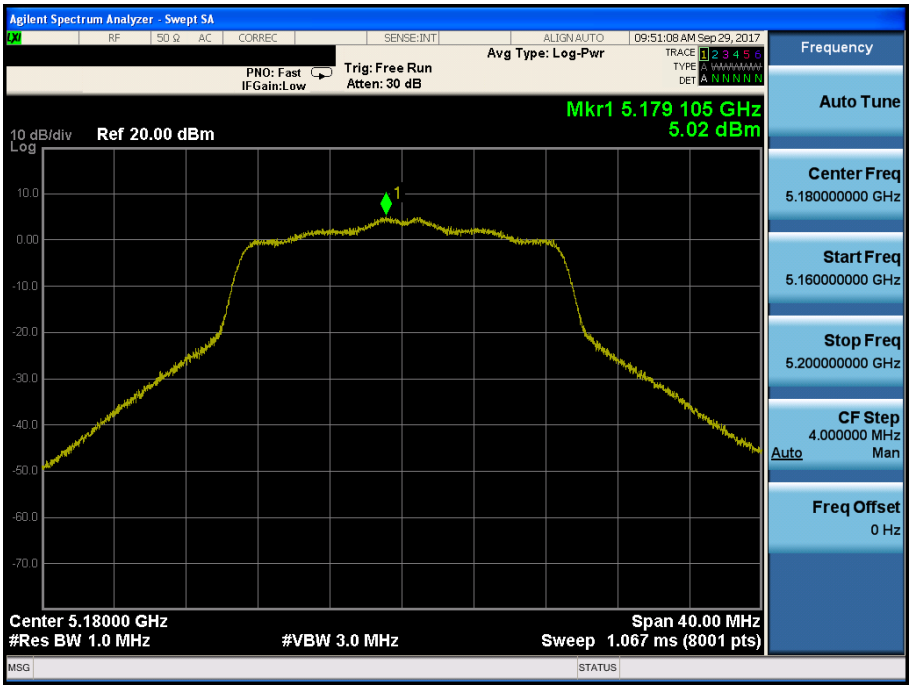


**Maximum Power Spectral Density** Test Mode: 802.11ac VHT80 & ANT 1 & Ch.155

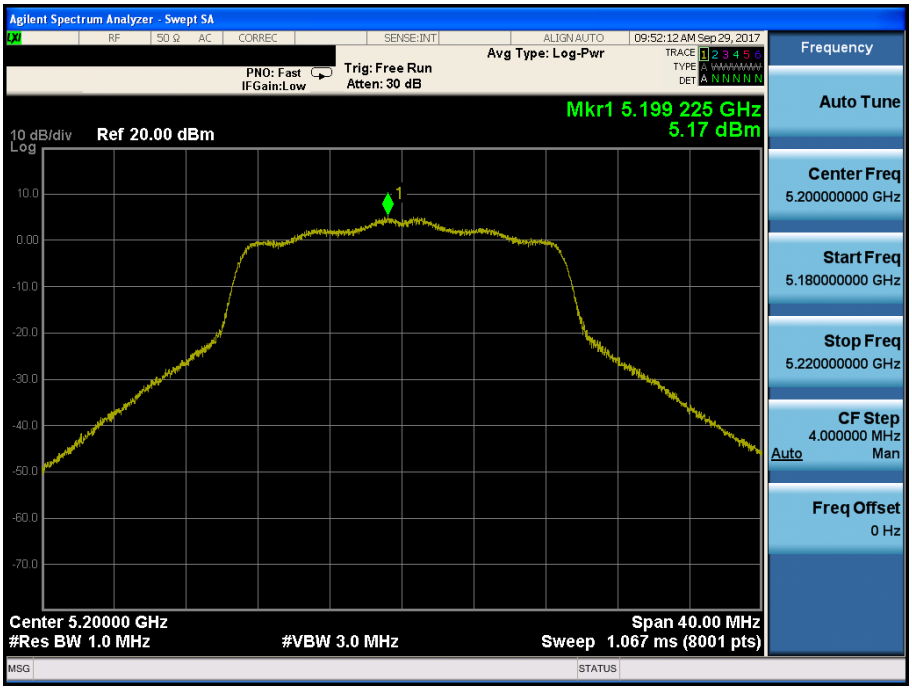


**- Power spectral density: SDM-Antenna 2**

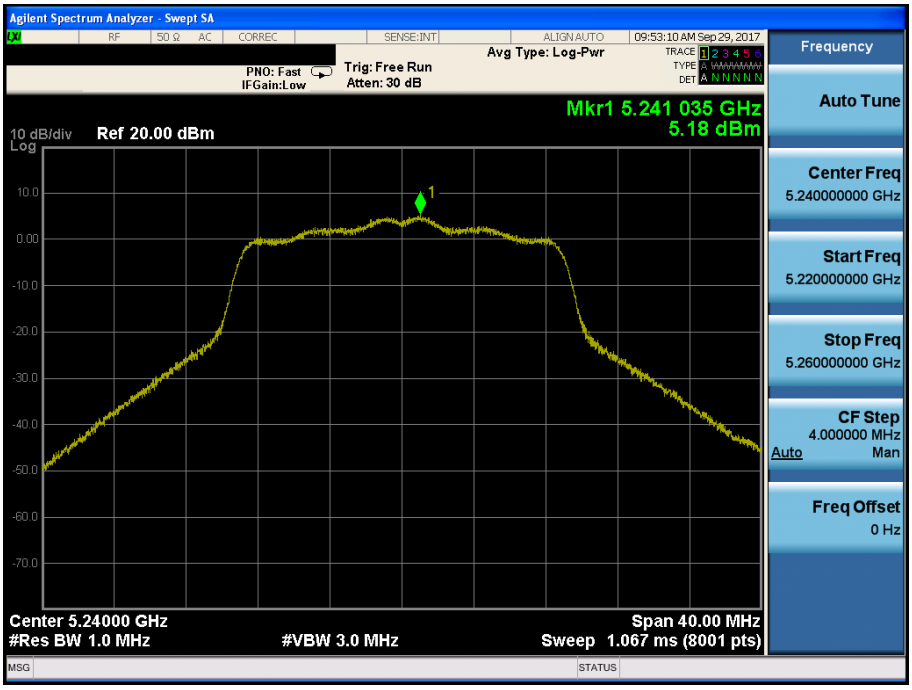
**Maximum Power Spectral Density** Test Mode: 802.11n HT20 & ANT 2 & Ch.36



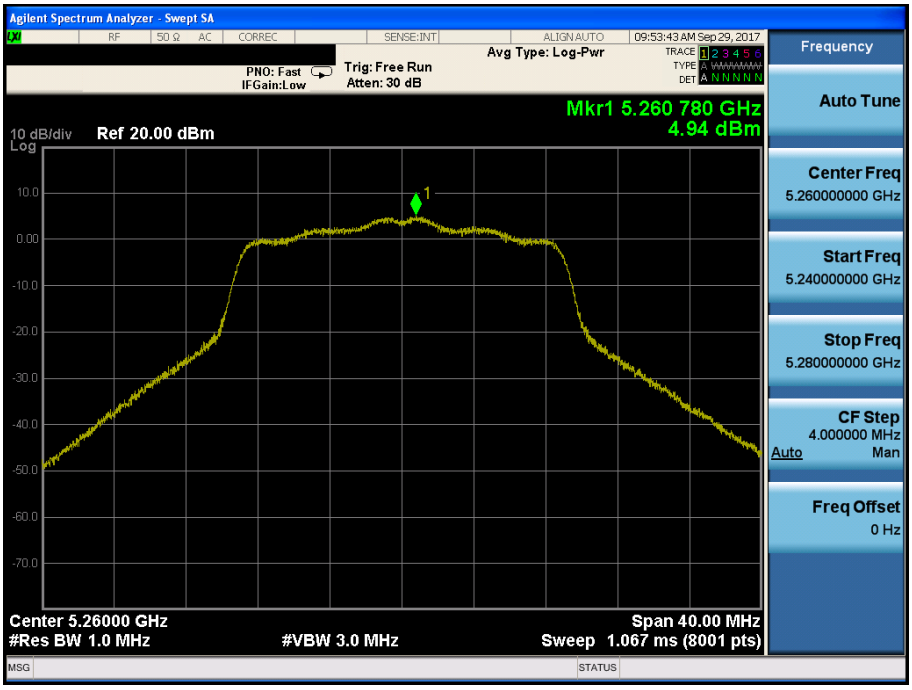

**Maximum Power Spectral Density** Test Mode: 802.11n HT20 & ANT 2 & Ch.40



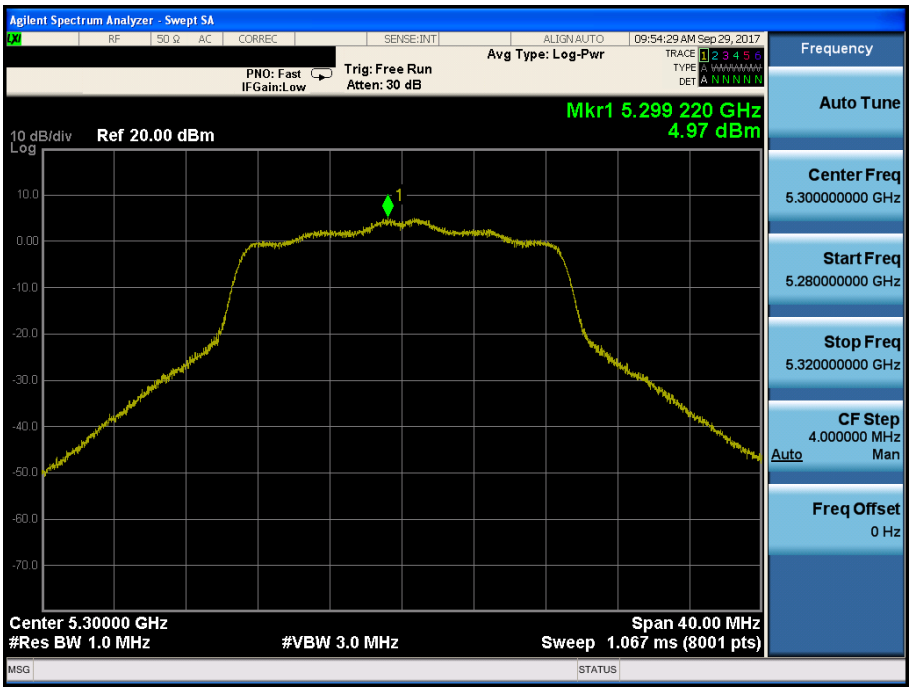
**Maximum Power Spectral Density** Test Mode: 802.11n HT20 & ANT 2 & Ch.48



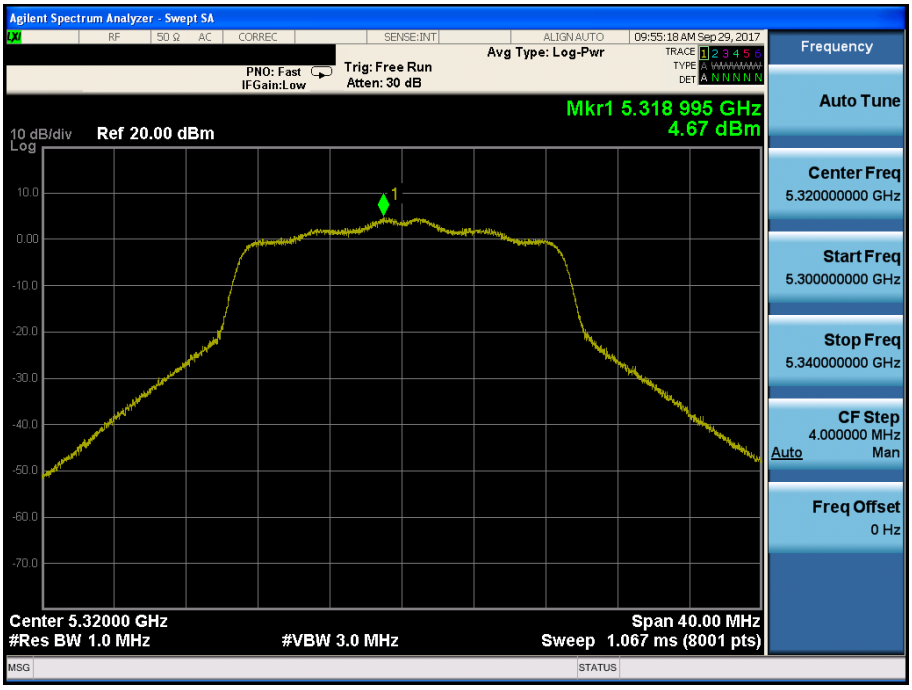
**Maximum Power Spectral Density** Test Mode: 802.11n HT20 & ANT 2 & Ch.52



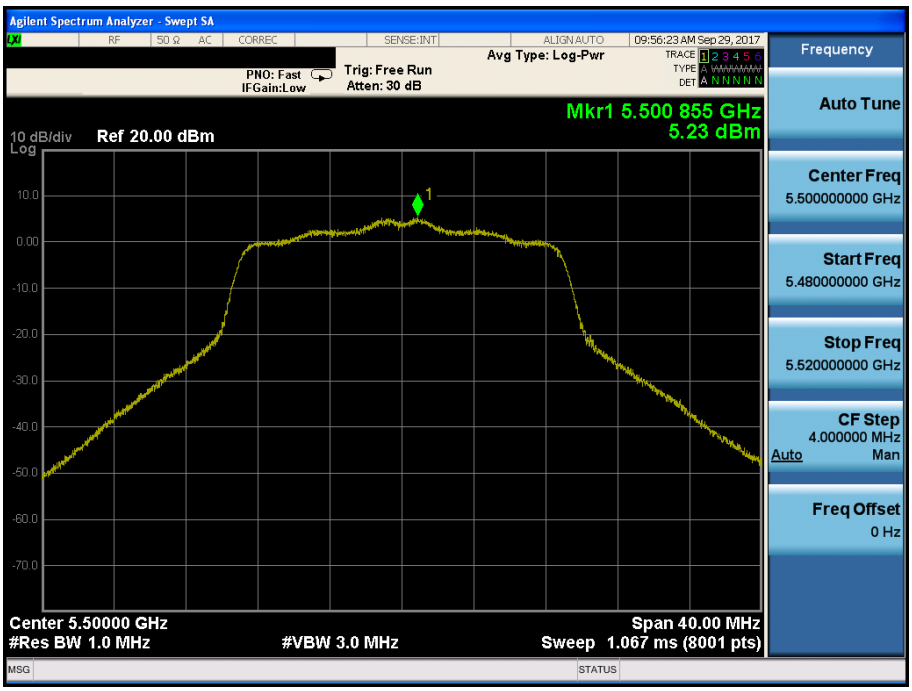

**Maximum Power Spectral Density** Test Mode: 802.11n HT20 & ANT 2 & Ch.60



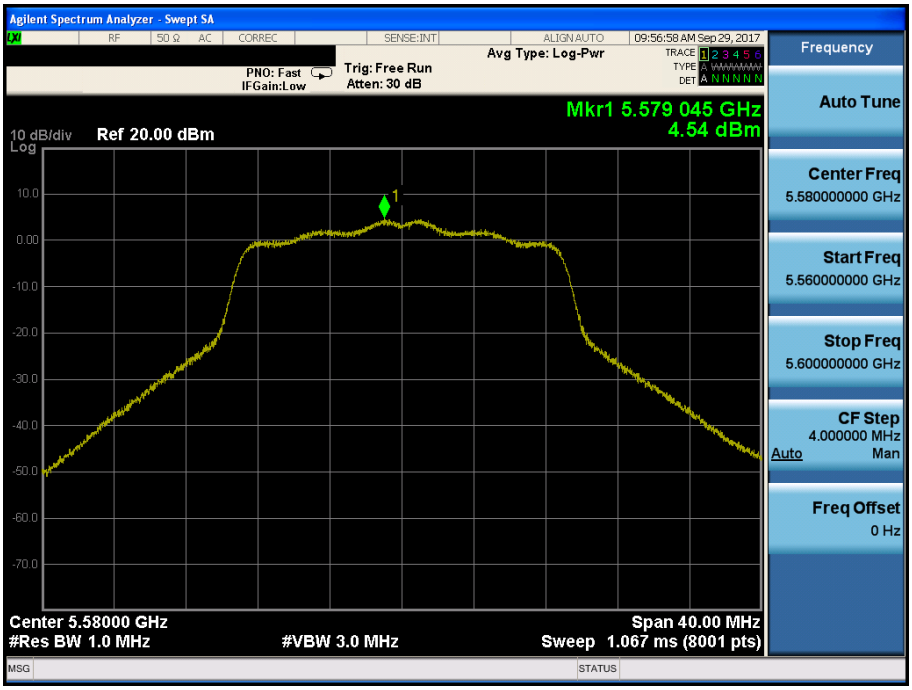
**Maximum Power Spectral Density** Test Mode: 802.11n HT20 & ANT 2 & Ch.64



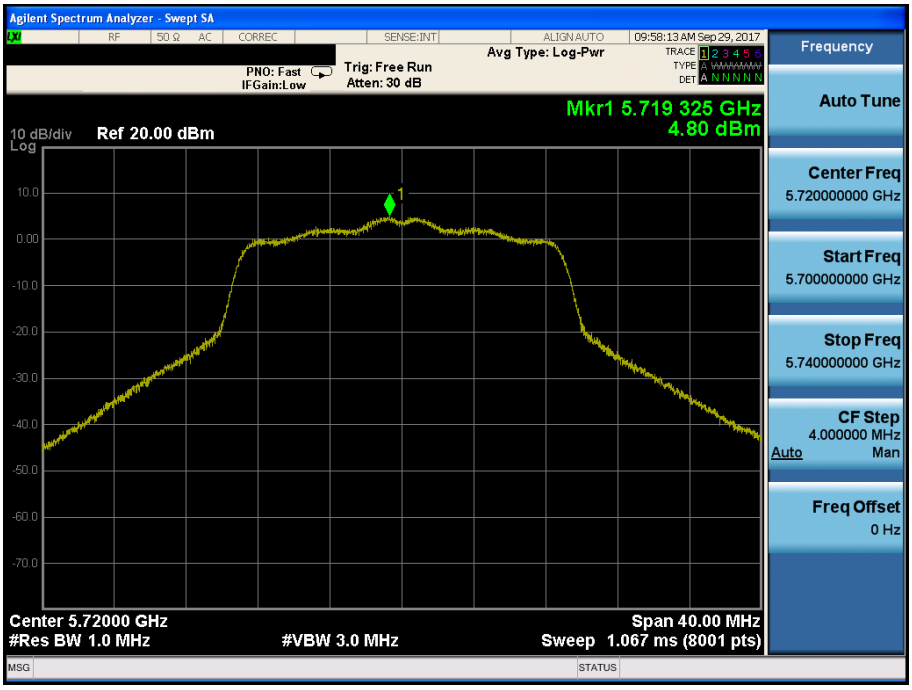
**Maximum Power Spectral Density** Test Mode: 802.11n HT20 & ANT 2 & Ch.100



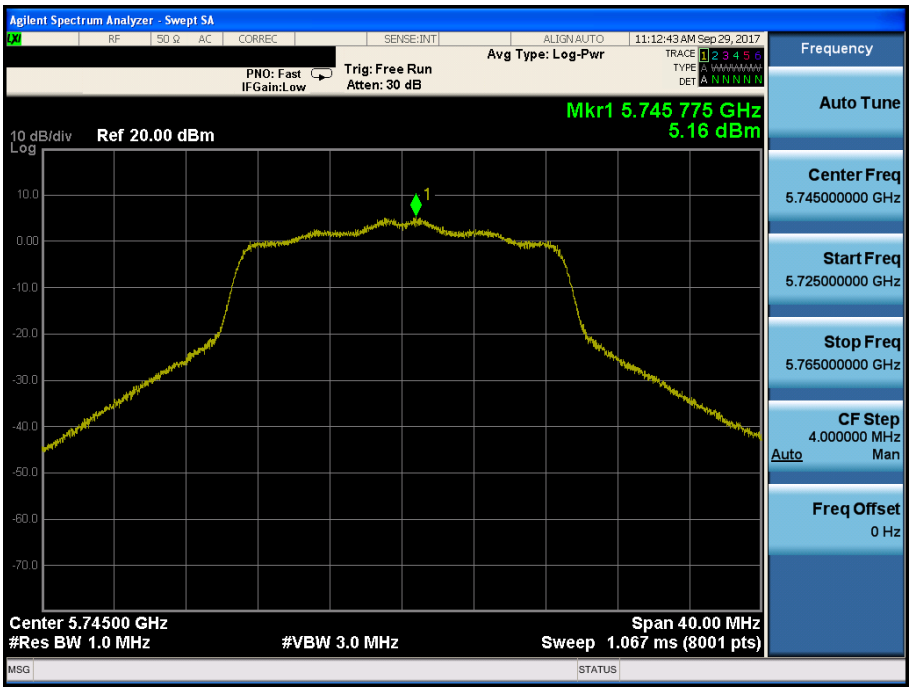

**Maximum Power Spectral Density** Test Mode: 802.11n HT20 & ANT 2 & Ch.116



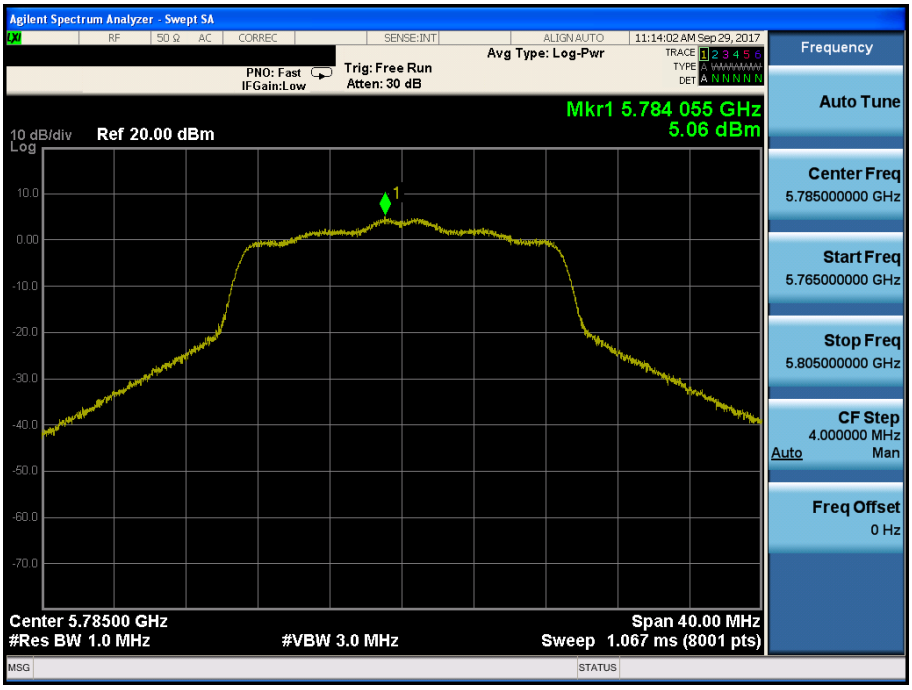
**Maximum Power Spectral Density** Test Mode: 802.11n HT20 & ANT 2 & Ch.144



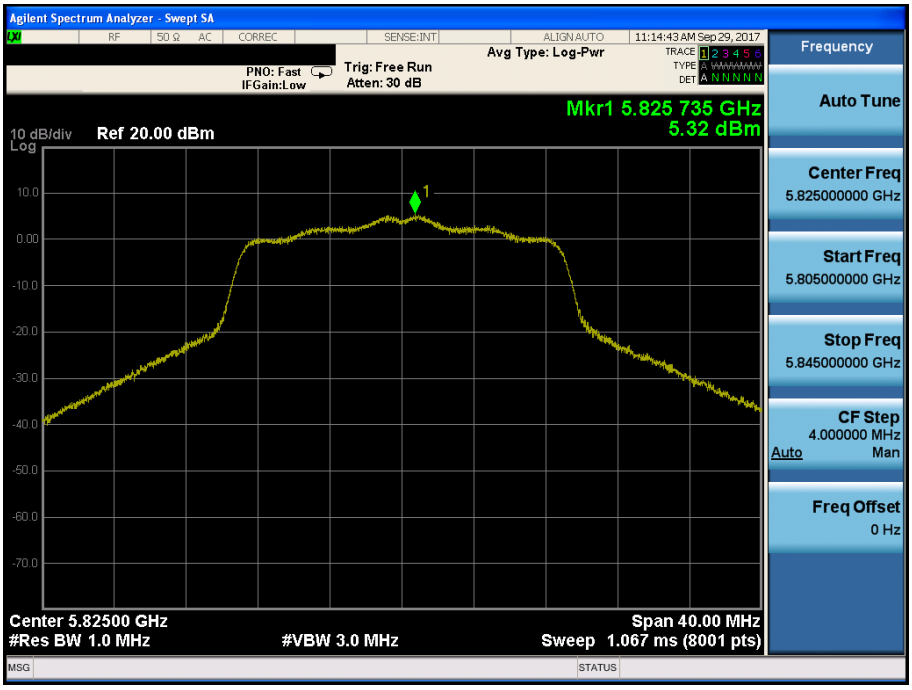
**Maximum Power Spectral Density** Test Mode: 802.11n HT20 & ANT 2 & Ch.149



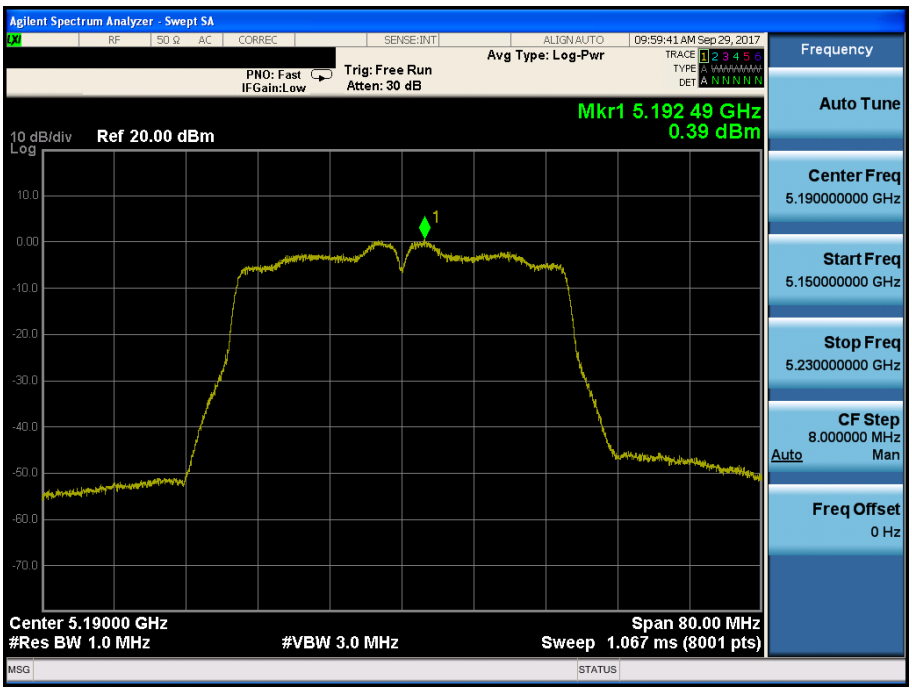

**Maximum Power Spectral Density** Test Mode: 802.11n HT20 & ANT 2 & Ch.157



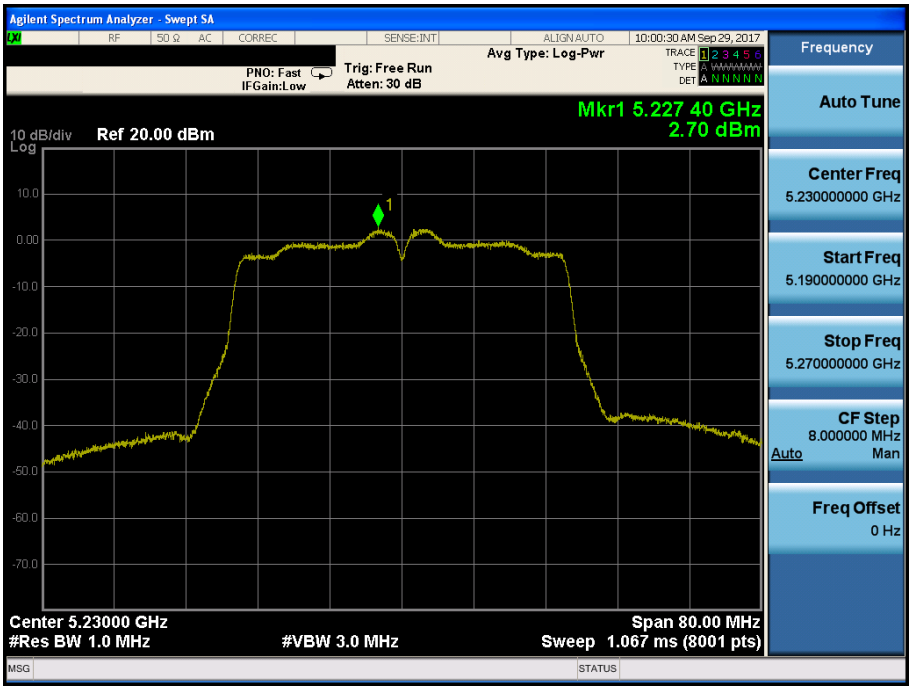
**Maximum Power Spectral Density** Test Mode: 802.11n HT20 & ANT 2 & Ch.165



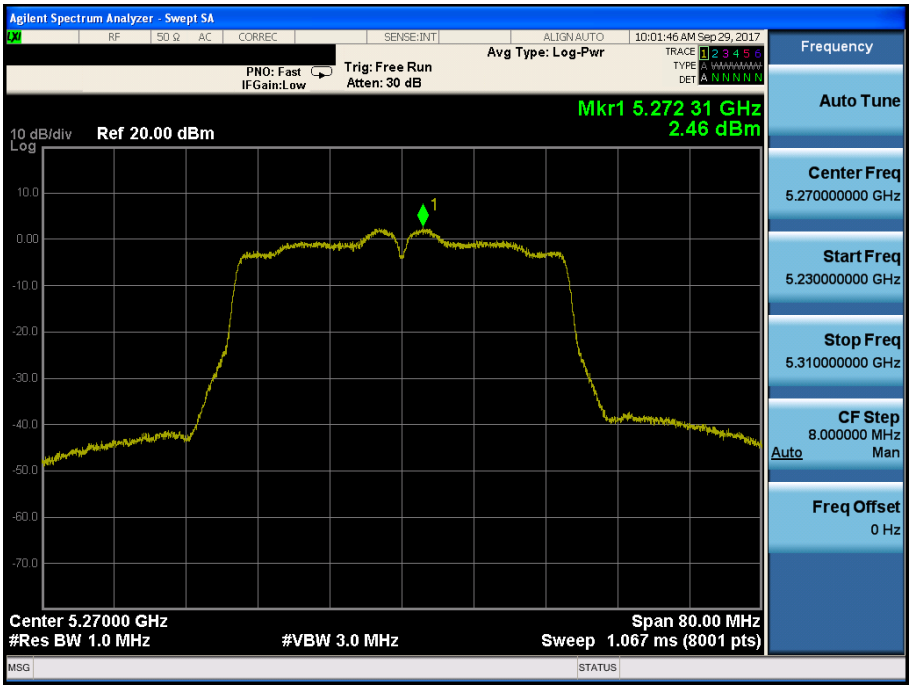
**Maximum Power Spectral Density** Test Mode: 802.11n HT40 & ANT 2 & Ch.38



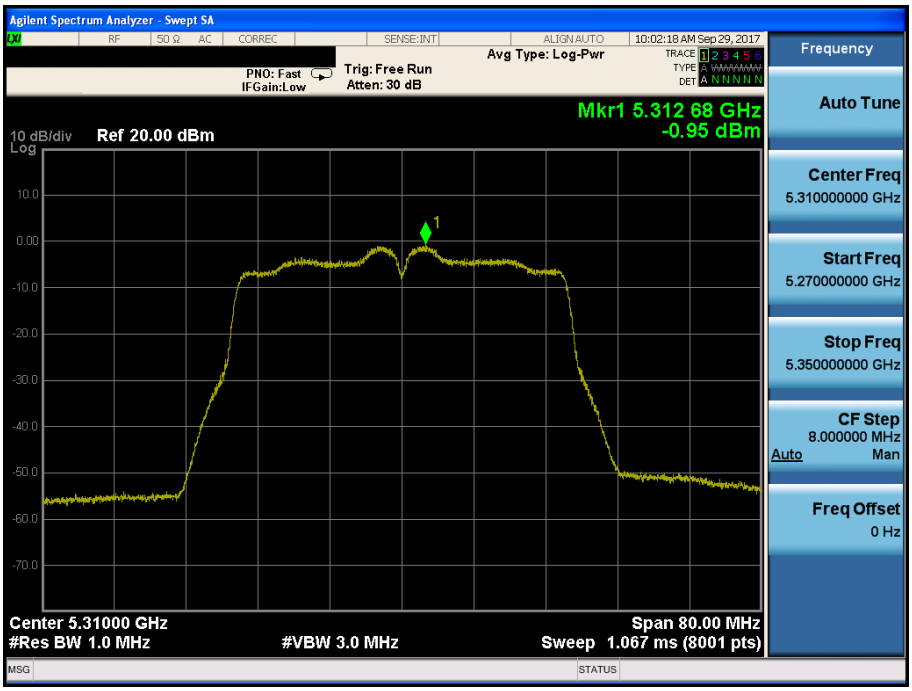

**Maximum Power Spectral Density** Test Mode: 802.11n HT40 & ANT 2 & Ch.46



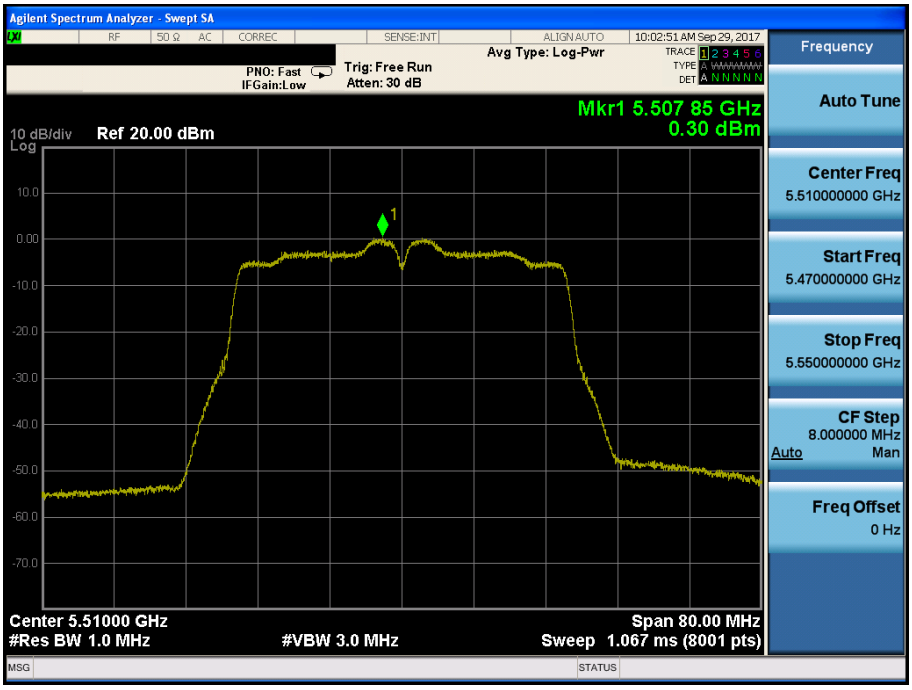
**Maximum Power Spectral Density** Test Mode: 802.11n HT40 & ANT 2 & Ch.54



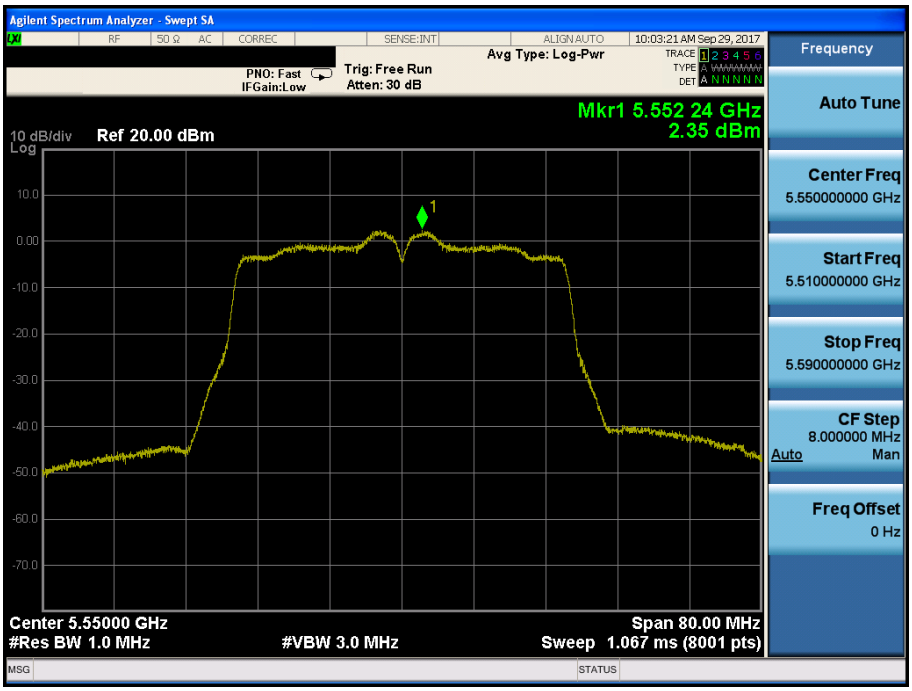

**Maximum Power Spectral Density** Test Mode: 802.11n HT40 & ANT 2 & Ch.62



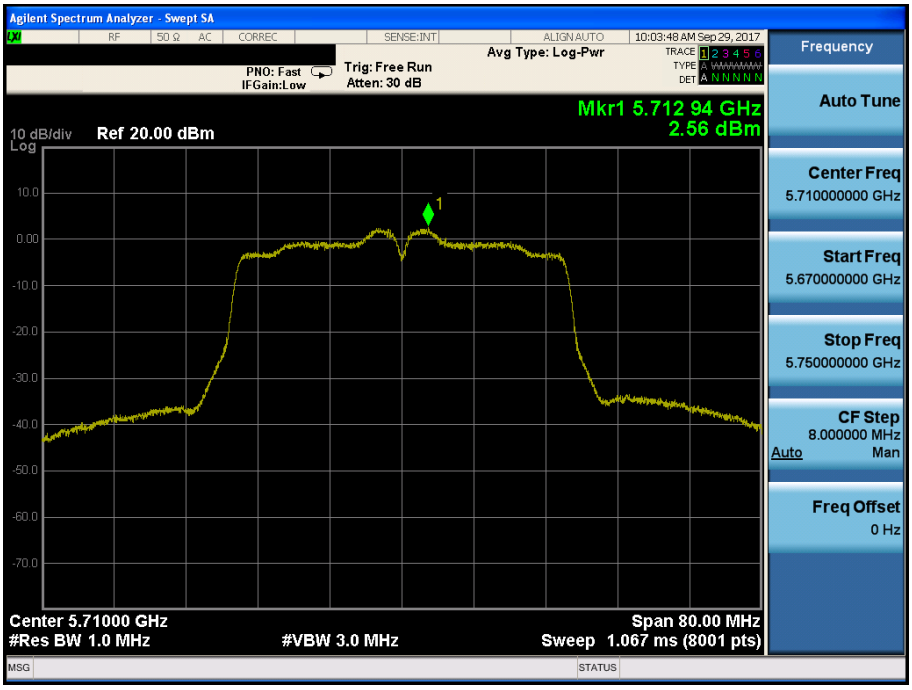
**Maximum Power Spectral Density** Test Mode: 802.11n HT40 & ANT 2 & Ch.102



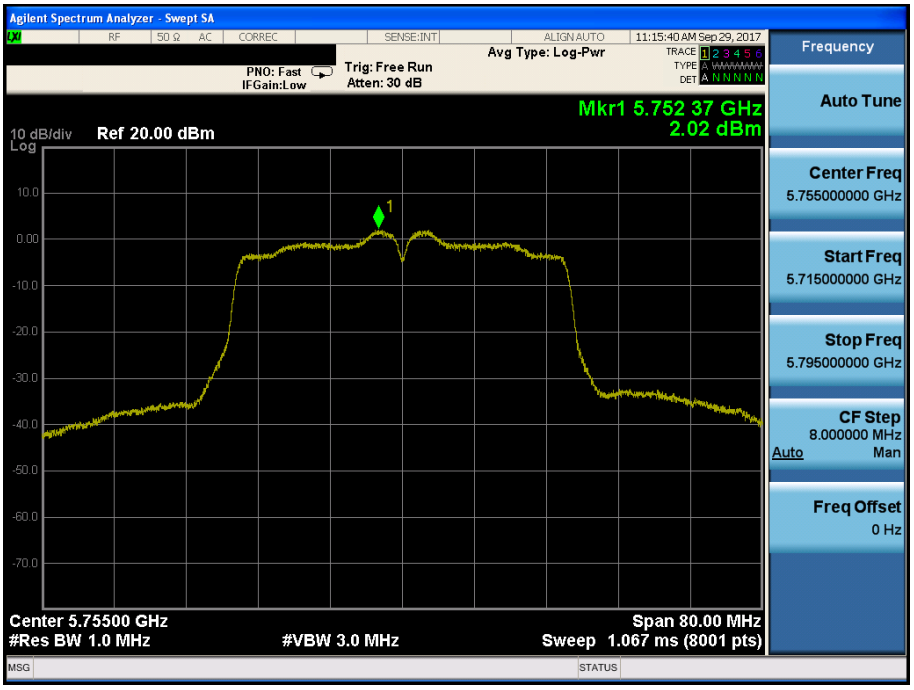

**Maximum Power Spectral Density** Test Mode: 802.11n HT40 & ANT 2 & Ch.110



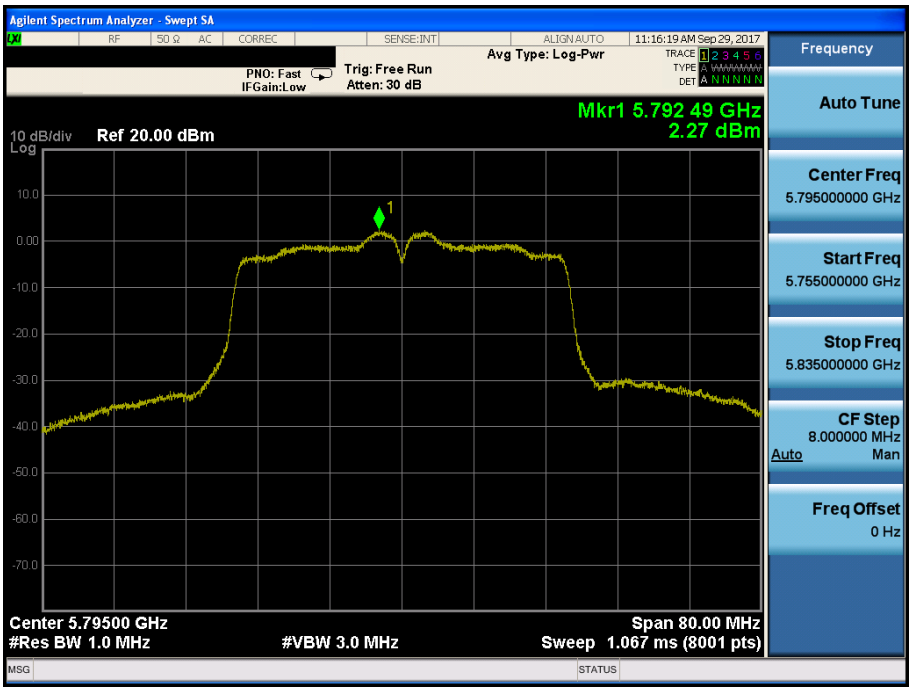
**Maximum Power Spectral Density** Test Mode: 802.11n HT40 & ANT 2 & Ch.142



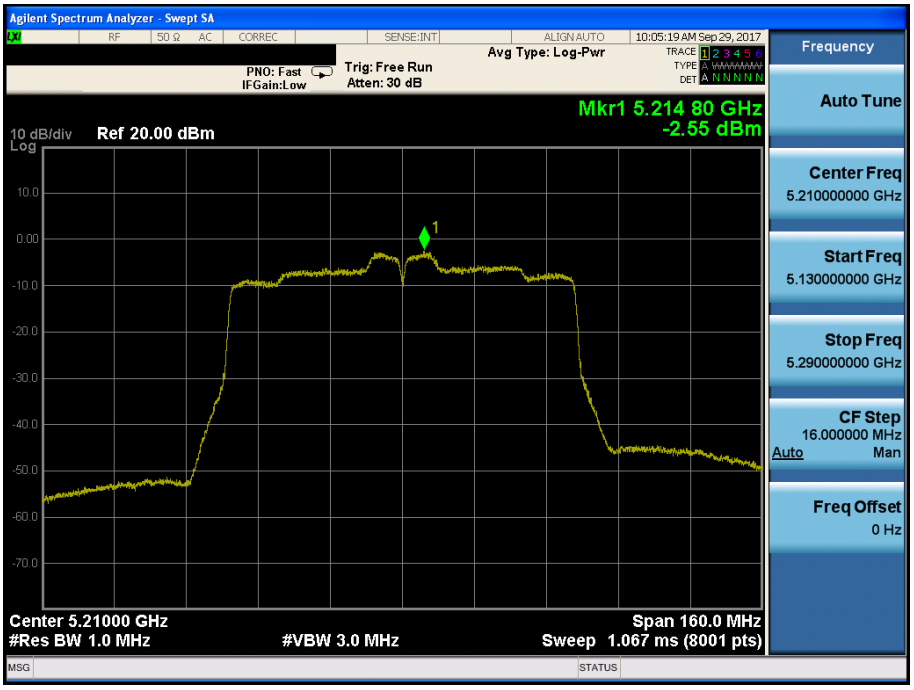
**Maximum Power Spectral Density** Test Mode: 802.11n HT40 & ANT 2 & Ch.151



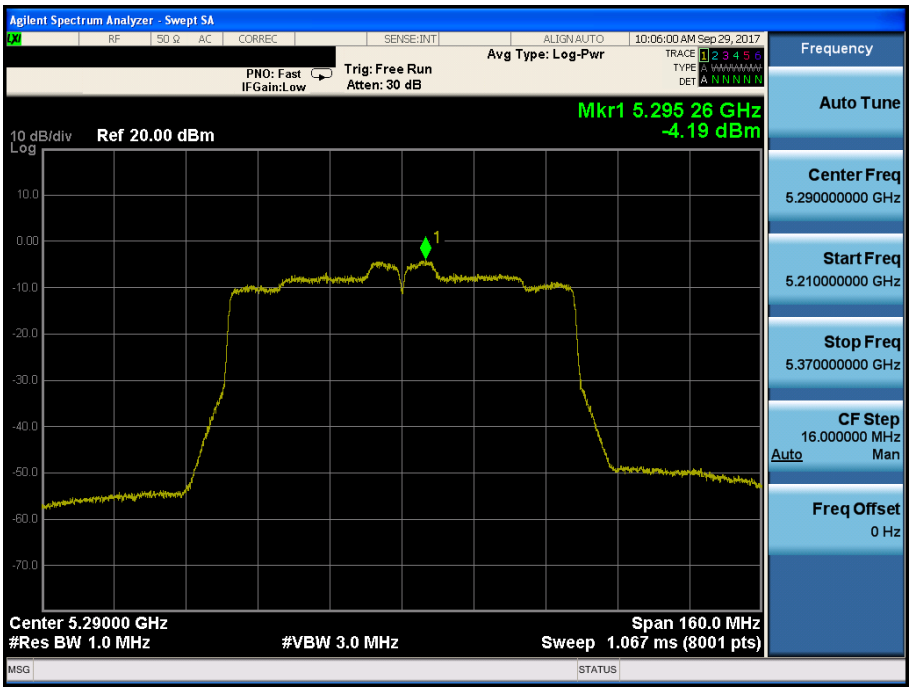

**Maximum Power Spectral Density** Test Mode: 802.11n HT40 & ANT 2 & Ch.159



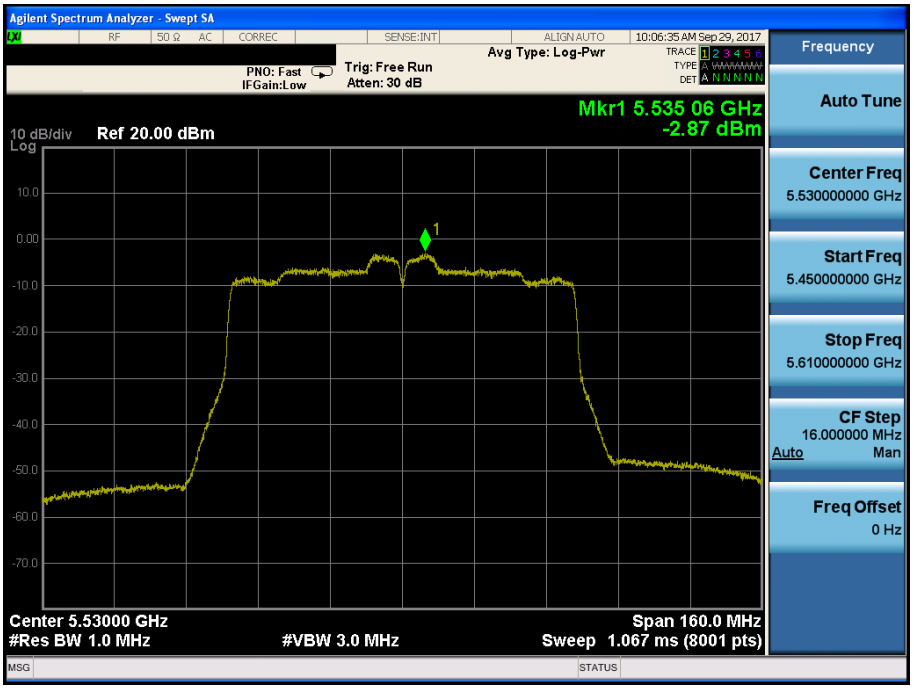
**Maximum Power Spectral Density** Test Mode: 802.11ac VHT80 & ANT 2 & Ch.42



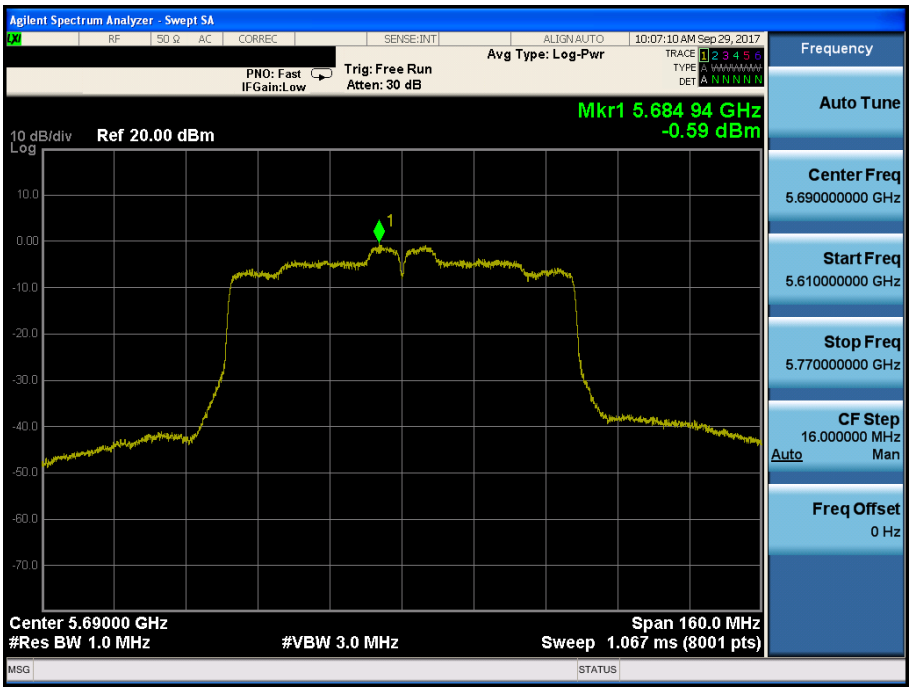

**Maximum Power Spectral Density** Test Mode: 802.11ac VHT80 & ANT 2 & Ch.58



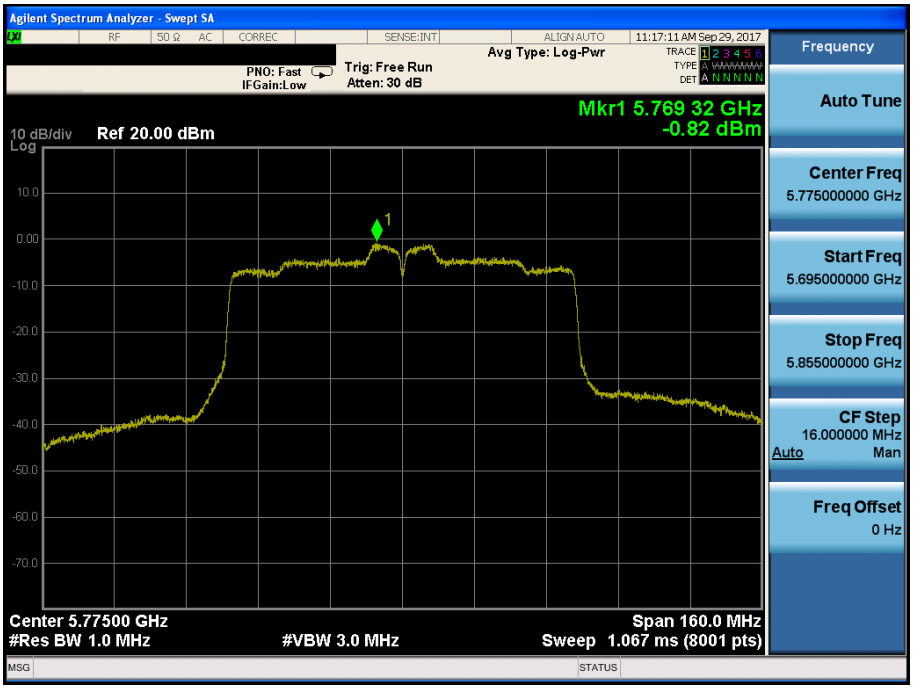
**Maximum Power Spectral Density** Test Mode: 802.11ac VHT80 & ANT 2 & Ch.106




**Maximum Power Spectral Density** Test Mode: 802.11ac VHT80 & ANT 2 & Ch.138



**Maximum Power Spectral Density** Test Mode: 802.11ac VHT80 & ANT 2 & Ch.155



## 8.5 Frequency Stability

### ▣ Test requirements

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

### ▣ Test Procedure

The EUT was placed inside of an environmental chamber as the temperature in the chamber was varied between -20℃ and +50℃. The temperature was incremented by 10℃ intervals and the unit was allowed to stabilize at each measurement. And the edge point of EBW (26dB or 6dB bandwidth) was reported.

### ▣ Test Results: Comply

**U-NII 1 & U-NII 2A : (5150 MHz ~ 5350 MHz)**

| Supply Voltage (V DC) | TEMP (℃) | Operating Frequency | |
|---|---|---|---|
| | | 5180 MHz | 5320 MHz |
| | | 26dBc low edge (Hz) | 26dBc High edge(Hz) |
| 3.800 | +20(Ref) | 5,169,702,000 | 5,330,664,000 |
| | +50 | 5,169,579,000 | 5,330,534,000 |
| | +40 | 5,169,584,000 | 5,330,542,000 |
| | +30 | 5,169,667,000 | 5,330,635,000 |
| | +20 | 5,169,702,000 | 5,330,664,000 |
| | +10 | 5,169,730,000 | 5,330,693,000 |
| | 0 | 5,169,738,000 | 5,330,701,000 |
| | -10 | 5,169,747,000 | 5,330,713,000 |
| | -20 | 5,169,751,000 | 5,330,719,000 |
| 3.200 | +20 | 5,169,704,000 | 5,330,661,000 |
| 4.255 | +20 | 5,169,705,000 | 5,330,667,000 |

**U-NII 2C : (5470 MHz ~ 5725 MHz)**

| Supply Voltage (V DC) | TEMP (℃) | Operating Frequency | |
|---|---|---|---|
| | | 5500 MHz | 5720 MHz[Note1] |
| | | 26dBc low edge (Hz) | 26dBc High edge(Hz) |
| 3.800 | +20(Ref) | 5,489,778,000 | - |
| | +50 | 5,489,705,000 | - |
| | +40 | 5,489,726,000 | - |
| | +30 | 5,489,745,000 | - |
| | +20 | 5,489,778,000 | - |
| | +10 | 5,489,801,000 | - |
| | 0 | 5,489,815,000 | - |
| | -10 | 5,489,829,000 | - |
| | -20 | 5,489,834,000 | - |
| 3.200 | +20 | 5,489,780,000 | - |
| 4.255 | +20 | 5,489,781,000 | - |

Note 1: This channel was not performed because operate in cross-band(U-NII 2C & 3).

**U-NII 3 : (5725 MHz ~ 5850 MHz)**

| Supply Voltage (V DC) | TEMP (℃) | Operating Frequency | |
|---|---|---|---|
| | | 5745 MHz | 5825 MHz |
| | | 6dBc low edge (Hz) | 6dBc High edge(Hz) |
| 3.800 | +20(Ref) | 5,737,450,000 | 5,832,479,000 |
| | +50 | 5,735,312,000 | 5,832,368,000 |
| | +40 | 5,737,331,000 | 5,832,376,000 |
| | +30 | 5,737,372,000 | 5,832,418,000 |
| | +20 | 5,737,450,000 | 5,832,479,000 |
| | +10 | 5,737,473,000 | 5,832,501,000 |
| | 0 | 5,737,492,000 | 5,832,524,000 |
| | -10 | 5,737,501,000 | 5,832,552,000 |
| | -20 | 5,737,506,000 | 5,832,563,000 |
| 3.200 | +20 | 5,737,459,000 | 5,832,477,000 |
| 4.255 | +20 | 5,737,453,000 | 5,832,482,000 |

## 8.6 Radiated Spurious Emission Measurements

### ▣ Test Procedure

▪ **FCC Part 15.209(a) and (b)**

| Frequency (MHz) | Limit (uV/m) | Measurement Distance (meter) |
|---|---|---|
| 0.009 – 0.490 | 2400/F(KHz) | 300 |
| 0.490 – 1.705 | 24000/F(KHz) | 30 |
| 1.705 – 30.0 | 30 | 30 |
| 30 ~ 88 | 100 ** | 3 |
| 88 ~ 216 | 150 ** | 3 |
| 216 ~ 960 | 200 ** | 3 |
| Above 960 | 500 | 3 |

** Except as provided in 15.209(g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g. 15.231 and 15.241.

▪ **FCC Part 15.205 (a):** Only spurious emissions are permitted in any of the frequency bands listed below:

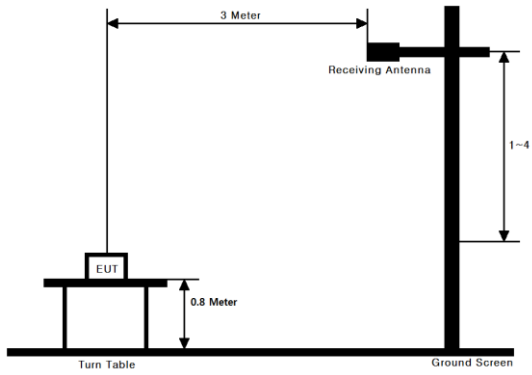
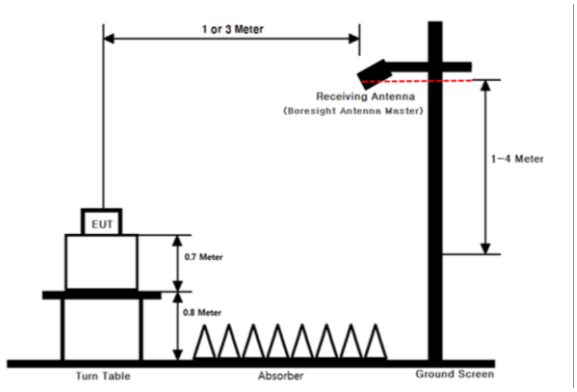
| MHz | MHz | MHz | MHz | GHz | GHz |
|---|---|---|---|---|---|
| 0.009 ~ 0.110 | 8.41425 ~ 8.41475 | 108 ~ 121.94 | 1300 ~ 1427 | 4.5 ~ 5.15 | 14.47 ~ 14.5 |
| 0.495 ~ 0.505 | 12.29 ~ 12.293 | 123 ~ 138 | 1435 ~ 1626.5 | 5.35 ~ 5.46 | 15.35 ~ 16.2 |
| 2.1735 ~ 2.1905 | 12.51975 ~ 12.52025 | 149.9 ~ 150.05 | 1645.5 ~ 1646.5 | 7.25 ~ 7.75 | 17.7 ~ 21.4 |
| 4.125 ~ 4.128 | 12.57675 ~ 12.57725 | 160.52475 ~ 160.52525 | 1660 ~ 1710 | 8.025 ~ 8.5 | 22.01 ~ 23.12 |
| 4.17725 ~ 4.17775 | 13.36 ~ 13.41 | 160.7 ~ 160.9 | 1718.8 ~ 1722.2 | 9.0 ~ 9.2 | 23.6 ~ 24.0 |
| 4.20725 ~ 4.20775 | 16.42 ~ 16.423 | 162.0125 ~ 167.17 | 2200 ~ 2300 | 9.3 ~ 9.5 | 31.2 ~ 31.8 |
| 6.215 ~ 6.218 | 16.69475 ~ 16.69525 | 167.72 ~ 173.2 | 2310 ~ 2390 | 10.6 ~ 12.7 | 36.43 ~ 36.5 |
| 6.26775 ~ 6.26825 | 16.80425 ~ 16.80475 | 240 ~ 285 | 2483.5 ~ 2500 | 13.25 ~ 13.4 | Above 38.6 |
| 6.31175 ~ 6.31225 | 25.5 ~ 25.67 | 322 ~ 335.4 | 2655 ~ 2900 | | |
| 8.291 ~ 8.294 | 37.5 ~ 38.25 | 399.90 ~ 410 | 3260 ~ 3267 | | |
| 8.362 ~ 8.366 | 73 ~ 74.6 | 608 ~ 614 | 3332 ~ 3339 | | |
| 8.37625 ~ 8.38675 | 74.8 ~ 75.2 | 960 ~ 1240 | 3345.8 ~ 3358 | | |
| | | | 3600 ~ 4000 | | |

▪ **FCC Part 15.205(b):** The field strength of emissions appearing within these frequency bands shall not exceed the limits shown in §15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in §15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in §15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in §15.35 apply to these measurements.

▪ **FCC Part 15.407 (b):** Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(1) For transmitters operating in the **5.15-5.25 GHz band**: all emissions outside of the **5.15-5.35 GHz band** shall not exceed an **EIRP of -27 dBm/MHz**.
(2) For transmitters operating in the **5.25-5.35 GHz band**: all emissions outside of the **5.15-5.35 GHz band** shall not exceed an **EIRP of -27 dBm/MHz**.
(3) For transmitters operating in the **5.47-5.725 GHz band**: all emissions outside of the **5.47-5.725 GHz band** shall not exceed an **EIRP of -27 dBm/MHz.**
(4) For transmitters operating in the **5.725-5.85 GHz band**: All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
(5) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.
(6) Unwanted emissions **below 1 GHz** must comply with the general field strength limits set forth in **Section 15.209**. Further, any U-NII devices using an **AC power line** are required to comply also with the conducted limits set forth in **Section 15.207**.
(7) The provisions of §15.205 apply to intentional radiators operating under this section
(8) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency band edges as the design of the equipment permits.

## ▣ Test Procedure

| Below 1GHz | Above 1GHz |
|---|---|
|   |   |

## ▣ Test Procedure

1. The EUT is placed on a non-conductive table. For emission measurements at or below 1 GHz, the table height is 80 cm. For emission measurements above 1 GHz, the table height is 1.5 m.
2. The turn table shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 1m or 3 m away from the receiving antenna, which is varied from 1m to 4 m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.

Radiated spurious emission measured using following Measurement Procedure **of KDB789033 D02v01r04**

► **General Requirements for Unwanted Emissions Measurements**

The following requirements apply to all unwanted emissions measurements, both in and outside of the restricted bands:

- EUT Duty Cycle

(1) The EUT shall be configured or modified to **transmit continuously** except as stated in (ii), below. The intent is to test at 100 percent duty cycle; however a small reduction in duty cycle (**to no lower than 98 percent**) is permitted if required by the EUT for amplitude control purposes. Manufacturers are expected to provide software to the test lab to permit such continuous operation.

(2) If **continuous transmission (or at least 98 percent duty cycle) cannot be achieved** due to hardware limitations of the EUT (e.g., overheating), the following additions to the measurement and reporting procedures are required:

- The EUT shall be configured to operate at the maximum achievable duty cycle.
- Measure the duty cycle, x, of the transmitter output signal.
- Adjustments to measurement procedures (e.g., increasing test time and number of traces averaged) shall be performed as described in the procedures below.
- The test report shall include the following additional information:
  - The reason for the duty cycle limitation.
  - The duty cycle achieved for testing and the associated transmit duration and interval between transmissions.
  - The sweep time and the amount of time used for trace stabilization during max-hold measurements for peak emission measurements.

(3) Reduction of the measured emission amplitude levels to account for operational duty factor is not permitted. Compliance is based on emission levels occurring during transmission - not on an average across on and off times of the transmitter.

► **Measurements below 1000 MHz**

a) Follow the requirements in section II.G.3, "General Requirements for Unwanted Emissions Measurements".

b) Compliance shall be demonstrated using **CISPR quasi-peak detection**; however, **peak detection** is permitted as an alternative to quasi-peak detection.

## ► Measurements Above 1000 MHz (Peak)

a) Follow the requirements in section II.G.3, "General Requirements for Unwanted Emissions Measurements".

b) Peak emission levels are measured by setting the analyzer as follows:

(i) **RBW = 1 MHz.**

(ii) **VBW ≥ 3 MHz.**

(iii) **Detector = Peak.**

(iv) Sweep time = Auto.

(v) Trace mode = Max hold.

(vi) Allow sweeps to continue until the trace stabilizes. Note that if the transmission is not continuous, the time required for the trace to stabilize will increase by a factor of approximately 1/x, where x is the duty cycle. For example, at 50 percent duty cycle, the measurement time will increase by a factor of two relative to measurement time for continuous transmission.

► **Measurements Above 1000 MHz (Method AD)**

(i) **RBW = 1 MHz.**

(ii) **VBW ≥ 3 MHz.**

(iii) **Detector = RMS**, if span / (# of points in sweep) ≤ RBW / 2. Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If the condition is not satisfied, the detector mode shall be set to peak.

(iv) Averaging type = power (i.e., RMS)

- As an alternative, the detector and averaging type may be set for linear voltage averaging. Some analyzers require linear display mode in order to use linear voltage averaging. Log or dB averaging shall not be used.

(v) Sweep time = Auto.

(vi) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, the number of traces shall be increased by a factor of 1/x, where x is the duty cycle. For example, with 50 percent duty cycle, at least 200 traces shall be averaged.

(vii) If tests are performed with the EUT transmitting at a duty cycle less than 98 percent, a correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100 percent duty cycle. The correction factor is computed as follows:

- **If power averaging (RMS) mode was used in step (iv) above, the correction factor is 10 log(1/x), where x is the duty cycle.** For example, if the transmit duty cycle was 50 percent, then 3 dB must be added to the measured emission levels.
- If linear voltage averaging mode was used in step (iv) above, the correction factor is 20 log (1/x), where x is the duty cycle. For example, if the transmit duty cycle was 50 percent, then 6 dB must be added to the measured emission levels.
- If a specific emission is demonstrated to be continuous (100 percent duty cycle) rather than turning on and off with the transmit cycle, no duty cycle correction is required for that emission.

Please refer to Appendix II for the duty correction factor

## ▣ Measurement Data:

**Radiated Spurious Emissions data(9 kHz ~ 40 GHz) : *MIMO(CDD) & 802.11a_Normal***

| Band | Tested Channel | Freq. (MHz) | ANT Pol | EUT Position (Axis) | Detector Mode | Reading (dBuV) | T.F (dB/m) | DCCF (dB) | DCF (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| U-NII 1 | 36 (5180 MHz) | 5149.22 | H | Y | PK | 48.76 | 6.47 | N/A | N/A | 55.23 | 74.00 | 18.77 |
| | | 5149.57 | H | Y | AV | 40.05 | 6.47 | N/A | N/A | 46.52 | 54.00 | 7.48 |
| | | 10359.21 | H | Z | PK | 45.36 | 10.66 | N/A | N/A | 56.02 | 68.20 | 12.18 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | 40 (5200 MHz) | 10401.56 | H | Z | PK | 44.48 | 10.76 | N/A | N/A | 55.24 | 68.20 | 12.96 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | 48 (5240 MHz) | 10480.10 | H | Z | PK | 43.87 | 10.93 | N/A | N/A | 54.80 | 68.20 | 13.40 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| U-NII 2A | 52 (5260 MHz) | 10519.60 | H | Z | PK | 45.65 | 11.05 | N/A | N/A | 56.70 | 68.20 | 11.50 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | 60 (5300 MHz) | 10600.95 | H | Z | PK | 43.29 | 11.30 | N/A | N/A | 54.59 | 74.00 | 19.41 |
| | | 10600.97 | H | Z | AV | 32.98 | 11.30 | N/A | N/A | 44.28 | 54.00 | 9.72 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | 64 (5320 MHz) | 5350.06 | H | Y | PK | 46.51 | 6.61 | N/A | N/A | 53.12 | 74.00 | 20.88 |
| | | 5350.03 | H | Y | AV | 38.11 | 6.61 | N/A | N/A | 44.72 | 54.00 | 9.28 |
| | | 10641.40 | H | Z | PK | 43.91 | 11.42 | N/A | N/A | 55.33 | 74.00 | 18.67 |
| | | 10641.15 | H | Z | AV | 33.30 | 11.42 | N/A | N/A | 44.72 | 54.00 | 9.28 |

**Note.**

1. No other spurious and harmonic emissions were found greater than listed emissions on above table.
2. Sample Calculation.
   Margin = Limit – Result / Result = Reading + T.F+ DCCF + DCF / T.F = AF + CL – AG
   Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain,
   DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor
3. Measurement Distance = 3 m for below 18 GHz, Measurement Distance = 1 m for above 18 GHz.
   Therefore Distance Correction Factor(DCF) : - 9.54 dB = 20*log(1m/3m)
4. The limit is converted to field strength.
   E[dBuV/m] = EIRP[dBm] + 95.2 dB = -27 dBm + 95.2 = 68.2 dBuV/m

**Radiated Spurious Emissions data(9 kHz ~ 40 GHz) : *MIMO(CDD) & 802.11a & With Wireless charging pad***

| Band | Tested Channel | Freq. (MHz) | ANT Pol | EUT Position (Axis) | Detector Mode | Reading (dBuV) | T.F (dB/m) | DCCF (dB) | DCF (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| U-NII 1 | 36 (5180 MHz) | 5149.00 | H | X | PK | 45.92 | 6.47 | N/A | N/A | 52.39 | 74.00 | 21.61 |
| | | 5149.99 | H | X | AV | 36.13 | 6.47 | N/A | N/A | 42.60 | 54.00 | 11.40 |
| | | 10359.71 | V | X | PK | 44.40 | 10.66 | N/A | N/A | 55.06 | 68.20 | 13.14 |
| | 40 (5200 MHz) | 10400.18 | V | X | PK | 44.35 | 10.76 | N/A | N/A | 55.11 | 68.20 | 13.09 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | 48 (5240 MHz) | 10479.71 | V | X | PK | 44.14 | 10.93 | N/A | N/A | 55.07 | 68.20 | 13.13 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| U-NII 2A | 52 (5260 MHz) | 10520.09 | V | X | PK | 43.71 | 11.05 | N/A | N/A | 54.76 | 68.20 | 13.44 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | 60 (5300 MHz) | 10600.56 | V | X | PK | 44.02 | 11.30 | N/A | N/A | 55.32 | 74.00 | 18.68 |
| | | 10600.98 | V | X | AV | 33.15 | 11.30 | N/A | N/A | 44.45 | 54.00 | 9.55 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | 64 (5320 MHz) | 5350.28 | H | X | PK | 45.99 | 6.61 | N/A | N/A | 52.60 | 74.00 | 21.40 |
| | | 5350.28 | H | X | AV | 37.40 | 6.61 | N/A | N/A | 44.01 | 54.00 | 9.99 |
| | | 10640.75 | V | X | PK | 45.76 | 11.42 | N/A | N/A | 57.18 | 74.00 | 16.82 |
| | | 10640.34 | V | X | AV | 33.54 | 11.42 | N/A | N/A | 44.96 | 54.00 | 9.04 |

**Note.**

1. No other spurious and harmonic emissions were found greater than listed emissions on above table.
2. Sample Calculation.
   Margin = Limit – Result / Result = Reading + T.F+ DCCF + DCF / T.F = AF + CL – AG
   Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain,
   DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor
3. Measurement Distance = 3 m for below 18 GHz, Measurement Distance = 1 m for above 18 GHz.
   Therefore Distance Correction Factor(DCF) : - 9.54 dB = 20*log(1m/3m)
4. The limit is converted to field strength.
   E[dBuV/m] = EIRP[dBm] + 95.2 dB = -27 dBm + 95.2 = 68.2 dBuV/m

**Radiated Spurious Emissions data(9 kHz ~ 40 GHz) : *MIMO(CDD) & 802.11a***

| Band | Tested Channel | Freq. (MHz) | ANT Pol | EUT Position (Axis) | Detector Mode | Reading (dBuV) | T.F (dB/m) | DCCF (dB) | DCF (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| U-NII 2C | 100 (5500 MHz) | 5459.38 | H | Y | PK | 46.50 | 6.64 | N/A | N/A | 53.14 | 74.00 | 20.86 |
| | | 5459.66 | H | Y | AV | 37.03 | 6.64 | N/A | N/A | 43.67 | 54.00 | 10.33 |
| | | 5467.34 | H | Y | PK | 47.76 | 6.66 | N/A | N/A | 54.42 | 68.20 | 13.78 |
| | | 10999.21 | H | Z | PK | 43.24 | 12.53 | N/A | N/A | 55.77 | 74.00 | 18.23 |
| | | 10998.78 | H | Z | AV | 33.04 | 12.53 | N/A | N/A | 45.57 | 54.00 | 8.43 |
| | 116 (5580 MHz) | 11161.01 | H | Z | PK | 44.03 | 12.67 | N/A | N/A | 56.70 | 74.00 | 17.30 |
| | | 11161.11 | H | Z | AV | 33.70 | 12.67 | N/A | N/A | 46.37 | 54.00 | 7.63 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | 144 (5720 MHz) | 11439.01 | H | Z | PK | 44.08 | 12.89 | N/A | N/A | 56.97 | 74.00 | 17.03 |
| | | 11438.94 | H | Z | AV | 33.43 | 12.89 | N/A | N/A | 46.32 | 54.00 | 7.68 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| U-NII 3 | 149 (5745 MHz) | 5714.54 | H | Y | PK | 46.37 | 6.93 | N/A | N/A | 53.30 | 68.20 | 14.90 |
| | | 5724.90 | H | Y | PK | 60.13 | 7.13 | N/A | N/A | 67.26 | 78.20 | 10.94 |
| | | 11491.66 | H | Z | PK | 44.13 | 12.93 | N/A | N/A | 57.06 | 74.00 | 16.94 |
| | | 11491.00 | H | Z | AV | 33.33 | 12.93 | N/A | N/A | 46.26 | 54.00 | 7.74 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | 157 (5785 MHz) | 11570.12 | H | Z | PK | 44.21 | 12.99 | N/A | N/A | 57.20 | 74.00 | 16.80 |
| | | 11569.80 | H | Z | AV | 33.80 | 12.99 | N/A | N/A | 46.79 | 54.00 | 7.21 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | 165 (5825 MHz) | 5850.54 | H | Y | PK | 56.26 | 7.46 | N/A | N/A | 63.72 | 78.20 | 14.48 |
| | | 5860.24 | H | Y | PK | 45.26 | 7.50 | N/A | N/A | 52.76 | 68.20 | 15.44 |
| | | 11650.50 | H | Z | PK | 44.07 | 13.05 | N/A | N/A | 57.12 | 74.00 | 16.88 |
| | | 11650.66 | H | Z | AV | 33.55 | 13.05 | N/A | N/A | 46.60 | 54.00 | 7.40 |

**Note.**

1. No other spurious and harmonic emissions were found greater than listed emissions on above table.
2. Sample Calculation.
   Margin = Limit – Result / Result = Reading + T.F+ DCCF + DCF / T.F = AF + CL – AG
   Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain,
   DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor
3. Measurement Distance = 3 m for below 18 GHz, Measurement Distance = 1 m for above 18 GHz.
   Therefore Distance Correction Factor(DCF) : - 9.54 dB = 20*log(1m/3m)
4. The limit is converted to field strength.
   E[dBuV/m] = EIRP[dBm] + 95.2 dB = -27 dBm + 95.2 = 68.2 dBuV/m

**Radiated Spurious Emissions data(9 kHz ~ 40 GHz) : *MIMO(CDD) & 802.11a & With Wireless charging pad***

| Band | Tested Channel | Freq. (MHz) | ANT Pol | EUT Position (Axis) | Detector Mode | Reading (dBuV) | T.F (dB/m) | DCCF (dB) | DCF (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| U-NII 2C | 100 (5500 MHz) | 5458.58 | H | X | PK | 47.18 | 6.64 | N/A | N/A | 53.82 | 74.00 | 20.18 |
| | | 5457.84 | H | X | AV | 36.63 | 6.64 | N/A | N/A | 43.27 | 54.00 | 10.73 |
| | | 5468.82 | H | X | PK | 46.78 | 6.66 | N/A | N/A | 53.44 | 68.20 | 14.76 |
| | | 11000.85 | V | X | PK | 44.41 | 12.53 | N/A | N/A | 56.94 | 74.00 | 17.06 |
| | | 11000.68 | V | X | AV | 33.45 | 12.53 | N/A | N/A | 45.98 | 54.00 | 8.02 |
| | 116 (5580 MHz) | 11159.26 | V | X | PK | 43.98 | 12.67 | N/A | N/A | 56.65 | 74.00 | 17.35 |
| | | 11159.74 | V | X | AV | 33.66 | 12.67 | N/A | N/A | 46.33 | 54.00 | 7.67 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | 144 (5720 MHz) | 11439.56 | V | X | PK | 43.77 | 12.89 | N/A | N/A | 56.66 | 74.00 | 17.34 |
| | | 11439.53 | V | X | AV | 33.43 | 12.89 | N/A | N/A | 46.32 | 54.00 | 7.68 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| U-NII 3 | 149 (5745 MHz) | 5715.00 | H | X | PK | 44.56 | 6.93 | N/A | N/A | 51.49 | 68.20 | 16.71 |
| | | 5724.92 | H | X | PK | 59.78 | 7.13 | N/A | N/A | 66.91 | 78.20 | 11.29 |
| | | 11490.93 | V | X | PK | 43.66 | 12.93 | N/A | N/A | 56.59 | 74.00 | 17.41 |
| | | 11491.10 | V | X | AV | 33.28 | 12.93 | N/A | N/A | 46.21 | 54.00 | 7.79 |
| | 157 (5785 MHz) | 11569.08 | V | X | PK | 44.06 | 12.99 | N/A | N/A | 57.05 | 74.00 | 16.95 |
| | | 11569.17 | V | X | AV | 33.74 | 12.99 | N/A | N/A | 46.73 | 54.00 | 7.27 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | 165 (5825 MHz) | 5850.02 | H | X | PK | 52.28 | 7.46 | N/A | N/A | 59.74 | 78.20 | 18.46 |
| | | 5861.03 | H | X | PK | 44.75 | 7.50 | N/A | N/A | 52.25 | 68.20 | 15.95 |
| | | 11650.02 | V | X | PK | 44.25 | 13.05 | N/A | N/A | 57.30 | 74.00 | 16.70 |
| | | 11649.16 | V | X | AV | 33.45 | 13.05 | N/A | N/A | 46.50 | 54.00 | 7.50 |

**Note.**

1. No other spurious and harmonic emissions were found greater than listed emissions on above table.
2. Sample Calculation.
   Margin = Limit – Result / Result = Reading + T.F+ DCCF + DCF / T.F = AF + CL – AG
   Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain,
   DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor
3. Measurement Distance = 3 m for below 18 GHz, Measurement Distance = 1 m for above 18 GHz.
   Therefore Distance Correction Factor(DCF) : - 9.54 dB = 20*log(1m/3m)
4. The limit is converted to field strength.
   E[dBuV/m] = EIRP[dBm] + 95.2 dB = -27 dBm + 95.2 = 68.2 dBuV/m

**Radiated Spurious Emissions data(9 kHz ~ 40 GHz) : *MIMO(CDD) & 802.11n(HT20)***

| Band | Tested Channel | Freq. (MHz) | ANT Pol | EUT Position (Axis) | Detector Mode | Reading (dBuV) | T.F (dB/m) | DCCF (dB) | DCF (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| U-NII 1 | 36 (5180 MHz) | 5148.16 | H | Y | PK | 48.10 | 6.49 | N/A | N/A | 54.59 | 74.00 | 19.41 |
| | | 5148.31 | H | Y | AV | 38.75 | 6.49 | N/A | N/A | 45.24 | 54.00 | 8.76 |
| | | 10361.16 | H | Z | PK | 44.12 | 10.65 | N/A | N/A | 54.77 | 68.20 | 13.43 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | 40 (5200 MHz) | 10400.17 | H | Z | PK | 43.73 | 10.76 | N/A | N/A | 54.49 | 68.20 | 13.71 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | 48 (5240 MHz) | 10480.00 | H | Z | PK | 44.49 | 10.95 | N/A | N/A | 55.44 | 68.20 | 12.76 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | | - | - | - | - | - | - | - | - | - | - | - |
| U-NII 2A | 52 (5260 MHz) | 10521.51 | H | Z | PK | 44.41 | 11.08 | N/A | N/A | 55.49 | 68.20 | 12.71 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | 60 (5300 MHz) | 10600.00 | H | Z | PK | 43.64 | 11.29 | N/A | N/A | 54.93 | 74.00 | 19.07 |
| | | 10600.72 | H | Z | AV | 32.85 | 11.29 | N/A | N/A | 44.14 | 54.00 | 9.86 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | 64 (5320 MHz) | 5350.06 | H | Y | PK | 47.19 | 6.61 | N/A | N/A | 53.80 | 74.00 | 20.20 |
| | | 5350.09 | H | Y | AV | 38.00 | 6.61 | N/A | N/A | 44.61 | 54.00 | 9.39 |
| | | 10642.09 | H | Z | PK | 43.88 | 11.41 | N/A | N/A | 55.29 | 74.00 | 18.71 |
| | | 10642.61 | H | Z | AV | 33.52 | 11.41 | N/A | N/A | 44.93 | 54.00 | 9.07 |

**Note.**

1. No other spurious and harmonic emissions were found greater than listed emissions on above table.
2. Sample Calculation.
   Margin = Limit – Result / Result = Reading + T.F+ DCCF + DCF / T.F = AF + CL – AG
   Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain,
   DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor
3. Measurement Distance = 3 m for below 18 GHz, Measurement Distance = 1 m for above 18 GHz.
   Therefore Distance Correction Factor(DCF) : - 9.54 dB = 20*log(1m/3m)
4. The limit is converted to field strength.
   E[dBuV/m] = EIRP[dBm] + 95.2 dB = -27 dBm + 95.2 = 68.2 dBuV/m

**Radiated Spurious Emissions data(9 kHz ~ 40 GHz) : *MIMO(CDD) & 802.11n(HT20)& With Wireless charging pad***

| Band | Tested Channel | Freq. (MHz) | ANT Pol | EUT Position (Axis) | Detector Mode | Reading (dBuV) | T.F (dB/m) | DCCF (dB) | DCF (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| U-NII 1 | 36 (5180 MHz) | 5148.88 | H | X | PK | 45.86 | 6.49 | N/A | N/A | 52.35 | 74.00 | 21.65 |
| | | 5149.00 | H | X | AV | 35.84 | 6.49 | N/A | N/A | 42.33 | 54.00 | 11.67 |
| | | 10360.86 | V | X | PK | 44.77 | 10.65 | N/A | N/A | 55.42 | 68.20 | 12.78 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | 40 (5200 MHz) | 10399.19 | V | X | PK | 44.69 | 10.76 | N/A | N/A | 55.45 | 68.20 | 12.75 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | 48 (5240 MHz) | 10481.13 | V | X | PK | 46.03 | 10.95 | N/A | N/A | 56.98 | 68.20 | 11.22 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| U-NII 2A | 52 (5260 MHz) | 10521.29 | V | X | PK | 44.34 | 11.08 | N/A | N/A | 55.42 | 68.20 | 12.78 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | 60 (5300 MHz) | 10601.41 | V | X | PK | 44.16 | 11.29 | N/A | N/A | 55.45 | 74.00 | 18.55 |
| | | 10601.63 | V | X | AV | 32.97 | 11.29 | N/A | N/A | 44.26 | 54.00 | 9.74 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | 64 (5320 MHz) | 5359.30 | H | X | PK | 46.43 | 6.61 | N/A | N/A | 53.04 | 74.00 | 20.96 |
| | | 5359.57 | H | X | AV | 36.39 | 6.61 | N/A | N/A | 43.00 | 54.00 | 11.00 |
| | | 10640.960 | V | X | PK | 44.19 | 11.41 | N/A | N/A | 55.60 | 74.00 | 18.40 |
| | | 10641.080 | V | X | AV | 33.69 | 11.41 | N/A | N/A | 45.10 | 54.00 | 8.90 |

**Note.**

1. No other spurious and harmonic emissions were found greater than listed emissions on above table.
2. Sample Calculation.
   Margin = Limit – Result / Result = Reading + T.F+ DCCF + DCF / T.F = AF + CL – AG
   Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain,
   DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor
3. Measurement Distance = 3 m for below 18 GHz, Measurement Distance = 1 m for above 18 GHz.
   Therefore Distance Correction Factor(DCF) : - 9.54 dB = 20*log(1m/3m)
4. The limit is converted to field strength.
   E[dBuV/m] = EIRP[dBm] + 95.2 dB = -27 dBm + 95.2 = 68.2 dBuV/m

**Radiated Spurious Emissions data(9 kHz ~ 40 GHz) : *MIMO(CDD) & 802.11n(HT20)***

| Band | Tested Channel | Freq. (MHz) | ANT Pol | EUT Position (Axis) | Detector Mode | Reading (dBuV) | T.F (dB/m) | DCCF (dB) | DCF (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| U-NII 2C | 100 (5500 MHz) | 5457.94 | H | Y | PK | 47.29 | 6.64 | N/A | N/A | 53.93 | 74.00 | 20.07 |
| | | 5458.54 | H | Y | AV | 37.68 | 6.64 | N/A | N/A | 44.32 | 54.00 | 9.68 |
| | | 5467.34 | H | Y | PK | 47.62 | 6.66 | N/A | N/A | 54.28 | 68.20 | 13.92 |
| | | 11000.85 | H | Z | PK | 43.53 | 12.53 | N/A | N/A | 56.06 | 74.00 | 17.94 |
| | | 11001.11 | H | Z | AV | 32.77 | 12.53 | N/A | N/A | 45.30 | 54.00 | 8.70 |
| | 116 (5580 MHz) | 11160.16 | H | Z | PK | 43.81 | 12.67 | N/A | N/A | 56.48 | 74.00 | 17.52 |
| | | 11159.40 | H | Z | AV | 33.45 | 12.67 | N/A | N/A | 46.12 | 54.00 | 7.88 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | 144 (5720 MHz) | 11440.41 | H | Z | PK | 44.23 | 12.89 | N/A | N/A | 57.12 | 74.00 | 16.88 |
| | | 11440.98 | H | Z | AV | 33.40 | 12.89 | N/A | N/A | 46.29 | 54.00 | 7.71 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| U-NII 3 | 149 (5745 MHz) | 5713.09 | H | Y | PK | 43.87 | 6.93 | N/A | N/A | 50.80 | 68.20 | 17.40 |
| | | 5723.75 | H | Y | PK | 58.05 | 7.13 | N/A | N/A | 65.18 | 78.20 | 13.02 |
| | | 11491.492 | H | Z | PK | 44.23 | 12.94 | N/A | N/A | 57.17 | 74.00 | 16.83 |
| | | 11491.352 | H | Z | AV | 33.41 | 12.94 | N/A | N/A | 46.35 | 54.00 | 7.65 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | 157 (5785 MHz) | 11570.74 | H | Z | PK | 44.20 | 12.99 | N/A | N/A | 57.19 | 74.00 | 16.81 |
| | | 11570.66 | H | Z | AV | 33.54 | 12.99 | N/A | N/A | 46.53 | 54.00 | 7.47 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | 165 (5825 MHz) | 5850.24 | H | Y | PK | 51.91 | 7.46 | N/A | N/A | 59.37 | 78.20 | 18.83 |
| | | 5860.02 | H | Y | PK | 46.24 | 7.50 | N/A | N/A | 53.74 | 68.20 | 14.46 |
| | | 11648.52 | H | Z | PK | 44.23 | 13.05 | N/A | N/A | 57.28 | 74.00 | 16.72 |
| | | 11649.55 | H | Z | AV | 33.73 | 13.05 | N/A | N/A | 46.78 | 54.00 | 7.22 |

**Note.**

1. No other spurious and harmonic emissions were found greater than listed emissions on above table.
2. Sample Calculation.
   Margin = Limit – Result / Result = Reading + T.F+ DCCF + DCF / T.F = AF + CL – AG
   Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain,
   DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor
3. Measurement Distance = 3 m for below 18 GHz, Measurement Distance = 1 m for above 18 GHz.
   Therefore Distance Correction Factor(DCF) : - 9.54 dB = 20*log(1m/3m)
4. The limit is converted to field strength.
   E[dBuV/m] = EIRP[dBm] + 95.2 dB = -27 dBm + 95.2 = 68.2 dBuV/m

**Radiated Spurious Emissions data(9 kHz ~ 40 GHz) : *MIMO(CDD) & 802.11n(HT20)& With Wireless charging pad***

| Band | Tested Channel | Freq. (MHz) | ANT Pol | EUT Position (Axis) | Detector Mode | Reading (dBuV) | T.F (dB/m) | DCCF (dB) | DCF (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| U-NII 2C | 100 (5500 MHz) | 5458.61 | H | X | PK | 46.48 | 6.64 | N/A | N/A | 53.12 | 74.00 | 20.88 |
| | | 5458.80 | H | X | AV | 36.33 | 6.64 | N/A | N/A | 42.97 | 54.00 | 11.03 |
| | | 5466.48 | H | X | PK | 46.45 | 6.66 | N/A | N/A | 53.11 | 68.20 | 15.09 |
| | | 11000.53 | V | X | PK | 43.51 | 12.53 | N/A | N/A | 56.04 | 74.00 | 17.96 |
| | | 11000.68 | V | X | AV | 32.74 | 12.53 | N/A | N/A | 45.27 | 54.00 | 8.73 |
| | 116 (5580 MHz) | 11159.08 | V | X | PK | 43.53 | 12.67 | N/A | N/A | 56.20 | 74.00 | 17.80 |
| | | 11158.50 | V | X | AV | 33.49 | 12.67 | N/A | N/A | 46.16 | 54.00 | 7.84 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | 144 (5720 MHz) | 11439.91 | V | X | PK | 44.41 | 12.89 | N/A | N/A | 57.30 | 74.00 | 16.70 |
| | | 11439.24 | V | X | AV | 33.40 | 12.89 | N/A | N/A | 46.29 | 54.00 | 7.71 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| U-NII 3 | 149 (5745 MHz) | 5711.94 | H | X | PK | 45.26 | 6.93 | N/A | N/A | 52.19 | 68.20 | 16.01 |
| | | 5724.04 | H | X | PK | 57.41 | 7.13 | N/A | N/A | 64.54 | 78.20 | 13.66 |
| | | 11488.20 | V | X | PK | 44.04 | 12.94 | N/A | N/A | 56.98 | 74.00 | 17.02 |
| | | 11488.34 | V | X | AV | 33.27 | 12.94 | N/A | N/A | 46.21 | 54.00 | 7.79 |
| | 157 (5785 MHz) | 11568.32 | V | X | PK | 44.39 | 12.99 | N/A | N/A | 57.38 | 74.00 | 16.62 |
| | | 11568.32 | V | X | AV | 33.91 | 12.99 | N/A | N/A | 46.90 | 54.00 | 7.10 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | 165 (5825 MHz) | 5850.11 | H | X | PK | 51.01 | 7.46 | N/A | N/A | 58.47 | 78.20 | 19.73 |
| | | 5861.80 | H | X | PK | 46.59 | 7.50 | N/A | N/A | 54.09 | 68.20 | 14.11 |
| | | 11650.34 | V | X | PK | 43.80 | 13.05 | N/A | N/A | 56.85 | 74.00 | 17.15 |
| | | 11650.54 | V | X | AV | 33.65 | 13.05 | N/A | N/A | 46.70 | 54.00 | 7.30 |

**Note.**

1. No other spurious and harmonic emissions were found greater than listed emissions on above table.
2. Sample Calculation.
   Margin = Limit – Result / Result = Reading + T.F+ DCCF + DCF / T.F = AF + CL – AG
   Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain,
   DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor
3. Measurement Distance = 3 m for below 18 GHz, Measurement Distance = 1 m for above 18 GHz.
   Therefore Distance Correction Factor(DCF) : - 9.54 dB = 20*log(1m/3m)
4. The limit is converted to field strength.
   E[dBuV/m] = EIRP[dBm] + 95.2 dB = -27 dBm + 95.2 = 68.2 dBuV/m

**Radiated Spurious Emissions data(9 kHz ~ 40 GHz) : *MIMO(CCD) & 802.11n(HT40)***

| Band | Tested Channel | Freq. (MHz) | ANT Pol | EUT Position (Axis) | Detector Mode | Reading (dBuV) | T.F (dB/m) | DCCF (dB) | DCF (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| U-NII 1 | 38 (5190 MHz) | 5149.64 | H | Y | PK | 50.07 | 6.49 | N/A | N/A | 56.56 | 74.00 | 17.44 |
| | | 5149.52 | H | Y | AV | 41.31 | 6.49 | 0.13 | N/A | 47.93 | 54.00 | 6.07 |
| | | 10379.36 | H | Z | PK | 44.25 | 10.72 | N/A | N/A | 54.97 | 68.20 | 13.23 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | 46 (5230 MHz) | 10458.95 | H | Z | PK | 44.22 | 10.90 | N/A | N/A | 55.12 | 68.20 | 13.08 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | | - | - | - | - | - | - | - | - | - | - | - |
| U-NII 2A | 54 (5270 MHz) | 10542.44 | H | Z | PK | 44.89 | 11.12 | N/A | N/A | 56.01 | 68.20 | 12.19 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | 62 (5310 MHz) | 5350.16 | H | Y | PK | 47.87 | 6.61 | N/A | N/A | 54.48 | 74.00 | 19.52 |
| | | 5350.23 | H | Y | AV | 39.53 | 6.61 | 0.13 | N/A | 46.27 | 54.00 | 7.73 |
| | | 10618.89 | H | Z | PK | 44.93 | 11.36 | N/A | N/A | 56.29 | 74.00 | 17.71 |
| | | 10619.31 | H | Z | AV | 32.99 | 11.36 | 0.13 | N/A | 44.48 | 54.00 | 9.52 |

**Radiated Spurious Emissions data(9 kHz ~ 40 GHz) : *MIMO(CCD) & 802.11n(HT40)& With Wireless charging pad***

| Band | Tested Channel | Freq. (MHz) | ANT Pol | EUT Position (Axis) | Detector Mode | Reading (dBuV) | T.F (dB/m) | DCCF (dB) | DCF (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| U-NII 1 | 38 (5190 MHz) | 5149.99 | H | X | PK | 49.77 | 6.49 | N/A | N/A | 56.26 | 74.00 | 17.74 |
| | | 5149.91 | H | X | AV | 39.51 | 6.49 | 0.13 | N/A | 46.13 | 54.00 | 7.87 |
| | | 10382.98 | V | X | PK | 44.09 | 10.72 | N/A | N/A | 54.81 | 68.20 | 13.39 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | 46 (5230 MHz) | 10459.10 | V | X | PK | 44.37 | 10.90 | N/A | N/A | 55.27 | 68.20 | 12.93 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| U-NII 2A | 54 (5270 MHz) | 10541.95 | V | X | PK | 44.49 | 11.12 | N/A | N/A | 55.61 | 68.20 | 12.59 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | 62 (5310 MHz) | 5354.54 | H | X | PK | 48.62 | 6.61 | N/A | N/A | 55.23 | 74.00 | 18.77 |
| | | 5354.00 | H | X | AV | 37.89 | 6.61 | 0.13 | N/A | 44.63 | 54.00 | 9.37 |
| | | 10621.55 | V | X | PK | 44.46 | 11.36 | N/A | N/A | 55.82 | 74.00 | 18.18 |
| | | 10621.64 | V | X | AV | 33.18 | 11.36 | 0.13 | N/A | 44.67 | 54.00 | 9.33 |

**Note.**

1. No other spurious and harmonic emissions were found greater than listed emissions on above table.
2. Sample Calculation.
   Margin = Limit – Result / Result = Reading + T.F+ DCCF + DCF / T.F = AF + CL – AG
   Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain,
   DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor
3. Measurement Distance = 3 m for below 18 GHz, Measurement Distance = 1 m for above 18 GHz.
   Therefore Distance Correction Factor(DCF) : - 9.54 dB = 20*log(1m/3m)
4. The limit is converted to field strength.
   E[dBuV/m] = EIRP[dBm] + 95.2 dB = -27 dBm + 95.2 = 68.2 dBuV/m

**Radiated Spurious Emissions data(9 kHz ~ 40 GHz) : *MIMO(CCD) & 802.11n(HT40)***

| Band | Tested Channel | Freq. (MHz) | ANT Pol | EUT Position (Axis) | Detector Mode | Reading (dBuV) | T.F (dB/m) | DCCF (dB) | DCF (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| U-NII 2C | 102 (5510 MHz) | 5458.48 | H | Y | PK | 47.69 | 6.64 | N/A | N/A | 54.33 | 74.00 | 19.67 |
| | | 5458.92 | H | Y | AV | 37.73 | 6.64 | 0.13 | N/A | 44.50 | 54.00 | 9.50 |
| | | 5469.68 | H | Y | PK | 49.44 | 6.66 | N/A | N/A | 56.10 | 68.20 | 12.10 |
| | | 11020.79 | H | Z | PK | 43.87 | 12.56 | N/A | N/A | 56.43 | 74.00 | 17.57 |
| | | 11020.55 | H | Z | AV | 33.04 | 12.56 | 0.13 | N/A | 45.73 | 54.00 | 8.27 |
| | 110 (5550 MHz) | 11098.94 | H | Z | PK | 44.04 | 12.62 | N/A | N/A | 56.66 | 74.00 | 17.34 |
| | | 11098.58 | H | Z | AV | 33.27 | 12.62 | 0.13 | N/A | 46.02 | 54.00 | 7.98 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | 142 (5710 MHz) | 11420.59 | H | Z | PK | 43.33 | 12.81 | N/A | N/A | 56.14 | 74.00 | 17.86 |
| | | 11419.92 | H | Z | AV | 33.21 | 12.81 | 0.13 | N/A | 46.15 | 54.00 | 7.85 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| U-NII 3 | 151 (5755 MHz) | 5715.00 | H | Y | PK | 55.31 | 6.93 | N/A | N/A | 62.24 | 68.20 | 5.96 |
| | | 5724.37 | H | Y | PK | 63.56 | 7.13 | N/A | N/A | 70.69 | 78.20 | 7.51 |
| | | 11508.92 | H | Z | PK | 44.16 | 12.95 | N/A | N/A | 57.11 | 74.00 | 16.89 |
| | | 11509.00 | H | Z | AV | 33.50 | 12.95 | 0.13 | N/A | 46.58 | 54.00 | 7.42 |
| | 159 (5795 MHz) | 5851.24 | H | Y | PK | 47.15 | 7.46 | N/A | N/A | 54.61 | 78.20 | 23.59 |
| | | 5861.78 | H | Y | PK | 45.81 | 7.50 | N/A | N/A | 53.31 | 68.20 | 14.89 |
| | | 11590.26 | H | Z | PK | 44.24 | 13.01 | N/A | N/A | 57.25 | 74.00 | 16.75 |
| | | 11589.77 | H | Z | AV | 33.85 | 13.01 | 0.13 | N/A | 46.99 | 54.00 | 7.01 |

**Note.**

1. No other spurious and harmonic emissions were found greater than listed emissions on above table.
2. Sample Calculation.
   Margin = Limit – Result / Result = Reading + T.F+ DCCF + DCF / T.F = AF + CL – AG
   Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain,
   DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor
3. Measurement Distance = 3 m for below 18 GHz, Measurement Distance = 1 m for above 18 GHz.
   Therefore Distance Correction Factor(DCF) : - 9.54 dB = 20*log(1m/3m)
4. The limit is converted to field strength.
   E[dBuV/m] = EIRP[dBm] + 95.2 dB = -27 dBm + 95.2 = 68.2 dBuV/m

**Radiated Spurious Emissions data(9 kHz ~ 40 GHz) : *MIMO(CCD) & 802.11n(HT40)& With Wireless charging pad***

| Band | Tested Channel | Freq. (MHz) | ANT Pol | EUT Position (Axis) | Detector Mode | Reading (dBuV) | T.F (dB/m) | DCCF (dB) | DCF (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| U-NII 2C | 102 (5510 MHz) | 5458.84 | H | X | PK | 45.53 | 6.64 | N/A | N/A | 52.17 | 74.00 | 21.83 |
| | | 5458.69 | H | X | AV | 36.91 | 6.64 | 0.13 | N/A | 43.68 | 54.00 | 10.32 |
| | | 5469.09 | H | X | PK | 45.97 | 6.66 | N/A | N/A | 52.63 | 68.20 | 15.57 |
| | | 11018.40 | V | X | PK | 44.81 | 12.56 | N/A | N/A | 57.37 | 74.00 | 16.63 |
| | | 11018.24 | V | X | AV | 33.03 | 12.56 | 0.13 | N/A | 45.72 | 54.00 | 8.28 |
| | 110 (5550 MHz) | 11099.16 | V | X | PK | 44.11 | 12.62 | N/A | N/A | 56.73 | 74.00 | 17.27 |
| | | 11099.42 | V | X | AV | 33.18 | 12.62 | 0.13 | N/A | 45.93 | 54.00 | 8.07 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | 142 (5710 MHz) | 11418.57 | V | X | PK | 43.79 | 12.81 | N/A | N/A | 56.60 | 74.00 | 17.40 |
| | | 11418.66 | V | X | AV | 33.28 | 12.81 | 0.13 | N/A | 46.22 | 54.00 | 7.78 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| U-NII 3 | 151 (5755 MHz) | 5713.99 | H | X | PK | 54.21 | 6.93 | N/A | N/A | 61.14 | 68.20 | 7.06 |
| | | 5724.08 | H | X | PK | 61.27 | 7.13 | N/A | N/A | 68.40 | 78.20 | 9.80 |
| | | 11509.53 | V | X | PK | 44.50 | 12.95 | N/A | N/A | 57.45 | 74.00 | 16.55 |
| | | 11509.54 | V | X | AV | 33.68 | 12.95 | 0.13 | N/A | 46.76 | 54.00 | 7.24 |
| | 159 (5795 MHz) | 5851.35 | H | X | PK | 46.05 | 7.46 | N/A | N/A | 53.51 | 78.20 | 24.69 |
| | | 5863.59 | H | X | PK | 46.07 | 7.50 | N/A | N/A | 53.57 | 68.20 | 14.63 |
| | | 11588.83 | V | X | PK | 44.22 | 13.01 | N/A | N/A | 57.23 | 74.00 | 16.77 |
| | | 11589.16 | V | X | AV | 33.70 | 13.01 | 0.13 | N/A | 46.84 | 54.00 | 7.16 |

**Note.**

1. No other spurious and harmonic emissions were found greater than listed emissions on above table.
2. Sample Calculation.
   Margin = Limit – Result / Result = Reading + T.F+ DCCF + DCF / T.F = AF + CL – AG
   Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain,
   DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor
3. Measurement Distance = 3 m for below 18 GHz, Measurement Distance = 1 m for above 18 GHz.
   Therefore Distance Correction Factor(DCF) : - 9.54 dB = 20*log(1m/3m)
4. The limit is converted to field strength.
   E[dBuV/m] = EIRP[dBm] + 95.2 dB = -27 dBm + 95.2 = 68.2 dBuV/m

**Radiated Spurious Emissions data(9 kHz ~ 40 GHz) : *MIMO(CCD) & 802.11ac(VHT80)***

| Band | Tested Channel | Freq. (MHz) | ANT Pol | EUT Position (Axis) | Detector Mode | Reading (dBuV) | T.F (dB/m) | DCCF (dB) | DCF (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| U-NII 1 | 42 (5210 MHz) | 5148.73 | H | Y | PK | 50.28 | 6.49 | N/A | N/A | 56.77 | 74.00 | 17.23 |
| | | 5148.63 | H | Y | AV | 40.00 | 6.49 | 0.14 | N/A | 46.63 | 54.00 | 7.37 |
| | | 10422.35 | H | Z | PK | 44.27 | 10.80 | N/A | N/A | 55.07 | 68.20 | 13.13 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| U-NII 2A | 58 (5290 MHz) | 5350.34 | H | Y | PK | 51.58 | 6.61 | N/A | N/A | 58.19 | 74.00 | 15.81 |
| | | 5350.09 | H | Y | AV | 42.31 | 6.61 | 0.14 | N/A | 49.06 | 54.00 | 4.94 |
| | | 10581.38 | H | Z | PK | 43.37 | 11.23 | N/A | N/A | 54.60 | 68.20 | 13.60 |
| | | - | - | - | - | - | - | - | - | - | - | - |

**Radiated Spurious Emissions data(9 kHz ~ 40 GHz) : *MIMO(CCD) & 802.11ac(VHT80)& With Wireless charging pad***

| Band | Tested Channel | Freq. (MHz) | ANT Pol | EUT Position (Axis) | Detector Mode | Reading (dBuV) | T.F (dB/m) | DCCF (dB) | DCF (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| U-NII 1 | 42 (5210 MHz) | 5147.23 | H | X | PK | 49.75 | 6.49 | N/A | N/A | 56.24 | 74.00 | 17.76 |
| | | 5147.93 | H | X | AV | 40.51 | 6.49 | 0.14 | N/A | 47.14 | 54.00 | 6.86 |
| | | 10418.67 | V | X | PK | 44.34 | 10.80 | N/A | N/A | 55.14 | 68.20 | 13.06 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| U-NII 2A | 58 (5290 MHz) | 5358.68 | H | X | PK | 50.84 | 6.61 | N/A | N/A | 57.45 | 74.00 | 16.55 |
| | | 5358.64 | H | X | AV | 42.03 | 6.61 | 0.14 | N/A | 48.78 | 54.00 | 5.22 |
| | | 10580.43 | V | X | PK | 44.47 | 11.23 | N/A | N/A | 55.70 | 68.20 | 12.50 |
| | | - | - | - | - | - | - | - | - | - | - | - |

**Note.**

1. No other spurious and harmonic emissions were found greater than listed emissions on above table.
2. Sample Calculation.
   Margin = Limit – Result / Result = Reading + T.F+ DCCF + DCF / T.F = AF + CL – AG
   Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain,
   DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor
3. Measurement Distance = 3 m for below 18 GHz, Measurement Distance = 1 m for above 18 GHz.
   Therefore Distance Correction Factor(DCF) : - 9.54 dB = 20*log(1m/3m)
4. The limit is converted to field strength.
   E[dBuV/m] = EIRP[dBm] + 95.2 dB = -27 dBm + 95.2 = 68.2 dBuV/m

**Radiated Spurious Emissions data(9 kHz ~ 40 GHz) : *MIMO(CCD) & 802.11ac(VHT80)***

| Band | Tested Channel | Freq. (MHz) | ANT Pol | EUT Position (Axis) | Detector Mode | Reading (dBuV) | T.F (dB/m) | DCCF (dB) | DCF (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| U-NII 2C | 106 (5530 MHz) | 5458.62 | H | Y | PK | 49.14 | 6.64 | N/A | N/A | 55.78 | 74.00 | 18.22 |
| | | 5460.00 | H | Y | AV | 39.97 | 6.64 | 0.14 | N/A | 46.75 | 54.00 | 7.25 |
| | | 5467.41 | H | Y | PK | 51.23 | 6.66 | N/A | N/A | 57.89 | 68.20 | 10.31 |
| | | 11059.39 | H | Z | PK | 44.09 | 12.59 | N/A | N/A | 56.68 | 74.00 | 17.32 |
| | | 11060.06 | H | Z | AV | 33.41 | 12.59 | 0.14 | N/A | 46.14 | 54.00 | 7.86 |
| | 138 (5690 MHz) | 11378.80 | H | Z | PK | 43.58 | 12.85 | N/A | N/A | 56.43 | 74.00 | 17.57 |
| | | 11379.20 | H | Z | AV | 33.29 | 12.85 | 0.14 | N/A | 46.28 | 54.00 | 7.72 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| U-NII 3 | 155 (5775 MHz) | 5709.76 | H | Y | PK | 56.74 | 6.93 | N/A | N/A | 63.67 | 68.20 | 4.53 |
| | | 5723.86 | H | Y | PK | 61.26 | 7.13 | N/A | N/A | 68.39 | 78.20 | 9.81 |
| | | 5850.75 | H | Y | PK | 57.74 | 7.46 | N/A | N/A | 65.20 | 78.20 | 13.00 |
| | | 5864.68 | H | Y | PK | 57.55 | 7.50 | N/A | N/A | 65.05 | 68.20 | 3.15 |
| | | 11551.29 | H | Z | PK | 43.84 | 12.97 | N/A | N/A | 56.81 | 74.00 | 17.19 |
| | | 11551.81 | H | Z | AV | 33.49 | 12.97 | 0.14 | N/A | 46.60 | 54.00 | 7.40 |

**Radiated Spurious Emissions data(9 kHz ~ 40 GHz) : *MIMO(CCD) & 802.11ac(VHT80)& With Wireless charging pad***

| Band | Tested Channel | Freq. (MHz) | ANT Pol | EUT Position (Axis) | Detector Mode | Reading (dBuV) | T.F (dB/m) | DCCF (dB) | DCF (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| U-NII 2C | 106 (5530 MHz) | 5458.70 | H | X | PK | 47.91 | 6.64 | N/A | N/A | 54.55 | 74.00 | 19.45 |
| | | 5459.41 | H | X | AV | 38.30 | 6.64 | 0.14 | N/A | 45.08 | 54.00 | 8.92 |
| | | 5461.04 | H | X | PK | 48.58 | 6.66 | N/A | N/A | 55.24 | 68.20 | 12.96 |
| | | 11060.03 | V | X | PK | 45.04 | 12.59 | N/A | N/A | 57.63 | 74.00 | 16.37 |
| | | 11061.01 | V | X | AV | 33.51 | 12.59 | 0.14 | N/A | 46.24 | 54.00 | 7.76 |
| | 138 (5690 MHz) | 11381.41 | V | X | PK | 43.74 | 12.85 | N/A | N/A | 56.59 | 74.00 | 17.41 |
| | | 11381.98 | V | X | AV | 33.33 | 12.85 | 0.14 | N/A | 46.32 | 54.00 | 7.68 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| U-NII 3 | 155 (5775 MHz) | 5712.78 | H | X | PK | 56.37 | 6.93 | N/A | N/A | 63.30 | 68.20 | 4.90 |
| | | 5720.05 | H | X | PK | 59.24 | 7.13 | N/A | N/A | 66.37 | 78.20 | 11.83 |
| | | 5850.30 | H | X | PK | 55.70 | 7.46 | N/A | N/A | 63.16 | 78.20 | 15.04 |
| | | 5862.62 | H | X | PK | 55.53 | 7.50 | N/A | N/A | 63.03 | 68.20 | 5.17 |
| | | 11550.46 | V | X | PK | 44.29 | 12.97 | N/A | N/A | 57.26 | 74.00 | 16.74 |
| | | 11550.40 | V | X | AV | 33.63 | 12.97 | 0.14 | N/A | 46.74 | 54.00 | 7.26 |

**Note.**

1. No other spurious and harmonic emissions were found greater than listed emissions on above table.
2. Sample Calculation.
   Margin = Limit – Result / Result = Reading + T.F+ DCCF + DCF / T.F = AF + CL – AG
   Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain,
   DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor
3. Measurement Distance = 3 m for below 18 GHz, Measurement Distance = 1 m for above 18 GHz.
   Therefore Distance Correction Factor(DCF) : - 9.54 dB = 20*log(1m/3m)
4. The limit is converted to field strength.
   E[dBuV/m] = EIRP[dBm] + 95.2 dB = -27 dBm + 95.2 = 68.2 dBuV/m

**Radiated Spurious Emissions data(9 kHz ~ 40 GHz) : *MIMO(SDM) & 802.11n(HT20)***

| Band | Tested Channel | Freq. (MHz) | ANT Pol | EUT Position (Axis) | Detector Mode | Reading (dBuV) | T.F (dB/m) | DCCF (dB) | DCF (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| U-NII 1 | 36 (5180 MHz) | 5148.39 | H | Y | PK | 46.78 | 6.49 | N/A | N/A | 53.27 | 74.00 | 20.73 |
| | | 5148.43 | H | Y | AV | 37.64 | 6.49 | 0.17 | N/A | 44.30 | 54.00 | 9.70 |
| | | 10361.20 | H | Z | PK | 43.97 | 10.66 | N/A | N/A | 54.63 | 68.20 | 13.57 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | 40 (5200 MHz) | 10400.51 | H | Z | PK | 45.11 | 10.76 | N/A | N/A | 55.87 | 68.20 | 12.33 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | 48 (5240 MHz) | 10481.03 | H | Z | PK | 44.19 | 10.94 | N/A | N/A | 55.13 | 68.20 | 13.07 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| U-NII 2A | 52 (5260 MHz) | 10518.80 | H | Z | PK | 44.50 | 11.04 | N/A | N/A | 55.54 | 68.20 | 12.66 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | 60 (5300 MHz) | 10600.17 | H | Z | PK | 43.43 | 11.30 | N/A | N/A | 54.73 | 74.00 | 19.27 |
| | | 10600.43 | H | Z | AV | 33.12 | 11.30 | 0.17 | N/A | 44.59 | 54.00 | 9.41 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | 64 (5320 MHz) | 5350.06 | H | Y | PK | 46.56 | 6.61 | N/A | N/A | 53.17 | 74.00 | 20.83 |
| | | 5350.00 | H | Y | AV | 38.32 | 6.61 | 0.17 | N/A | 45.10 | 54.00 | 8.90 |
| | | 10640.65 | H | Z | PK | 44.29 | 11.42 | N/A | N/A | 55.71 | 74.00 | 18.29 |
| | | 10640.97 | H | Z | AV | 33.24 | 11.42 | 0.17 | N/A | 44.83 | 54.00 | 9.17 |

**Note.**

1. No other spurious and harmonic emissions were found greater than listed emissions on above table.
2. Sample Calculation.
   Margin = Limit – Result / Result = Reading + T.F+ DCCF + DCF / T.F = AF + CL – AG
   Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain,
   DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor
3. Measurement Distance = 3 m for below 18 GHz, Measurement Distance = 1 m for above 18 GHz.
   Therefore Distance Correction Factor(DCF) : - 9.54 dB = 20*log(1m/3m)
4. The limit is converted to field strength.
   E[dBuV/m] = EIRP[dBm] + 95.2 dB = -27 dBm + 95.2 = 68.2 dBuV/m

**Radiated Spurious Emissions data(9 kHz ~ 40 GHz) : *MIMO(SDM) & 802.11n(HT20)& With Wireless charging pad***

| Band | Tested Channel | Freq. (MHz) | ANT Pol | EUT Position (Axis) | Detector Mode | Reading (dBuV) | T.F (dB/m) | DCCF (dB) | DCF (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| U-NII 1 | 36 (5180 MHz) | 5147.90 | H | X | PK | 46.11 | 6.47 | N/A | N/A | 52.58 | 74.00 | 21.42 |
| | | 5147.97 | H | X | AV | 36.22 | 6.47 | 0.17 | N/A | 42.86 | 54.00 | 11.14 |
| | | 10360.21 | V | X | PK | 43.64 | 10.66 | N/A | N/A | 54.30 | 68.20 | 13.90 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | 40 (5200 MHz) | 10400.66 | V | X | PK | 44.29 | 10.76 | N/A | N/A | 55.05 | 68.20 | 13.15 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | 48 (5240 MHz) | 10479.39 | V | X | PK | 44.59 | 10.93 | N/A | N/A | 55.52 | 68.20 | 12.68 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| U-NII 2A | 52 (5260 MHz) | 10520.06 | V | X | PK | 44.20 | 11.05 | N/A | N/A | 55.25 | 68.20 | 12.95 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | 60 (5300 MHz) | 10602.73 | V | X | PK | 44.42 | 11.30 | N/A | N/A | 55.72 | 74.00 | 18.28 |
| | | 10602.59 | V | X | AV | 32.75 | 11.30 | 0.17 | N/A | 44.22 | 54.00 | 9.78 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | 64 (5320 MHz) | 5359.81 | H | X | PK | 47.59 | 6.61 | N/A | N/A | 54.20 | 74.00 | 19.80 |
| | | 5360.44 | H | X | AV | 38.09 | 6.61 | 0.17 | N/A | 44.87 | 54.00 | 9.13 |
| | | 10640.21 | V | X | PK | 44.62 | 11.42 | N/A | N/A | 56.04 | 74.00 | 17.96 |
| | | 10640.32 | V | X | AV | 33.32 | 11.42 | 0.17 | N/A | 44.91 | 54.00 | 9.09 |

**Note.**

1. No other spurious and harmonic emissions were found greater than listed emissions on above table.
2. Sample Calculation.
   Margin = Limit – Result / Result = Reading + T.F+ DCCF + DCF / T.F = AF + CL – AG
   Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain,
   DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor
3. Measurement Distance = 3 m for below 18 GHz, Measurement Distance = 1 m for above 18 GHz.
   Therefore Distance Correction Factor(DCF) : - 9.54 dB = 20*log(1m/3m)
4. The limit is converted to field strength.
   E[dBuV/m] = EIRP[dBm] + 95.2 dB = -27 dBm + 95.2 = 68.2 dBuV/m

**Radiated Spurious Emissions data(9 kHz ~ 40 GHz) : *MIMO(SDM) & 802.11n(HT20)***

| Band | Tested Channel | Freq. (MHz) | ANT Pol | EUT Position (Axis) | Detector Mode | Reading (dBuV) | T.F (dB/m) | DCCF (dB) | DCF (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| U-NII 2C | 100 (5500 MHz) | 5459.09 | H | Y | PK | 46.83 | 6.64 | N/A | N/A | 53.47 | 74.00 | 20.53 |
| | | 5458.99 | H | Y | AV | 37.53 | 6.64 | 0.17 | N/A | 44.34 | 54.00 | 9.66 |
| | | 5467.95 | H | Y | PK | 48.05 | 6.66 | N/A | N/A | 54.71 | 68.20 | 13.49 |
| | | 10999.32 | H | Z | PK | 43.76 | 12.54 | N/A | N/A | 56.30 | 74.00 | 17.70 |
| | | 10999.42 | H | Z | AV | 32.89 | 12.54 | 0.17 | N/A | 45.60 | 54.00 | 8.40 |
| | 116 (5580 MHz) | 11160.20 | H | Z | PK | 44.02 | 12.67 | N/A | N/A | 56.69 | 74.00 | 17.31 |
| | | 11160.03 | H | Z | AV | 33.36 | 12.67 | 0.17 | N/A | 46.20 | 54.00 | 7.80 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | 144 (5720 MHz) | 11438.60 | H | Z | PK | 44.00 | 12.89 | N/A | N/A | 56.89 | 74.00 | 17.11 |
| | | 11439.37 | H | Z | AV | 33.24 | 12.89 | 0.17 | N/A | 46.30 | 54.00 | 7.70 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| U-NII 3 | 149 (5745 MHz) | 5710.72 | H | Y | PK | 45.75 | 6.93 | N/A | N/A | 52.68 | 68.20 | 15.52 |
| | | 5724.54 | H | Y | PK | 56.15 | 7.13 | N/A | N/A | 63.28 | 78.20 | 14.92 |
| | | 11491.60 | H | Z | PK | 44.25 | 12.94 | N/A | N/A | 57.19 | 74.00 | 16.81 |
| | | 11490.76 | H | Z | AV | 33.41 | 12.94 | 0.17 | N/A | 46.52 | 54.00 | 7.48 |
| | 157 (5785 MHz) | 11571.81 | H | Z | PK | 44.83 | 12.99 | N/A | N/A | 57.82 | 74.00 | 16.18 |
| | | 11571.30 | H | Z | AV | 33.61 | 12.99 | 0.17 | N/A | 46.77 | 54.00 | 7.23 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | 165 (5825 MHz) | 5850.39 | H | Y | PK | 54.99 | 7.46 | N/A | N/A | 62.45 | 78.20 | 15.75 |
| | | 5861.07 | H | Y | PK | 44.65 | 7.50 | N/A | N/A | 52.15 | 68.20 | 16.05 |
| | | 11650.68 | H | Z | PK | 44.82 | 13.05 | N/A | N/A | 57.87 | 74.00 | 16.13 |
| | | 11651.07 | H | Z | AV | 33.77 | 13.05 | 0.17 | N/A | 46.99 | 54.00 | 7.01 |

**Note.**

1. No other spurious and harmonic emissions were found greater than listed emissions on above table.
2. Sample Calculation.
   Margin = Limit – Result / Result = Reading + T.F+ DCCF + DCF / T.F = AF + CL – AG
   Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain,
   DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor
3. Measurement Distance = 3 m for below 18 GHz, Measurement Distance = 1 m for above 18 GHz.
   Therefore Distance Correction Factor(DCF) : - 9.54 dB = 20*log(1m/3m)
4. The limit is converted to field strength.
   E[dBuV/m] = EIRP[dBm] + 95.2 dB = -27 dBm + 95.2 = 68.2 dBuV/m

**Radiated Spurious Emissions data(9 kHz ~ 40 GHz) : *MIMO(SDM) & 802.11n(HT20)& With Wireless charging pad***

| Band | Tested Channel | Freq. (MHz) | ANT Pol | EUT Position (Axis) | Detector Mode | Reading (dBuV) | T.F (dB/m) | DCCF (dB) | DCF (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| U-NII 2C | 100 (5500 MHz) | 5457.71 | H | X | PK | 46.42 | 6.64 | N/A | N/A | 53.06 | 74.00 | 20.94 |
| | | 5457.94 | H | X | AV | 36.10 | 6.64 | 0.17 | N/A | 42.91 | 54.00 | 11.09 |
| | | 5469.49 | H | X | PK | 46.68 | 6.66 | N/A | N/A | 53.34 | 68.20 | 14.86 |
| | | 11000.46 | V | X | PK | 44.74 | 12.53 | N/A | N/A | 57.27 | 74.00 | 16.73 |
| | | 11001.00 | V | X | AV | 33.04 | 12.53 | 0.17 | N/A | 45.74 | 54.00 | 8.26 |
| | 116 (5580 MHz) | 11160.20 | V | X | PK | 44.00 | 12.67 | N/A | N/A | 56.67 | 74.00 | 17.33 |
| | | 11160.79 | V | X | AV | 33.44 | 12.67 | 0.17 | N/A | 46.28 | 54.00 | 7.72 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | 144 (5720 MHz) | 11440.65 | V | X | PK | 43.90 | 12.89 | N/A | N/A | 56.79 | 74.00 | 17.21 |
| | | 11439.94 | V | X | AV | 33.57 | 12.89 | 0.17 | N/A | 46.63 | 54.00 | 7.37 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| U-NII 3 | 149 (5745 MHz) | 5711.30 | H | X | PK | 44.63 | 6.93 | N/A | N/A | 51.56 | 68.20 | 16.64 |
| | | 5724.51 | H | X | PK | 54.05 | 7.13 | N/A | N/A | 61.18 | 78.20 | 17.02 |
| | | 11490.36 | V | X | PK | 43.77 | 12.94 | N/A | N/A | 56.71 | 74.00 | 17.29 |
| | | 11489.60 | V | X | AV | 33.54 | 12.94 | 0.17 | N/A | 46.65 | 54.00 | 7.35 |
| | 157 (5785 MHz) | 11571.20 | V | X | PK | 44.17 | 12.99 | N/A | N/A | 57.16 | 74.00 | 16.84 |
| | | 11570.90 | V | X | AV | 33.57 | 12.99 | 0.17 | N/A | 46.73 | 54.00 | 7.27 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | 165 (5825 MHz) | 5850.03 | H | X | PK | 53.69 | 7.46 | N/A | N/A | 61.15 | 78.20 | 17.05 |
| | | 5861.52 | H | X | PK | 45.65 | 7.50 | N/A | N/A | 53.15 | 68.20 | 15.05 |
| | | 11649.96 | V | X | PK | 44.51 | 13.05 | N/A | N/A | 57.56 | 74.00 | 16.44 |
| | | 11650.48 | V | X | AV | 33.60 | 13.05 | 0.17 | N/A | 46.82 | 54.00 | 7.18 |

**Note.**

1. No other spurious and harmonic emissions were found greater than listed emissions on above table.
2. Sample Calculation.
   Margin = Limit – Result / Result = Reading + T.F+ DCCF + DCF / T.F = AF + CL – AG
   Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain,
   DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor
3. Measurement Distance = 3 m for below 18 GHz, Measurement Distance = 1 m for above 18 GHz.
   Therefore Distance Correction Factor(DCF) : - 9.54 dB = 20*log(1m/3m)
4. The limit is converted to field strength.
   E[dBuV/m] = EIRP[dBm] + 95.2 dB = -27 dBm + 95.2 = 68.2 dBuV/m

**Radiated Spurious Emissions data(9 kHz ~ 40 GHz) : *MIMO(SDM) & 802.11n(HT40)***

| Band | Tested Channel | Freq. (MHz) | ANT Pol | EUT Position (Axis) | Detector Mode | Reading (dBuV) | T.F (dB/m) | DCCF (dB) | DCF (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| U-NII 1 | 38 (5190 MHz) | 5149.77 | H | Y | PK | 50.09 | 6.49 | N/A | N/A | 56.58 | 74.00 | 17.42 |
| | | 5149.94 | H | Y | AV | 39.96 | 6.49 | 0.24 | N/A | 46.69 | 54.00 | 7.31 |
| | | 10382.10 | H | Z | PK | 43.37 | 10.72 | N/A | N/A | 54.09 | 68.20 | 14.11 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | 46 (5230 MHz) | 10459.54 | H | Z | PK | 44.26 | 10.89 | N/A | N/A | 55.15 | 68.20 | 13.05 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | | - | - | - | - | - | - | - | - | - | - | - |
| U-NII 2A | 54 (5270 MHz) | 10538.31 | H | Z | PK | 44.62 | 11.13 | N/A | N/A | 55.75 | 68.20 | 12.45 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | 62 (5310 MHz) | 5350.00 | H | Y | PK | 49.67 | 6.61 | N/A | N/A | 56.28 | 74.00 | 17.72 |
| | | 5350.03 | H | Y | AV | 40.19 | 6.61 | 0.24 | N/A | 47.04 | 54.00 | 6.96 |
| | | 10618.54 | H | Z | PK | 44.25 | 11.36 | N/A | N/A | 55.61 | 74.00 | 18.39 |
| | | 10618.33 | H | Z | AV | 32.93 | 11.36 | 0.24 | N/A | 44.53 | 54.00 | 9.47 |

**Radiated Spurious Emissions data(9 kHz ~ 40 GHz) : *MIMO(SDM) & 802.11n(HT40)& With Wireless charging pad***

| Band | Tested Channel | Freq. (MHz) | ANT Pol | EUT Position (Axis) | Detector Mode | Reading (dBuV) | T.F (dB/m) | DCCF (dB) | DCF (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| U-NII 1 | 38 (5190 MHz) | 5149.91 | H | X | PK | 46.92 | 6.49 | N/A | N/A | 53.41 | 74.00 | 20.59 |
| | | 5149.99 | H | X | AV | 38.72 | 6.49 | 0.24 | N/A | 45.45 | 54.00 | 8.55 |
| | | 10381.84 | V | X | PK | 43.63 | 10.72 | N/A | N/A | 54.35 | 68.20 | 13.85 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | 46 (5230 MHz) | 10459.03 | V | X | PK | 44.62 | 10.89 | N/A | N/A | 55.51 | 68.20 | 12.69 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| U-NII 2A | 54 (5270 MHz) | 10539.90 | V | X | PK | 44.24 | 11.13 | N/A | N/A | 55.37 | 68.20 | 12.83 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | 62 (5310 MHz) | 5350.87 | H | X | PK | 47.35 | 6.61 | N/A | N/A | 53.96 | 74.00 | 20.04 |
| | | 5351.14 | H | X | AV | 38.34 | 6.61 | 0.24 | N/A | 45.19 | 54.00 | 8.81 |
| | | 10620.68 | V | X | PK | 44.40 | 11.36 | N/A | N/A | 55.76 | 74.00 | 18.24 |
| | | 10621.61 | V | X | AV | 33.15 | 11.36 | 0.24 | N/A | 44.75 | 54.00 | 9.25 |

**Note.**

1. No other spurious and harmonic emissions were found greater than listed emissions on above table.
2. Sample Calculation.
   Margin = Limit – Result / Result = Reading + T.F+ DCCF + DCF / T.F = AF + CL – AG
   Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain,
   DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor
3. Measurement Distance = 3 m for below 18 GHz, Measurement Distance = 1 m for above 18 GHz.
   Therefore Distance Correction Factor(DCF) : - 9.54 dB = 20*log(1m/3m)
4. The limit is converted to field strength.
   E[dBuV/m] = EIRP[dBm] + 95.2 dB = -27 dBm + 95.2 = 68.2 dBuV/m

**Radiated Spurious Emissions data(9 kHz ~ 40 GHz) : *MIMO(SDM) & 802.11n(HT40)***

| Band | Tested Channel | Freq. (MHz) | ANT Pol | EUT Position (Axis) | Detector Mode | Reading (dBuV) | T.F (dB/m) | DCCF (dB) | DCF (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| U-NII 2C | 102 (5510 MHz) | 5459.85 | H | Y | PK | 47.10 | 6.64 | N/A | N/A | 53.74 | 74.00 | 20.26 |
| | | 5459.02 | H | Y | AV | 37.21 | 6.64 | 0.24 | N/A | 44.09 | 54.00 | 9.91 |
| | | 5468.21 | H | Y | PK | 51.56 | 6.66 | N/A | N/A | 58.22 | 68.20 | 9.98 |
| | | 11021.25 | H | Z | PK | 43.64 | 12.70 | N/A | N/A | 56.34 | 74.00 | 17.66 |
| | | 11020.74 | H | Z | AV | 33.28 | 12.70 | 0.24 | N/A | 46.22 | 54.00 | 7.78 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | 110 (5550 MHz) | 11098.25 | H | Z | PK | 44.23 | 12.62 | N/A | N/A | 56.85 | 74.00 | 11098.25 |
| | | 11097.82 | H | Z | AV | 33.43 | 12.62 | 0.24 | N/A | 46.29 | 54.00 | 11097.82 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | 142 (5710 MHz) | 11420.90 | H | Z | PK | 43.58 | 12.88 | N/A | N/A | 56.46 | 74.00 | 17.54 |
| | | 11420.65 | H | Z | AV | 33.46 | 12.88 | 0.24 | N/A | 46.58 | 54.00 | 7.42 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| U-NII 3 | 151 (5755 MHz) | 5714.67 | H | Y | PK | 57.12 | 6.93 | N/A | N/A | 64.05 | 68.20 | 4.15 |
| | | 5724.92 | H | Y | PK | 60.83 | 7.13 | N/A | N/A | 67.96 | 78.20 | 10.24 |
| | | 11510.32 | H | Z | PK | 43.86 | 12.95 | N/A | N/A | 56.81 | 74.00 | 17.19 |
| | | 11511.21 | H | Z | AV | 33.42 | 12.95 | 0.24 | N/A | 46.61 | 54.00 | 7.39 |
| | 159 (5795 MHz) | 5850.11 | H | Y | PK | 44.71 | 7.46 | N/A | N/A | 52.17 | 78.20 | 26.03 |
| | | 5861.29 | H | Y | PK | 45.01 | 7.50 | N/A | N/A | 52.51 | 68.20 | 15.69 |
| | | 11589.84 | H | Z | PK | 44.01 | 13.01 | N/A | N/A | 57.02 | 74.00 | 16.98 |
| | | 11589.22 | H | Z | AV | 33.66 | 13.01 | 0.24 | N/A | 46.91 | 54.00 | 7.09 |

**Note.**

1. No other spurious and harmonic emissions were found greater than listed emissions on above table.
2. Sample Calculation.
   Margin = Limit – Result / Result = Reading + T.F+ DCCF + DCF / T.F = AF + CL – AG
   Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain,
   DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor
3. Measurement Distance = 3 m for below 18 GHz, Measurement Distance = 1 m for above 18 GHz.
   Therefore Distance Correction Factor(DCF) : - 9.54 dB = 20*log(1m/3m)
4. The limit is converted to field strength.
   E[dBuV/m] = EIRP[dBm] + 95.2 dB = -27 dBm + 95.2 = 68.2 dBuV/m

**Radiated Spurious Emissions data(9 kHz ~ 40 GHz) : *MIMO(SDM) & 802.11n(HT40)& With Wireless charging pad***

| Band | Tested Channel | Freq. (MHz) | ANT Pol | EUT Position (Axis) | Detector Mode | Reading (dBuV) | T.F (dB/m) | DCCF (dB) | DCF (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| U-NII 2C | 102 (5510 MHz) | 5458.84 | H | X | PK | 46.10 | 6.64 | N/A | N/A | 52.74 | 74.00 | 21.26 |
| | | 5458.66 | H | X | AV | 36.83 | 6.64 | 0.24 | N/A | 43.71 | 54.00 | 10.29 |
| | | 5469.38 | H | X | PK | 46.92 | 6.66 | N/A | N/A | 53.58 | 68.20 | 14.62 |
| | | 11019.57 | V | X | PK | 43.81 | 12.70 | N/A | N/A | 56.51 | 74.00 | 17.49 |
| | | 11019.65 | V | X | AV | 33.10 | 12.70 | 0.24 | N/A | 46.04 | 54.00 | 7.96 |
| | 110 (5550 MHz) | 11101.82 | V | X | PK | 44.30 | 12.62 | N/A | N/A | 56.92 | 74.00 | 17.08 |
| | | 11102.02 | V | X | AV | 32.98 | 12.62 | 0.24 | N/A | 45.84 | 54.00 | 8.16 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| | 142 (5710 MHz) | 11419.75 | V | X | PK | 44.95 | 12.88 | N/A | N/A | 57.83 | 74.00 | 16.17 |
| | | 11420.40 | V | X | AV | 33.27 | 12.88 | 0.24 | N/A | 46.39 | 54.00 | 7.61 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| U-NII 3 | 151 (5755 MHz) | 5714.88 | H | X | PK | 55.87 | 6.93 | N/A | N/A | 62.80 | 68.20 | 5.40 |
| | | 5723.41 | H | X | PK | 58.70 | 7.13 | N/A | N/A | 65.83 | 78.20 | 12.37 |
| | | 11508.09 | V | X | PK | 44.14 | 12.95 | N/A | N/A | 57.09 | 74.00 | 16.91 |
| | | 11507.90 | V | X | AV | 33.83 | 12.95 | 0.24 | N/A | 47.02 | 54.00 | 6.98 |
| | 159 (5795 MHz) | 5855.22 | H | X | PK | 46.03 | 7.46 | N/A | N/A | 53.49 | 78.20 | 24.71 |
| | | 5864.49 | H | X | PK | 45.56 | 7.50 | N/A | N/A | 53.06 | 68.20 | 15.14 |
| | | 11588.83 | V | X | PK | 44.45 | 13.01 | N/A | N/A | 57.46 | 74.00 | 16.54 |
| | | 11588.19 | V | X | AV | 33.76 | 13.01 | 0.24 | N/A | 47.01 | 54.00 | 6.99 |

**Note.**

1. No other spurious and harmonic emissions were found greater than listed emissions on above table.
2. Sample Calculation.
   Margin = Limit – Result / Result = Reading + T.F+ DCCF + DCF / T.F = AF + CL – AG
   Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain,
   DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor
3. Measurement Distance = 3 m for below 18 GHz, Measurement Distance = 1 m for above 18 GHz.
   Therefore Distance Correction Factor(DCF) : - 9.54 dB = 20*log(1m/3m)
4. The limit is converted to field strength.
   E[dBuV/m] = EIRP[dBm] + 95.2 dB = -27 dBm + 95.2 = 68.2 dBuV/m

**Radiated Spurious Emissions data(9 kHz ~ 40 GHz) : *MIMO(SDM) & 802.11ac(VHT80)***

| Band | Tested Channel | Freq. (MHz) | ANT Pol | EUT Position (Axis) | Detector Mode | Reading (dBuV) | T.F (dB/m) | DCCF (dB) | DCF (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| U-NII 1 | 42 (5210 MHz) | 5147.92 | H | Y | PK | 50.60 | 6.49 | N/A | N/A | 57.09 | 74.00 | 16.91 |
| | | 5147.42 | H | Y | AV | 40.61 | 6.49 | 0.25 | N/A | 47.35 | 54.00 | 6.65 |
| | | 10417.99 | H | Z | PK | 44.03 | 10.80 | N/A | N/A | 54.83 | 68.20 | 13.37 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| U-NII 2A | 58 (5290 MHz) | 5350.01 | H | Y | PK | 49.50 | 6.61 | N/A | N/A | 56.11 | 74.00 | 17.89 |
| | | 5350.09 | H | Y | AV | 41.90 | 6.61 | 0.25 | N/A | 48.76 | 54.00 | 5.24 |
| | | 10581.78 | H | Z | PK | 43.76 | 11.23 | N/A | N/A | 54.99 | 68.20 | 13.21 |
| | | - | - | - | - | - | - | - | - | - | - | - |

**Radiated Spurious Emissions data(9 kHz ~ 40 GHz) : *MIMO(SDM) & 802.11ac(VHT80)& With Wireless charging pad***

| Band | Tested Channel | Freq. (MHz) | ANT Pol | EUT Position (Axis) | Detector Mode | Reading (dBuV) | T.F (dB/m) | DCCF (dB) | DCF (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| U-NII 1 | 42 (5210 MHz) | 5149.14 | H | X | PK | 48.00 | 6.49 | N/A | N/A | 54.49 | 74.00 | 19.51 |
| | | 5149.19 | H | X | AV | 38.78 | 6.49 | 0.25 | N/A | 45.52 | 54.00 | 8.48 |
| | | 10421.50 | V | X | PK | 45.31 | 10.80 | N/A | N/A | 56.11 | 68.20 | 12.09 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| U-NII 2A | 58 (5290 MHz) | 5351.99 | H | X | PK | 50.34 | 6.61 | N/A | N/A | 56.95 | 74.00 | 17.05 |
| | | 5352.50 | H | X | AV | 39.88 | 6.61 | 0.25 | N/A | 46.74 | 54.00 | 7.26 |
| | | 10579.09 | V | X | PK | 43.67 | 11.23 | N/A | N/A | 54.90 | 68.20 | 13.30 |
| | | - | - | - | - | - | - | - | - | - | - | - |

**Note.**

1. No other spurious and harmonic emissions were found greater than listed emissions on above table.
2. Sample Calculation.
   Margin = Limit – Result / Result = Reading + T.F+ DCCF + DCF / T.F = AF + CL – AG
   Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain,
   DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor
3. Measurement Distance = 3 m for below 18 GHz, Measurement Distance = 1 m for above 18 GHz.
   Therefore Distance Correction Factor(DCF) : - 9.54 dB = 20*log(1m/3m)
4. The limit is converted to field strength.
   E[dBuV/m] = EIRP[dBm] + 95.2 dB = -27 dBm + 95.2 = 68.2 dBuV/m

**Radiated Spurious Emissions data(9 kHz ~ 40 GHz) : *MIMO(SDM) & 802.11ac(VHT80)***

| Band | Tested Channel | Freq. (MHz) | ANT Pol | EUT Position (Axis) | Detector Mode | Reading (dBuV) | T.F (dB/m) | DCCF (dB) | DCF (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| U-NII 2C | 106 (5530 MHz) | 5458.00 | H | Y | PK | 50.32 | 6.64 | N/A | N/A | 56.96 | 74.00 | 17.04 |
| | | 5460.00 | H | Y | AV | 40.75 | 6.64 | 0.25 | N/A | 47.64 | 54.00 | 6.36 |
| | | 5467.10 | H | Y | PK | 53.14 | 6.66 | N/A | N/A | 59.80 | 68.20 | 8.40 |
| | | 11060.70 | H | Z | PK | 43.38 | 12.59 | N/A | N/A | 55.97 | 74.00 | 18.03 |
| | | 11060.37 | H | Z | AV | 33.45 | 12.59 | 0.25 | N/A | 46.29 | 54.00 | 7.71 |
| | 138 (5690 MHz) | 11378.22 | H | Z | PK | 44.12 | 12.84 | N/A | N/A | 56.96 | 74.00 | 17.04 |
| | | 11378.72 | H | Z | AV | 33.52 | 12.84 | 0.25 | N/A | 46.61 | 54.00 | 7.39 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| U-NII 3 | 155 (5775 MHz) | 5714.07 | H | Y | PK | 57.56 | 6.93 | N/A | N/A | 64.49 | 68.20 | 3.71 |
| | | 5721.99 | H | Y | PK | 59.77 | 7.13 | N/A | N/A | 66.90 | 78.20 | 11.30 |
| | | 5850.94 | H | Y | PK | 58.37 | 7.46 | N/A | N/A | 65.83 | 78.20 | 12.37 |
| | | 5861.14 | H | Y | PK | 55.92 | 7.50 | N/A | N/A | 63.42 | 68.20 | 4.78 |
| | | 11548.74 | H | Z | PK | 44.05 | 12.97 | N/A | N/A | 57.02 | 74.00 | 16.98 |
| | | 11548.49 | H | Z | AV | 33.59 | 12.97 | 0.25 | N/A | 46.81 | 54.00 | 7.19 |

**Radiated Spurious Emissions data(9 kHz ~ 40 GHz) : *MIMO(SDM) & 802.11ac(VHT80)& With Wireless charging pad***

| Band | Tested Channel | Freq. (MHz) | ANT Pol | EUT Position (Axis) | Detector Mode | Reading (dBuV) | T.F (dB/m) | DCCF (dB) | DCF (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| U-NII 2C | 106 (5530 MHz) | 5459.19 | H | X | PK | 47.16 | 6.64 | N/A | N/A | 53.80 | 74.00 | 20.20 |
| | | 5459.72 | H | X | AV | 37.68 | 6.64 | 0.25 | N/A | 44.57 | 54.00 | 9.43 |
| | | 5468.32 | H | X | PK | 48.87 | 6.66 | N/A | N/A | 55.53 | 68.20 | 12.67 |
| | | 11060.31 | V | X | PK | 43.85 | 12.59 | N/A | N/A | 56.44 | 74.00 | 17.56 |
| | | 11061.07 | V | X | AV | 33.48 | 12.59 | 0.25 | N/A | 46.32 | 54.00 | 7.68 |
| | 138 (5690 MHz) | 11380.81 | V | X | PK | 43.84 | 12.84 | N/A | N/A | 56.68 | 74.00 | 17.32 |
| | | 11380.85 | V | X | AV | 33.66 | 12.84 | 0.25 | N/A | 46.75 | 54.00 | 7.25 |
| | | - | - | - | - | - | - | - | - | - | - | - |
| U-NII 3 | 155 (5775 MHz) | 5713.25 | H | X | PK | 57.47 | 6.93 | N/A | N/A | 64.40 | 68.20 | 3.80 |
| | | 5722.40 | H | X | PK | 58.62 | 7.13 | N/A | N/A | 65.75 | 78.20 | 12.45 |
| | | 5851.48 | H | X | PK | 57.33 | 7.46 | N/A | N/A | 64.79 | 78.20 | 13.41 |
| | | 5861.22 | H | X | PK | 54.34 | 7.50 | N/A | N/A | 61.84 | 68.20 | 6.36 |
| | | 11550.58 | V | X | PK | 43.84 | 12.97 | N/A | N/A | 56.81 | 74.00 | 17.19 |
| | | 11550.90 | V | X | AV | 33.57 | 12.97 | 0.25 | N/A | 46.79 | 54.00 | 7.21 |

**Note.**

1. No other spurious and harmonic emissions were found greater than listed emissions on above table.
2. Sample Calculation.
   Margin = Limit – Result / Result = Reading + T.F+ DCCF + DCF / T.F = AF + CL – AG
   Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain,
   DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor
3. Measurement Distance = 3 m for below 18 GHz, Measurement Distance = 1 m for above 18 GHz.
   Therefore Distance Correction Factor(DCF) : - 9.54 dB = 20*log(1m/3m)
4. The limit is converted to field strength.
   E[dBuV/m] = EIRP[dBm] + 95.2 dB = -27 dBm + 95.2 = 68.2 dBuV/m

## - WiFi DBS(Dual-Band Simultaneous) Test Results

**Radiated Spurious Emissions data(9 kHz ~ 40 GHz) : *Simultaneously transmission***

| | Antenna | Band | Mode | TX Frequency(MHz) |
|---|---|---|---|---|
| Transmitting Configuration | 1 | 2.4GHz | 802.11 g | 2462 MHz |
| | 2 | U-NII 1 | 802.11ac(VHT80) | 5210 MHz |

| Freq. (MHz) | ANT Pol | EUT Position (Axis) | Detector Mode | Reading (dBuV) | T.F (dB/m) | DCCF (dB) | DCF (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2483.59 | H | Y | PK | 48.92 | 2.44 | N/A | N/A | 51.36 | 74.00 | 22.64 |
| 2483.55 | H | Y | AV | 35.66 | 2.44 | 0.61 | N/A | 38.71 | 54.00 | 15.29 |
| 4960.72 | H | Z | PK | 43.72 | 6.73 | N/A | N/A | 50.45 | 74.00 | 23.55 |
| 4960.64 | H | Z | AV | 33.29 | 6.73 | 0.61 | N/A | 40.63 | 54.00 | 13.37 |
| 5148.37 | H | Y | PK | 49.11 | 6.49 | N/A | N/A | 55.60 | 74.00 | 18.40 |
| 5148.89 | H | Y | AV | 38.69 | 6.49 | 0.15 | N/A | 45.33 | 54.00 | 8.67 |
| 10418.34 | H | Z | PK | 43.87 | 10.80 | N/A | N/A | 54.67 | 68.20 | 13.53 |
| - | - | - | - | - | - | - | - | - | - | - |

**Radiated Spurious Emissions data(9 kHz ~ 40 GHz) : *Simultaneously transmission***

| | Antenna | Band | Mode | TX Frequency(MHz) |
|---|---|---|---|---|
| Transmitting Configuration | 1 | 2.4GHz | 802.11 g | 2462 MHz |
| | 2 | U-NII 2A | 802.11ac(VHT80) | 5290 MHz |

| Freq. (MHz) | ANT Pol | EUT Position (Axis) | Detector Mode | Reading (dBuV) | T.F (dB/m) | DCCF (dB) | DCF (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2483.84 | H | Y | PK | 48.95 | 2.44 | N/A | N/A | 51.39 | 74.00 | 22.61 |
| 2483.64 | H | Y | AV | 35.92 | 2.44 | 0.61 | N/A | 38.97 | 54.00 | 15.03 |
| 4959.99 | H | Z | PK | 43.28 | 6.73 | N/A | N/A | 50.01 | 74.00 | 23.99 |
| 4959.33 | H | Z | AV | 33.48 | 6.73 | 0.61 | N/A | 40.82 | 54.00 | 13.18 |
| 5350.41 | H | Y | PK | 49.34 | 6.61 | N/A | N/A | 55.95 | 74.00 | 18.05 |
| 5351.17 | H | Y | AV | 40.39 | 6.61 | 0.15 | N/A | 47.15 | 54.00 | 6.85 |
| 10581.94 | H | Z | PK | 43.66 | 11.23 | N/A | N/A | 54.89 | 68.20 | 13.31 |
| - | - | - | - | - | - | - | - | - | - | - |

1. No other spurious and harmonic emissions were found greater than listed emissions on above table.
2. Sample Calculation.
   Margin = Limit – Result / Result = Reading + T.F+ DCCF + DCF / T.F = AF + CL – AG
   Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain,
   DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor
3. Measurement Distance = 3 m for below 18 GHz, Measurement Distance = 1 m for above 18 GHz.
   Therefore Distance Correction Factor(DCF) : - 9.54 dB = 20*log(1m/3m)
4. The limit is converted to field strength.
   E[dBuV/m] = EIRP[dBm] + 95.2 dB = -27 dBm + 95.2 = 68.2 dBuV/m

**Radiated Spurious Emissions data(9 kHz ~ 40 GHz) : *Simultaneously transmission***

| | Antenna | Band | Mode | TX Frequency(MHz) |
|---|---|---|---|---|
| Transmitting Configuration | 1 | 2.4GHz | 802.11 g | 2462 MHz |
| | 2 | U-NII 2C | 802.11ac(VHT80) | 5530 MHz |

| Freq. (MHz) | ANT Pol | EUT Position (Axis) | Detector Mode | Reading (dBuV) | T.F (dB/m) | DCCF (dB) | DCF (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2483.59 | H | Y | PK | 48.35 | 2.44 | N/A | N/A | 50.79 | 74.00 | 23.21 |
| 2483.65 | H | Y | AV | 35.82 | 2.44 | 0.61 | N/A | 38.87 | 54.00 | 15.13 |
| 4959.38 | H | Z | PK | 43.77 | 6.73 | N/A | N/A | 50.50 | 74.00 | 23.50 |
| 4959.95 | H | Z | AV | 33.32 | 6.73 | 0.61 | N/A | 40.66 | 54.00 | 13.34 |
| 5459.63 | H | Y | PK | 46.45 | 6.64 | N/A | N/A | 53.09 | 74.00 | 20.91 |
| 5459.90 | H | Y | AV | 37.08 | 6.64 | 0.15 | N/A | 43.87 | 54.00 | 10.13 |
| 5465.85 | H | Y | PK | 47.48 | 6.66 | N/A | N/A | 54.14 | 68.20 | 14.06 |
| 11059.33 | H | Z | PK | 44.53 | 12.59 | N/A | N/A | 57.12 | 74.00 | 16.88 |
| 11059.24 | H | Z | AV | 33.27 | 12.59 | 0.15 | N/A | 46.01 | 54.00 | 7.99 |

**Radiated Spurious Emissions data(9 kHz ~ 40 GHz) : *Simultaneously transmission***

| | Antenna | Band | Mode | TX Frequency(MHz) |
|---|---|---|---|---|
| Transmitting Configuration | 1 | 2.4GHz | 802.11 g | 2462 MHz |
| | 2 | U-NII 3 | 802.11ac(VHT80) | 5775 MHz |

| Freq. (MHz) | ANT Pol | EUT Position (Axis) | Detector Mode | Reading (dBuV) | T.F (dB/m) | DCCF (dB) | DCF (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2483.61 | H | Y | PK | 48.29 | 2.44 | N/A | N/A | 50.73 | 74.00 | 23.27 |
| 2483.56 | H | Y | AV | 35.75 | 2.44 | 0.61 | N/A | 38.80 | 54.00 | 15.20 |
| 4960.19 | H | Z | PK | 43.99 | 6.73 | N/A | N/A | 50.72 | 74.00 | 23.28 |
| 4961.03 | H | Z | AV | 33.27 | 6.73 | 0.61 | N/A | 40.61 | 54.00 | 13.39 |
| 5852.92 | H | Y | PK | 59.49 | 7.46 | N/A | N/A | 66.95 | 78.20 | 11.25 |
| 5860.61 | H | Y | PK | 55.42 | 7.50 | N/A | N/A | 62.92 | 68.20 | 5.28 |
| 11548.88 | H | Z | PK | 44.38 | 12.97 | N/A | N/A | 57.35 | 74.00 | 16.65 |
| 11550.27 | H | Z | AV | 33.48 | 12.97 | 0.15 | N/A | 46.60 | 54.00 | 7.40 |

1. No other spurious and harmonic emissions were found greater than listed emissions on above table.
2. Sample Calculation.
   Margin = Limit – Result / Result = Reading + T.F+ DCCF + DCF / T.F = AF + CL – AG
   Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain,
   DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor
3. Measurement Distance = 3 m for below 18 GHz, Measurement Distance = 1 m for above 18 GHz.
   Therefore Distance Correction Factor(DCF) : - 9.54 dB = 20*log(1m/3m)
4. The limit is converted to field strength.
   E[dBuV/m] = EIRP[dBm] + 95.2 dB = -27 dBm + 95.2 = 68.2 dBuV/m

## 8.7 AC Conducted Emissions

### ▣ Test Requirements and limit, §15.207

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μH/50 ohms line impedance stabilization network (LISN).

| Frequency Range (MHz) | Conducted Limit (dBuV) | |
|---|---|---|
| | Quasi-Peak | Average |
| 0.15 ~ 0.5 | 66 to 56 * | 56 to 46 * |
| 0.5 ~ 5 | 56 | 46 |
| 5 ~ 30 | 60 | 50 |

* Decreases with the logarithm of the frequency

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

### ▣ Test Configuration

See test photographs for the actual connections between EUT and support equipment.

### ▣ Test Procedure

Conducted emissions from the EUT were measured according to the ANSI C63.10-2013.

1. The test procedure is performed in a 6.5 m × 3.5 m × 3.5 m (L × W × H) shielded room. The EUT along with its peripherals were placed on a 1.0 m (W) × 1.5 m (L) and 0.8 m in height wooden table and the EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane.
2. The EUT was connected to power mains through a line impedance stabilization network (LISN) which provides 50 ohm coupling impedance for measuring instrument and the chassis ground was bounded to the horizontal ground plane of shielded room.
3. All peripherals were connected to the second LISN and the chassis ground also bounded to the horizontal ground plane of shielded room.
4. The excess power cable between the EUT and the LISN was bundled. The power cables of peripherals were unbundled. All connecting cables of EUT and peripherals were moved to find the maximum emission.

### ▣ Measurement Data: Comply

Note 1: See next pages for actual measured spectrum plots and data for worst case result.

**AC Line Conducted Emissions (Graph)**

Test Mode: U-NII 1 & 802.11a & MIMO(CDD) & 5200 MHz

## Results of Conducted Emission

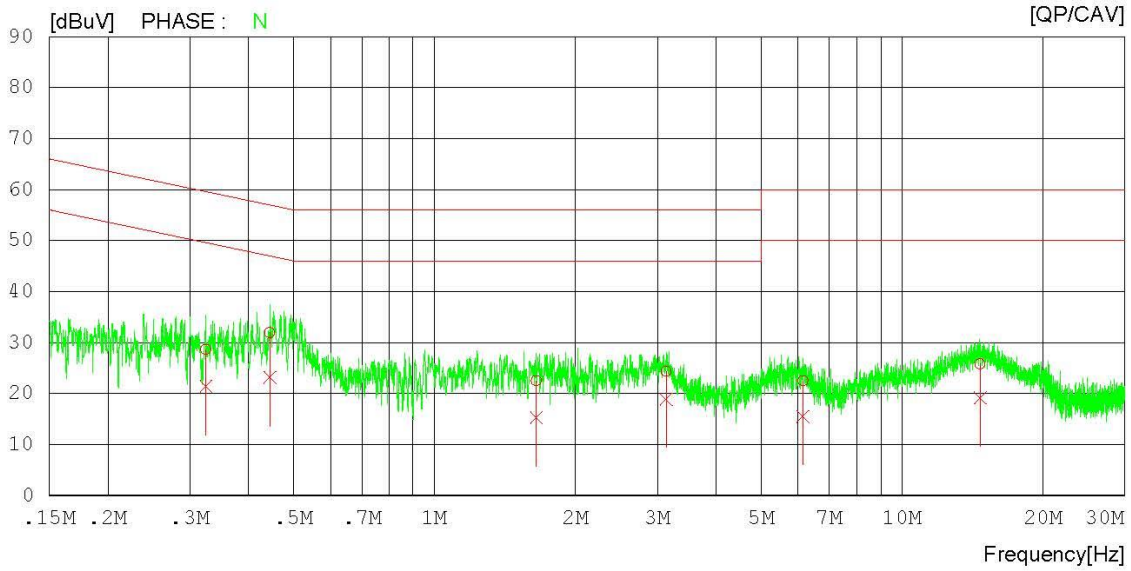
DTNC

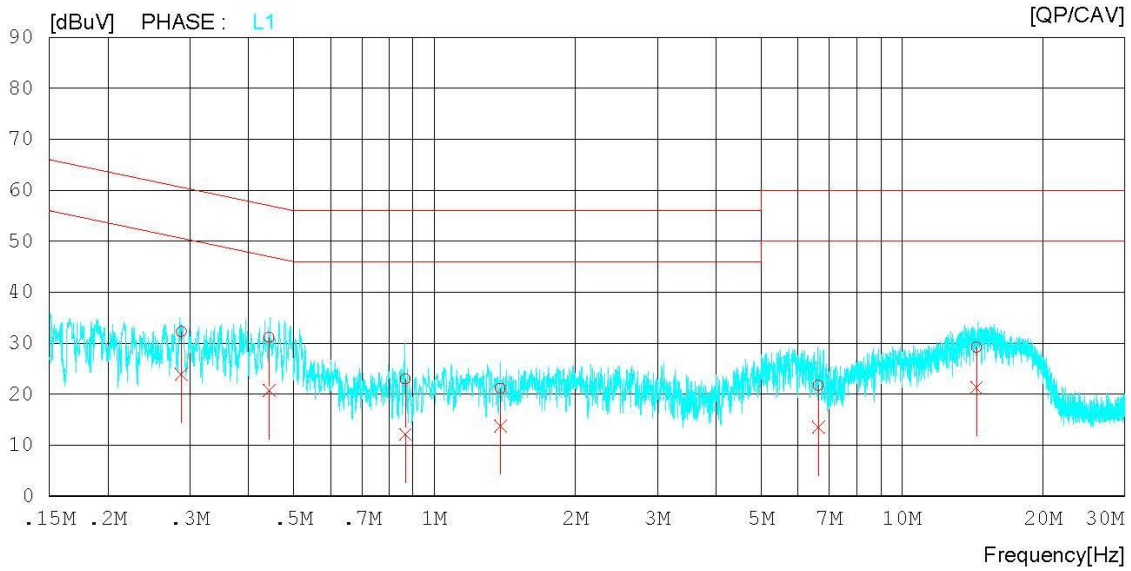
Date 2017-10-13

| | | | |
|---|---|---|---|
| Order No. | DTNC1709-06811 | Referrence No. | |
| Model No. | DS1704 | Power Supply | 120V/60Hz |
| Serial No. | | Temp/Humi. | 22/45 |
| Test Condition | | Operator | S.G LEE |

Memo 5.1G

LIMIT : FCC P15.207 QP
FCC P15.207 AV



**AC Line Conducted Emissions (Data List)**

Test Mode: U-NII 1 & 802.11a & MIMO(CDD) & 5180 MHz

# Results of Conducted Emission

DTNC

Date 2017-10-13

| | | | |
|---|---|---|---|
| Order No. | DTNC1709-06811 | Referrence No. | |
| Model No. | DS1704 | Power Supply | 120V/60Hz |
| Serial No. | | Temp/Humi. | 22/45 |
| Test Condition | | Operator | S.G LEE |

Memo 5.1G

LIMIT : FCC P15.207 QP
FCC P15.207 AV

| NO | FREQ [MHz] | READING QP [dBuV] | READING CAV [dBuV] | C.FACTOR [dB] | RESULT QP [dBuV] | RESULT CAV [dBuV] | LIMIT QP [dBuV] | LIMIT CAV [dBuV] | MARGIN QP [dBuV] | MARGIN CAV [dBuV] | PHASE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.32441 | 18.73 | 11.53 | 9.90 | 28.63 | 21.43 | 59.59 | 49.59 | 30.96 | 28.16 | N |
| 2 | 0.44459 | 22.04 | 13.23 | 9.90 | 31.94 | 23.13 | 56.98 | 46.98 | 25.04 | 23.85 | N |
| 3 | 1.65180 | 12.53 | 5.33 | 9.94 | 22.47 | 15.27 | 56.00 | 46.00 | 33.53 | 30.73 | N |
| 4 | 3.12960 | 14.31 | 8.91 | 9.99 | 24.30 | 18.90 | 56.00 | 46.00 | 31.70 | 27.10 | N |
| 5 | 6.13900 | 12.40 | 5.48 | 10.06 | 22.46 | 15.54 | 60.00 | 50.00 | 37.54 | 34.46 | N |
| 6 | 14.69560 | 15.61 | 8.91 | 10.23 | 25.84 | 19.14 | 60.00 | 50.00 | 34.16 | 30.86 | N |
| 7 | 0.28727 | 22.31 | 13.98 | 9.90 | 32.21 | 23.88 | 60.60 | 50.60 | 28.39 | 26.72 | L1 |
| 8 | 0.44307 | 21.17 | 10.82 | 9.90 | 31.07 | 20.72 | 57.00 | 47.00 | 25.93 | 26.28 | L1 |
| 9 | 0.86650 | 12.97 | 2.17 | 9.93 | 22.90 | 12.10 | 56.00 | 46.00 | 33.10 | 33.90 | L1 |
| 10 | 1.38480 | 11.20 | 3.77 | 9.93 | 21.13 | 13.70 | 56.00 | 46.00 | 34.87 | 32.30 | L1 |
| 11 | 6.62780 | 11.56 | 3.46 | 10.05 | 21.61 | 13.51 | 60.00 | 50.00 | 38.39 | 36.49 | L1 |
| 12 | 14.44160 | 18.90 | 11.00 | 10.22 | 29.12 | 21.22 | 60.00 | 50.00 | 30.88 | 28.78 | L1 |