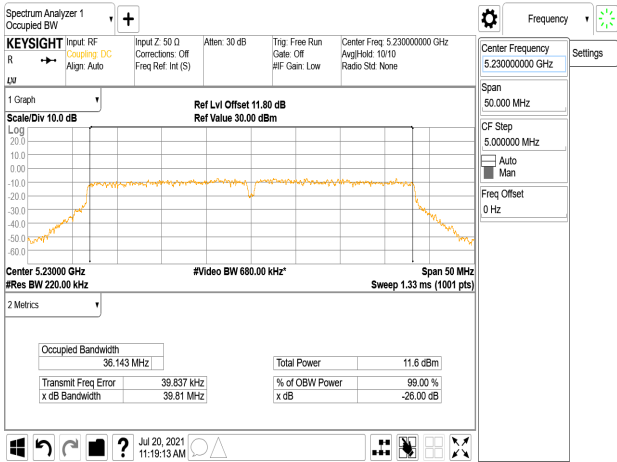
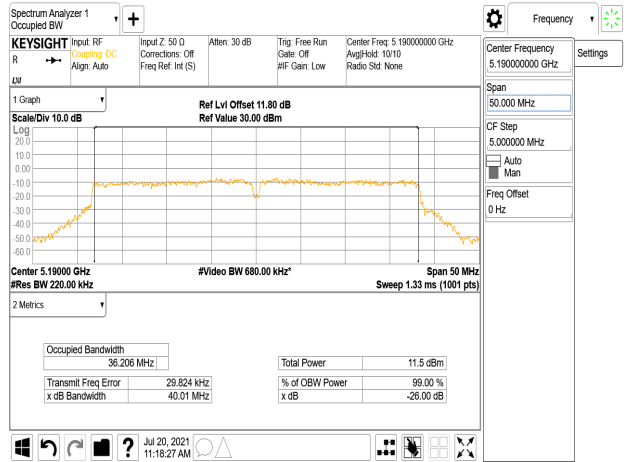


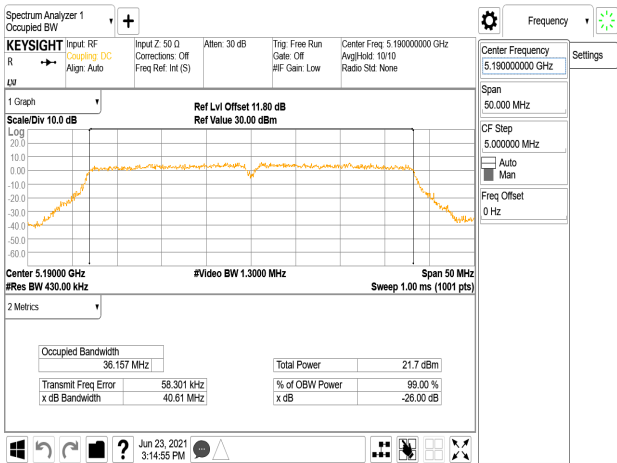
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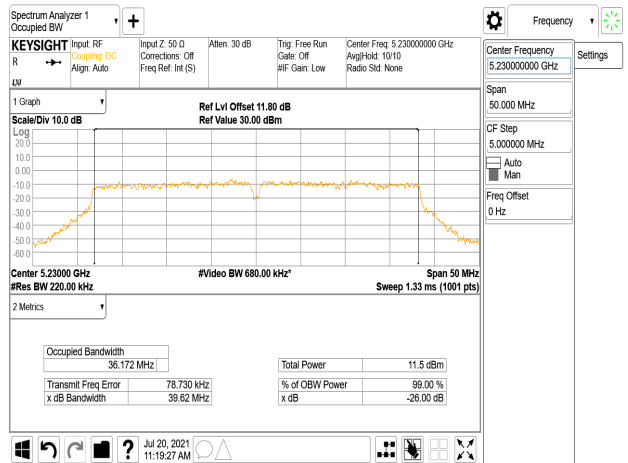
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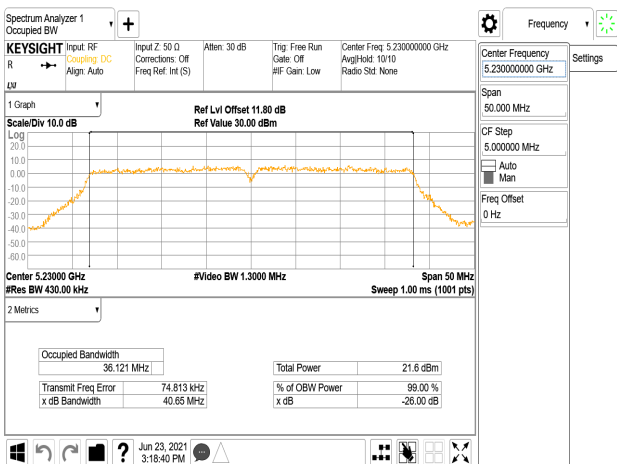
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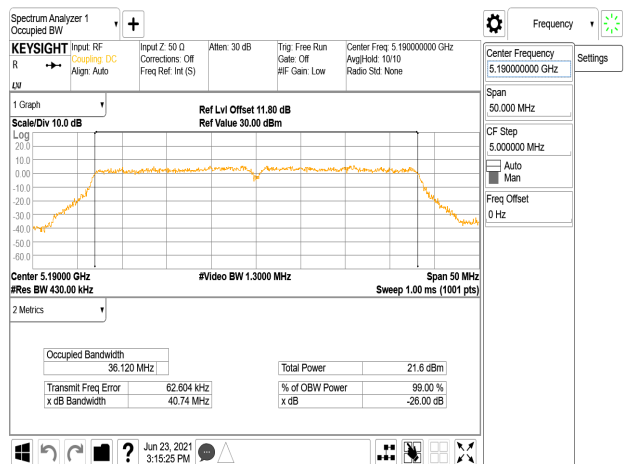
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802.11n\_40MHz\_Test\_Chain0



802.11n\_40MHz\_Test\_Chain1

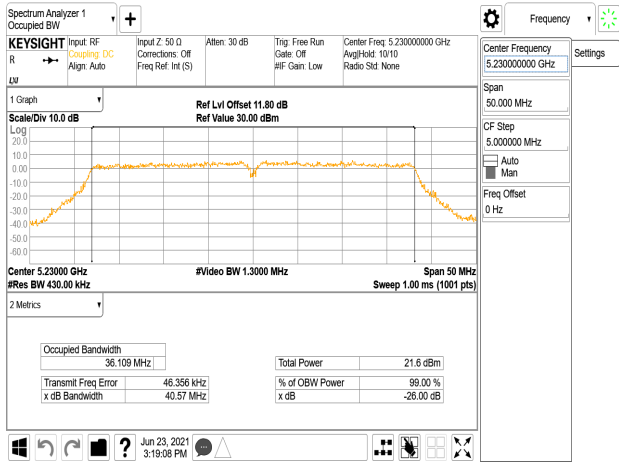


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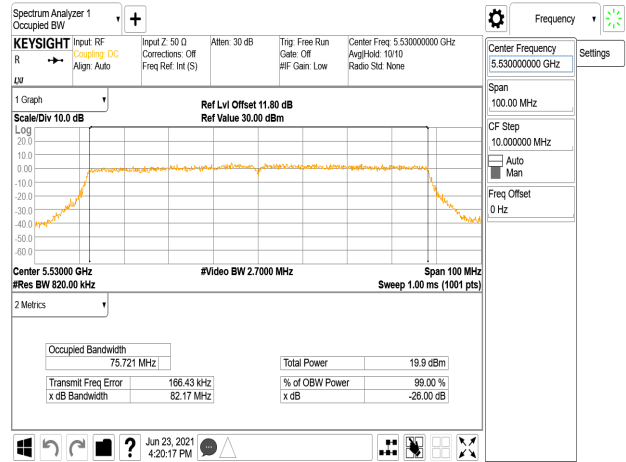
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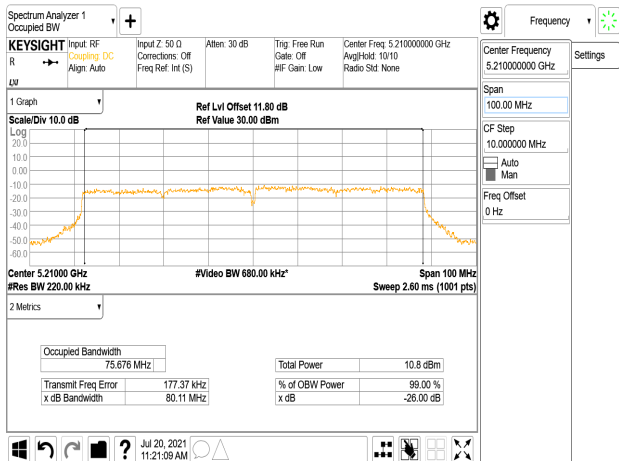
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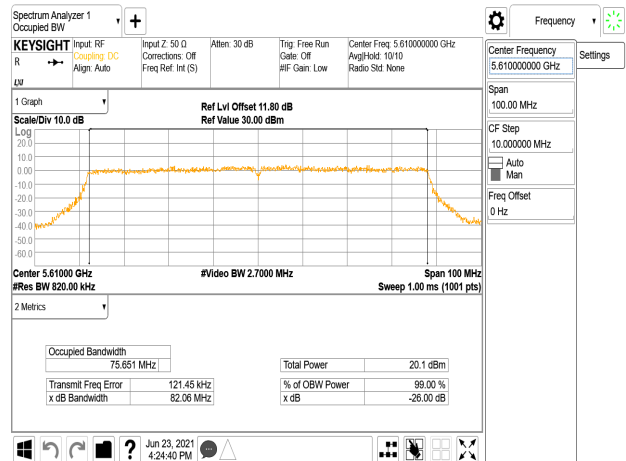
802.11ac\_80MHz\_Chain0\_5530MHz



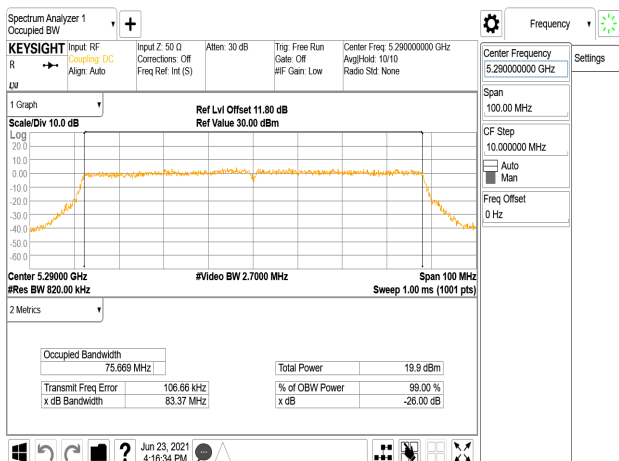
802.11ac\_80MHz\_Chain0\_5210MHz



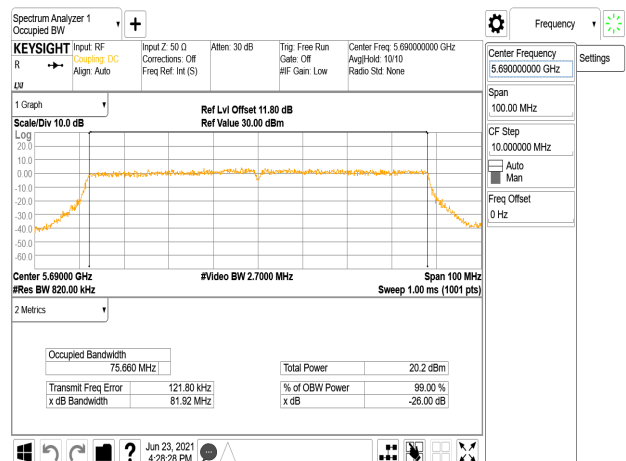
802.11ac\_80MHz\_Chain0\_5610MHz



802.11ac\_80MHz\_Chain0\_5290MHz



802.11ac\_80MHz\_Chain0\_5690MHz

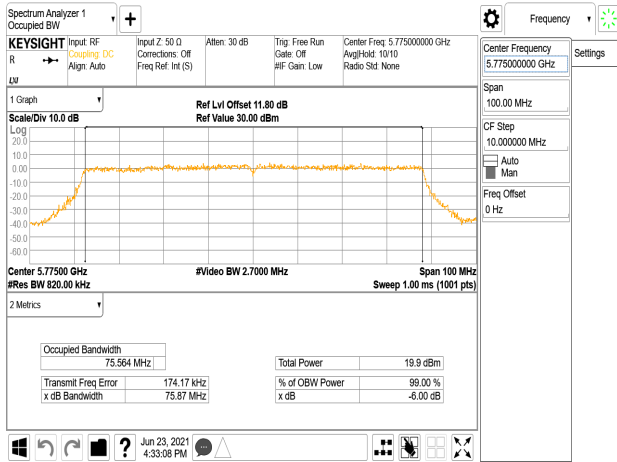


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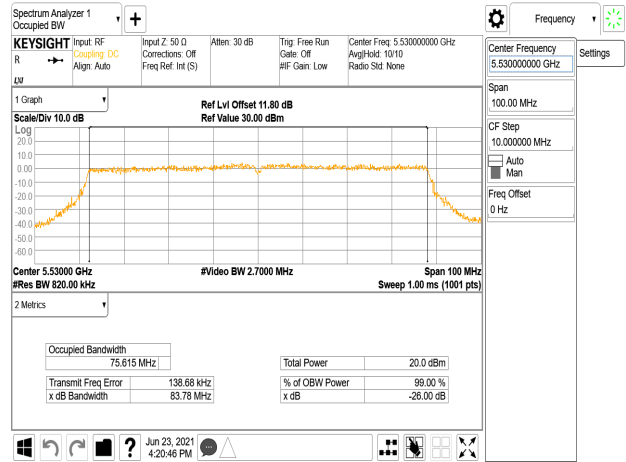
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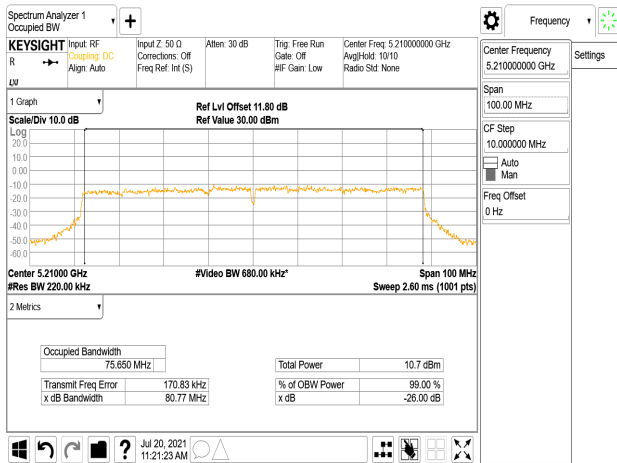
802.11ac\_80MHz\_Chain0\_5775MHz



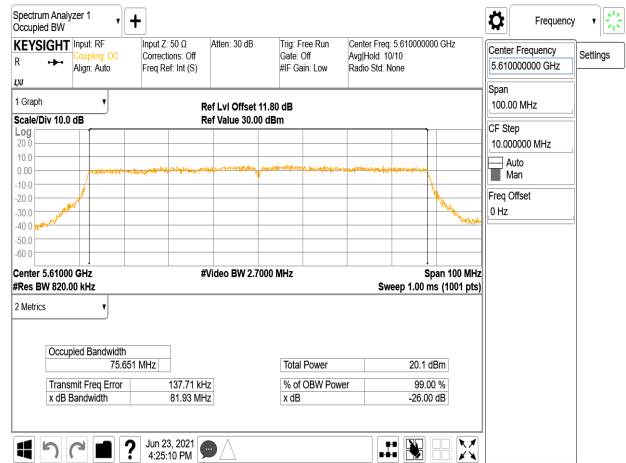
802.11ac\_80MHz\_Chain1\_5530MHz



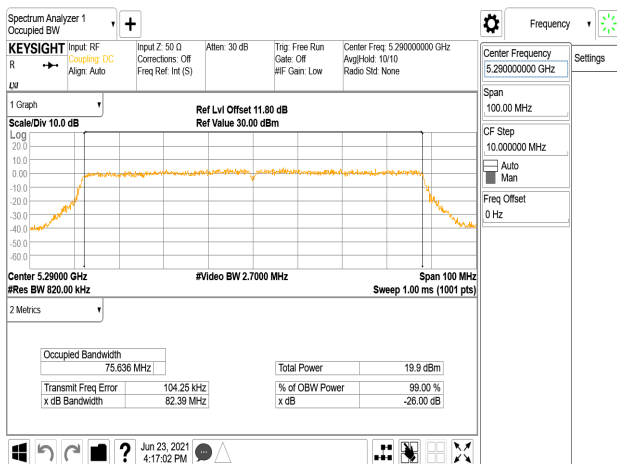
802.11ac\_80MHz\_Chain1\_5210MHz



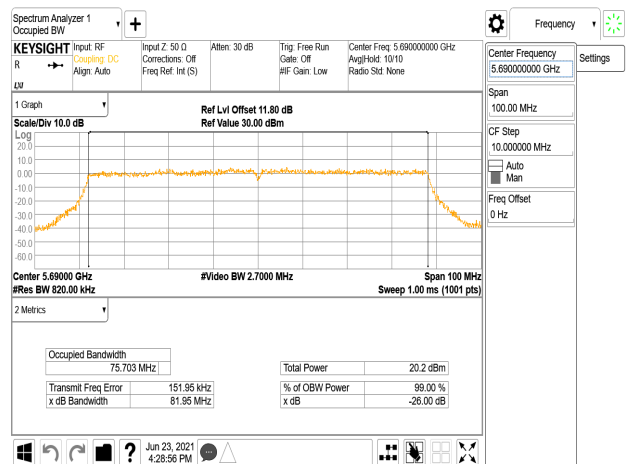
802.11ac\_80MHz\_Chain1\_5610MHz



802.11ac\_80MHz\_Chain1\_5290MHz



802.11ac\_80MHz\_Chain1\_5690MHz

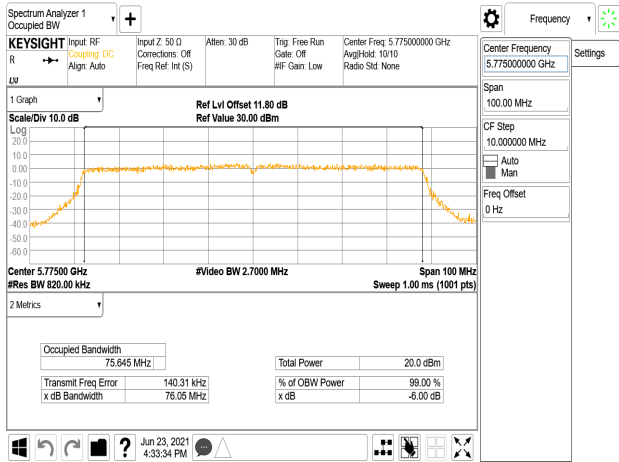


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802.11ac\_80MHz\_Chain1\_5775MHz



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## 9 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

### 9.1 Standard Applicable

#### FCC

| Band     | EUT CATEGORY                        |                      | LIMIT                             |  |                                    |                                       |
|----------|-------------------------------------|----------------------|-----------------------------------|--|------------------------------------|---------------------------------------|
|          |                                     |                      | Conducted Output Power            | EIRP   | TPC                                | Antenna Directional Gain Requirements |
| U-NII-1  | <input type="checkbox"/>            | Fixed point-to-point | 1 Watt(30dBm)                     | Not required                                   | Not required                       | 23dBi                                 |
|          | <input type="checkbox"/>            | Out door AP          | 1 Watt(30dBm)                     | Elevation angle above 30 degrees 125mW (21dBm) | Not required                       | 6dBi                                  |
|          | <input checked="" type="checkbox"/> | Other                | 250mW(23.98dBm)                   | Not required                                   | Not required                       | 6dBi                                  |
| U-NII-2A | <input checked="" type="checkbox"/> | Other                | 250mW(23.98dBm) or 11dBm+10 log B | Not required                                   | When EIRP >500mW                   | 6dBi                                  |
| U-NII-2C | <input checked="" type="checkbox"/> | Other                | 250mW(23.98dBm) or 11dBm+10 log B | Not required                                   | At least 6dB below EIRP 1W (30dBm) | 6dBi                                  |
| U-NII-3  | <input checked="" type="checkbox"/> | Other                | 1 Watt(30dBm)                     | Not required                                   | Not required                       | 6dBi                                  |
|          | <input type="checkbox"/>            | Fixed point-to-point | 1 Watt(30dBm)                     | Not required                                   | Not required                       | Not required                          |

If transmitting antennas of directional gain greater than the antenna requirements column, the Maximum transmit power shall be reduced by the amount in dB that the direction-al gain of the antenna.

#### ISED

| FREQUENCY BAND (MHz)    | Limits of RSS-247 6.2.1~6.2.4             |                                      |   |
|-------------------------|---|--------------------------------------|---|
|                         | EIRP                                      | Conducted Output Power               | TPC   |
| 5150~5250               | 200 mW or 10 + 10 log <sub>10</sub> B dBm | N/A                                  | <input checked="" type="checkbox"/> Vehicle use, at least 3dB below 30mW EIRP |
| 5250~5350               | 1.0 W or 17 + 10 log <sub>10</sub> B dBm  | 250 mW or 11 +10 log <sub>10</sub> B | <input type="checkbox"/> Vehicle use, at least 3dB below 30mW EIRP or         |
|                         |   |                                      | <input checked="" type="checkbox"/> EIRP >500mW, at least 6dB below 1W EIRP   |
| 5470-5600 and 5650-5725 | 1.0 W or 17 + 10 log <sub>10</sub> B dBm  | 250 mW or 11 +10 log <sub>10</sub> B | <input checked="" type="checkbox"/> EIRP >500mW, at least 6dB below 1W EIRP   |
| 5725~5850               | N/A                                       | 1 W                                  | N/A   |

For equipment operating in the band **5725-5850** MHz, If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum transmit power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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**Note:**

As per section F. 2). e). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

$g_{j,k} = 10^{G_k/20}$  if the kth antenna is being fed by spatial stream j, or zero if it is not;

$G_k$  is the gain in dBi of the kth antenna.

The antenna gain is not greater than 6 dBi. Therefore, reduction of power is not required.

**9.2 Measurement Procedure**

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
4. Power Meter is used as the auxiliary test equipment to conduct the output power measurement.
5. Record the max. reading and add 10 log(1/duty cycle).
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

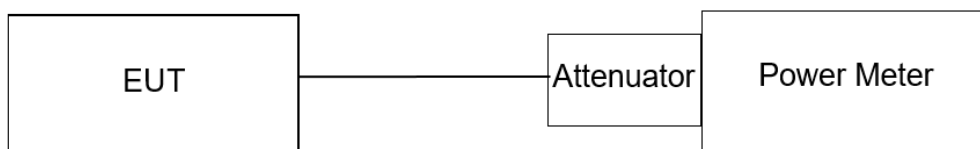
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### 9.3 Measurement Equipment Used

| Conducted Emission Test Site: Conducted G |           |               |               |            |            |
|---|-----------|---------------|---------------|------------|------------|
| EQUIPMENT TYPE                            | MFR       | MODEL NUMBER  | SERIAL NUMBER | LAST CAL.  | CAL DUE.   |
| Spectrum Analyzer                         | KEYSIGHT  | N9010B        | MY59071570    | 06/01/2021 | 05/31/2022 |
| Attenuator                                | Marvelous | WATT-218FS-10 | RF16          | 11/19/2020 | 11/18/2021 |
| DC Block                                  | PASTERNAK | PE8210        | RF154         | 11/19/2020 | 11/18/2021 |
| Power Meter                               | Anritsu   | ML2496A       | 1326001       | 08/05/2020 | 08/04/2021 |
| Power Sensor                              | Anritsu   | MA2411B       | 1315048       | 08/05/2020 | 08/04/2021 |
| Power Sensor                              | Anritsu   | MA2411B       | 1315049       | 08/05/2020 | 08/04/2021 |
| Attenuator                                | Marvelous | MVE2213-10    | RF12          | 11/19/2020 | 11/18/2021 |
| Attenuator                                | Marvelous | WATT-218FS-10 | RF18          | 11/19/2020 | 11/18/2021 |

### 9.4 Test Set-up



### 9.5 Measurement Result

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power limits are the lesser of 250 mW (23.98dBm) or 11 dBm + 10 log B and EIRP limits are the lesser of 1.0W (30dBm) or 17 + 10 log B.

1. Where B is the 26 dB emission bandwidth in megahertz for FCC compliance.
2. And B is the 99% for ISED compliance.

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### 9.5.1 Conducted output power (FCC)

#### 802.11a\_Ch0

| CH  | Frequency (MHz) | Data Rate | Power set | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-----------|-------------------|------------------|----------------------|--------|
| 36  | 5180            | 6         | 15.5      | <b>14.98</b>      | 31.461           | 23.98                | PASS   |
| 44  | 5220            | 6         | 15        | 14.94             | 31.173           | 23.98                | PASS   |
| 48  | 5240            | 6         | 15        | 14.91             | 30.958           | 23.98                | PASS   |
| 52  | 5260            | 6         | 15        | 14.94             | 31.173           | 23.98                | PASS   |
| 60  | 5300            | 6         | 15        | <b>14.97</b>      | 31.389           | 23.98                | PASS   |
| 64  | 5320            | 6         | 15        | 14.96             | 31.317           | 23.98                | PASS   |
| 100 | 5500            | 6         | 15        | 14.87             | 30.674           | 23.98                | PASS   |
| 116 | 5580            | 6         | 15        | 14.90             | 30.887           | 23.98                | PASS   |
| 140 | 5700            | 6         | 15        | <b>14.93</b>      | 31.101           | 23.98                | PASS   |
| 149 | 5745            | 6         | 15        | 14.89             | 30.816           | 30                   | PASS   |
| 157 | 5785            | 6         | 15        | 14.85             | 30.533           | 30                   | PASS   |
| 165 | 5825            | 6         | 15.5      | <b>14.96</b>      | 31.317           | 30                   | PASS   |

#### 802.11a\_Ch1

| CH  | Frequency (MHz) | Data Rate | Power set | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-----------|-------------------|------------------|----------------------|--------|
| 36  | 5180            | 6         | 14.5      | 14.71             | 29.565           | 23.98                | PASS   |
| 44  | 5220            | 6         | 14.5      | 14.74             | 29.770           | 23.98                | PASS   |
| 48  | 5240            | 6         | 14.5      | 14.85             | 30.533           | 23.98                | PASS   |
| 52  | 5260            | 6         | 14.5      | 14.87             | 30.674           | 23.98                | PASS   |
| 60  | 5300            | 6         | 14        | 14.69             | 29.429           | 23.98                | PASS   |
| 64  | 5320            | 6         | 14        | 14.75             | 29.838           | 23.98                | PASS   |
| 100 | 5500            | 6         | 15        | 14.52             | 28.299           | 23.98                | PASS   |
| 116 | 5580            | 6         | 15        | 14.81             | 30.253           | 23.98                | PASS   |
| 140 | 5700            | 6         | 14        | 14.64             | 29.092           | 23.98                | PASS   |
| 149 | 5745            | 6         | 14        | 14.57             | 28.627           | 30                   | PASS   |
| 157 | 5785            | 6         | 14.5      | 14.71             | 29.565           | 30                   | PASS   |
| 165 | 5825            | 6         | 14.5      | 14.58             | 28.693           | 30                   | PASS   |

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**802.11n\_HT20\_Ch0**

| CH  | Frequency (MHz) | Data Rate | Power set | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-----------|-------------------|------------------|----------------------|--------|
| 36  | 5180            | MCS0      | 8.5       | 7.93              | 6.205            | 23.98                | PASS   |
| 44  | 5220            | MCS0      | 8         | 8.06              | 6.394            | 23.98                | PASS   |
| 48  | 5240            | MCS0      | 8         | 8.11              | 6.468            | 23.98                | PASS   |
| 52  | 5260            | MCS0      | 16        | 15.87             | 38.617           | 23.98                | PASS   |
| 60  | 5300            | MCS0      | 16        | 15.89             | 38.795           | 23.98                | PASS   |
| 64  | 5320            | MCS0      | 16        | 15.93             | 39.154           | 23.98                | PASS   |
| 100 | 5500            | MCS0      | 16.5      | 15.90             | 38.884           | 23.98                | PASS   |
| 116 | 5580            | MCS0      | 16        | 15.86             | 38.528           | 23.98                | PASS   |
| 140 | 5700            | MCS0      | 16        | 15.92             | 39.064           | 23.98                | PASS   |
| 144 | 5720(U-NII 2C)  | MCS0      | 16        | 14.45             | 27.88            | 23.98                | PASS   |
| 144 | 5720 (U-NII 3)  | MCS0      | 16        | 10.52             | 11.28            | 30                   | PASS   |
| 149 | 5745            | MCS0      | 16        | 15.88             | 38.706           | 30                   | PASS   |
| 157 | 5785            | MCS0      | 16.5      | 15.94             | 39.244           | 30                   | PASS   |
| 165 | 5825            | MCS0      | 16.5      | 15.96             | 39.425           | 30                   | PASS   |

**802.11n\_HT20\_Ch1**

| CH  | Frequency (MHz) | Data Rate | Power set | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-----------|-------------------|------------------|----------------------|--------|
| 36  | 5180            | MCS0      | 8.5       | 7.85              | 6.092            | 23.98                | PASS   |
| 44  | 5220            | MCS0      | 8.5       | 7.92              | 6.191            | 23.98                | PASS   |
| 48  | 5240            | MCS0      | 8.5       | 7.95              | 6.234            | 23.98                | PASS   |
| 52  | 5260            | MCS0      | 15.5      | 15.84             | 38.351           | 23.98                | PASS   |
| 60  | 5300            | MCS0      | 15.5      | 15.83             | 38.263           | 23.98                | PASS   |
| 64  | 5320            | MCS0      | 15.5      | 15.88             | 38.706           | 23.98                | PASS   |
| 100 | 5500            | MCS0      | 15.5      | 15.59             | 36.205           | 23.98                | PASS   |
| 116 | 5580            | MCS0      | 15.5      | 15.72             | 37.306           | 23.98                | PASS   |
| 140 | 5700            | MCS0      | 15.5      | 15.84             | 38.351           | 23.98                | PASS   |
| 144 | 5720(U-NII 2C)  | MCS0      | 15.5      | 14.34             | 27.16            | 23.98                | PASS   |
| 144 | 5720 (U-NII 3)  | MCS0      | 15.5      | 10.42             | 11.01            | 30                   | PASS   |
| 149 | 5745            | MCS0      | 15.5      | 15.87             | 38.617           | 30                   | PASS   |
| 157 | 5785            | MCS0      | 15.5      | 15.64             | 36.625           | 30                   | PASS   |
| 165 | 5825            | MCS0      | 15.5      | 15.59             | 36.205           | 30                   | PASS   |

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## 802.11n\_HT20\_MIMO

| CH  | Frequency (MHz) | Data Rate | Power set | Avg. POWER (dBm) |       | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-----------|------------------|-------|-------------------|------------------|----------------------|--------|
|     |                 |           |           | CH 0             | CH 1  |                   |                  |                      |        |
| 36  | 5180            | MCS8      | 8.5       | 8.02             | 7.94  | 11.08             | 12.818           | 21.31                | PASS   |
| 44  | 5220            | MCS8      | 8.5       | 8.12             | 8.07  | <b>11.19</b>      | 13.162           | 21.31                | PASS   |
| 48  | 5240            | MCS8      | 8.5       | 8.15             | 8.01  | 11.18             | 13.118           | 21.31                | PASS   |
| 52  | 5260            | MCS8      | 16        | 16.5             | 15.11 | 18.96             | 78.676           | 21.79                | PASS   |
| 60  | 5300            | MCS8      | 16        | 16.43            | 15.22 | 18.97             | 78.796           | 21.79                | PASS   |
| 64  | 5320            | MCS8      | 16.5      | 16.43            | 15.24 | <b>18.97</b>      | 78.953           | 21.79                | PASS   |
| 100 | 5500            | MCS8      | 16.5      | 16.64            | 14.52 | 18.81             | 75.965           | 21.62                | PASS   |
| 116 | 5580            | MCS8      | 16        | 16.71            | 14.7  | <b>18.92</b>      | 77.952           | 21.62                | PASS   |
| 140 | 5700            | MCS8      | 15.5      | 16.4             | 13.93 | 18.44             | 69.764           | 21.62                | PASS   |
| 144 | 5720(U-NII 2C)  | MCS8      | 15.5      | 14.97            | 12.30 | 16.94             | 49.441           | 21.62                | PASS   |
| 144 | 5720 (U-NII 3)  | MCS8      | 15.5      | 11.04            | 8.38  | 13.01             | 20.019           | 27.92                | PASS   |
| 149 | 5745            | MCS8      | 16        | 16.58            | 14.53 | 18.77             | 75.386           | 27.92                | PASS   |
| 157 | 5785            | MCS8      | 16.5      | 16.58            | 14.68 | <b>18.83</b>      | 76.403           | 27.92                | PASS   |
| 165 | 5825            | MCS8      | 16.5      | 16.57            | 14.51 | 18.76             | 75.146           | 27.92                | PASS   |

## 802.11n\_HT40\_Ch0

| CH  | Frequency (MHz) | Data Rate | Power set | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-----------|-------------------|------------------|----------------------|--------|
| 38  | 5190            | MCS0      | 10.5      | 10.61             | 11.501           | 23.98                | PASS   |
| 46  | 5230            | MCS0      | 10.5      | 10.90             | 12.295           | 23.98                | PASS   |
| 54  | 5270            | MCS0      | 14.5      | 14.90             | 30.884           | 23.98                | PASS   |
| 62  | 5310            | MCS0      | 14.5      | 14.92             | 31.026           | 23.98                | PASS   |
| 102 | 5510            | MCS0      | 15        | 14.95             | 31.241           | 23.98                | PASS   |
| 110 | 5550            | MCS0      | 14.5      | 14.87             | 30.671           | 23.98                | PASS   |
| 134 | 5670            | MCS0      | 14.5      | 14.90             | 30.884           | 23.98                | PASS   |
| 142 | 5710(U-NII 2C)  | MCS0      | 14.5      | 14.26             | 26.65            | 23.98                | PASS   |
| 142 | 5710 (U-NII 3)  | MCS0      | 14.5      | 6.12              | 4.10             | 30                   | PASS   |
| 151 | 5755            | MCS0      | 15        | 14.99             | 31.530           | 30                   | PASS   |
| 159 | 5795            | MCS0      | 15        | 14.94             | 31.169           | 30                   | PASS   |

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## 802.11n\_HT40\_Ch1

| CH  | Frequency (MHz) | Data Rate | Power set | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-----------|-------------------|------------------|----------------------|--------|
| 38  | 5190            | MCS0      | 10.5      | 10.17             | 10.393           | 23.98                | PASS   |
| 46  | 5230            | MCS0      | 10.5      | 10.29             | 10.684           | 23.98                | PASS   |
| 54  | 5270            | MCS0      | 15.5      | 14.73             | 29.698           | 23.98                | PASS   |
| 62  | 5310            | MCS0      | 15.5      | 14.83             | 30.390           | 23.98                | PASS   |
| 102 | 5510            | MCS0      | 14.5      | 14.81             | 30.250           | 23.98                | PASS   |
| 110 | 5550            | MCS0      | 14        | 14.84             | 30.460           | 23.98                | PASS   |
| 134 | 5670            | MCS0      | 14.5      | 14.83             | 30.390           | 23.98                | PASS   |
| 142 | 5710(U-NII 2C)  | MCS0      | 14        | 14.12             | 25.81            | 23.98                | PASS   |
| 142 | 5710 (U-NII 3)  | MCS0      | 14        | 5.89              | 3.88             | 30                   | PASS   |
| 151 | 5755            | MCS0      | 14        | 14.67             | 29.291           | 30                   | PASS   |
| 159 | 5795            | MCS0      | 14.5      | 14.82             | 30.320           | 30                   | PASS   |

## 802.11n\_HT40\_MIMO

| CH  | Frequency (MHz) | Data Rate | Power set | Avg. POWER (dBm) |       | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-----------|------------------|-------|-------------------|------------------|----------------------|--------|
|     |                 |           |           | CH 0             | CH 1  |                   |                  |                      |        |
| 38  | 5190            | MCS8      | 10.5      | 10.45            | 10.18 | 13.50             | 22.411           | 21.31                | PASS   |
| 46  | 5230            | MCS8      | 10.5      | 10.85            | 10.34 | <b>13.79</b>      | 23.934           | 21.31                | PASS   |
| 54  | 5270            | MCS8      | 15        | 15.29            | 14.09 | 17.92             | 61.928           | 21.79                | PASS   |
| 62  | 5310            | MCS8      | 15        | 15.35            | 14.14 | <b>17.97</b>      | 62.728           | 21.79                | PASS   |
| 102 | 5510            | MCS8      | 15        | 15.15            | 14.41 | <b>17.98</b>      | 62.854           | 21.62                | PASS   |
| 110 | 5550            | MCS8      | 14.5      | 14.95            | 14.63 | 17.98             | 62.814           | 21.62                | PASS   |
| 134 | 5670            | MCS8      | 14.5      | 14.92            | 14.2  | 17.76             | 59.738           | 21.62                | PASS   |
| 142 | 5710(U-NII 2C)  | MCS8      | 15        | 14.82            | 13.40 | 17.36             | 54.424           | 21.62                | PASS   |
| 142 | 5710 (U-NII 3)  | MCS8      | 15        | 6.69             | 5.18  | 9.19              | 8.293            | 27.92                | PASS   |
| 151 | 5755            | MCS8      | 15        | 15.52            | 13.67 | 17.88             | 61.381           | 27.92                | PASS   |
| 159 | 5795            | MCS8      | 15.5      | 15.68            | 13.61 | <b>17.95</b>      | 62.442           | 27.92                | PASS   |

## 802.11ac\_VHT80\_Ch0

| CH  | Frequency (MHz) | Data Rate | Power set | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-----------|-------------------|------------------|----------------------|--------|
| 42  | 5210            | MCS0      | 11        | 10.82             | 12.065           | 23.98                | PASS   |
| 58  | 5290            | MCS0      | 14        | 13.97             | 24.918           | 23.98                | PASS   |
| 106 | 5530            | MCS0      | 14        | 13.90             | 24.520           | 23.98                | PASS   |
| 122 | 5610            | MCS0      | 14        | 13.91             | 24.576           | 23.98                | PASS   |
| 138 | 5690(U-NII 2C)  | MCS0      | 14        | 13.60             | 22.89            | 23.98                | PASS   |
| 138 | 5690 (U-NII 3)  | MCS0      | 14        | 2.55              | 1.80             | 30                   | PASS   |
| 155 | 5775            | MCS0      | 14        | 13.96             | 24.861           | 30                   | PASS   |

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## 802.11ac\_VHT80\_Ch1

| CH  | Frequency (MHz) | Data Rate | Power set | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-----------|-------------------|------------------|----------------------|--------|
| 42  | 5210            | MCS0      | 11        | 10.76             | 11.899           | 23.98                | PASS   |
| 58  | 5290            | MCS0      | 14        | 13.78             | 23.852           | 23.98                | PASS   |
| 106 | 5530            | MCS0      | 14.5      | 13.87             | 24.351           | 23.98                | PASS   |
| 122 | 5610            | MCS0      | 14.5      | 13.89             | 24.463           | 23.98                | PASS   |
| 138 | 5690(U-NII 2C)  | MCS0      | 14        | 13.34             | 21.58            | 23.98                | PASS   |
| 138 | 5690 (U-NII 3)  | MCS0      | 14        | 2.64              | 1.84             | 30                   | PASS   |
| 155 | 5775            | MCS0      | 14        | 13.74             | 23.633           | 30                   | PASS   |

## 802.11ac\_VHT80\_MIMO

| CH  | Frequency (MHz) | Data Rate | Power set | Avg. POWER (dBm) |       | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-----------|------------------|-------|-------------------|------------------|----------------------|--------|
|     |                 |           |           | CH 0             | CH 1  |                   |                  |                      |        |
| 42  | 5210            | MCS0      | 11        | 10.7             | 10.63 | <b>13.99</b>      | 25.065           | 21.31                | PASS   |
| 58  | 5290            | MCS0      | 14        | 13.86            | 13.38 | <b>16.95</b>      | 49.569           | 21.79                | PASS   |
| 106 | 5530            | MCS0      | 14        | 13.81            | 13.37 | <b>16.92</b>      | 49.216           | 21.62                | PASS   |
| 122 | 5610            | MCS0      | 14        | 13.73            | 13.33 | 16.86             | 48.530           | 21.62                | PASS   |
| 138 | 5690(U-NII 2C)  | MCS0      | 14        | 13.50            | 13.10 | 16.63             | 46.062           | 21.62                | PASS   |
| 138 | 5690 (U-NII 3)  | MCS0      | 14        | 2.45             | 2.39  | 5.75              | 3.763            | 27.92                | PASS   |
| 155 | 5775            | MCS0      | 14        | 13.75            | 13.36 | <b>16.88</b>      | 48.807           | 27.92                | PASS   |

## 9.5.2 ISED EIRP

## 802.11a\_Ch0

| CH  | Frequency (MHz) | TOTAL POWER (dBm) | Antenna Gain (dBi) | EIRP (dBm)   | EIRP (mW)      | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-------------------|--------------------|--------------|----------------|----------------------|--------|
| 36  | 5180            | <b>14.98</b>      | 5.88               | <b>20.86</b> | <b>121.836</b> | 22.18                | PASS   |
| 44  | 5220            | 14.94             | 5.88               | 20.82        | 120.719        | 22.18                | PASS   |
| 48  | 5240            | 14.91             | 5.88               | 20.79        | 119.888        | 22.18                | PASS   |
| 52  | 5260            | 14.94             | 4.73               | 19.67        | 92.635         | 29.18                | PASS   |
| 60  | 5300            | <b>14.97</b>      | 4.73               | <b>19.70</b> | <b>93.277</b>  | 29.19                | PASS   |
| 64  | 5320            | 14.96             | 4.73               | 19.69        | 93.062         | 29.18                | PASS   |
| 100 | 5500            | 14.87             | 4.80               | 19.67        | 92.635         | 29.18                | PASS   |
| 116 | 5580            | <b>14.90</b>      | 4.80               | <b>19.70</b> | <b>93.277</b>  | 29.19                | PASS   |
| 140 | 5700            | <b>14.93</b>      | 4.80               | <b>19.73</b> | <b>93.923</b>  | 29.18                | PASS   |

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## 802.11a\_Ch1

| CH  | Frequency (MHz) | TOTAL POWER (dBm) | Antenna Gain (dBi) | EIRP (dBm)   | EIRP (mW)      | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-------------------|--------------------|--------------|----------------|----------------------|--------|
| 36  | 5180            | 14.71             | 5.430              | 20.14        | 103.222        | 23.01                | PASS   |
| 44  | 5220            | 14.74             | 5.430              | 20.17        | 103.938        | 23.01                | PASS   |
| 48  | 5240            | <b>14.85</b>      | 5.430              | <b>20.28</b> | <b>106.604</b> | 23.01                | PASS   |
| 52  | 5260            | <b>14.87</b>      | 5.610              | <b>20.48</b> | <b>111.628</b> | 30                   | PASS   |
| 60  | 5300            | 14.69             | 5.610              | 20.30        | 107.096        | 30                   | PASS   |
| 64  | 5320            | 14.75             | 5.610              | 20.36        | 108.586        | 30                   | PASS   |
| 100 | 5500            | 14.52             | 5.860              | 20.38        | 109.087        | 30                   | PASS   |
| 116 | 5580            | <b>14.81</b>      | 5.860              | <b>20.67</b> | <b>116.620</b> | 30                   | PASS   |
| 140 | 5700            | <b>14.64</b>      | 5.860              | <b>20.50</b> | <b>112.143</b> | 30                   | PASS   |

## 802.11n\_HT20\_Ch0

| CH  | Frequency (MHz) | TOTAL POWER (dBm) | Antenna Gain (dBi) | EIRP (dBm)   | EIRP (mW)      | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-------------------|--------------------|--------------|----------------|----------------------|--------|
| 36  | 5180            | 7.93              | 5.88               | 13.81        | 24.031         | 22.47                | PASS   |
| 44  | 5220            | 8.06              | 5.88               | 13.94        | 24.761         | 22.47                | PASS   |
| 48  | 5240            | <b>8.11</b>       | 5.88               | <b>13.99</b> | <b>25.048</b>  | 22.46                | PASS   |
| 52  | 5260            | 15.87             | 4.73               | 20.60        | 114.756        | 29.48                | PASS   |
| 60  | 5300            | 15.89             | 4.73               | 20.62        | 115.285        | 29.48                | PASS   |
| 64  | 5320            | <b>15.93</b>      | 4.73               | <b>20.66</b> | <b>116.352</b> | 29.48                | PASS   |
| 100 | 5500            | <b>15.90</b>      | 4.80               | <b>20.70</b> | <b>117.429</b> | 29.48                | PASS   |
| 116 | 5580            | 15.86             | 4.80               | 20.66        | 116.352        | 29.49                | PASS   |
| 140 | 5700            | <b>15.92</b>      | 4.80               | <b>20.72</b> | <b>117.971</b> | 29.49                | PASS   |

## 802.11n\_HT20\_Ch1

| CH  | Frequency (MHz) | TOTAL POWER (dBm) | Antenna Gain (dBi) | EIRP (dBm)   | EIRP (mW)      | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-------------------|--------------------|--------------|----------------|----------------------|--------|
| 36  | 5180            | 7.85              | 5.430              | 13.28        | 21.270         | 23.01                | PASS   |
| 44  | 5220            | 7.92              | 5.430              | 13.35        | 21.616         | 23.01                | PASS   |
| 48  | 5240            | <b>7.95</b>       | 5.430              | <b>13.38</b> | <b>21.766</b>  | 23.01                | PASS   |
| 52  | 5260            | 15.84             | 5.610              | 21.45        | 139.564        | 30                   | PASS   |
| 60  | 5300            | 15.83             | 5.610              | 21.44        | 139.243        | 30                   | PASS   |
| 64  | 5320            | <b>15.88</b>      | 5.610              | <b>21.49</b> | <b>140.856</b> | 30                   | PASS   |
| 100 | 5500            | 15.59             | 5.860              | 21.45        | 139.564        | 30                   | PASS   |
| 116 | 5580            | <b>15.72</b>      | 5.860              | <b>21.58</b> | <b>143.805</b> | 30                   | PASS   |
| 140 | 5700            | <b>15.84</b>      | 5.860              | <b>21.70</b> | <b>147.834</b> | 30                   | PASS   |

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## 802.11n\_HT20\_MIMO

| CH  | Frequency (MHz) | TOTAL POWER (dBm) | Antenna Gain (dBi) | EIRP (dBm)   | EIRP (mW)      | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-------------------|--------------------|--------------|----------------|----------------------|--------|
| 36  | 5180            | 11.08             | 8.67               | 19.75        | 94.367         | 22.47                | PASS   |
| 44  | 5220            | <b>11.19</b>      | 8.67               | <b>19.86</b> | <b>96.897</b>  | 22.47                | PASS   |
| 48  | 5240            | 11.18             | 8.67               | 19.85        | 96.574         | 22.46                | PASS   |
| 52  | 5260            | 18.96             | 8.19               | 27.15        | 518.611        | 29.48                | PASS   |
| 60  | 5300            | 18.97             | 8.19               | 27.16        | 519.403        | 29.48                | PASS   |
| 64  | 5320            | <b>18.97</b>      | 8.19               | <b>27.16</b> | <b>520.436</b> | 29.48                | PASS   |
| 100 | 5500            | 18.81             | 8.36               | 27.17        | 520.731        | 29.48                | PASS   |
| 116 | 5580            | <b>18.92</b>      | 8.36               | <b>27.28</b> | <b>534.355</b> | 29.49                | PASS   |
| 140 | 5700            | <b>18.44</b>      | 8.36               | <b>26.80</b> | <b>478.225</b> | 29.49                | PASS   |

## 802.11n\_HT40\_Ch0

| CH  | Frequency (MHz) | TOTAL POWER (dBm) | Antenna Gain (dBi) | EIRP (dBm)   | EIRP (mW)     | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-------------------|--------------------|--------------|---------------|----------------------|--------|
| 38  | 5190            | 10.61             | 5.88               | 16.49        | 44.538        | 23.01                | PASS   |
| 46  | 5230            | <b>10.90</b>      | 5.88               | <b>16.78</b> | <b>47.613</b> | 23.01                | PASS   |
| 54  | 5270            | 14.90             | 4.73               | 19.63        | 91.776        | 30                   | PASS   |
| 62  | 5310            | <b>14.92</b>      | 4.73               | <b>19.65</b> | <b>92.200</b> | 30                   | PASS   |
| 102 | 5510            | <b>14.95</b>      | 4.80               | <b>19.75</b> | <b>94.347</b> | 30                   | PASS   |
| 110 | 5550            | 14.87             | 4.80               | 19.67        | 92.625        | 30                   | PASS   |
| 134 | 5670            | <b>14.90</b>      | 4.80               | <b>19.70</b> | <b>93.267</b> | 30                   | PASS   |

## 802.11n\_HT40\_Ch1

| CH  | Frequency (MHz) | TOTAL POWER (dBm) | Antenna Gain (dBi) | EIRP (dBm)   | EIRP (mW)      | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-------------------|--------------------|--------------|----------------|----------------------|--------|
| 38  | 5190            | 10.17             | 5.430              | 15.60        | 36.285         | 23.01                | PASS   |
| 46  | 5230            | <b>10.29</b>      | 5.430              | <b>15.72</b> | <b>37.302</b>  | 23.01                | PASS   |
| 54  | 5270            | 14.73             | 5.610              | 20.34        | 108.076        | 30                   | PASS   |
| 62  | 5310            | <b>14.83</b>      | 5.610              | <b>20.44</b> | <b>110.593</b> | 30                   | PASS   |
| 102 | 5510            | 14.81             | 5.860              | 20.67        | 116.608        | 30                   | PASS   |
| 110 | 5550            | <b>14.84</b>      | 5.860              | <b>20.70</b> | <b>117.416</b> | 30                   | PASS   |
| 134 | 5670            | <b>14.83</b>      | 5.860              | <b>20.69</b> | <b>117.146</b> | 30                   | PASS   |

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**802.11n\_HT40\_MIMO**

| CH  | Frequency (MHz) | TOTAL POWER (dBm) | Antenna Gain (dBi) | EIRP (dBm)   | EIRP (mW)      | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-------------------|--------------------|--------------|----------------|----------------------|--------|
| 38  | 5190            | 13.50             | 8.67               | 22.17        | 164.994        | 23.01                | PASS   |
| 46  | 5230            | <b>13.79</b>      | 8.67               | <b>22.46</b> | <b>176.200</b> | 23.01                | PASS   |
| 54  | 5270            | 17.92             | 8.19               | 26.11        | 408.216        | 30                   | PASS   |
| 62  | 5310            | <b>17.97</b>      | 8.19               | <b>26.16</b> | <b>413.484</b> | 30                   | PASS   |
| 102 | 5510            | <b>17.98</b>      | 8.36               | <b>26.34</b> | <b>430.857</b> | 30                   | PASS   |
| 110 | 5550            | 17.98             | 8.36               | 26.34        | 430.580        | 30                   | PASS   |
| 134 | 5670            | <b>17.76</b>      | 8.36               | <b>26.12</b> | <b>409.495</b> | 30                   | PASS   |

**802.11ac\_VHT80\_Ch0**

| CH  | Frequency (MHz) | TOTAL POWER (dBm) | Antenna Gain (dBi) | EIRP (dBm)   | EIRP (mW)     | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-------------------|--------------------|--------------|---------------|----------------------|--------|
| 42  | 5210            | <b>10.82</b>      | 5.88               | <b>16.70</b> | <b>46.722</b> | 23.01                | PASS   |
| 58  | 5290            | <b>13.97</b>      | 4.73               | <b>18.70</b> | <b>74.049</b> | 30                   | PASS   |
| 106 | 5530            | <b>13.90</b>      | 4.80               | <b>18.70</b> | <b>74.049</b> | 30                   | PASS   |

**802.11ac\_VHT80\_Ch1**

| CH  | Frequency (MHz) | TOTAL POWER (dBm) | Antenna Gain (dBi) | EIRP (dBm)   | EIRP (mW)     | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-------------------|--------------------|--------------|---------------|----------------------|--------|
| 42  | 5210            | <b>10.76</b>      | 5.430              | <b>16.19</b> | <b>41.545</b> | 23.01                | PASS   |
| 58  | 5290            | <b>13.78</b>      | 5.610              | <b>19.39</b> | <b>86.799</b> | 30                   | PASS   |
| 106 | 5530            | <b>13.87</b>      | 5.860              | <b>19.73</b> | <b>93.868</b> | 30                   | PASS   |

**802.11ac\_VHT80\_MIMO**

| CH  | Frequency (MHz) | TOTAL POWER (dBm) | Antenna Gain (dBi) | EIRP (dBm)   | EIRP (mW)      | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-------------------|--------------------|--------------|----------------|----------------------|--------|
| 42  | 5210            | <b>13.99</b>      | 8.67               | <b>22.66</b> | <b>184.528</b> | 23.01                | PASS   |
| 58  | 5290            | <b>16.95</b>      | 8.19               | <b>25.14</b> | <b>326.746</b> | 30                   | PASS   |
| 106 | 5530            | <b>16.92</b>      | 8.36               | <b>25.28</b> | <b>337.368</b> | 30                   | PASS   |

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### 9.5.3 Conducted output power (ISED)

#### 802.11a\_Ch0

| CH  | Frequency (MHz) | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-------------------|------------------|----------------------|--------|
| 52  | 5260            | 14.94             | 31.173           | 23.18                | PASS   |
| 60  | 5300            | <b>14.97</b>      | <b>31.389</b>    | 23.19                | PASS   |
| 64  | 5320            | 14.96             | 31.317           | 23.18                | PASS   |
| 100 | 5500            | 14.87             | 30.674           | 23.18                | PASS   |
| 116 | 5580            | 14.90             | 30.887           | 23.19                | PASS   |
| 140 | 5700            | 14.93             | <b>31.101</b>    | 23.18                | PASS   |
| 149 | 5745            | 14.89             | 30.816           | 30                   | PASS   |
| 157 | 5785            | 14.85             | 30.533           | 30                   | PASS   |
| 165 | 5825            | 14.96             | <b>31.317</b>    | 30                   | PASS   |

#### 802.11a\_Ch1

| CH  | Frequency (MHz) | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-------------------|------------------|----------------------|--------|
| 52  | 5260            | <b>14.87</b>      | <b>30.674</b>    | 23.18                | PASS   |
| 60  | 5300            | 14.69             | 29.429           | 23.19                | PASS   |
| 64  | 5320            | 14.75             | 29.838           | 23.18                | PASS   |
| 100 | 5500            | 14.52             | 28.299           | 23.18                | PASS   |
| 116 | 5580            | <b>14.81</b>      | <b>30.253</b>    | 23.19                | PASS   |
| 140 | 5700            | <b>14.64</b>      | <b>29.092</b>    | 23.18                | PASS   |
| 149 | 5745            | 14.57             | 28.627           | 30                   | PASS   |
| 157 | 5785            | <b>14.71</b>      | <b>29.565</b>    | 30                   | PASS   |
| 165 | 5825            | 14.58             | 28.693           | 30                   | PASS   |

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## 802.11n\_HT20\_Ch0

| CH  | Frequency (MHz) | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-------------------|------------------|----------------------|--------|
| 52  | 5260            | 15.87             | 38.617           | 23.48                | PASS   |
| 60  | 5300            | 15.89             | 38.795           | 23.48                | PASS   |
| 64  | 5320            | <b>15.93</b>      | 39.154           | 23.48                | PASS   |
| 100 | 5500            | <b>15.90</b>      | <b>38.884</b>    | 23.48                | PASS   |
| 116 | 5580            | 15.86             | 38.528           | 23.49                | PASS   |
| 140 | 5700            | <b>15.92</b>      | <b>39.064</b>    | 23.49                | PASS   |
| 144 | 5720(U-NII 2C)  | 14.45             | 27.876           | 22.42                | PASS   |
| 144 | 5720 (U-NII 3)  | 10.52             | 11.278           | 30                   | PASS   |
| 149 | 5745            | 15.88             | 38.706           | 30                   | PASS   |
| 157 | 5785            | 15.94             | 39.244           | 30                   | PASS   |
| 165 | 5825            | <b>15.96</b>      | <b>39.425</b>    | 30                   | PASS   |

## 802.11n\_HT20\_Ch1

| CH  | Frequency (MHz) | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-------------------|------------------|----------------------|--------|
| 52  | 5260            | 15.84             | 38.351           | 23.48                | PASS   |
| 60  | 5300            | 15.83             | 38.263           | 23.49                | PASS   |
| 64  | 5320            | <b>15.88</b>      | <b>38.706</b>    | 23.48                | PASS   |
| 100 | 5500            | 15.59             | 36.205           | 23.49                | PASS   |
| 116 | 5580            | <b>15.72</b>      | <b>37.306</b>    | 23.49                | PASS   |
| 140 | 5700            | <b>15.84</b>      | <b>38.351</b>    | 23.5                 | PASS   |
| 144 | 5720(U-NII 2C)  | 14.34             | 27.161           | 22.42                | PASS   |
| 144 | 5720 (U-NII 3)  | 10.42             | 11.013           | 30                   | PASS   |
| 149 | 5745            | <b>15.87</b>      | <b>38.617</b>    | 30                   | PASS   |
| 157 | 5785            | 15.64             | 36.625           | 30                   | PASS   |
| 165 | 5825            | 15.59             | 36.205           | 30                   | PASS   |

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802.11n\_HT20\_MIMO

| CH  | Frequency (MHz) | AVERAGE POWER (dBm) |         | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|---------------------|---------|-------------------|------------------|----------------------|--------|
|     |                 | CH 0                | CH 1    |                   |                  |                      |        |
| 52  | 5260            | 16.5                | 15.11   | 18.96             | 78.676           | 23.48                | PASS   |
| 60  | 5300            | 16.43               | 15.22   | 18.97             | 78.796           | 23.48                | PASS   |
| 64  | 5320            | 16.43               | 15.24   | <b>18.97</b>      | <b>78.953</b>    | 23.48                | PASS   |
| 100 | 5500            | 16.64               | 14.52   | 18.81             | 75.965           | 23.48                | PASS   |
| 116 | 5580            | 16.71               | 14.7    | <b>18.92</b>      | <b>77.952</b>    | 23.49                | PASS   |
| 140 | 5700            | 16.4                | 13.93   | <b>18.44</b>      | <b>69.764</b>    | 23.49                | PASS   |
| 144 | 5720(U-NII 2C)  | 14.9745             | 12.3018 | 16.94             | 49.441           | 22.42                | PASS   |
| 144 | 5720 (U-NII 3)  | 11.0446             | 8.38137 | 13.01             | 20.019           | 27.92                | PASS   |
| 149 | 5745            | 16.58               | 14.53   | 18.77             | 75.386           | 27.92                | PASS   |
| 157 | 5785            | 16.58               | 14.68   | <b>18.83</b>      | <b>76.403</b>    | 27.92                | PASS   |
| 165 | 5825            | 16.57               | 14.51   | 18.76             | 75.146           | 27.92                | PASS   |

802.11n\_HT40\_Ch0

| CH  | Frequency (MHz) | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-------------------|------------------|----------------------|--------|
| 54  | 5270            | 14.90             | 30.884           | 23.98                | PASS   |
| 62  | 5310            | <b>14.92</b>      | 31.026           | 23.98                | PASS   |
| 102 | 5510            | <b>14.95</b>      | <b>31.241</b>    | 23.98                | PASS   |
| 110 | 5550            | 14.87             | 30.671           | 23.98                | PASS   |
| 134 | 5670            | <b>14.90</b>      | <b>30.884</b>    | 23.98                | PASS   |
| 142 | 5710(U-NII 2C)  | 14.26             | 26.645           | 23.98                | PASS   |
| 142 | 5710 (U-NII 3)  | 6.12              | 4.096            | 30                   | PASS   |
| 151 | 5755            | <b>14.99</b>      | <b>31.530</b>    | 30                   | PASS   |
| 159 | 5795            | 14.94             | 31.169           | 30                   | PASS   |

802.11n\_HT40\_Ch1

| CH  | Frequency (MHz) | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-------------------|------------------|----------------------|--------|
| 54  | 5270            | 14.73             | 29.698           | 23.98                | PASS   |
| 62  | 5310            | <b>14.83</b>      | 30.390           | 23.98                | PASS   |
| 102 | 5510            | 14.81             | 30.250           | 23.98                | PASS   |
| 110 | 5550            | <b>14.84</b>      | <b>30.460</b>    | 23.98                | PASS   |
| 134 | 5670            | <b>14.83</b>      | <b>30.390</b>    | 23.98                | PASS   |
| 142 | 5710(U-NII 2C)  | 14.12             | 25.813           | 23.98                | PASS   |
| 142 | 5710 (U-NII 3)  | 5.89              | 3.885            | 30                   | PASS   |
| 151 | 5755            | 14.67             | 29.291           | 30                   | PASS   |
| 159 | 5795            | <b>14.82</b>      | <b>30.320</b>    | 30                   | PASS   |

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802.11n\_HT40\_MIMO

| CH  | Frequency (MHz) | AVERAGE POWER (dBm) |         | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|---------------------|---------|-------------------|------------------|----------------------|--------|
|     |                 | CH 0                | CH 1    |                   |                  |                      |        |
| 54  | 5270            | 15.29               | 14.09   | 17.92             | 61.928           | 23.98                | PASS   |
| 62  | 5310            | 15.35               | 14.14   | 17.97             | 62.728           | 23.98                | PASS   |
| 102 | 5510            | 15.15               | 14.41   | <b>17.98</b>      | <b>62.854</b>    | 23.98                | PASS   |
| 110 | 5550            | 14.95               | 14.63   | 17.98             | 62.814           | 23.98                | PASS   |
| 134 | 5670            | 14.92               | 14.2    | <b>17.76</b>      | <b>59.738</b>    | 23.98                | PASS   |
| 142 | 5710(U-NII 2C)  | 14.8189             | 13.4011 | 17.36             | 54.424           | 23.98                | PASS   |
| 142 | 5710 (U-NII 3)  | 6.68673             | 5.17656 | 9.19              | 8.293            | 27.92                | PASS   |
| 151 | 5755            | 15.52               | 13.67   | 17.88             | 61.381           | 27.92                | PASS   |
| 159 | 5795            | 15.68               | 13.61   | <b>17.95</b>      | <b>62.442</b>    | 27.92                | PASS   |

802.11ac\_VHT80\_Ch0

| CH  | Frequency (MHz) | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-------------------|------------------|----------------------|--------|
| 58  | 5290            | <b>13.97</b>      | <b>24.918</b>    | 23.98                | PASS   |
| 106 | 5530            | 13.90             | 24.520           | 23.98                | PASS   |
| 122 | 5610            | <b>13.91</b>      | <b>24.576</b>    | 23.98                | PASS   |
| 138 | 5690(U-NII 2C)  | 13.60             | 22.891           | 23.98                | PASS   |
| 138 | 5690 (U-NII 3)  | 2.55              | 1.799            | 30                   | PASS   |
| 155 | 5775            | <b>13.96</b>      | <b>24.861</b>    | 30                   | PASS   |

802.11ac\_VHT80\_Ch1

| CH  | Frequency (MHz) | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-------------------|------------------|----------------------|--------|
| 58  | 5290            | <b>13.78</b>      | 23.852           | 23.98                | PASS   |
| 106 | 5530            | 13.87             | 24.351           | 23.98                | PASS   |
| 122 | 5610            | <b>13.89</b>      | <b>24.463</b>    | 23.98                | PASS   |
| 138 | 5690(U-NII 2C)  | 13.34             | 21.580           | 23.98                | PASS   |
| 138 | 5690 (U-NII 3)  | 2.64              | 1.836            | 30                   | PASS   |
| 155 | 5775            | <b>13.74</b>      | <b>23.633</b>    | 30                   | PASS   |

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## 802.11ac\_VHT80\_MIMO

| CH  | Frequency (MHz) | AVERAGE POWER (dBm) |         | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|---------------------|---------|-------------------|------------------|----------------------|--------|
|     |                 | CH 0                | CH 1    |                   |                  |                      |        |
| 58  | 5290            | 13.86               | 13.38   | <b>16.95</b>      | <b>49.569</b>    | 23.98                | PASS   |
| 106 | 5530            | 13.81               | 13.37   | <b>16.92</b>      | <b>49.216</b>    | 23.98                | PASS   |
| 122 | 5610            | 13.73               | 13.33   | 16.86             | 48.530           | 23.98                | PASS   |
| 138 | 5690(U-NII 2C)  | 13.5015             | 13.0954 | 16.63             | 46.062           | 23.98                | PASS   |
| 138 | 5690 (U-NII 3)  | 2.45478             | 2.39398 | 5.75              | 3.763            | 27.92                | PASS   |
| 155 | 5775            | 13.75               | 13.36   | <b>16.88</b>      | <b>48.807</b>    | 27.92                | PASS   |

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## 10 MAXIMUM POWER SPECTRAL DENSITY

### 10.1 Standard Applicable

#### FCC

| OPERZTION Band | EUT CATEGORY                        |                                   | LIMIT         |
|----------------|-------------------------------------|-----------------------------------|---------------|
| U-NII-1        | <input type="checkbox"/>            | Access Point (Master device )     | 17dBm/ MHz    |
|                | <input type="checkbox"/>            | Fixed point-to-point Access Ponit |               |
|                | <input checked="" type="checkbox"/> | Mobile and portable client device | 11dBm/ MHz    |
| U-NII-2A       | <input checked="" type="checkbox"/> |                                   | 11dBm/ MHz    |
| U-NII-2C       | <input checked="" type="checkbox"/> |                                   | 11dBm/ MHz    |
| U-NII-3        | <input checked="" type="checkbox"/> |                                   | 30dBm/ 500kHz |

If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### ISED

| OPERZTION FREQUENCY BAND        | LIMIT                              |
|---------------------------------|------------------------------------|
| 5150~5250 MHz                   | EIRP spectral density 10 dBm / MHz |
| 5250~5350 MHz                   | 11dBm / MHz                        |
| 5470-5600 MHz and 5650-5725 MHz | 11dBm / MHz                        |
| 5725~5850 MHz                   | 30dBm / 500 kHz                    |

For equipment operating in the band **5725-5850** MHz, If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### Note:

As per section F. 2). e). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

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$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

$g_{j,k} = \frac{1}{20} 10G_k$  if the kth antenna is being fed by spatial stream j, or zero if it is not;

$G_k$  is the gain in dBi of the kth antenna.

The antenna gain is not greater than 6 dBi. Therefore, reduction of power is not required.

## 10.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. **For U-NII1, U-NII-2A, U-NII-2C Band:**  
Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (1001 pts), Detector = power averaging (rms), if available. Otherwise, use sample detector mode, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
- For U-NII-3 Band:**  
Set RBW=300kHz, VBW=1MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto, detector = RMS or sample, traces 100 sweeps of video averaging.  
In addition, measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10 log (500 kHz/RBW) to the measured result.
5. Use the cursor on spectrum to peak search the highest level of trace
6. Record the max. reading and add 10 log(1/duty cycle).
7. Repeat above procedures until all default test channel (low, middle, and high) was complete.
8. MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure the PSD for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna.

**Note: For the test of PSD at MIMO mode, the highest emission of worst case employing Measure and add 10 log (N) technical is reported after the comparison between Main Antenna at single transmitting mode and Aux that yields the higher value. The MIMO transmitting mode produces higher value of outcome.**

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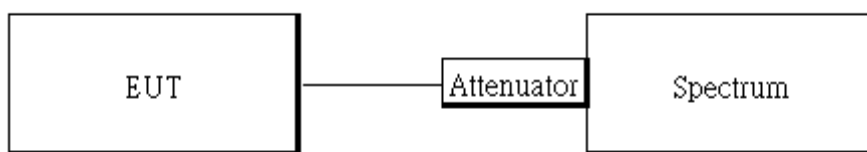
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### 10.3 Measurement Equipment Used

| Conducted Emission Test Site: Conducted G |           |               |               |            |            |
|---|-----------|---------------|---------------|------------|------------|
| EQUIPMENT TYPE                            | MFR       | MODEL NUMBER  | SERIAL NUMBER | LAST CAL.  | CAL DUE.   |
| Spectrum Analyzer                         | KEYSIGHT  | N9010B        | MY59071570    | 06/01/2021 | 05/31/2022 |
| Attenuator                                | Marvelous | WATT-218FS-10 | RF16          | 11/19/2020 | 11/18/2021 |
| DC Block                                  | PASTERNAK | PE8210        | RF154         | 11/19/2020 | 11/18/2021 |

### 10.4 Test Set-up



### 10.5 Measurement Result

#### 10.5.1 Power spectral density

| POWER DENSITY 802.11a MODE |                           |                           |                  |                               |                                |                  |             |
|----------------------------|---------------------------|---------------------------|------------------|-------------------------------|--------------------------------|------------------|-------------|
| Frequency (MHz)            | ch0 meas PSD (dBm/MHz)    | ch1 meas PSD (dBm/MHz)    | Duty Factor (dB) | Maxmum Corr'd PSD(dBm/MHz)    |                                | Limit            | Margin (dB) |
| 5180                       | 4.19                      | -                         | 0.00             | 4.19                          |                                | 11.00 dBm/MHz    | -6.81       |
| 5220                       | 4.28                      | -                         | 0.00             | 4.28                          |                                | 11.00 dBm/MHz    | -6.72       |
| 5240                       | 4.21                      | -                         | 0.00             | 4.21                          |                                | 11.00 dBm/MHz    | -6.79       |
| 5260                       | 5.06                      | -                         | 0.00             | 5.06                          |                                | 11.00 dBm/MHz    | -5.94       |
| 5300                       | 4.72                      | -                         | 0.00             | 4.72                          |                                | 11.00 dBm/MHz    | -6.28       |
| 5320                       | 5.01                      | -                         | 0.00             | 5.01                          |                                | 11.00 dBm/MHz    | -5.99       |
| 5500                       | 4.62                      | -                         | 0.00             | 4.62                          |                                | 11.00 dBm/MHz    | -6.38       |
| 5580                       | 5.15                      | -                         | 0.00             | 5.15                          |                                | 11.00 dBm/MHz    | -5.85       |
| 5700                       | 5.35                      | -                         | 0.00             | 5.35                          |                                | 11.00 dBm/MHz    | -5.65       |
| Frequency (MHz)            | ch0 meas PSD (dBm/300kHz) | ch1 meas PSD (dBm/300kHz) | Duty Factor (dB) | 10log (500kHz/RBW) Factor(dB) | Maxmum Corr'd PSD (dBm/500kHz) | Limit            | Margin (dB) |
| 5745                       | 0.69                      | -                         | 0.00             | 2.22                          | 2.91                           | 30.00 dBm/500kHz | -27.10      |
| 5785                       | 0.26                      | -                         | 0.00             | 2.22                          | 2.48                           | 30.00 dBm/500kHz | -27.52      |
| 5825                       | 0.28                      | -                         | 0.00             | 2.22                          | 2.50                           | 30.00 dBm/500kHz | -27.50      |

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| POWER DENSITY 802.11n HT20 MODE |                           |                           |                  |                               |                               |                  |             |
|---------------------------------|---------------------------|---------------------------|------------------|-------------------------------|-------------------------------|------------------|-------------|
| Frequency (MHz)                 | ch0 meas PSD (dBm/MHz)    | ch1 meas PSD (dBm/MHz)    | Duty Factor (dB) | Maxmum Corr'd PSD(dBm/MHz)    |                               | Limit            | Margin (dB) |
| 5180                            | -2.13                     | -2.18                     | 0.00             | 0.86                          |                               | 8.33 dBm/MHz     | -7.47       |
| 5220                            | -2.74                     | -2.45                     | 0.00             | 0.42                          |                               | 8.33 dBm/MHz     | -7.91       |
| 5240                            | -2.65                     | -2.25                     | 0.00             | 0.56                          |                               | 8.33 dBm/MHz     | -7.77       |
| 5260                            | 5.37                      | 5.24                      | 0.00             | 8.31                          |                               | 8.81 dBm/MHz     | -0.50       |
| 5300                            | 5.20                      | 5.17                      | 0.00             | 8.19                          |                               | 8.81 dBm/MHz     | -0.62       |
| 5320                            | 5.87                      | 5.70                      | 0.00             | 8.80                          |                               | 8.81 dBm/MHz     | -0.01       |
| 5500                            | 5.28                      | 5.40                      | 0.00             | 8.35                          |                               | 8.64 dBm/MHz     | -0.29       |
| 5580                            | 5.54                      | 5.58                      | 0.00             | 8.57                          |                               | 8.64 dBm/MHz     | -0.07       |
| 5700                            | 5.36                      | 5.69                      | 0.00             | 8.54                          |                               | 8.64 dBm/MHz     | -0.10       |
| 5720 (U-NII 2C)                 | 5.44                      | 5.48                      | 0.00             | 8.47                          |                               | 8.64 dBm/MHz     | -0.17       |
| Frequency (MHz)                 | ch0 meas PSD (dBm/300kHz) | ch1 meas PSD (dBm/300kHz) | Duty Factor (dB) | 10log (500kHz/RBW) Factor(dB) | Maxmum Corr'd PSD(dBm/500kHz) | Limit            | Margin (dB) |
| 5720 (U-NII 3)                  | -0.31                     | -0.99                     | 0.00             | 2.22                          | 4.59                          | 27.92 dBm/500kHz | -23.33      |
| 5745                            | 1.87                      | 2.15                      | 0.00             | 2.22                          | 7.24                          | 27.92 dBm/500kHz | -20.68      |
| 5785                            | 2.52                      | 2.70                      | 0.00             | 2.22                          | 7.84                          | 27.92 dBm/500kHz | -20.08      |
| 5825                            | 1.99                      | 1.76                      | 0.00             | 2.22                          | 7.11                          | 27.92 dBm/500kHz | -20.81      |
| POWER DENSITY 802.11n HT40 MODE |                           |                           |                  |                               |                               |                  |             |
| Frequency (MHz)                 | ch0 meas PSD (dBm/MHz)    | ch1 meas PSD (dBm/MHz)    | Duty Factor (dB) | Maxmum Corr'd PSD(dBm/MHz)    |                               | Limit            | Margin (dB) |
| 5190                            | -2.90                     | -2.78                     | 0.18             | 0.35                          |                               | 8.33 dBm/MHz     | -7.98       |
| 5230                            | -2.91                     | -2.76                     | 0.18             | 0.36                          |                               | 8.33 dBm/MHz     | -7.97       |
| 5270                            | 1.94                      | 2.05                      | 0.18             | 5.18                          |                               | 8.81 dBm/MHz     | -3.63       |
| 5310                            | 1.77                      | 1.58                      | 0.18             | 4.87                          |                               | 8.81 dBm/MHz     | -3.94       |
| 5510                            | 2.30                      | 2.60                      | 0.18             | 5.64                          |                               | 8.64 dBm/MHz     | -3.00       |
| 5550                            | 2.69                      | 2.52                      | 0.18             | 5.80                          |                               | 8.64 dBm/MHz     | -2.84       |
| 5670                            | 2.82                      | 2.68                      | 0.18             | 5.94                          |                               | 8.64 dBm/MHz     | -2.70       |
| 5710 (U-NII 2C)                 | 3.08                      | 2.87                      | 0.18             | 6.17                          |                               | 8.64 dBm/MHz     | -2.47       |
| Frequency (MHz)                 | ch0 meas PSD (dBm/300kHz) | ch1 meas PSD (dBm/300kHz) | Duty Factor (dB) | 10log (500kHz/RBW) Factor(dB) | Maxmum Corr'd PSD(dBm/500kHz) | Limit            | Margin (dB) |
| 5710 (U-NII 3)                  | -3.23                     | -3.98                     | 0.18             | 2.22                          | 1.82                          | 27.92 dBm/500kHz | -26.10      |
| 5755                            | -2.37                     | -2.14                     | 0.18             | 2.22                          | 3.16                          | 27.92 dBm/500kHz | -24.76      |
| 5795                            | -2.07                     | -2.45                     | 0.18             | 2.22                          | 3.15                          | 27.92 dBm/500kHz | -24.77      |

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| POWER DENSITY 802.11ac VHT80 MODE |                           |                           |                  |                               |                                |                  |             |
|-----------------------------------|---------------------------|---------------------------|------------------|-------------------------------|--------------------------------|------------------|-------------|
| Frequency (MHz)                   | ch0 meas PSD (dBm/MHz)    | ch1 meas PSD (dBm/MHz)    | Duty Factor (dB) | Maxmum Corr'd PSD(dBm/MHz)    |                                | Limit            | Margin (dB) |
| 5210                              | -6.03                     | -5.97                     | 0.32             |                               |                                | 8.33 dBm/MHz     | -11.00      |
| 5290                              | -2.62                     | -2.66                     | 0.32             |                               |                                | 8.81 dBm/MHz     | -8.12       |
| 5530                              | -2.40                     | -2.60                     | 0.32             |                               |                                | 8.64 dBm/MHz     | -7.81       |
| 5610                              | -2.29                     | -2.49                     | 0.32             |                               |                                | 8.64 dBm/MHz     | -7.70       |
| 5690 (U-NII 2C)                   | -2.19                     | -2.46                     | 0.32             |                               |                                | 8.64 dBm/MHz     | -7.63       |
| Frequency (MHz)                   | ch0 meas PSD (dBm/300kHz) | ch1 meas PSD (dBm/300kHz) | Duty Factor (dB) | 10log (500kHz/RBW) Factor(dB) | Maxmum Corr'd PSD(dBm/500k Hz) | Limit            | Margin (dB) |
| 5690 (U-NII 3)                    | -8.58                     | -8.24                     | 0.32             | 2.22                          | -2.86                          | 27.92 dBm/500kHz | -30.78      |
| 5775                              | -7.65                     | -7.68                     | 0.32             | 2.22                          | -2.12                          | 27.92 dBm/500kHz | -30.04      |

| EIRP spectral density 802.11a MODE |           |                 |                |             |             |
|------------------------------------|-----------|-----------------|----------------|-------------|-------------|
| Freq. (MHz)                        | PSD (dBm) | Ant. Gain (dBi) | EIRP PSD (dBm) | Limit (dBm) | Margin (dB) |
| 5180                               | 4.19      | 5.43            | 9.62           | 10          | -0.38       |
| 5220                               | 4.28      | 5.43            | 9.71           | 10          | -0.29       |
| 5240                               | 4.21      | 5.43            | 9.64           | 10          | -0.36       |

| EIRP spectral density 802.11n HT20 MODE |           |                 |               |             |             |
|---|-----------|-----------------|---------------|-------------|-------------|
| Freq. (MHz)                             | PSD (dBm) | Ant. Gain (dBi) | EIRP SD (dBm) | Limit (dBm) | Margin (dB) |
| 5180                                    | 0.86      | 8.67            | 9.53          | 10          | -0.47       |
| 5220                                    | 0.42      | 8.67            | 9.09          | 10          | -0.91       |
| 5240                                    | 0.56      | 8.67            | 9.23          | 10          | -0.77       |

| EIRP spectral density 802.11n HT40 MODE |           |                 |               |             |             |
|---|-----------|-----------------|---------------|-------------|-------------|
| Freq. (MHz)                             | PSD (dBm) | Ant. Gain (dBi) | EIRP SD (dBm) | Limit (dBm) | Margin (dB) |
| 5190                                    | 0.35      | 8.67            | 9.02          | 10          | -0.98       |
| 5230                                    | 0.36      | 8.67            | 9.03          | 10          | -0.97       |

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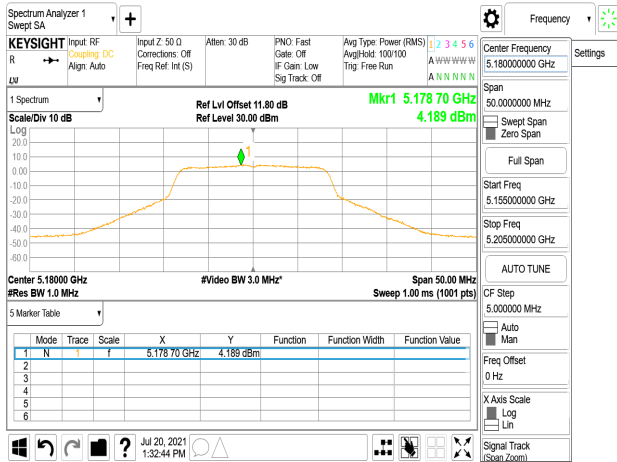
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| EIRP spectral density 802.11ac VHT80 MODE |           |                 |               |             |             |
|---|-----------|-----------------|---------------|-------------|-------------|
| Freq. (MHz)                               | PSD (dBm) | Ant. Gain (dBi) | EIRP SD (dBm) | Limit (dBm) | Margin (dB) |
| 5210                                      | -2.67     | 8.67            | 6.00          | 10          | -4.00       |

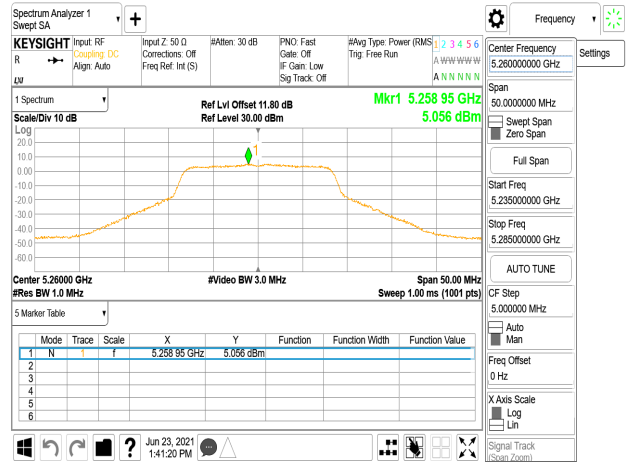
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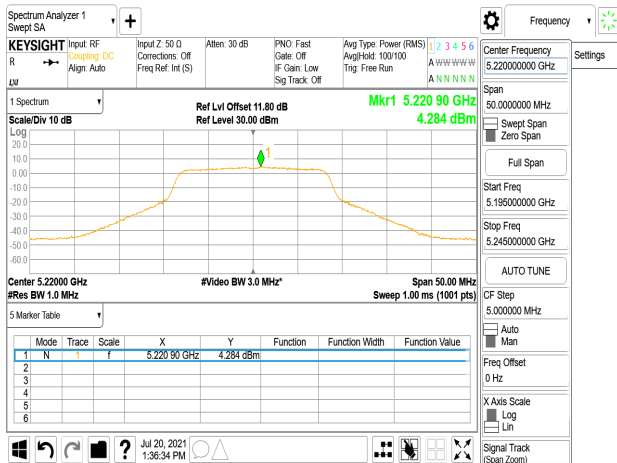
802.11a\_20MHz\_Chain0\_5180MHz



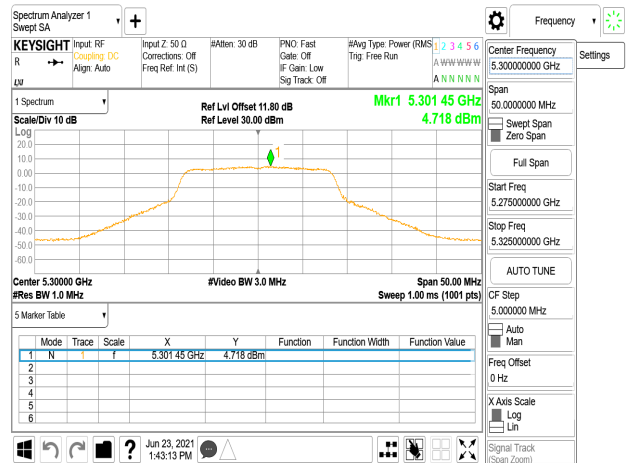
802.11a\_20MHz\_Chain0\_5260MHz



802.11a\_20MHz\_Chain0\_5220MHz



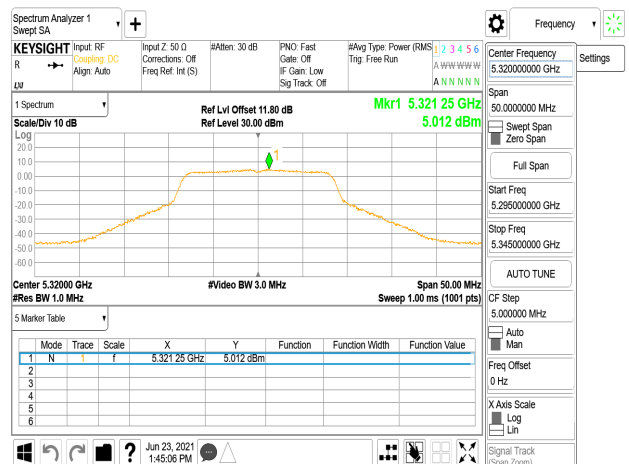
802.11a\_20MHz\_Chain0\_5300MHz



802.11a\_20MHz\_Chain0\_5240MHz



802.11a\_20MHz\_Chain0\_5320MHz

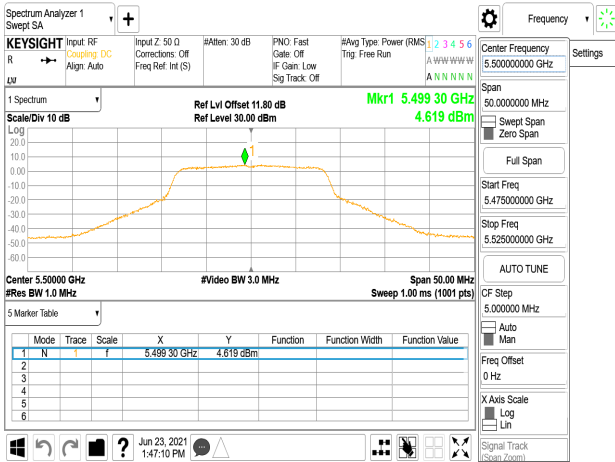


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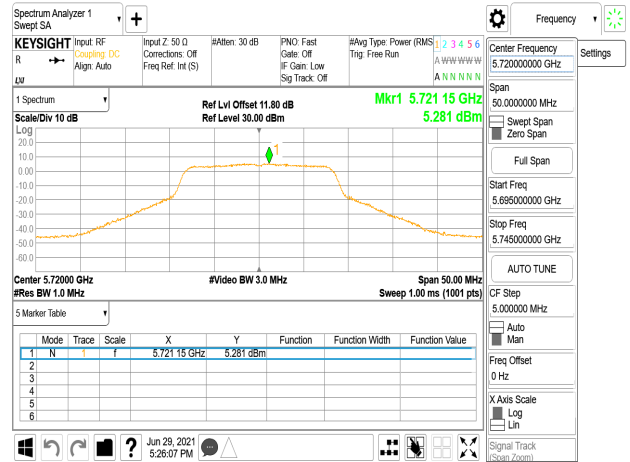
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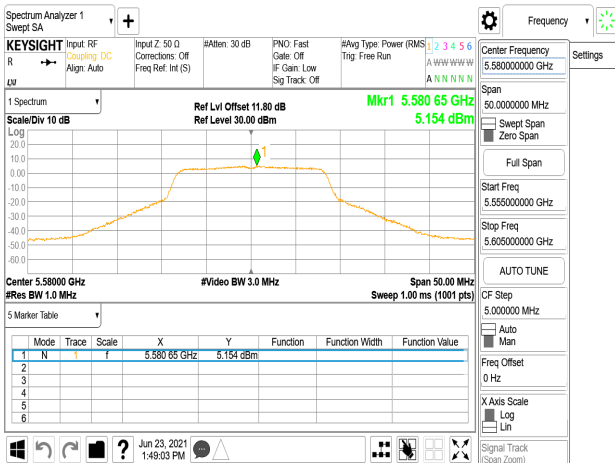
802.11a\_20MHz\_Chain0\_5500MHz



802.11a\_20MHz\_Chain0\_5720MHz\_UNII 2C



802.11a\_20MHz\_Chain0\_5580MHz



802.11a\_20MHz\_Chain0\_5720MHz\_UNII 3



802.11a\_20MHz\_Chain0\_5700MHz



802.11a\_20MHz\_Chain0\_5745MHz

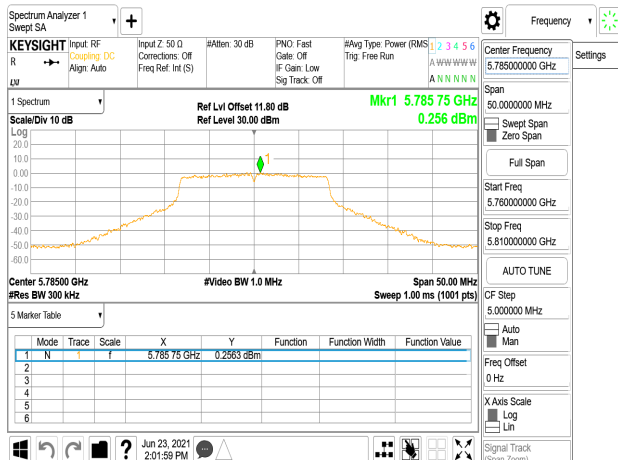


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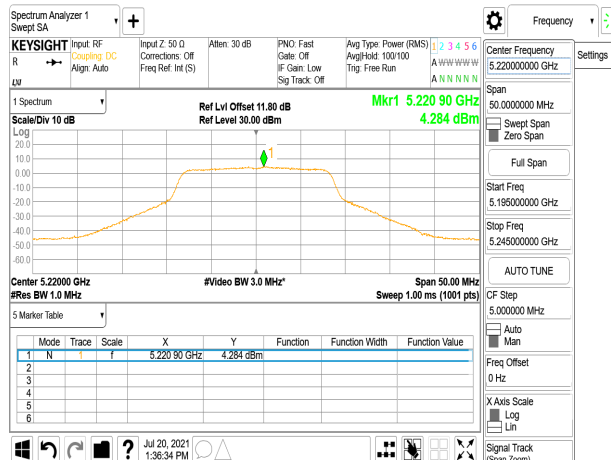
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802.11a\_20MHz\_Chain0\_5785MHz



802.11a\_20MHz\_test\_Chain0



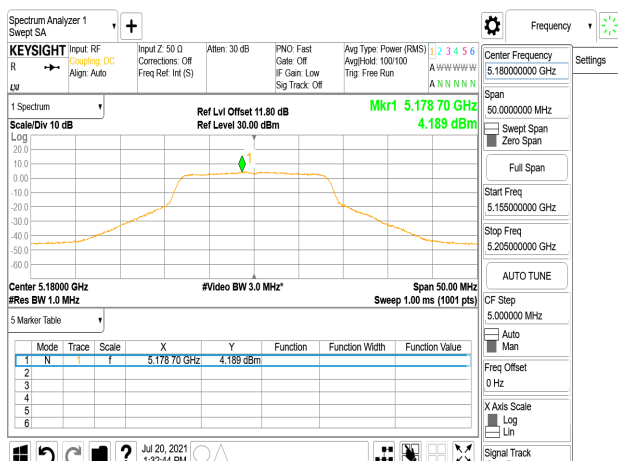
802.11a\_20MHz\_Chain0\_5825MHz



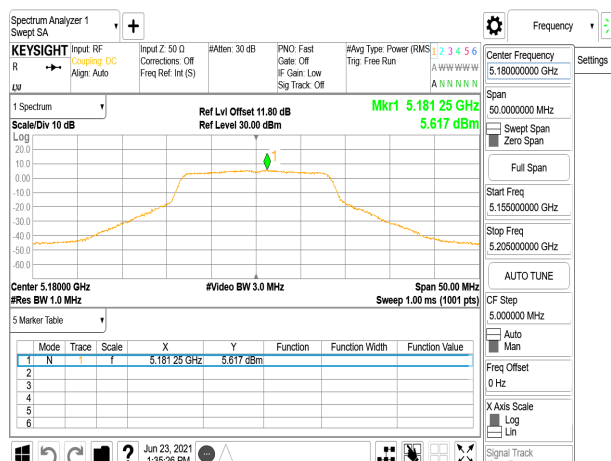
802.11a\_20MHz\_test\_Chain0



802.11a\_20MHz\_test\_Chain0



802.11a\_20MHz\_test\_備

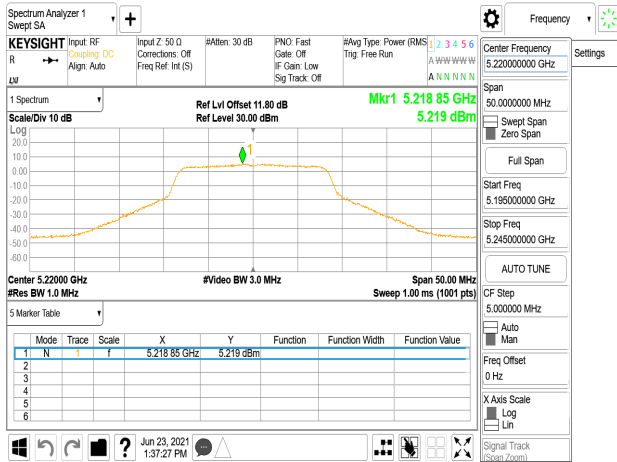


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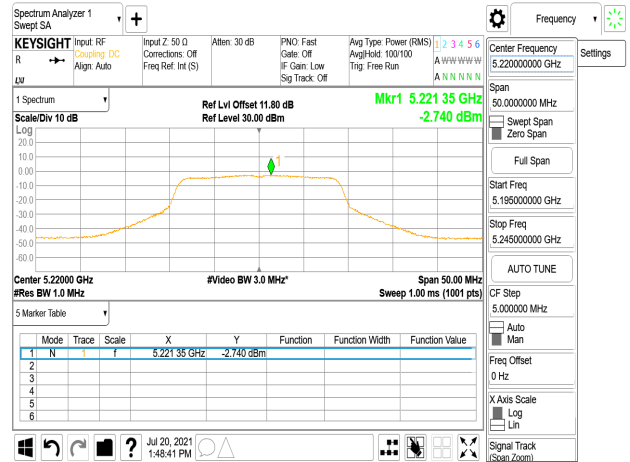
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802.11a\_20MHz\_test\_備



802.11n\_20MHz\_Chain0\_5220MHz



802.11a\_20MHz\_test\_備



802.11n\_20MHz\_Chain0\_5240MHz



802.11n\_20MHz\_Chain0\_5180MHz



802.11n\_20MHz\_Chain0\_5260MHz

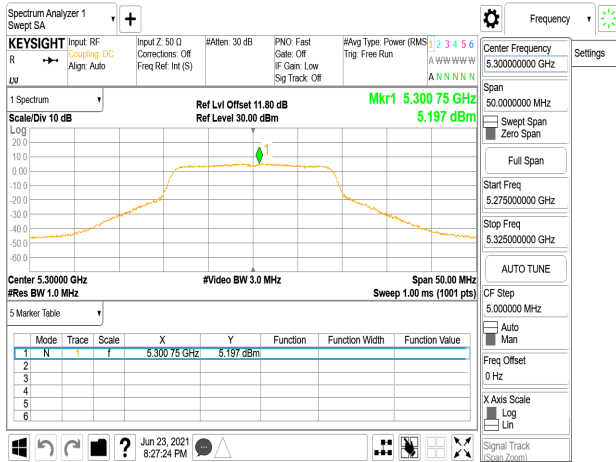


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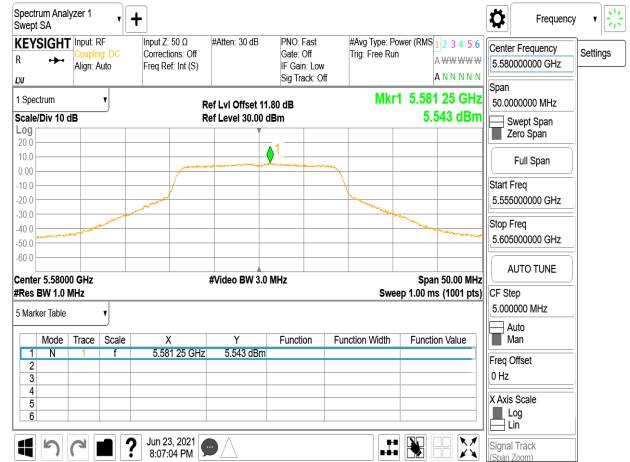
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802.11n\_20MHz\_Chain0\_5300MHz



802.11n\_20MHz\_Chain0\_5580MHz



802.11n\_20MHz\_Chain0\_5320MHz



802.11n\_20MHz\_Chain0\_5700MHz



802.11n\_20MHz\_Chain0\_5500MHz



802.11n\_20MHz\_Chain0\_5720MHz\_UNII 2C



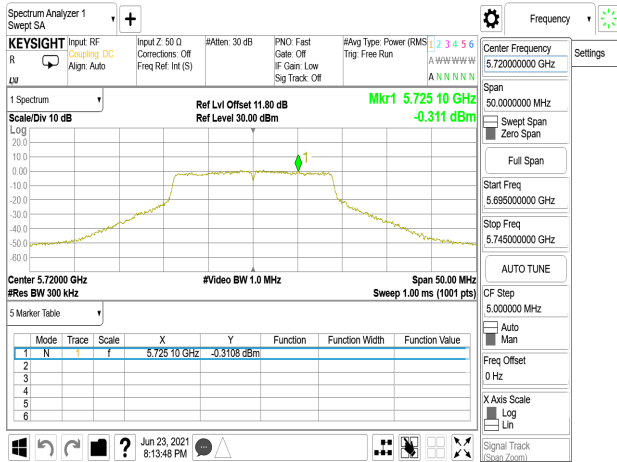
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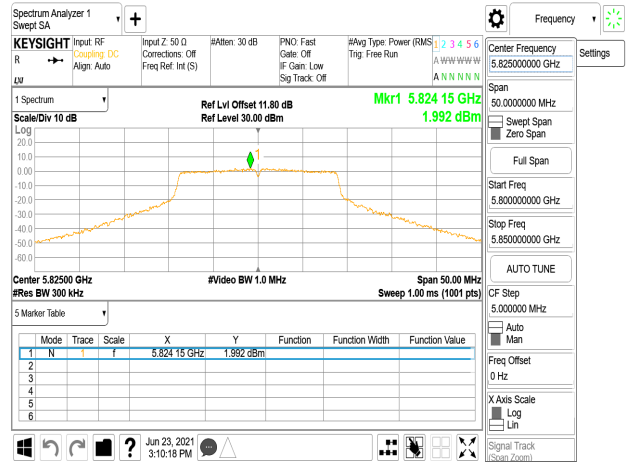
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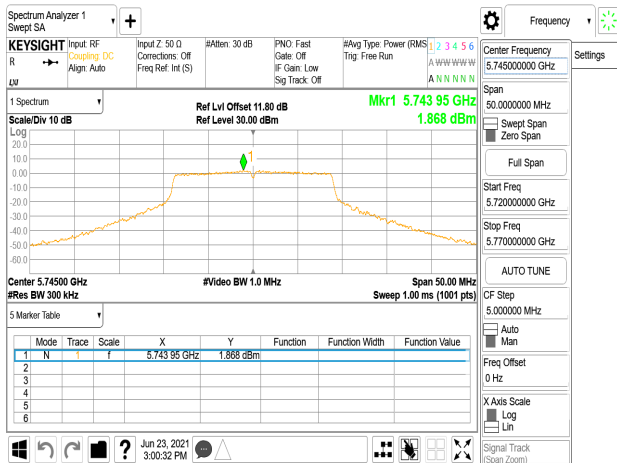
802.11n\_20MHz\_Chain0\_5720MHz\_UNII 3



802.11n\_20MHz\_Chain0\_5825MHz



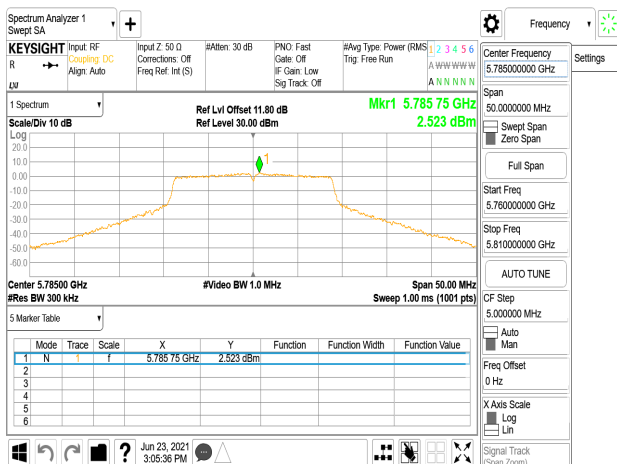
802.11n\_20MHz\_Chain0\_5745MHz



802.11n\_20MHz\_Chain1\_5180MHz



802.11n\_20MHz\_Chain0\_5785MHz



802.11n\_20MHz\_Chain1\_5220MHz



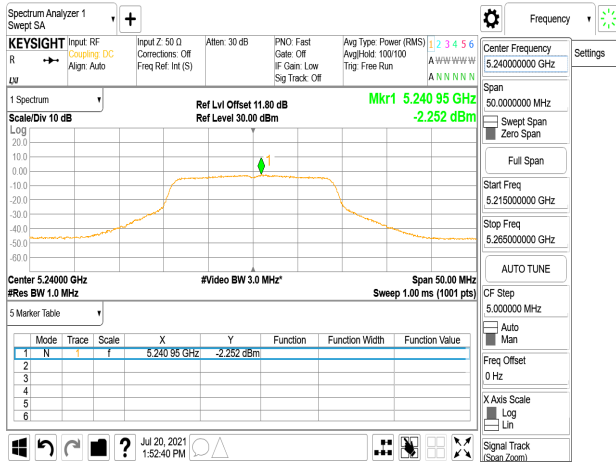
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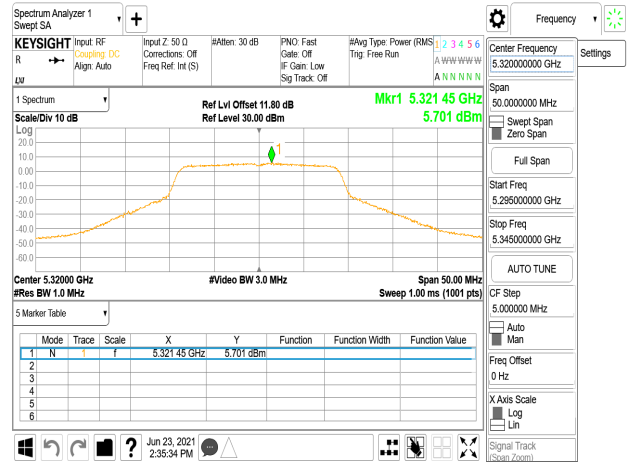
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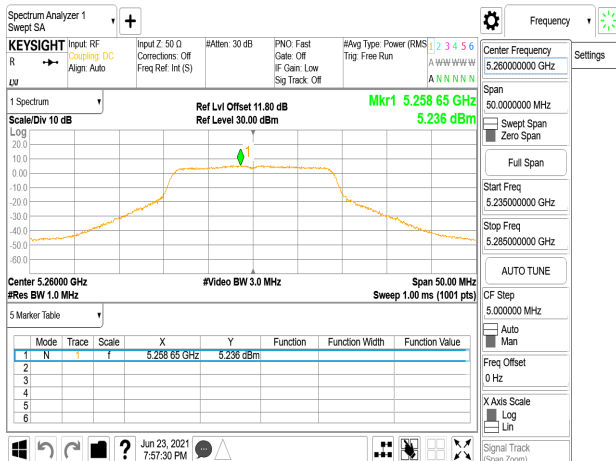
802.11n\_20MHz\_Chain1\_5240MHz



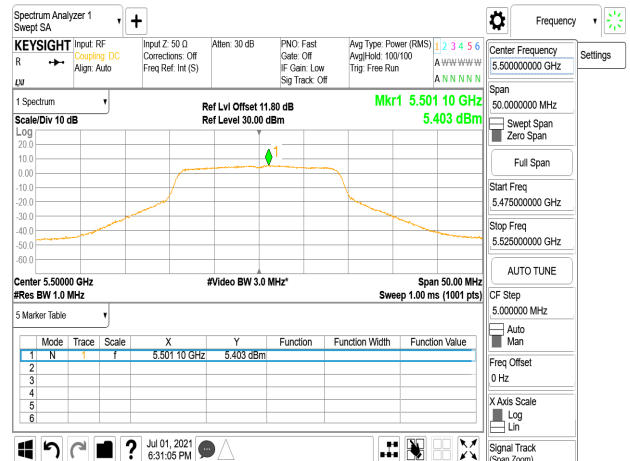
802.11n\_20MHz\_Chain1\_5320MHz



802.11n\_20MHz\_Chain1\_5260MHz



802.11n\_20MHz\_Chain1\_5500MHz



802.11n\_20MHz\_Chain1\_5300MHz



802.11n\_20MHz\_Chain1\_5580MHz

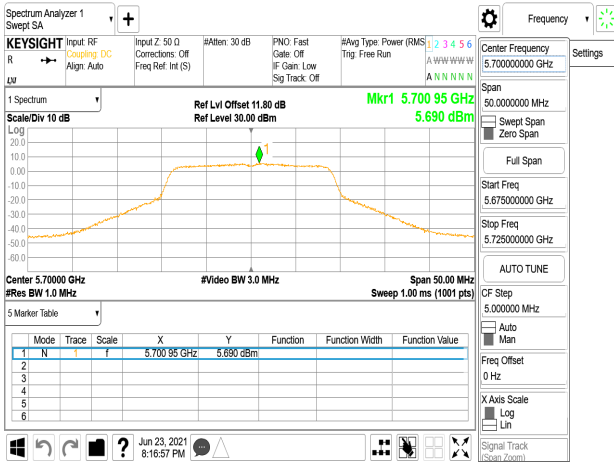


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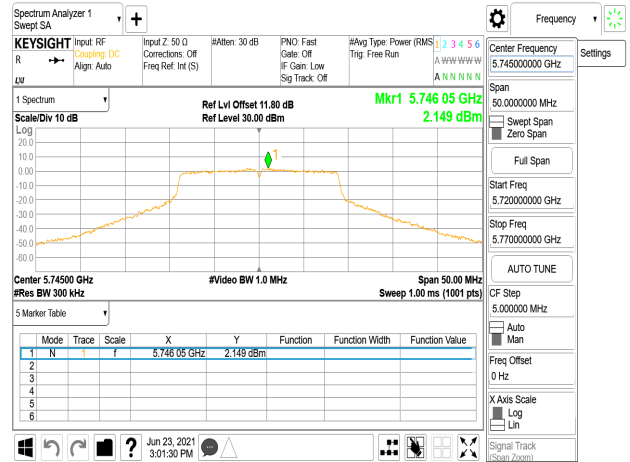
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802.11n\_20MHz\_Chain1\_5700MHz



802.11n\_20MHz\_Chain1\_5745MHz



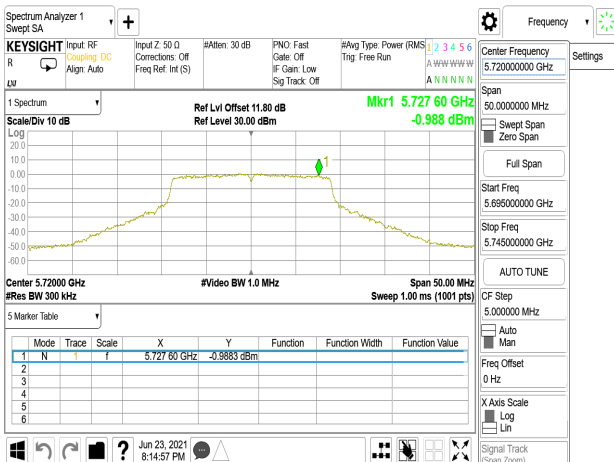
802.11n\_20MHz\_Chain1\_5720MHz\_UNII 2C



802.11n\_20MHz\_Chain1\_5785MHz



802.11n\_20MHz\_Chain1\_5720MHz\_UNII 3



802.11n\_20MHz\_Chain1\_5825MHz



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