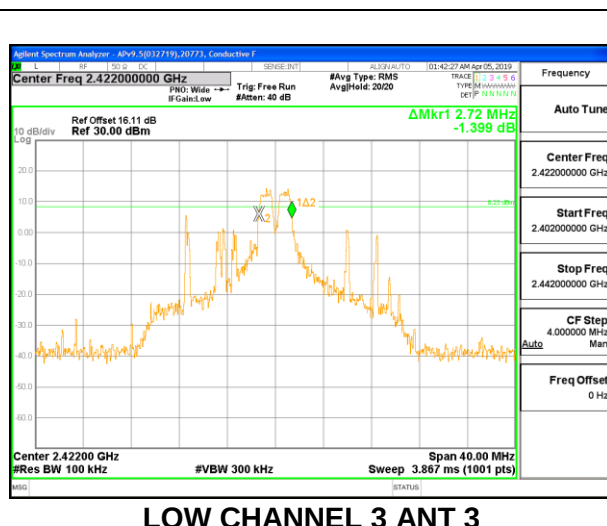
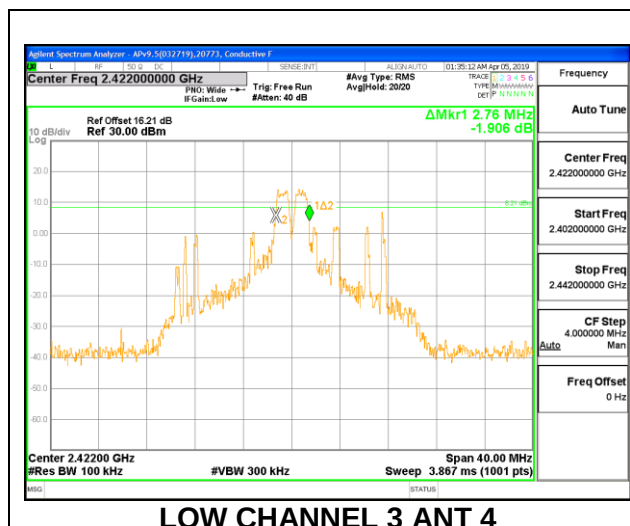
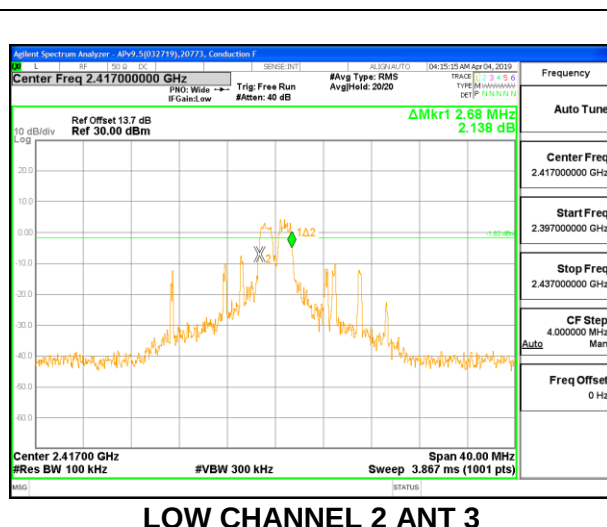
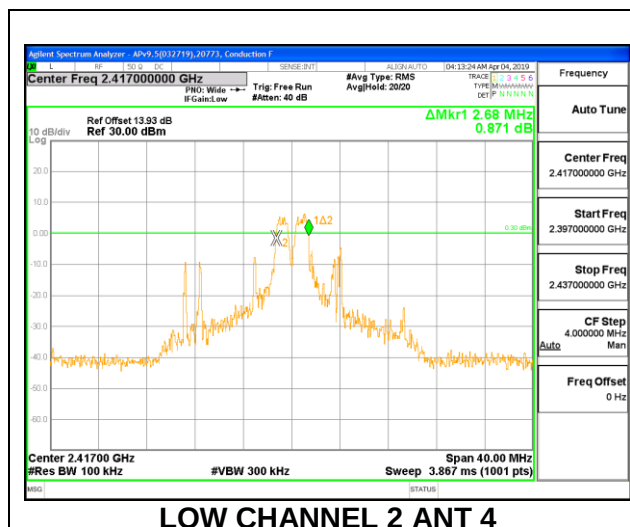
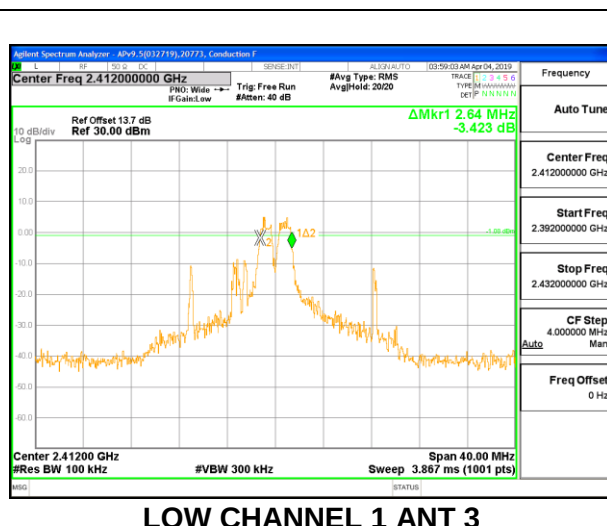
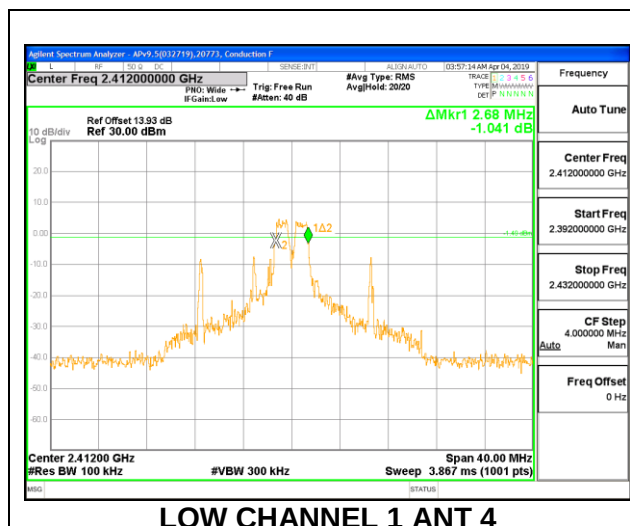
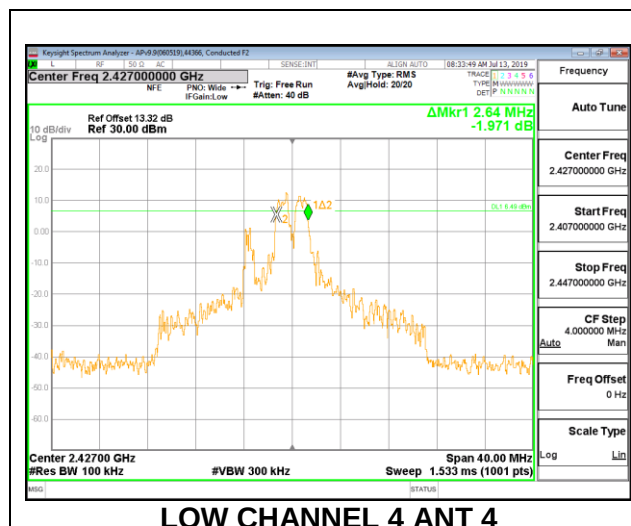
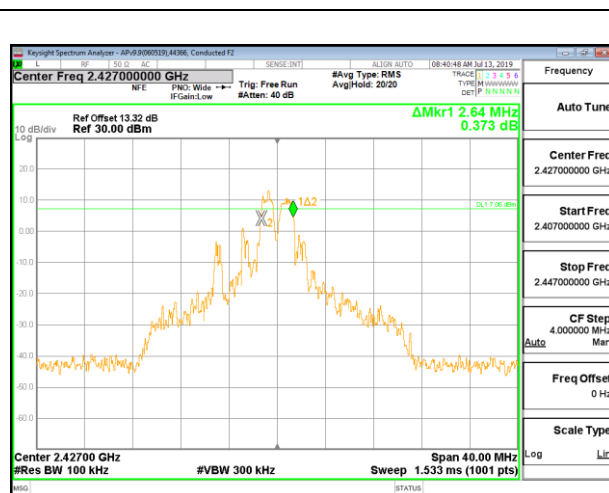


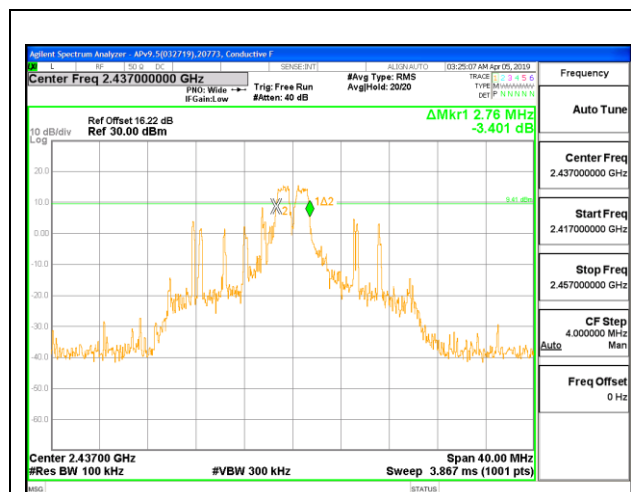




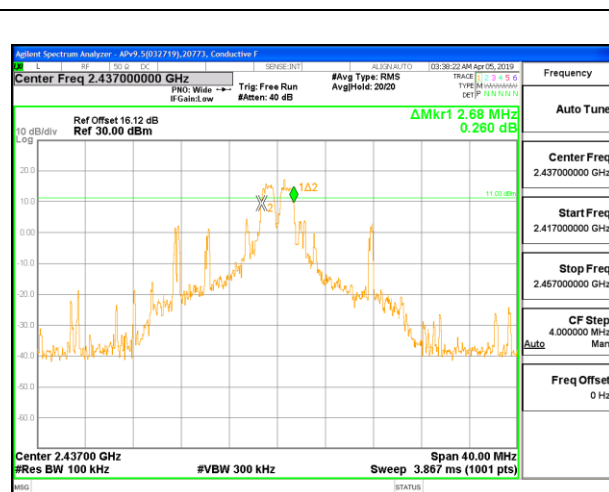
LOW CHANNEL 4 ANT 4



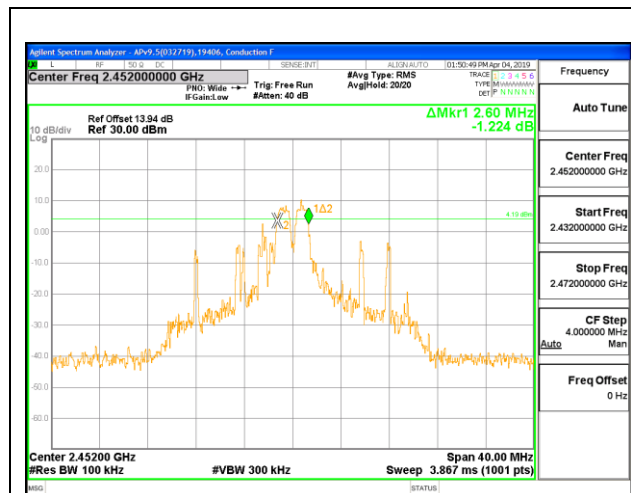
LOW CHANNEL 4 ANT 3



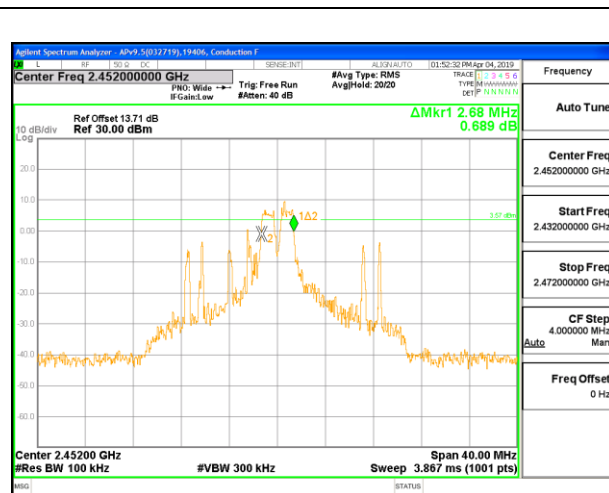
MID CHANNEL 6 ANT 4



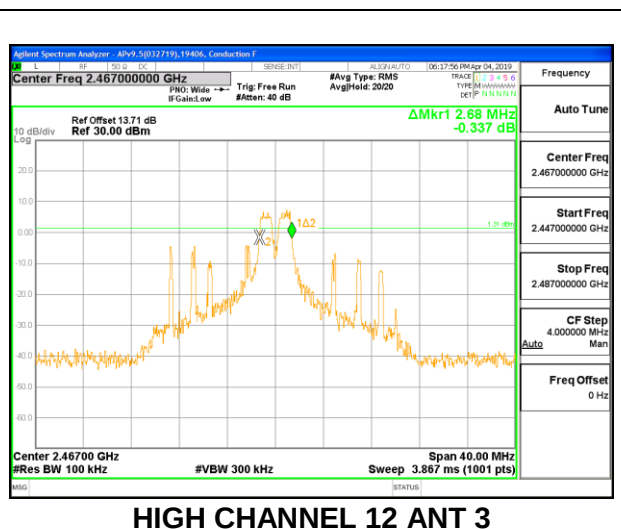
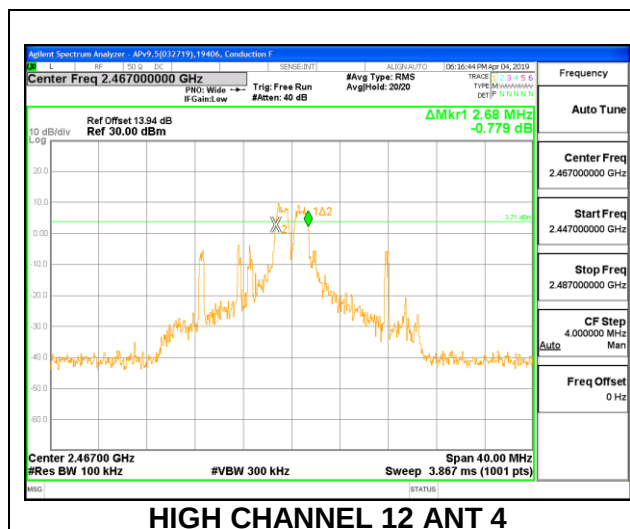
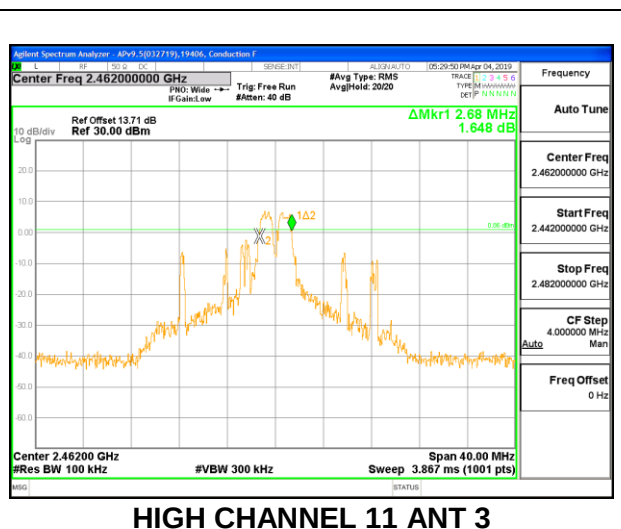
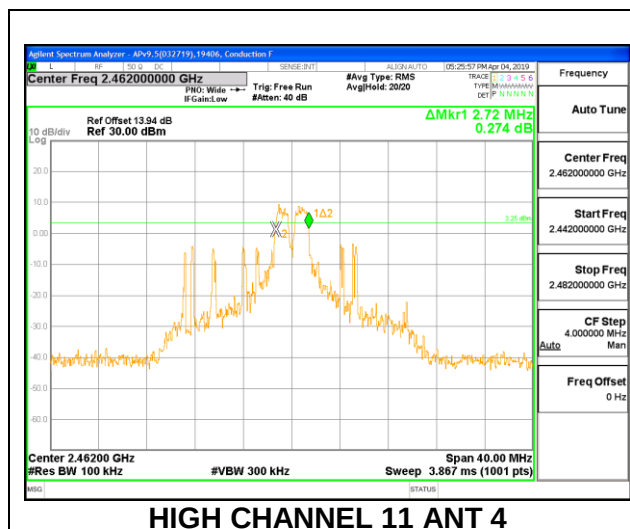
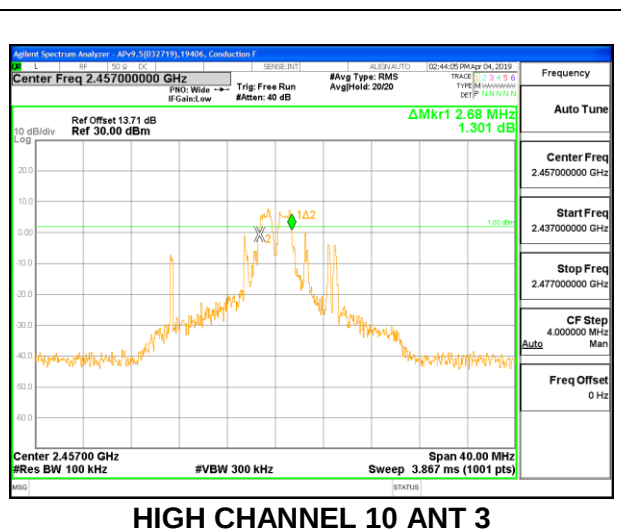
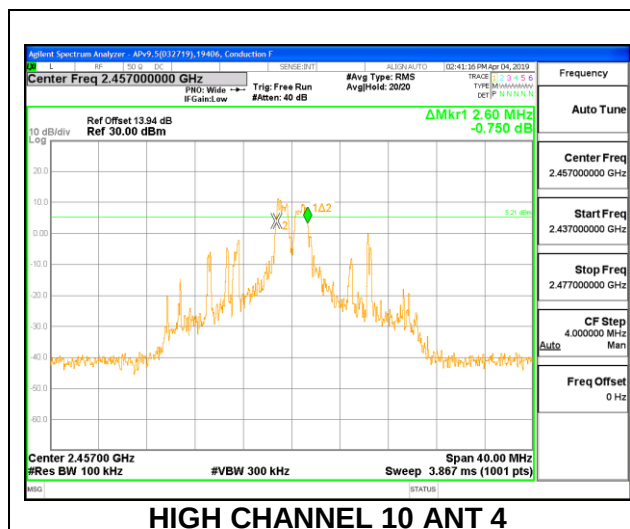
MID CHANNEL 6 ANT 3

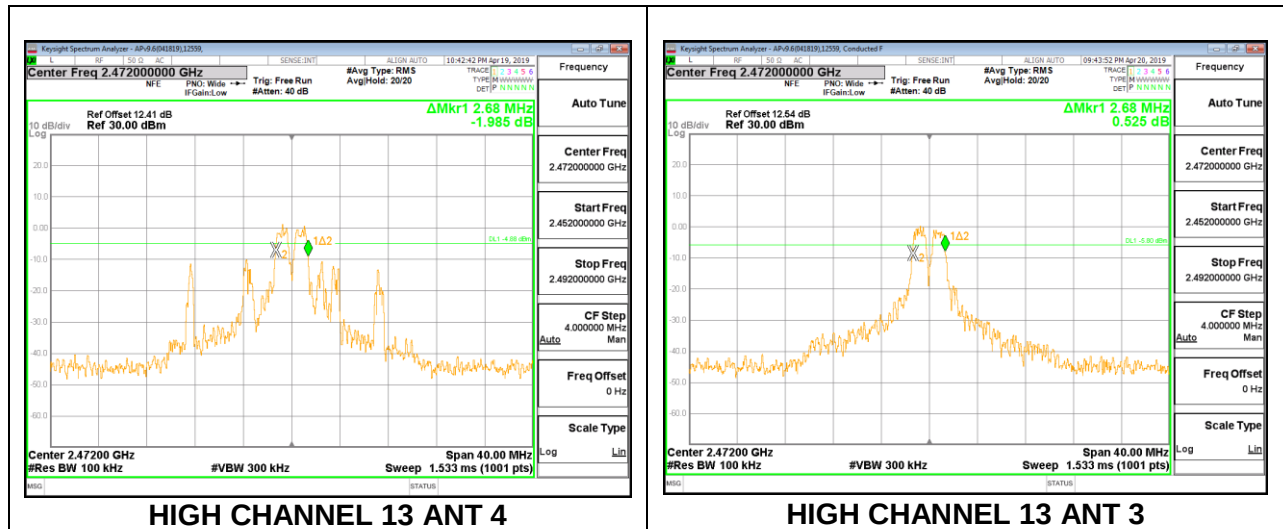


HIGH CHANNEL 9 ANT 4



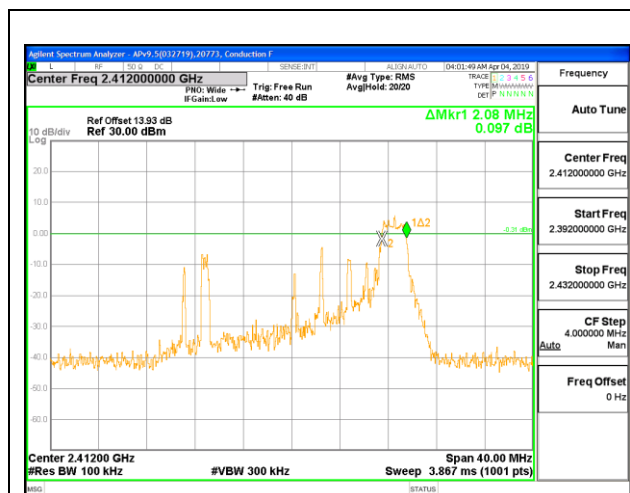
HIGH CHANNEL 9 ANT 3



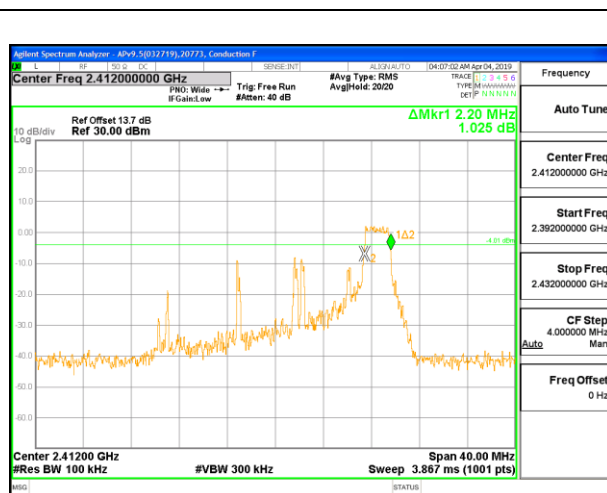


**Antenna 4 + Antenna 3 2TX MODE: 26-Tones, RU Index 8**

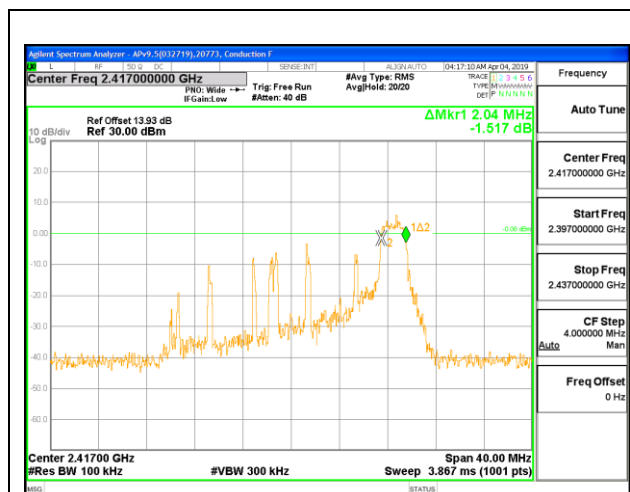
| Channel | Frequency<br>(MHz) | 6dB Bandwidth<br>Ant 4<br>(MHz) | 6dB Bandwidth<br>Ant 3<br>(MHz) | Minimum Limit<br>(MHz) |
|---------|--------------------|---------------------------------|---------------------------------|------------------------|
| Low 1   | 2412               | 2.0800                          | 2.2000                          | 0.5                    |
| Low 2   | 2417               | 2.0400                          | 2.0800                          | 0.5                    |
| Low 3   | 2422               | 2.1600                          | 2.1200                          | 0.5                    |
| Low 4   | 2427               | 2.0800                          | 2.1600                          | 0.5                    |
| Mid 6   | 2437               | 2.0800                          | 2.1600                          | 0.5                    |
| High 9  | 2452               | 2.1200                          | 2.1200                          | 0.5                    |
| High 10 | 2457               | 2.1200                          | 2.1600                          | 0.5                    |
| High 11 | 2462               | 2.0400                          | 2.1600                          | 0.5                    |
| High 12 | 2467               | 2.0800                          | 2.0800                          | 0.5                    |
| High 13 | 2472               | 2.1200                          | 2.1600                          | 0.5                    |



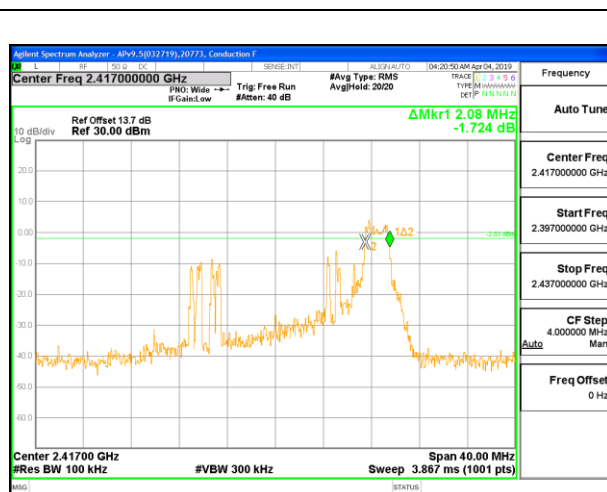
LOW CHANNEL 1 ANT 4



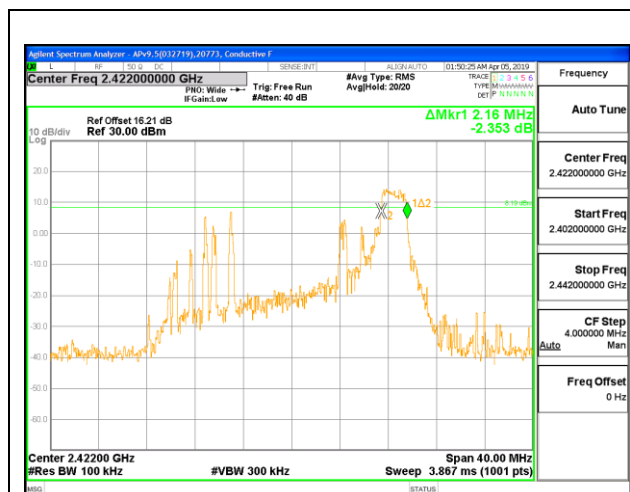
LOW CHANNEL 1 ANT 3



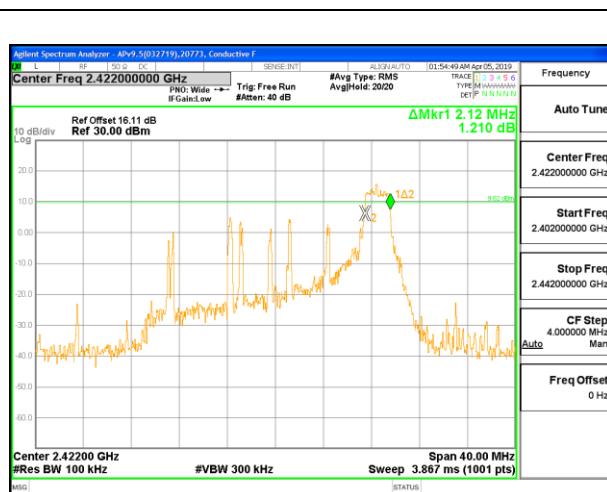
LOW CHANNEL 2 ANT 4



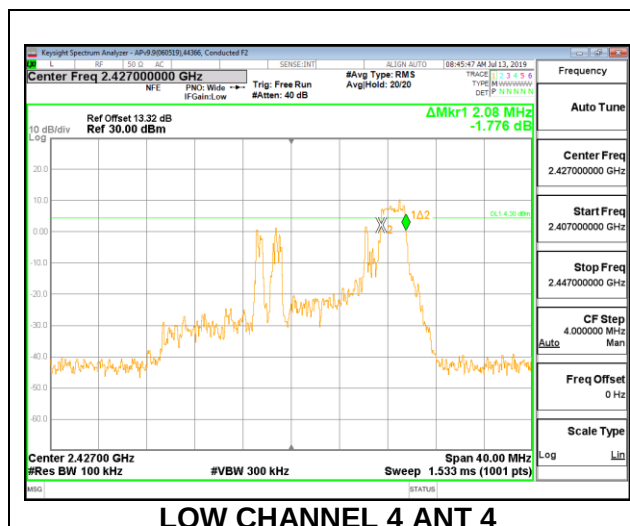
LOW CHANNEL 2 ANT 3



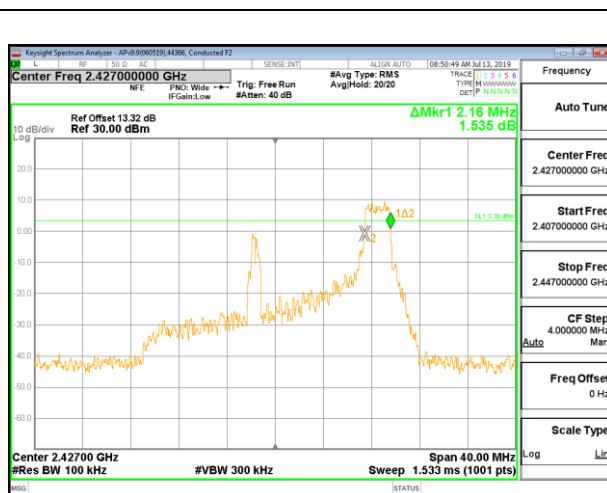
LOW CHANNEL 3 ANT 4



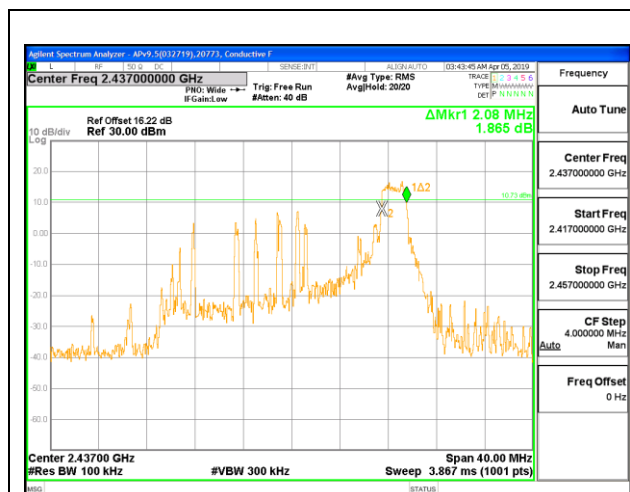
LOW CHANNEL 3 ANT 3



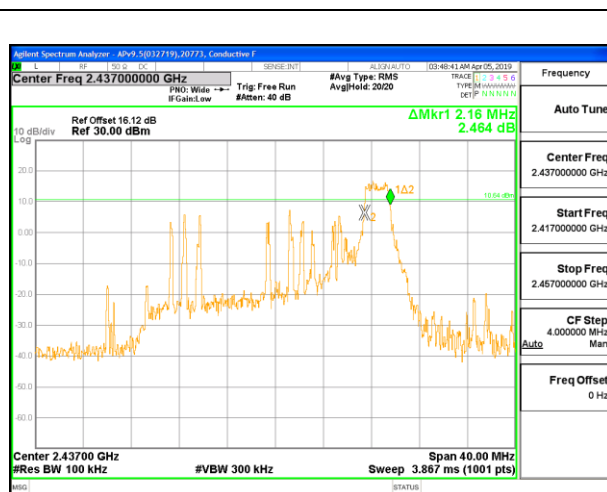
LOW CHANNEL 4 ANT 4



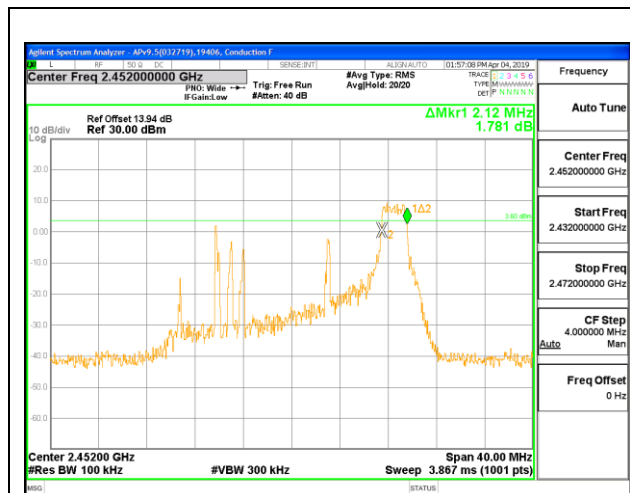
LOW CHANNEL 4 ANT 3



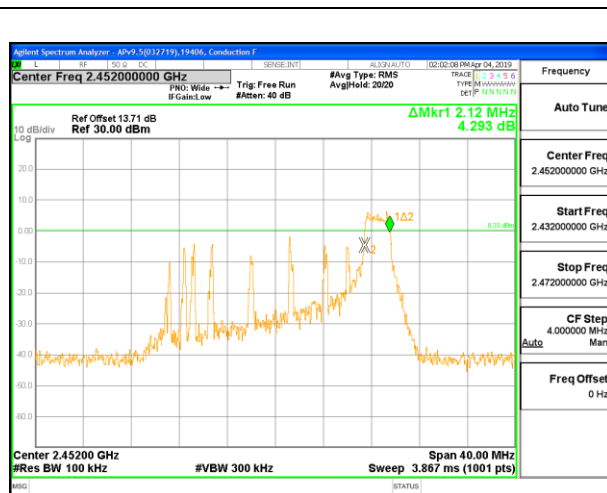
MID CHANNEL 6 ANT 4



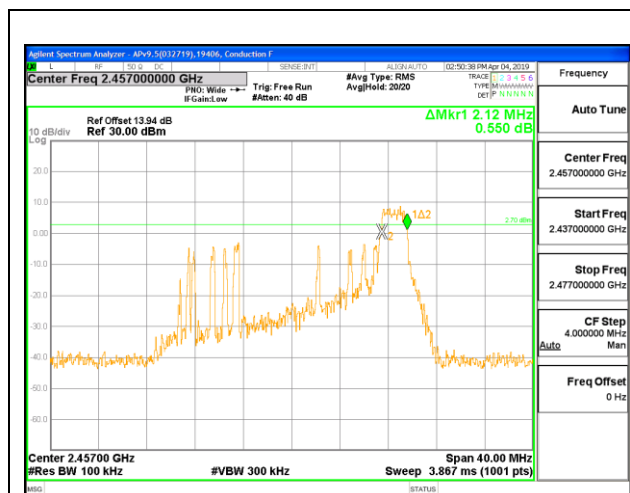
MID CHANNEL 6 ANT 3



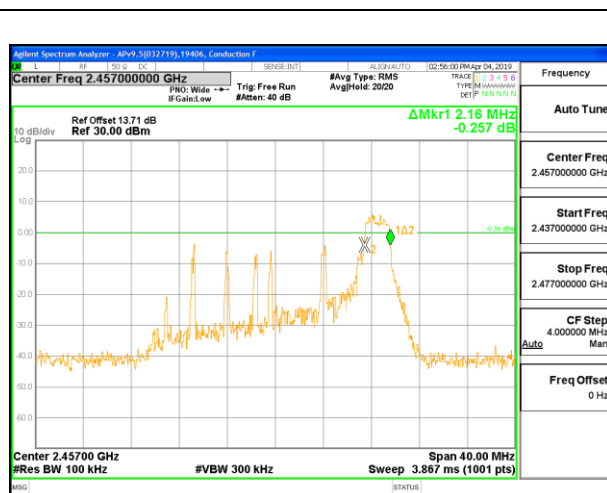
HIGH CHANNEL 9 ANT 4



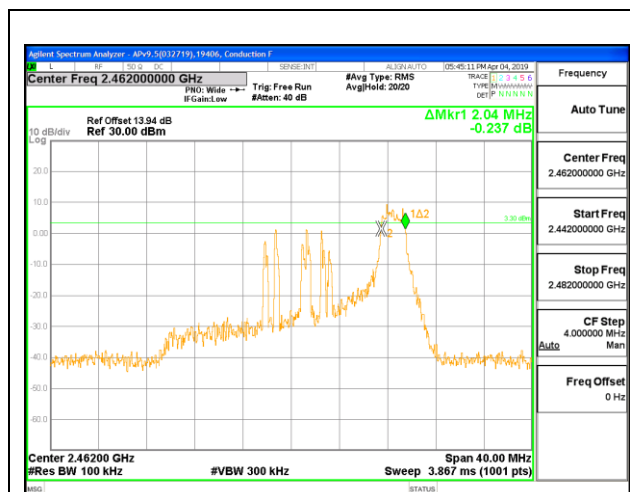
HIGH CHANNEL 9 ANT 3



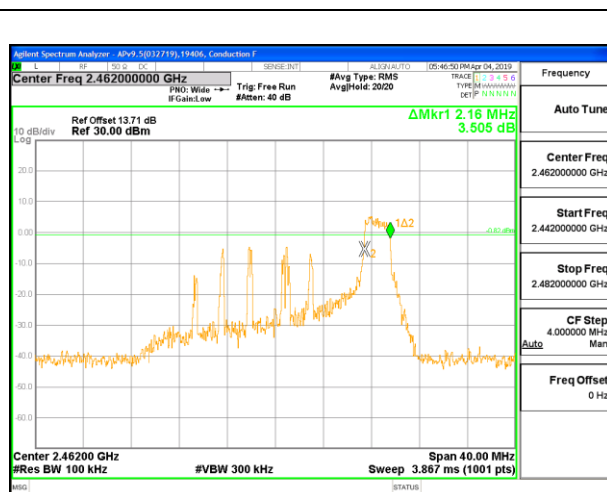
HIGH CHANNEL 10 ANT 4



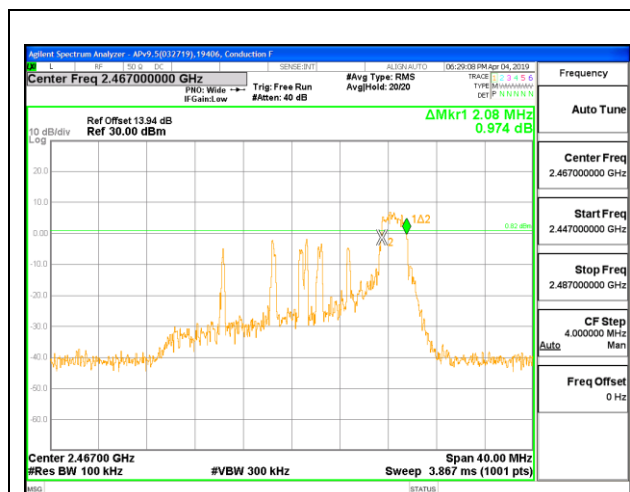
HIGH CHANNEL 10 ANT 3



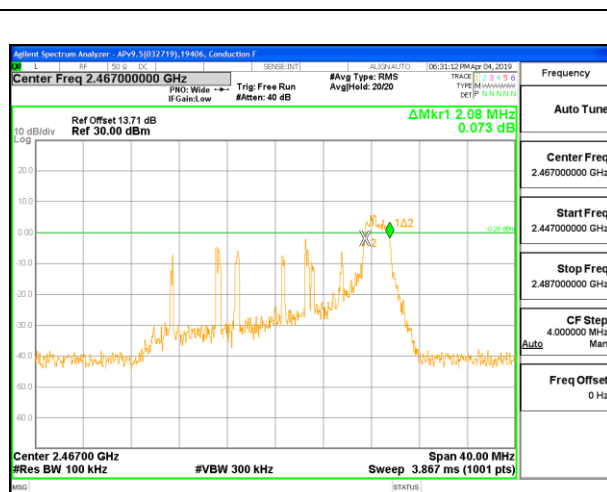
HIGH CHANNEL 11 ANT 4



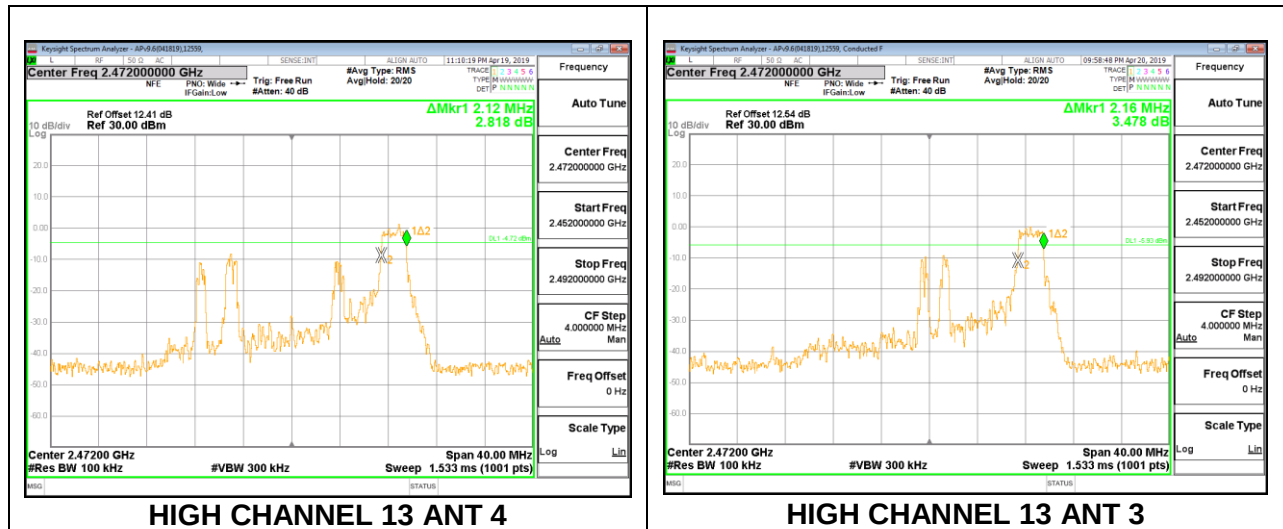
HIGH CHANNEL 11 ANT 3



HIGH CHANNEL 12 ANT 4

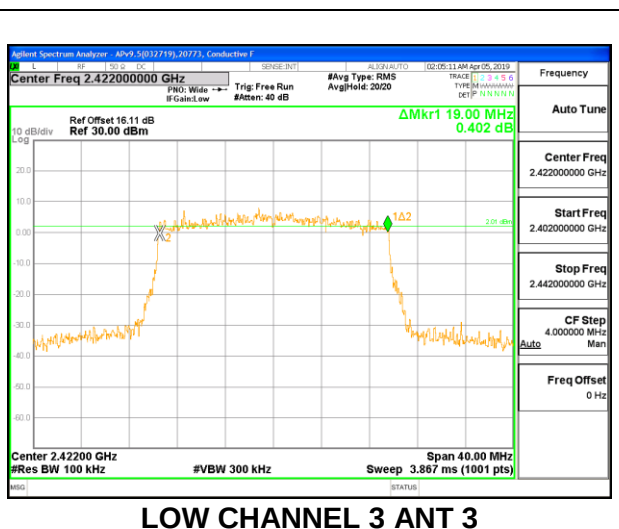
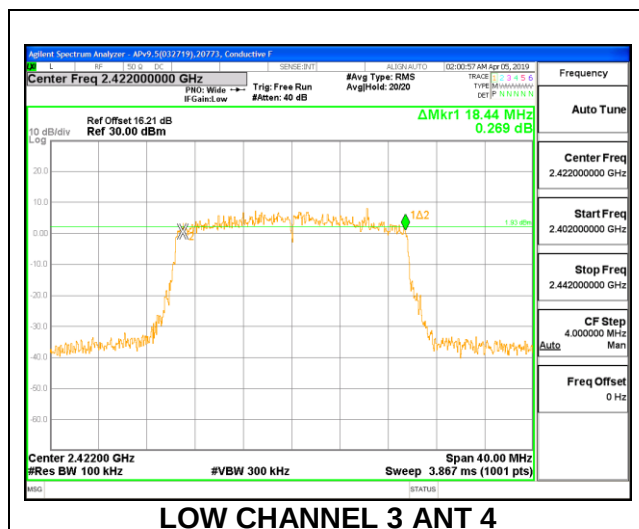
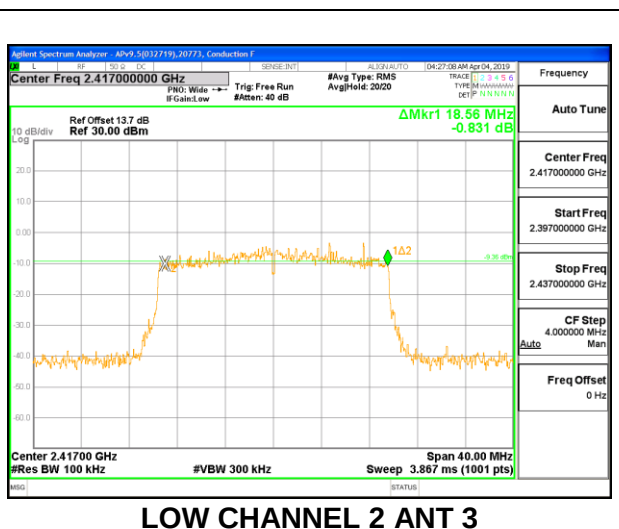
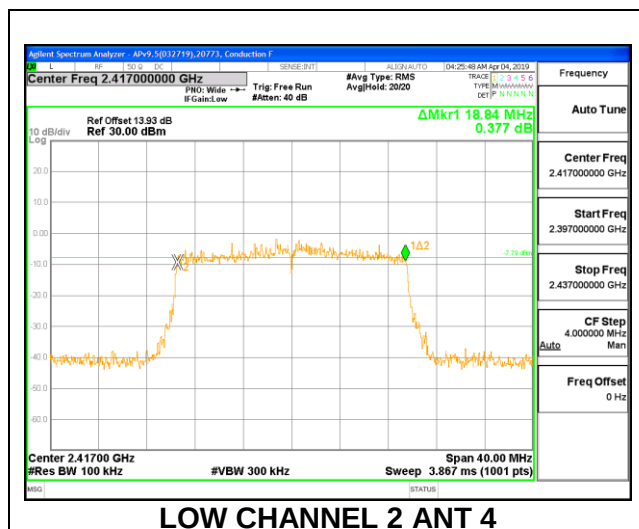
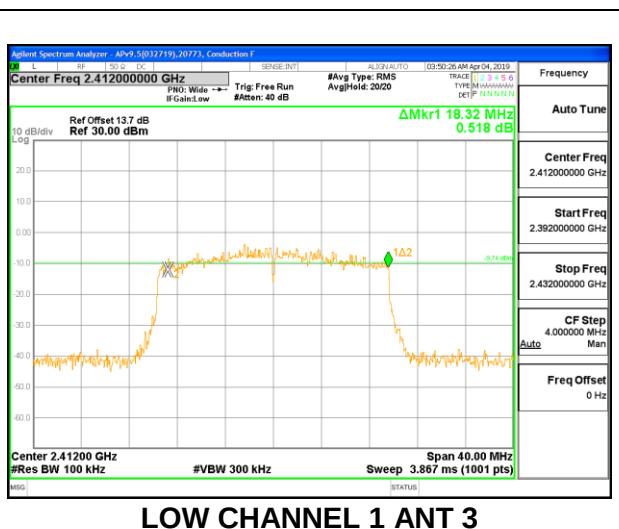
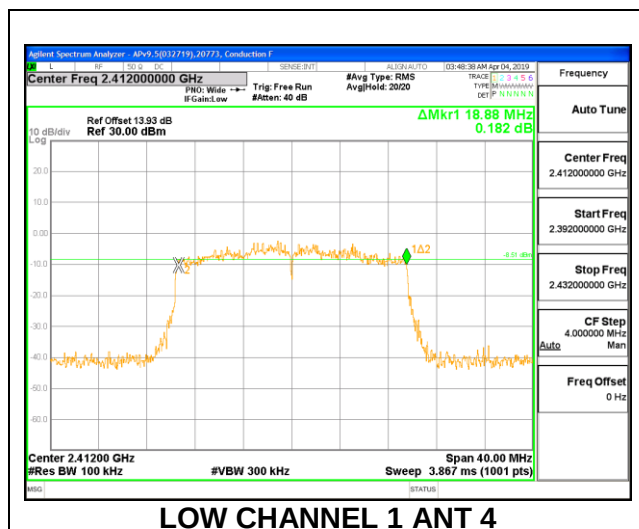


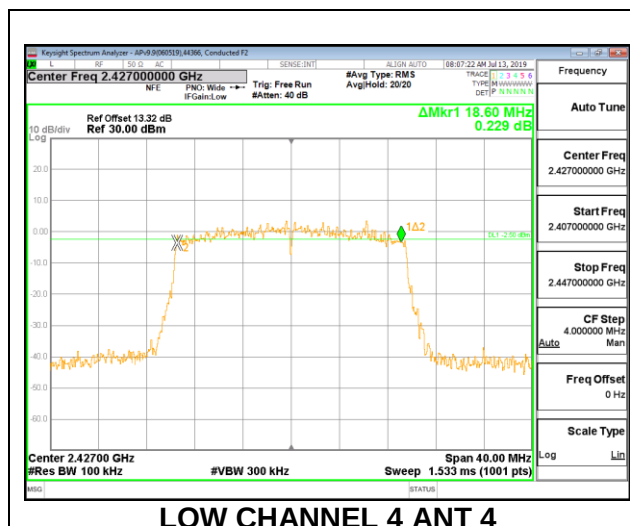
HIGH CHANNEL 12 ANT 3



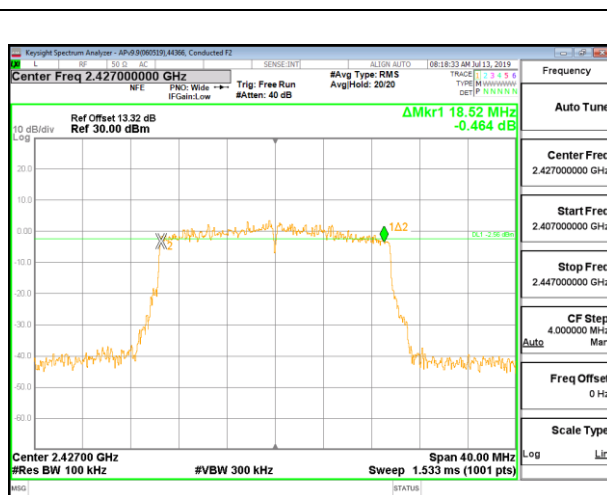
**Antenna 4 + Antenna 3 2TX MODE: 242-Tones, RU Index 61**

| Channel | Frequency<br>(MHz) | 6dB Bandwidth<br>Ant 4<br>(MHz) | 6dB Bandwidth<br>Ant 3<br>(MHz) | Minimum Limit<br>(MHz) |
|---------|--------------------|---------------------------------|---------------------------------|------------------------|
| Low 1   | 2412               | 18.8800                         | 18.3200                         | 0.5                    |
| Low 2   | 2417               | 18.8400                         | 18.5600                         | 0.5                    |
| Low 3   | 2422               | 18.4400                         | 19.0000                         | 0.5                    |
| Low 4   | 2427               | 18.6000                         | 18.5200                         | 0.5                    |
| Mid 6   | 2437               | 19.0800                         | 18.8400                         | 0.5                    |
| High 9  | 2452               | 17.9600                         | 18.8400                         | 0.5                    |
| High 10 | 2457               | 18.2800                         | 18.6800                         | 0.5                    |
| High 11 | 2462               | 18.7200                         | 18.6400                         | 0.5                    |
| High 12 | 2467               | 18.4800                         | 18.6400                         | 0.5                    |
| High 13 | 2472               | 18.0800                         | 18.4400                         | 0.5                    |

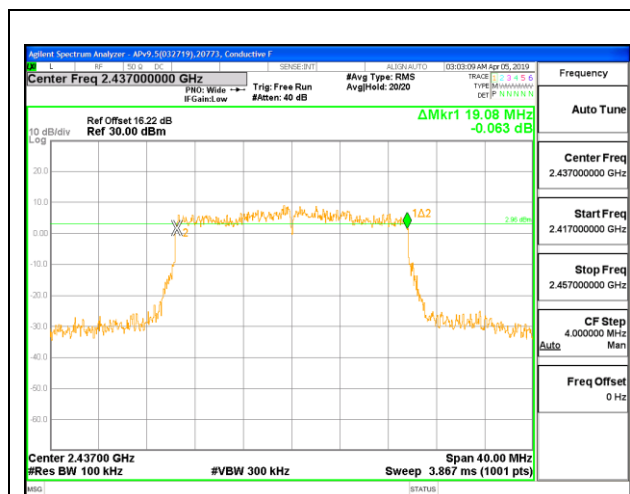




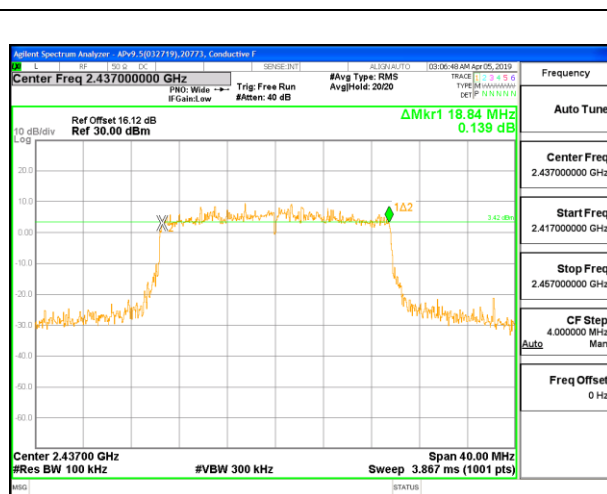
LOW CHANNEL 4 ANT 4



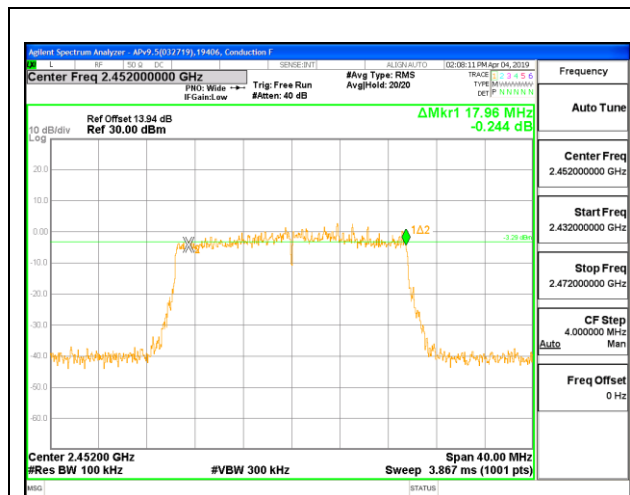
LOW CHANNEL 4 ANT 3



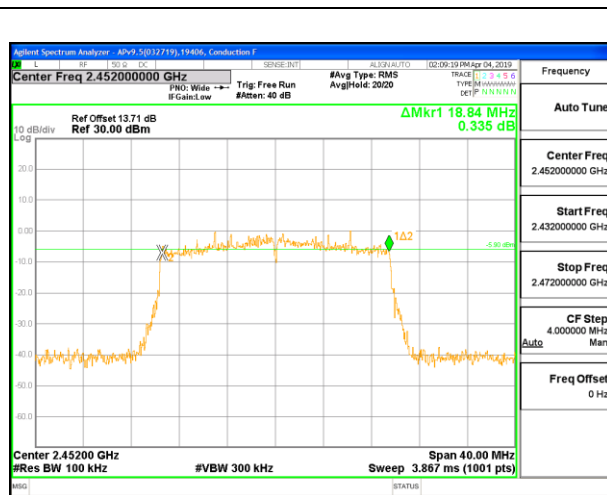
MID CHANNEL 6 ANT 4



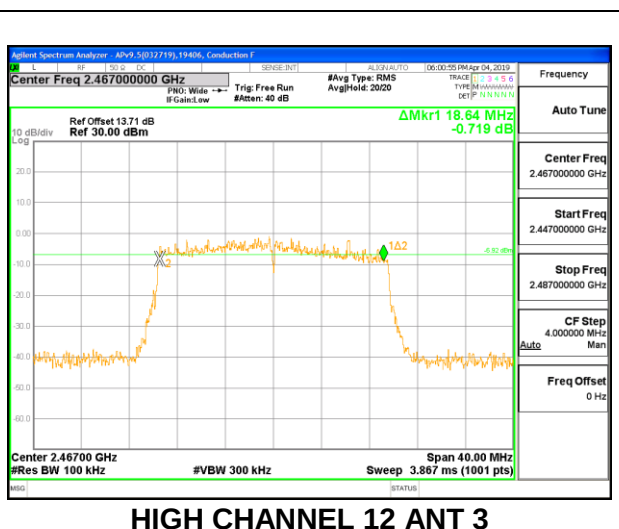
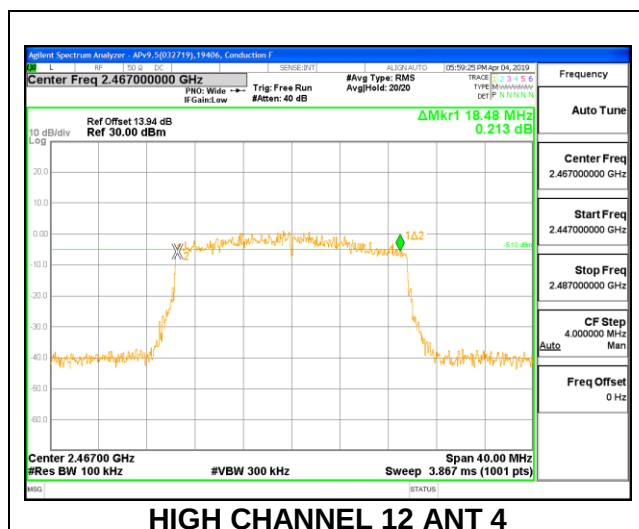
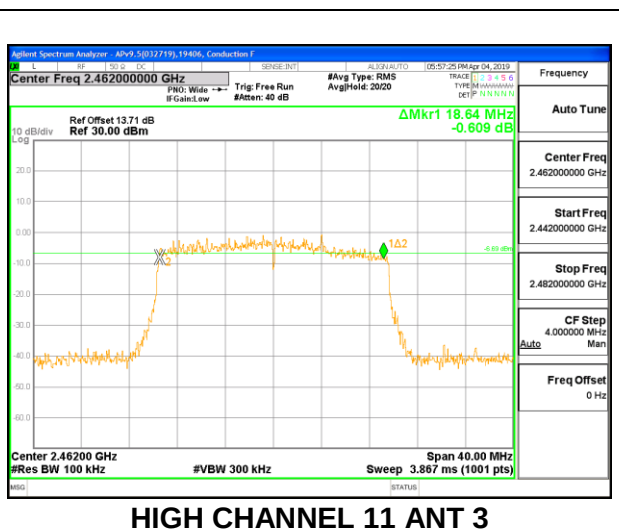
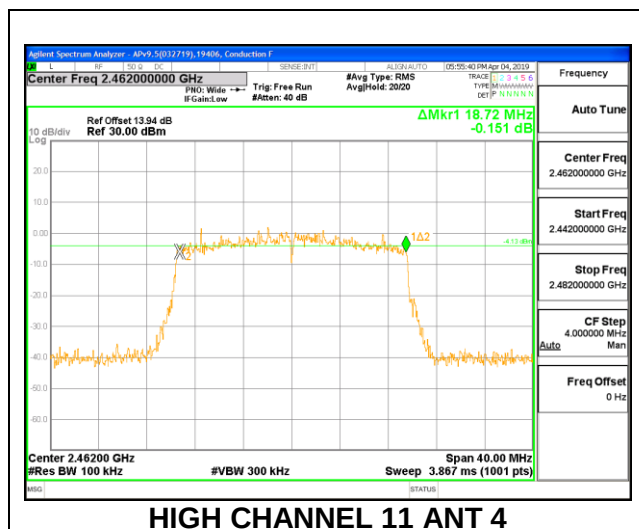
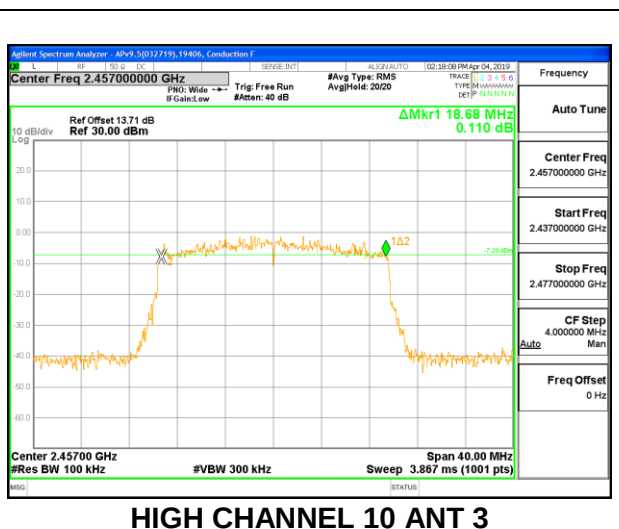
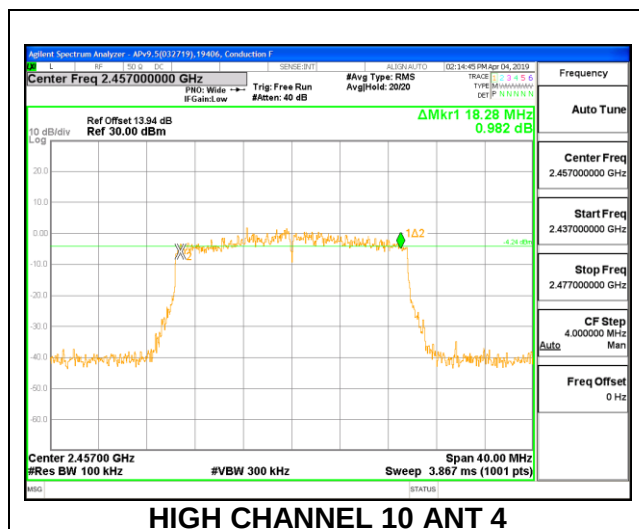
MID CHANNEL 6 ANT 3

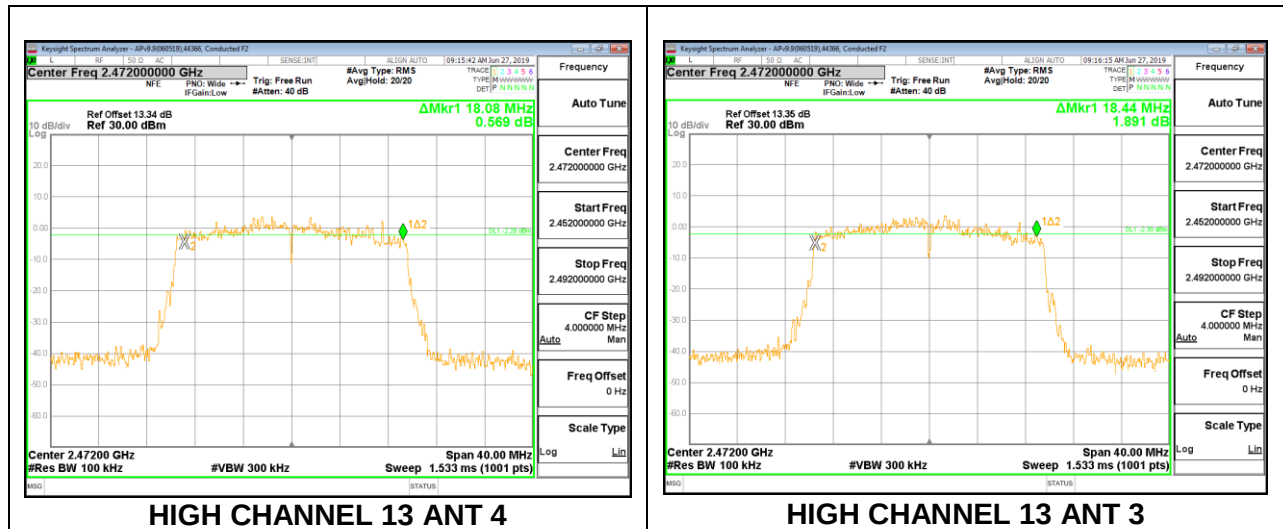


HIGH CHANNEL 9 ANT 4



HIGH CHANNEL 9 ANT 3





## 8.4. OUTPUT POWER

### LIMITS

FCC §15.247 (b) (3)

RSS-247 5.4 (d)

For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt, based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### TEST PROCEDURE

The transmitter output is connected to a power meter.

The cable assembly insertion loss of 13.3 dB (including 10 dB pad and 1.0 dB cable + 2.3 dB flex) was entered as an offset in the power meter to allow for a gated peak reading of power.

### DIRECTIONAL ANTENNA GAIN

For 1 TX:

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

For 2 TX:

Tx chains are uncorrelated for power and correlated for PSD due to the device supporting CDD in all MIMO modes. The directional gains are as follows:

| Band<br>(GHz) | Chain 0<br>Antenna<br>Gain<br>(dBi) | Chain 1<br>Antenna<br>Gain<br>(dBi) | Uncorrelated Chains<br>Directional<br>Gain<br>(dBi) | Correlated Chains<br>Directional<br>Gain<br>(dBi) |
|---------------|-------------------------------------|-------------------------------------|-----------------------------------------------------|---------------------------------------------------|
| 2.4           | -1.70                               | -1.90                               | -1.80                                               | 1.21                                              |

## **RESULTS**

### **8.4.1. 802.11b MODE**

#### **1TX Antenna 4 MODE**

##### **Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | FCC<br>Power<br>Limit<br>(dBm) | ISED<br>Power<br>Limit<br>(dBm) | ISED<br>EIRP<br>Limit<br>(dBm) | Max<br>Power<br>(dBm) |
|---------|--------------------|------------------------------|--------------------------------|---------------------------------|--------------------------------|-----------------------|
| Low 1   | 2412               | -1.70                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Mid 6   | 2437               | -1.70                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 11 | 2462               | -1.70                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 12 | 2467               | -1.70                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 13 | 2472               | -1.70                        | 30.00                          | 30                              | 36                             | 30.00                 |

|                           |      |                                                 |
|---------------------------|------|-------------------------------------------------|
| <b>Duty Cycle CF (dB)</b> | 0.00 | <b>Included in Calculations of Corr'd Power</b> |
|---------------------------|------|-------------------------------------------------|

##### **Results**

| Channel | Frequency<br>(MHz) | Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Margin<br>(dB) |
|---------|--------------------|------------------------|-----------------------------------|-------------------------|----------------|
| Low 1   | 2412               | 18.36                  | 18.36                             | 30.00                   | -11.64         |
| Mid 6   | 2437               | 18.42                  | 18.42                             | 30.00                   | -11.58         |
| High 11 | 2462               | 18.30                  | 18.30                             | 30.00                   | -11.70         |
| High 12 | 2467               | 18.35                  | 18.35                             | 30.00                   | -11.65         |
| High 13 | 2472               | 17.68                  | 17.68                             | 30.00                   | -12.32         |

**1TX Antenna 3 MODE**

**Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | FCC<br>Power<br>Limit<br>(dBm) | ISED<br>Power<br>Limit<br>(dBm) | ISED<br>EIRP<br>Limit<br>(dBm) | Max<br>Power<br>(dBm) |
|---------|--------------------|------------------------------|--------------------------------|---------------------------------|--------------------------------|-----------------------|
| Low 1   | 2412               | -1.90                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Mid 6   | 2437               | -1.90                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 11 | 2462               | -1.90                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 12 | 2467               | -1.90                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 13 | 2472               | -1.90                        | 30.00                          | 30                              | 36                             | 30.00                 |

|                           |      |                                                 |
|---------------------------|------|-------------------------------------------------|
| <b>Duty Cycle CF (dB)</b> | 0.00 | <b>Included in Calculations of Corr'd Power</b> |
|---------------------------|------|-------------------------------------------------|

**Results**

| Channel | Frequency<br>(MHz) | Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Margin<br>(dB) |
|---------|--------------------|------------------------|-----------------------------------|-------------------------|----------------|
| Low 1   | 2412               | 20.21                  | 20.21                             | 30.00                   | -9.79          |
| Mid 6   | 2437               | 21.12                  | 21.12                             | 30.00                   | -8.88          |
| High 11 | 2462               | 21.08                  | 21.08                             | 30.00                   | -8.92          |
| High 12 | 2467               | 20.14                  | 20.14                             | 30.00                   | -9.86          |
| High 13 | 2472               | 17.70                  | 17.70                             | 30.00                   | -12.30         |

## 8.4.2. 802.11n HT20 MODE

### 1TX Antenna 4 MODE

#### Limits

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | FCC<br>Power<br>Limit<br>(dBm) | ISED<br>Power<br>Limit<br>(dBm) | ISED<br>EIRP<br>Limit<br>(dBm) | Max<br>Power<br>(dBm) |
|---------|--------------------|------------------------------|--------------------------------|---------------------------------|--------------------------------|-----------------------|
| Low 1   | 2412               | -1.70                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Low 2   | 2417               | -1.70                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Low 3   | 2422               | -1.70                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Mid 6   | 2437               | -1.70                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 9  | 2452               | -1.70                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 10 | 2457               | -1.70                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 11 | 2462               | -1.70                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 12 | 2467               | -1.70                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 13 | 2472               | -1.70                        | 30.00                          | 30                              | 36                             | 30.00                 |

|                    |      |                                          |
|--------------------|------|------------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd Power |
|--------------------|------|------------------------------------------|

#### Results

| Channel | Frequency<br>(MHz) | Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Margin<br>(dB) |
|---------|--------------------|------------------------|-----------------------------------|-------------------------|----------------|
| Low 1   | 2412               | 17.20                  | 17.20                             | 30.00                   | -12.80         |
| Low 2   | 2417               | 18.40                  | 18.40                             | 30.00                   | -11.60         |
| Low 3   | 2422               | 18.42                  | 18.42                             | 30.00                   | -11.58         |
| Mid 6   | 2437               | 18.44                  | 18.44                             | 30.00                   | -11.56         |
| High 9  | 2452               | 18.35                  | 18.35                             | 30.00                   | -11.65         |
| High 10 | 2457               | 18.33                  | 18.33                             | 30.00                   | -11.67         |
| High 11 | 2462               | 17.19                  | 17.19                             | 30.00                   | -12.81         |
| High 12 | 2467               | 15.23                  | 15.23                             | 30.00                   | -14.77         |
| High 13 | 2472               | 7.22                   | 7.22                              | 30.00                   | -22.78         |

**1TX Antenna 3 MODE**

**Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | FCC<br>Power<br>Limit<br>(dBm) | ISED<br>Power<br>Limit<br>(dBm) | ISED<br>EIRP<br>Limit<br>(dBm) | Max<br>Power<br>(dBm) |
|---------|--------------------|------------------------------|--------------------------------|---------------------------------|--------------------------------|-----------------------|
| Low 1   | 2412               | -1.90                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Low 2   | 2417               | -1.90                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Low 3   | 2422               | -1.90                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Mid 6   | 2437               | -1.90                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 9  | 2452               | -1.90                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 10 | 2457               | -1.90                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 11 | 2462               | -1.90                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 12 | 2467               | -1.90                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 13 | 2472               | -1.90                        | 30.00                          | 30                              | 36                             | 30.00                 |

|                           |      |                                                 |
|---------------------------|------|-------------------------------------------------|
| <b>Duty Cycle CF (dB)</b> | 0.00 | <b>Included in Calculations of Corr'd Power</b> |
|---------------------------|------|-------------------------------------------------|

**Results**

| Channel | Frequency<br>(MHz) | Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Margin<br>(dB) |
|---------|--------------------|------------------------|-----------------------------------|-------------------------|----------------|
| Low 1   | 2412               | 17.18                  | 17.18                             | 30.00                   | -12.82         |
| Low 2   | 2417               | 19.17                  | 19.17                             | 30.00                   | -10.83         |
| Low 3   | 2422               | 21.22                  | 21.22                             | 30.00                   | -8.78          |
| Mid 6   | 2437               | 21.16                  | 21.16                             | 30.00                   | -8.84          |
| High 9  | 2452               | 21.14                  | 21.14                             | 30.00                   | -8.86          |
| High 10 | 2457               | 19.21                  | 19.21                             | 30.00                   | -10.79         |
| High 11 | 2462               | 17.22                  | 17.22                             | 30.00                   | -12.78         |
| High 12 | 2467               | 15.21                  | 15.21                             | 30.00                   | -14.79         |
| High 13 | 2472               | 7.20                   | 7.20                              | 30.00                   | -22.80         |

**2TX Antenna 4 + Antenna 3 CDD MODE**

**Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | FCC/ISED<br>Power<br>Limit<br>(dBm) | ISED<br>EIRP<br>Limit<br>(dBm) | Max<br>Power<br>(dBm) |
|---------|--------------------|------------------------------|-------------------------------------|--------------------------------|-----------------------|
| Low 1   | 2412               | -1.80                        | 30.00                               | 36                             | 30.00                 |
| Low 2   | 2417               | -1.80                        | 30.00                               | 36                             | 30.00                 |
| Low 3   | 2422               | -1.80                        | 30.00                               | 36                             | 30.00                 |
| Mid 6   | 2437               | -1.80                        | 30.00                               | 36                             | 30.00                 |
| High 9  | 2452               | -1.80                        | 30.00                               | 36                             | 30.00                 |
| High 10 | 2457               | -1.80                        | 30.00                               | 36                             | 30.00                 |
| High 11 | 2462               | -1.80                        | 30.00                               | 36                             | 30.00                 |
| High 12 | 2467               | -1.80                        | 30.00                               | 36                             | 30.00                 |
| High 13 | 2472               | -1.80                        | 30.00                               | 36                             | 30.00                 |

|                    |      |                                          |
|--------------------|------|------------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd Power |
|--------------------|------|------------------------------------------|

**Results**

| Channel | Frequency<br>(MHz) | Antenna 4<br>Meas<br>Power<br>(dBm) | Antenna 3<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Margi<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|---------------|
| Low 1   | 2412               | 16.23                               | 16.18                               | 19.22                             | 30.00                   | -10.78        |
| Low 2   | 2417               | 18.20                               | 18.19                               | 21.21                             | 30.00                   | -8.79         |
| Low 3   | 2422               | 18.36                               | 19.72                               | 22.10                             | 30.00                   | -7.90         |
| Mid 6   | 2437               | 18.46                               | 21.23                               | 23.07                             | 30.00                   | -6.93         |
| High 9  | 2452               | 18.35                               | 19.19                               | 21.80                             | 30.00                   | -8.20         |
| High 10 | 2457               | 18.19                               | 18.22                               | 21.22                             | 30.00                   | -8.78         |
| High 11 | 2462               | 16.12                               | 16.16                               | 19.15                             | 30.00                   | -10.85        |
| High 12 | 2467               | 13.67                               | 13.69                               | 16.69                             | 30.00                   | -13.31        |
| High 13 | 2472               | 5.18                                | 5.21                                | 8.21                              | 30.00                   | -21.79        |

### 8.4.3. 802.11ax HE20 MODE

#### 1TX Antenna 4 MODE: 26-Tones, RU Index 0

##### Limits

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | FCC<br>Power<br>Limit<br>(dBm) | ISED<br>Power<br>Limit<br>(dBm) | ISED<br>EIRP<br>Limit<br>(dBm) | Max<br>Power<br>(dBm) |
|---------|--------------------|------------------------------|--------------------------------|---------------------------------|--------------------------------|-----------------------|
| Low 1   | 2412               | -1.70                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Low 2   | 2417               | -1.70                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Low 3   | 2422               | -1.70                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Mid 6   | 2437               | -1.70                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 9  | 2452               | -1.70                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 10 | 2457               | -1.70                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 11 | 2462               | -1.70                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 12 | 2467               | -1.70                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 13 | 2472               | -1.70                        | 30.00                          | 30                              | 36                             | 30.00                 |

|                    |      |                                          |
|--------------------|------|------------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd Power |
|--------------------|------|------------------------------------------|

##### Results

| Channel | Frequency<br>(MHz) | Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Margin<br>(dB) |
|---------|--------------------|------------------------|-----------------------------------|-------------------------|----------------|
| Low 1   | 2412               | 15.67                  | 15.67                             | 30.00                   | -14.33         |
| Low 2   | 2417               | 17.68                  | 17.68                             | 30.00                   | -12.32         |
| Low 3   | 2422               | 18.38                  | 18.38                             | 30.00                   | -11.62         |
| Mid 6   | 2437               | 18.42                  | 18.42                             | 30.00                   | -11.58         |
| High 9  | 2452               | 18.37                  | 18.37                             | 30.00                   | -11.63         |
| High 10 | 2457               | 17.68                  | 17.68                             | 30.00                   | -12.32         |
| High 11 | 2462               | 15.72                  | 15.72                             | 30.00                   | -14.28         |
| High 12 | 2467               | 13.71                  | 13.71                             | 30.00                   | -16.29         |
| High 13 | 2472               | -0.34                  | -0.34                             | 30.00                   | -30.34         |

**1TX Antenna 4 MODE: 26-Tones, RU Index 4**

**Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | FCC<br>Power<br>Limit<br>(dBm) | ISED<br>Power<br>Limit<br>(dBm) | ISED<br>EIRP<br>Limit<br>(dBm) | Max<br>Power<br>(dBm) |
|---------|--------------------|------------------------------|--------------------------------|---------------------------------|--------------------------------|-----------------------|
| Low 1   | 2412               | -1.70                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Low 2   | 2417               | -1.70                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Low 3   | 2422               | -1.70                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Mid 6   | 2437               | -1.70                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 9  | 2452               | -1.70                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 10 | 2457               | -1.70                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 11 | 2462               | -1.70                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 12 | 2467               | -1.70                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 13 | 2472               | -1.70                        | 30.00                          | 30                              | 36                             | 30.00                 |

|                           |      |                                                 |
|---------------------------|------|-------------------------------------------------|
| <b>Duty Cycle CF (dB)</b> | 0.00 | <b>Included in Calculations of Corr'd Power</b> |
|---------------------------|------|-------------------------------------------------|

**Results**

| Channel | Frequency<br>(MHz) | Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Margin<br>(dB) |
|---------|--------------------|------------------------|-----------------------------------|-------------------------|----------------|
| Low 1   | 2412               | 15.63                  | 15.63                             | 30.00                   | -14.37         |
| Low 2   | 2417               | 17.58                  | 17.58                             | 30.00                   | -12.42         |
| Low 3   | 2422               | 18.40                  | 18.40                             | 30.00                   | -11.60         |
| Mid 6   | 2437               | 18.43                  | 18.43                             | 30.00                   | -11.57         |
| High 9  | 2452               | 18.38                  | 18.38                             | 30.00                   | -11.62         |
| High 10 | 2457               | 17.65                  | 17.65                             | 30.00                   | -12.35         |
| High 11 | 2462               | 15.67                  | 15.67                             | 30.00                   | -14.33         |
| High 12 | 2467               | 13.69                  | 13.69                             | 30.00                   | -16.31         |
| High 13 | 2472               | -0.38                  | -0.38                             | 30.00                   | -30.38         |

**1TX Antenna 4 MODE: 26-Tones, RU Index 8**

**Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | FCC<br>Power<br>Limit<br>(dBm) | ISED<br>Power<br>Limit<br>(dBm) | ISED<br>EIRP<br>Limit<br>(dBm) | Max<br>Power<br>(dBm) |
|---------|--------------------|------------------------------|--------------------------------|---------------------------------|--------------------------------|-----------------------|
| Low 1   | 2412               | -1.70                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Low 2   | 2417               | -1.70                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Low 3   | 2422               | -1.70                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Mid 6   | 2437               | -1.70                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 9  | 2452               | -1.70                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 10 | 2457               | -1.70                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 11 | 2462               | -1.70                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 12 | 2467               | -1.70                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 13 | 2472               | -1.70                        | 30.00                          | 30                              | 36                             | 30.00                 |

|                           |      |                                                 |
|---------------------------|------|-------------------------------------------------|
| <b>Duty Cycle CF (dB)</b> | 0.00 | <b>Included in Calculations of Corr'd Power</b> |
|---------------------------|------|-------------------------------------------------|

**Results**

| Channel | Frequency<br>(MHz) | Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Margin<br>(dB) |
|---------|--------------------|------------------------|-----------------------------------|-------------------------|----------------|
| Low 1   | 2412               | 15.68                  | 15.68                             | 30.00                   | -14.32         |
| Low 2   | 2417               | 17.58                  | 17.58                             | 30.00                   | -12.42         |
| Low 3   | 2422               | 18.40                  | 18.40                             | 30.00                   | -11.60         |
| Mid 6   | 2437               | 18.45                  | 18.45                             | 30.00                   | -11.55         |
| High 9  | 2452               | 18.43                  | 18.43                             | 30.00                   | -11.57         |
| High 10 | 2457               | 17.65                  | 17.65                             | 30.00                   | -12.35         |
| High 11 | 2462               | 15.65                  | 15.65                             | 30.00                   | -14.35         |
| High 12 | 2467               | 13.67                  | 13.67                             | 30.00                   | -16.33         |
| High 13 | 2472               | -0.28                  | -0.28                             | 30.00                   | -30.28         |

**1TX Antenna 4 MODE: 242-Tones, RU Index 61**

**Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | FCC<br>Power<br>Limit<br>(dBm) | ISED<br>Power<br>Limit<br>(dBm) | ISED<br>EIRP<br>Limit<br>(dBm) | Max<br>Power<br>(dBm) |
|---------|--------------------|------------------------------|--------------------------------|---------------------------------|--------------------------------|-----------------------|
| Low 1   | 2412               | -1.70                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Low 2   | 2417               | -1.70                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Low 3   | 2422               | -1.70                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Mid 6   | 2437               | -1.70                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 9  | 2452               | -1.70                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 10 | 2457               | -1.70                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 11 | 2462               | -1.70                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 12 | 2467               | -1.70                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 13 | 2472               | -1.70                        | 30.00                          | 30                              | 36                             | 30.00                 |

|                           |      |                                                 |
|---------------------------|------|-------------------------------------------------|
| <b>Duty Cycle CF (dB)</b> | 0.00 | <b>Included in Calculations of Corr'd Power</b> |
|---------------------------|------|-------------------------------------------------|

**Results**

| Channel | Frequency<br>(MHz) | Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Margin<br>(dB) |
|---------|--------------------|------------------------|-----------------------------------|-------------------------|----------------|
| Low 1   | 2412               | 15.67                  | 15.67                             | 30.00                   | -14.33         |
| Low 2   | 2417               | 17.74                  | 17.74                             | 30.00                   | -12.26         |
| Low 3   | 2422               | 18.40                  | 18.40                             | 30.00                   | -11.60         |
| Mid 6   | 2437               | 18.45                  | 18.45                             | 30.00                   | -11.55         |
| High 9  | 2452               | 18.38                  | 18.38                             | 30.00                   | -11.62         |
| High 10 | 2457               | 17.72                  | 17.72                             | 30.00                   | -12.28         |
| High 11 | 2462               | 15.70                  | 15.70                             | 30.00                   | -14.30         |
| High 12 | 2467               | 13.65                  | 13.65                             | 30.00                   | -16.35         |
| High 13 | 2472               | 6.14                   | 6.14                              | 30.00                   | -23.86         |

**1TX Antenna 3 MODE: 26-Tones, RU Index 0**

**Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | FCC<br>Power<br>Limit<br>(dBm) | ISED<br>Power<br>Limit<br>(dBm) | ISED<br>EIRP<br>Limit<br>(dBm) | Max<br>Power<br>(dBm) |
|---------|--------------------|------------------------------|--------------------------------|---------------------------------|--------------------------------|-----------------------|
| Low 1   | 2412               | -1.90                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Low 2   | 2417               | -1.90                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Low 3   | 2422               | -1.90                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Mid 6   | 2437               | -1.90                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 9  | 2452               | -1.90                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 10 | 2457               | -1.90                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 11 | 2462               | -1.90                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 12 | 2467               | -1.90                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 13 | 2472               | -1.90                        | 30.00                          | 30                              | 36                             | 30.00                 |

|                           |      |                                                 |
|---------------------------|------|-------------------------------------------------|
| <b>Duty Cycle CF (dB)</b> | 0.00 | <b>Included in Calculations of Corr'd Power</b> |
|---------------------------|------|-------------------------------------------------|

**Results**

| Channel | Frequency<br>(MHz) | Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Margin<br>(dB) |
|---------|--------------------|------------------------|-----------------------------------|-------------------------|----------------|
| Low 1   | 2412               | 15.70                  | 15.70                             | 30.00                   | -14.30         |
| Low 2   | 2417               | 17.64                  | 17.64                             | 30.00                   | -12.36         |
| Low 3   | 2422               | 21.10                  | 21.10                             | 30.00                   | -8.90          |
| Mid 6   | 2437               | 21.15                  | 21.15                             | 30.00                   | -8.85          |
| High 9  | 2452               | 21.13                  | 21.13                             | 30.00                   | -8.87          |
| High 10 | 2457               | 17.67                  | 17.67                             | 30.00                   | -12.33         |
| High 11 | 2462               | 15.67                  | 15.67                             | 30.00                   | -14.33         |
| High 12 | 2467               | 13.66                  | 13.66                             | 30.00                   | -16.34         |
| High 13 | 2472               | -0.31                  | -0.31                             | 30.00                   | -30.31         |

**1TX Antenna 3 MODE: 26-Tones, RU Index 4**

**Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | FCC<br>Power<br>Limit<br>(dBm) | ISED<br>Power<br>Limit<br>(dBm) | ISED<br>EIRP<br>Limit<br>(dBm) | Max<br>Power<br>(dBm) |
|---------|--------------------|------------------------------|--------------------------------|---------------------------------|--------------------------------|-----------------------|
| Low 1   | 2412               | -1.90                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Low 2   | 2417               | -1.90                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Low 3   | 2422               | -1.90                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Mid 6   | 2437               | -1.90                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 9  | 2452               | -1.90                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 10 | 2457               | -1.90                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 11 | 2462               | -1.90                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 12 | 2467               | -1.90                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 13 | 2472               | -1.90                        | 30.00                          | 30                              | 36                             | 30.00                 |

|                           |      |                                                 |
|---------------------------|------|-------------------------------------------------|
| <b>Duty Cycle CF (dB)</b> | 0.00 | <b>Included in Calculations of Corr'd Power</b> |
|---------------------------|------|-------------------------------------------------|

**Results**

| Channel | Frequency<br>(MHz) | Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Margin<br>(dB) |
|---------|--------------------|------------------------|-----------------------------------|-------------------------|----------------|
| Low 1   | 2412               | 15.60                  | 15.60                             | 30.00                   | -14.40         |
| Low 2   | 2417               | 17.72                  | 17.72                             | 30.00                   | -12.28         |
| Low 3   | 2422               | 21.20                  | 21.20                             | 30.00                   | -8.80          |
| Mid 6   | 2437               | 21.13                  | 21.13                             | 30.00                   | -8.87          |
| High 9  | 2452               | 21.15                  | 21.15                             | 30.00                   | -8.85          |
| High 10 | 2457               | 17.70                  | 17.70                             | 30.00                   | -12.30         |
| High 11 | 2462               | 15.55                  | 15.55                             | 30.00                   | -14.45         |
| High 12 | 2467               | 13.69                  | 13.69                             | 30.00                   | -16.31         |
| High 13 | 2472               | -0.39                  | -0.39                             | 30.00                   | -30.39         |

**1TX Antenna 3 MODE: 26-Tones, RU Index 8**

**Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | FCC<br>Power<br>Limit<br>(dBm) | ISED<br>Power<br>Limit<br>(dBm) | ISED<br>EIRP<br>Limit<br>(dBm) | Max<br>Power<br>(dBm) |
|---------|--------------------|------------------------------|--------------------------------|---------------------------------|--------------------------------|-----------------------|
| Low 1   | 2412               | -1.90                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Low 2   | 2417               | -1.90                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Low 3   | 2422               | -1.90                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Mid 6   | 2437               | -1.90                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 9  | 2452               | -1.90                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 10 | 2457               | -1.90                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 11 | 2462               | -1.90                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 12 | 2467               | -1.90                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 13 | 2472               | -1.90                        | 30.00                          | 30                              | 36                             | 30.00                 |

|                           |      |                                                 |
|---------------------------|------|-------------------------------------------------|
| <b>Duty Cycle CF (dB)</b> | 0.00 | <b>Included in Calculations of Corr'd Power</b> |
|---------------------------|------|-------------------------------------------------|

**Results**

| Channel | Frequency<br>(MHz) | Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Margin<br>(dB) |
|---------|--------------------|------------------------|-----------------------------------|-------------------------|----------------|
| Low 1   | 2412               | 15.66                  | 15.66                             | 30.00                   | -14.34         |
| Low 2   | 2417               | 17.65                  | 17.65                             | 30.00                   | -12.35         |
| Low 3   | 2422               | 21.11                  | 21.11                             | 30.00                   | -8.89          |
| Mid 6   | 2437               | 21.16                  | 21.16                             | 30.00                   | -8.84          |
| High 9  | 2452               | 21.12                  | 21.12                             | 30.00                   | -8.88          |
| High 10 | 2457               | 17.63                  | 17.63                             | 30.00                   | -12.37         |
| High 11 | 2462               | 15.70                  | 15.70                             | 30.00                   | -14.30         |
| High 12 | 2467               | 13.71                  | 13.71                             | 30.00                   | -16.29         |
| High 13 | 2472               | -0.32                  | -0.32                             | 30.00                   | -30.32         |

**1TX Antenna 3 MODE: 242-Tones, RU Index 61**

**Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | FCC<br>Power<br>Limit<br>(dBm) | ISED<br>Power<br>Limit<br>(dBm) | ISED<br>EIRP<br>Limit<br>(dBm) | Max<br>Power<br>(dBm) |
|---------|--------------------|------------------------------|--------------------------------|---------------------------------|--------------------------------|-----------------------|
| Low 1   | 2412               | -1.90                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Low 2   | 2417               | -1.90                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Low 3   | 2422               | -1.90                        | 30.00                          | 30                              | 36                             | 30.00                 |
| Mid 6   | 2437               | -1.90                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 9  | 2452               | -1.90                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 10 | 2457               | -1.90                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 11 | 2462               | -1.90                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 12 | 2467               | -1.90                        | 30.00                          | 30                              | 36                             | 30.00                 |
| High 13 | 2472               | -1.90                        | 30.00                          | 30                              | 36                             | 30.00                 |

|                           |      |                                                 |
|---------------------------|------|-------------------------------------------------|
| <b>Duty Cycle CF (dB)</b> | 0.00 | <b>Included in Calculations of Corr'd Power</b> |
|---------------------------|------|-------------------------------------------------|

**Results**

| Channel | Frequency<br>(MHz) | Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Margin<br>(dB) |
|---------|--------------------|------------------------|-----------------------------------|-------------------------|----------------|
| Low 1   | 2412               | 15.62                  | 15.62                             | 30.00                   | -14.38         |
| Low 2   | 2417               | 17.63                  | 17.63                             | 30.00                   | -12.37         |
| Low 3   | 2422               | 21.16                  | 21.16                             | 30.00                   | -8.84          |
| Mid 6   | 2437               | 21.21                  | 21.21                             | 30.00                   | -8.79          |
| High 9  | 2452               | 21.18                  | 21.18                             | 30.00                   | -8.82          |
| High 10 | 2457               | 17.65                  | 17.65                             | 30.00                   | -12.35         |
| High 11 | 2462               | 15.55                  | 15.55                             | 30.00                   | -14.45         |
| High 12 | 2467               | 13.70                  | 13.70                             | 30.00                   | -16.30         |
| High 13 | 2472               | 6.18                   | 6.18                              | 30.00                   | -23.82         |

#### 8.4.4. 802.11ax HE20 OFDMA MODE 2TX

##### 2TX Antenna 4 + Antenna 3 OFDMA MODE: 26-Tones, RU Index 0

###### Limits

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | FCC/ISED<br>Power<br>Limit<br>(dBm) | ISED<br>EIRP<br>Limit<br>(dBm) | Max<br>Power<br>(dBm) |
|---------|--------------------|------------------------------|-------------------------------------|--------------------------------|-----------------------|
| Low 1   | 2412               | -1.80                        | 30.00                               | 36                             | 30.00                 |
| Low 2   | 2417               | -1.80                        | 30.00                               | 36                             | 30.00                 |
| Low 3   | 2422               | -1.80                        | 30.00                               | 36                             | 30.00                 |
| Low 4   | 2427               | -1.80                        | 30.00                               | 36                             | 30.00                 |
| Mid 6   | 2437               | -1.80                        | 30.00                               | 36                             | 30.00                 |
| High 9  | 2452               | -1.80                        | 30.00                               | 36                             | 30.00                 |
| High 10 | 2457               | -1.80                        | 30.00                               | 36                             | 30.00                 |
| High 11 | 2462               | -1.80                        | 30.00                               | 36                             | 30.00                 |
| High 12 | 2467               | -1.80                        | 30.00                               | 36                             | 30.00                 |
| High 13 | 2472               | -1.80                        | 30.00                               | 36                             | 30.00                 |

|                    |      |                                          |
|--------------------|------|------------------------------------------|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd Power |
|--------------------|------|------------------------------------------|

###### Results

| Channel | Frequency<br>(MHz) | Antenna 4<br>Meas<br>Power<br>(dBm) | Antenna 3<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Margi<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|---------------|
| Low 1   | 2412               | 14.58                               | 14.62                               | 17.61                             | 30.00                   | -12.39        |
| Low 2   | 2417               | 16.73                               | 16.55                               | 19.65                             | 30.00                   | -10.35        |
| Low 3   | 2422               | 18.40                               | 18.60                               | 21.51                             | 30.00                   | -8.49         |
| Low 4   | 2427               | 18.36                               | 19.72                               | 22.10                             | 30.00                   | -7.90         |
| Mid 6   | 2437               | 18.42                               | 19.74                               | 22.14                             | 30.00                   | -7.86         |
| High 9  | 2452               | 18.20                               | 18.14                               | 21.18                             | 30.00                   | -8.82         |
| High 10 | 2457               | 16.58                               | 16.71                               | 19.66                             | 30.00                   | -10.34        |
| High 11 | 2462               | 14.61                               | 14.67                               | 17.65                             | 30.00                   | -12.35        |
| High 12 | 2467               | 12.67                               | 12.64                               | 15.67                             | 30.00                   | -14.33        |
| High 13 | 2472               | -0.35                               | -0.28                               | 2.70                              | 30.00                   | -27.30        |

**2TX Antenna 4 + Antenna 3 OFDMA MODE: 26-Tones, RU Index 4**

**Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | FCC/ISED<br>Power<br>Limit<br>(dBm) | ISED<br>EIRP<br>Limit<br>(dBm) | Max<br>Power<br>(dBm) |
|---------|--------------------|------------------------------|-------------------------------------|--------------------------------|-----------------------|
| Low 1   | 2412               | -1.80                        | 30.00                               | 36                             | 30.00                 |
| Low 2   | 2417               | -1.80                        | 30.00                               | 36                             | 30.00                 |
| Low 3   | 2422               | -1.80                        | 30.00                               | 36                             | 30.00                 |
| Low 4   | 2427               | -1.80                        | 30.00                               | 36                             | 30.00                 |
| Mid 6   | 2437               | -1.80                        | 30.00                               | 36                             | 30.00                 |
| High 9  | 2452               | -1.80                        | 30.00                               | 36                             | 30.00                 |
| High 10 | 2457               | -1.80                        | 30.00                               | 36                             | 30.00                 |
| High 11 | 2462               | -1.80                        | 30.00                               | 36                             | 30.00                 |
| High 12 | 2467               | -1.80                        | 30.00                               | 36                             | 30.00                 |
| High 13 | 2472               | -1.80                        | 30.00                               | 36                             | 30.00                 |

|                           |      |                                                 |
|---------------------------|------|-------------------------------------------------|
| <b>Duty Cycle CF (dB)</b> | 0.00 | <b>Included in Calculations of Corr'd Power</b> |
|---------------------------|------|-------------------------------------------------|

**Results**

| Channel | Frequency<br>(MHz) | Antenna 4<br>Meas<br>Power<br>(dBm) | Antenna 3<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Margi<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|---------------|
| Low 1   | 2412               | 14.72                               | 14.70                               | 17.72                             | 30.00                   | -12.28        |
| Low 2   | 2417               | 16.61                               | 16.65                               | 19.64                             | 30.00                   | -10.36        |
| Low 3   | 2422               | 18.35                               | 18.69                               | 21.53                             | 30.00                   | -8.47         |
| Low 4   | 2427               | 18.32                               | 19.65                               | 22.05                             | 30.00                   | -7.95         |
| Mid 6   | 2437               | 18.41                               | 19.72                               | 22.12                             | 30.00                   | -7.88         |
| High 9  | 2452               | 18.09                               | 18.18                               | 21.15                             | 30.00                   | -8.85         |
| High 10 | 2457               | 16.58                               | 16.58                               | 19.59                             | 30.00                   | -10.41        |
| High 11 | 2462               | 14.53                               | 14.57                               | 17.56                             | 30.00                   | -12.44        |
| High 12 | 2467               | 12.62                               | 12.67                               | 15.66                             | 30.00                   | -14.34        |
| High 13 | 2472               | -0.28                               | -0.42                               | 2.66                              | 30.00                   | -27.34        |

**2TX Antenna 4 + Antenna 3 OFDMA MODE: 26-Tones, RU Index 8**

**Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | FCC/ISED<br>Power<br>Limit<br>(dBm) | ISED<br>EIRP<br>Limit<br>(dBm) | Max<br>Power<br>(dBm) |
|---------|--------------------|------------------------------|-------------------------------------|--------------------------------|-----------------------|
| Low 1   | 2412               | -1.80                        | 30.00                               | 36                             | 30.00                 |
| Low 2   | 2417               | -1.80                        | 30.00                               | 36                             | 30.00                 |
| Low 3   | 2422               | -1.80                        | 30.00                               | 36                             | 30.00                 |
| Low 4   | 2427               | -1.80                        | 30.00                               | 36                             | 30.00                 |
| Mid 6   | 2437               | -1.80                        | 30.00                               | 36                             | 30.00                 |
| High 9  | 2452               | -1.80                        | 30.00                               | 36                             | 30.00                 |
| High 10 | 2457               | -1.80                        | 30.00                               | 36                             | 30.00                 |
| High 11 | 2462               | -1.80                        | 30.00                               | 36                             | 30.00                 |
| High 12 | 2467               | -1.80                        | 30.00                               | 36                             | 30.00                 |
| High 13 | 2472               | -1.80                        | 30.00                               | 36                             | 30.00                 |

|                           |      |                                                 |
|---------------------------|------|-------------------------------------------------|
| <b>Duty Cycle CF (dB)</b> | 0.00 | <b>Included in Calculations of Corr'd Power</b> |
|---------------------------|------|-------------------------------------------------|

**Results**

| Channel | Frequency<br>(MHz) | Antenna 4<br>Meas<br>Power<br>(dBm) | Antenna 3<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Margi<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|---------------|
| Low 1   | 2412               | 14.52                               | 14.53                               | 17.54                             | 30.00                   | -12.46        |
| Low 2   | 2417               | 16.74                               | 16.72                               | 19.74                             | 30.00                   | -10.26        |
| Low 3   | 2422               | 18.38                               | 18.64                               | 21.52                             | 30.00                   | -8.48         |
| Low 4   | 2427               | 18.36                               | 19.62                               | 22.05                             | 30.00                   | -7.95         |
| Mid 6   | 2437               | 18.42                               | 19.68                               | 22.11                             | 30.00                   | -7.89         |
| High 9  | 2452               | 18.11                               | 18.17                               | 21.15                             | 30.00                   | -8.85         |
| High 10 | 2457               | 16.58                               | 16.55                               | 19.58                             | 30.00                   | -10.42        |
| High 11 | 2462               | 14.67                               | 14.71                               | 17.70                             | 30.00                   | -12.30        |
| High 12 | 2467               | 12.63                               | 12.57                               | 15.61                             | 30.00                   | -14.39        |
| High 13 | 2472               | -0.39                               | -0.31                               | 2.66                              | 30.00                   | -27.34        |

**2TX Antenna 4 + Antenna 3 OFDMA MODE: 242-Tones, RU Index 61**

**Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | FCC/ISED<br>Power<br>Limit<br>(dBm) | ISED<br>EIRP<br>Limit<br>(dBm) | Max<br>Power<br>(dBm) |
|---------|--------------------|------------------------------|-------------------------------------|--------------------------------|-----------------------|
| Low 1   | 2412               | -1.80                        | 30.00                               | 36                             | 30.00                 |
| Low 2   | 2417               | -1.80                        | 30.00                               | 36                             | 30.00                 |
| Low 3   | 2422               | -1.80                        | 30.00                               | 36                             | 30.00                 |
| Low 4   | 2427               | -1.80                        | 30.00                               | 36                             | 30.00                 |
| Mid 6   | 2437               | -1.80                        | 30.00                               | 36                             | 30.00                 |
| High 9  | 2452               | -1.80                        | 30.00                               | 36                             | 30.00                 |
| High 10 | 2457               | -1.80                        | 30.00                               | 36                             | 30.00                 |
| High 11 | 2462               | -1.80                        | 30.00                               | 36                             | 30.00                 |
| High 12 | 2467               | -1.80                        | 30.00                               | 36                             | 30.00                 |
| High 13 | 2472               | -1.80                        | 30.00                               | 36                             | 30.00                 |

|                           |      |                                                 |
|---------------------------|------|-------------------------------------------------|
| <b>Duty Cycle CF (dB)</b> | 0.00 | <b>Included in Calculations of Corr'd Power</b> |
|---------------------------|------|-------------------------------------------------|

**Results**

| Channel | Frequency<br>(MHz) | Antenna 4<br>Meas<br>Power<br>(dBm) | Antenna 3<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Margi<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|---------------|
| Low 1   | 2412               | 14.62                               | 14.74                               | 17.69                             | 30.00                   | -12.31        |
| Low 2   | 2417               | 16.67                               | 16.69                               | 19.69                             | 30.00                   | -10.31        |
| Low 3   | 2422               | 18.36                               | 18.62                               | 21.50                             | 30.00                   | -8.50         |
| Low 4   | 2427               | 18.28                               | 21.08                               | 22.91                             | 30.00                   | -7.09         |
| Mid 6   | 2437               | 18.40                               | 21.22                               | 23.05                             | 30.00                   | -6.95         |
| High 9  | 2452               | 18.23                               | 18.18                               | 21.22                             | 30.00                   | -8.78         |
| High 10 | 2457               | 16.67                               | 16.63                               | 19.66                             | 30.00                   | -10.34        |
| High 11 | 2462               | 14.68                               | 14.71                               | 17.71                             | 30.00                   | -12.29        |
| High 12 | 2467               | 12.66                               | 12.61                               | 15.65                             | 30.00                   | -14.35        |
| High 13 | 2472               | 4.12                                | 4.06                                | 7.10                              | 30.00                   | -22.90        |

## **8.5. POWER SPECTRAL DENSITY**

### **LIMITS**

FCC §15.247 (e)

RSS-247 (5.2) (b)

The power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

### **RESULTS**

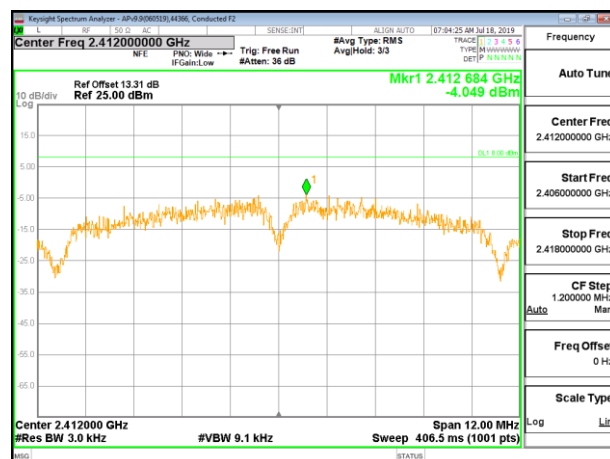
### 8.5.1. 802.11b MODE

#### 1TX Antenna 4 MODE

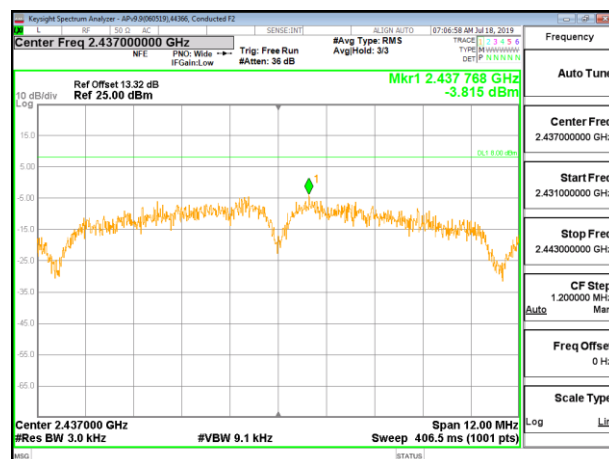
|                           |      |                                               |
|---------------------------|------|-----------------------------------------------|
| <b>Duty Cycle CF (dB)</b> | 0.00 | <b>Included in Calculations of Corr'd PSD</b> |
|---------------------------|------|-----------------------------------------------|

#### PSD Results

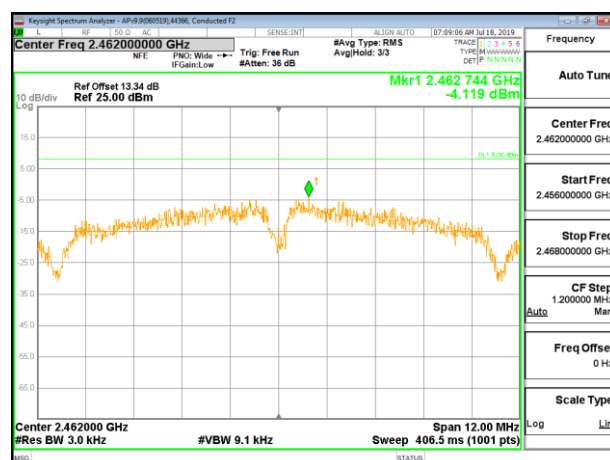
| Channel | Frequency<br>(MHz) | Antenna 4<br>Meas<br>(dBm/<br>3kHz) | Total<br>Corr'd<br>PSD<br>(dBm/<br>3kHz) | Limit<br>(dBm/<br>3kHz) | Margin<br>(dB) |
|---------|--------------------|-------------------------------------|------------------------------------------|-------------------------|----------------|
| Low 1   | 2412               | -4.049                              | -4.05                                    | 8.0                     | -12.0          |
| Mid 6   | 2437               | -3.815                              | -3.82                                    | 8.0                     | -11.8          |
| High 11 | 2462               | -4.119                              | -4.12                                    | 8.0                     | -12.1          |
| High 12 | 2467               | -4.088                              | -4.09                                    | 8.0                     | -12.1          |
| High 13 | 2472               | -4.601                              | -4.60                                    | 8.0                     | -12.6          |



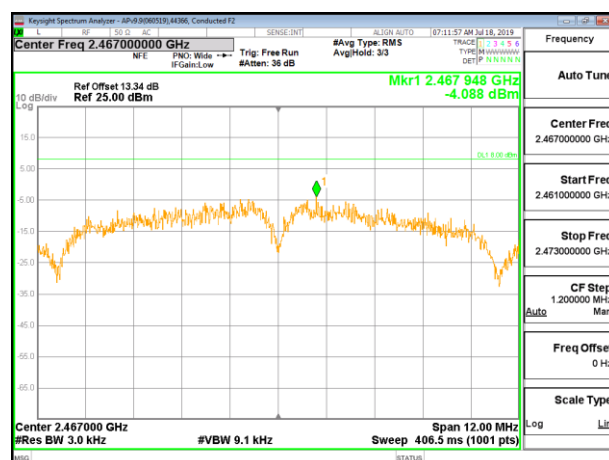
LOW CHANNEL 1



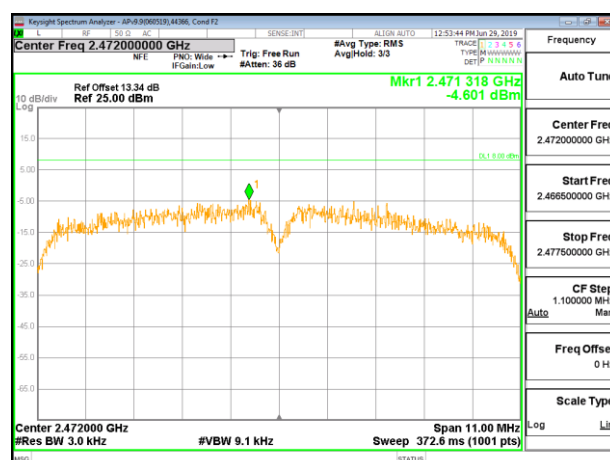
MID CHANNEL 6



HIGH CHANNEL 11



HIGH CHANNEL 12



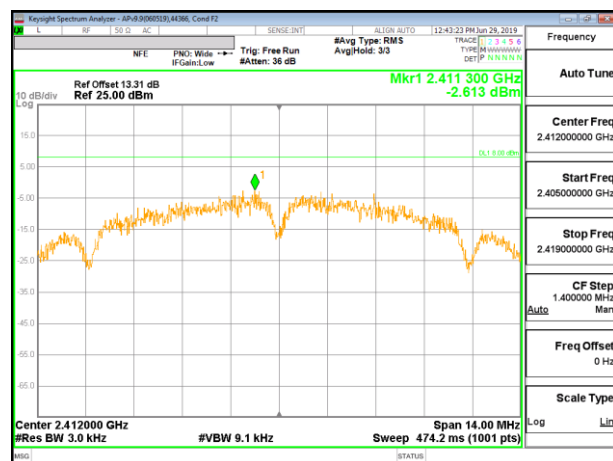
HIGH CHANNEL 13

**1TX Antenna 3 MODE**

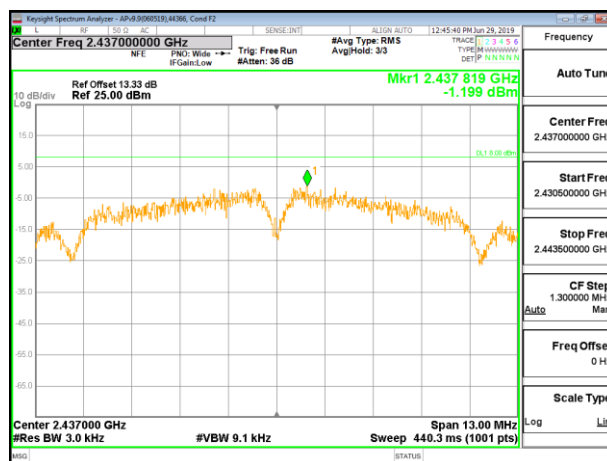
|                           |      |                                               |
|---------------------------|------|-----------------------------------------------|
| <b>Duty Cycle CF (dB)</b> | 0.00 | <b>Included in Calculations of Corr'd PSD</b> |
|---------------------------|------|-----------------------------------------------|

**PSD Results**

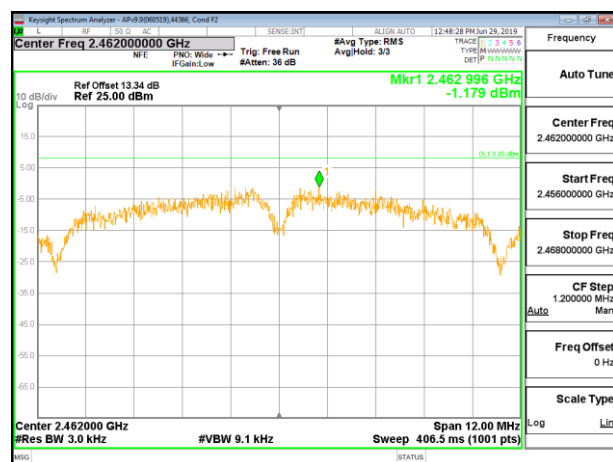
| <b>Channel</b> | <b>Frequency<br/>(MHz)</b> | <b>Antenna 3<br/>Meas<br/>(dBm/<br/>3kHz)</b> | <b>Total<br/>Corr'd<br/>PSD<br/>(dBm/<br/>3kHz)</b> | <b>Limit<br/>(dBm/<br/>3kHz)</b> | <b>Margin<br/>(dB)</b> |
|----------------|----------------------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------|------------------------|
| Low 1          | 2412                       | -2.613                                        | -2.61                                               | 8.0                              | -10.6                  |
| Mid 6          | 2437                       | -1.199                                        | -1.20                                               | 8.0                              | -9.2                   |
| High 11        | 2462                       | -1.179                                        | -1.18                                               | 8.0                              | -9.2                   |
| High 12        | 2467                       | -2.732                                        | -2.73                                               | 8.0                              | -10.7                  |
| High 13        | 2472                       | -4.543                                        | -4.54                                               | 8.0                              | -12.5                  |



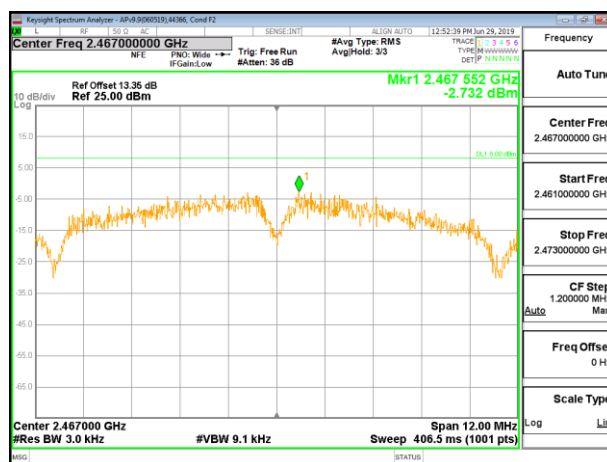
LOW CHANNEL 1



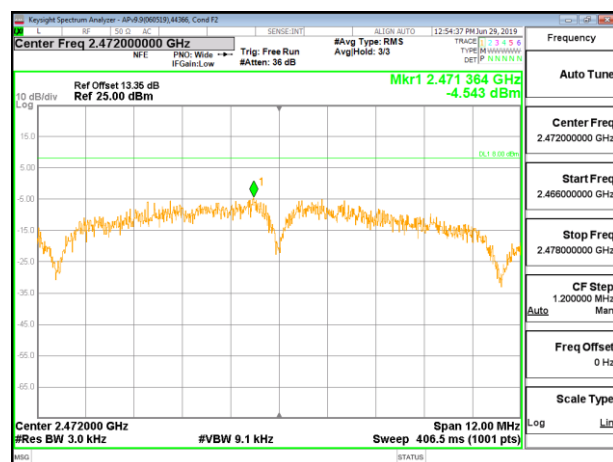
MID CHANNEL 6



HIGH CHANNEL 11



HIGH CHANNEL 12

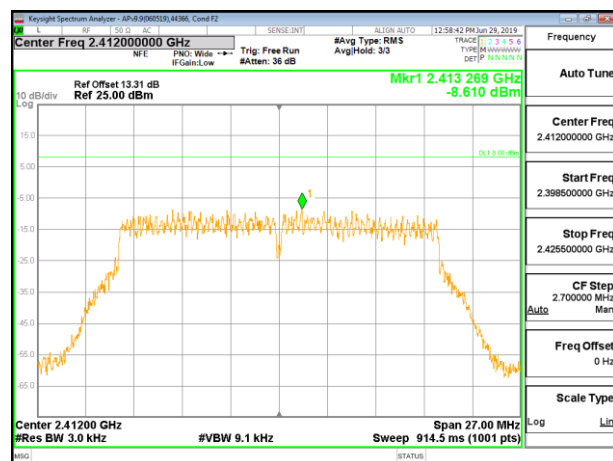


HIGH CHANNEL 13

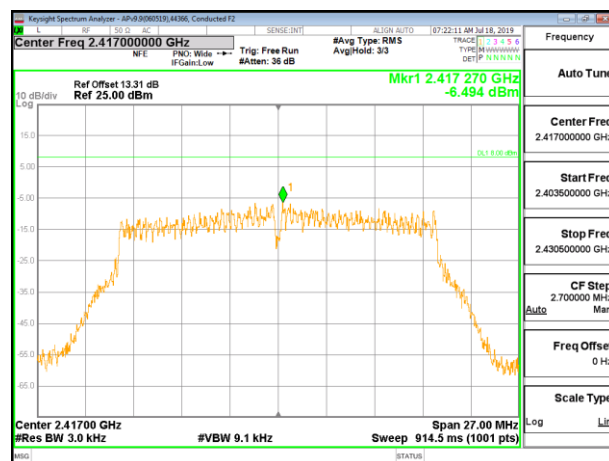
## 8.5.2. 802.11n HT20 MODE

### 1TX Antenna 4 MODE

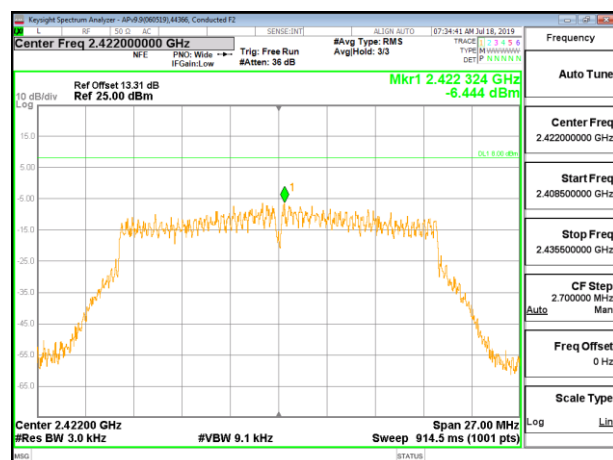
| Duty Cycle CF (dB) |                        | 0.00                                    | Included in Calculations of Corr'd PSD   |                             |                    |
|--------------------|------------------------|-----------------------------------------|------------------------------------------|-----------------------------|--------------------|
| PSD Results        |                        |                                         |                                          |                             |                    |
| Channel            | Frequency<br><br>(MHz) | Antenna 4<br>Meas<br><br>(dBm/<br>3kHz) | Total<br>Corr'd<br>PSD<br>(dBm/<br>3kHz) | Limit<br><br>(dBm/<br>3kHz) | Margin<br><br>(dB) |
| Low 1              | 2412                   | -8.610                                  | -8.61                                    | 8.0                         | -16.6              |
| Low 2              | 2417                   | -6.494                                  | -6.49                                    | 8.0                         | -14.5              |
| Low 3              | 2422                   | -6.444                                  | -6.44                                    | 8.0                         | -14.4              |
| Mid 6              | 2437                   | -6.438                                  | -6.44                                    | 8.0                         | -14.4              |
| High 9             | 2452                   | -6.528                                  | -6.53                                    | 8.0                         | -14.5              |
| High 10            | 2457                   | -6.582                                  | -6.58                                    | 8.0                         | -14.6              |
| High 11            | 2462                   | -8.744                                  | -8.74                                    | 8.0                         | -16.7              |
| High 12            | 2467                   | -9.437                                  | -9.44                                    | 8.0                         | -17.4              |
| High 13            | 2472                   | -16.920                                 | -16.92                                   | 8.0                         | -24.9              |



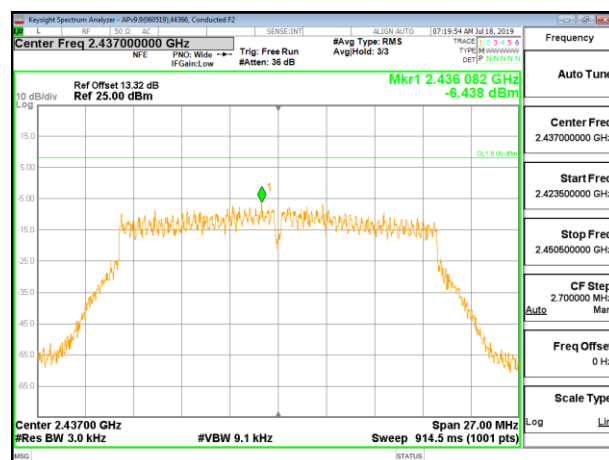
LOW CHANNEL 1



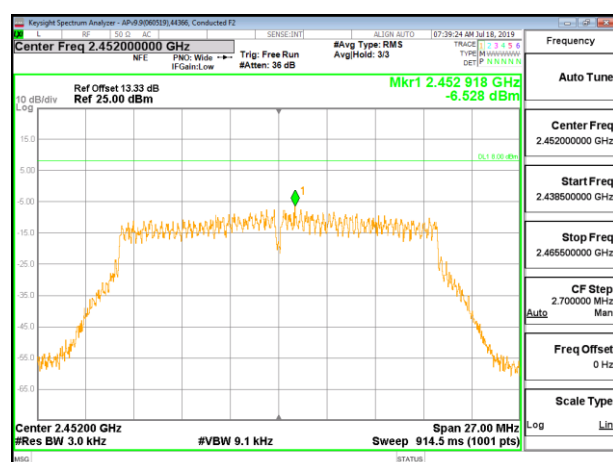
LOW CHANNEL 2



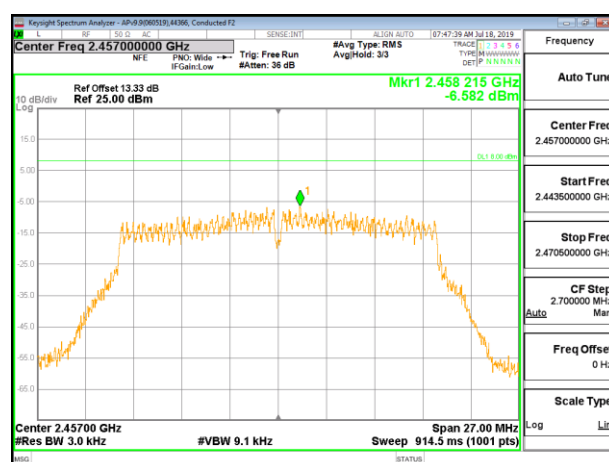
LOW CHANNEL 3



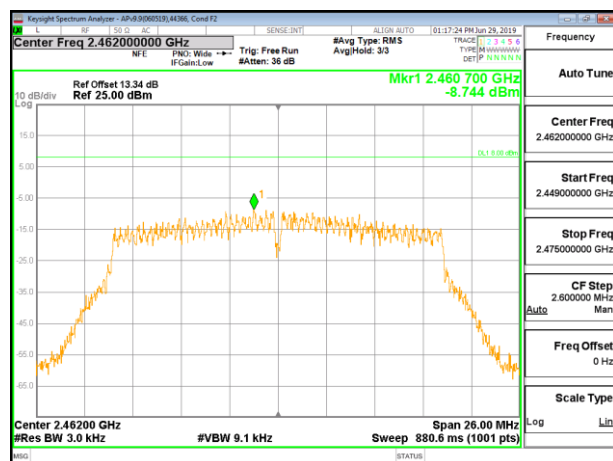
MID CHANNEL 6



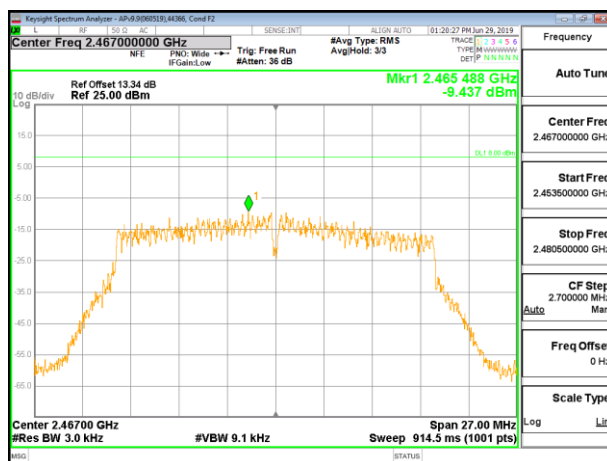
HIGH CHANNEL 9



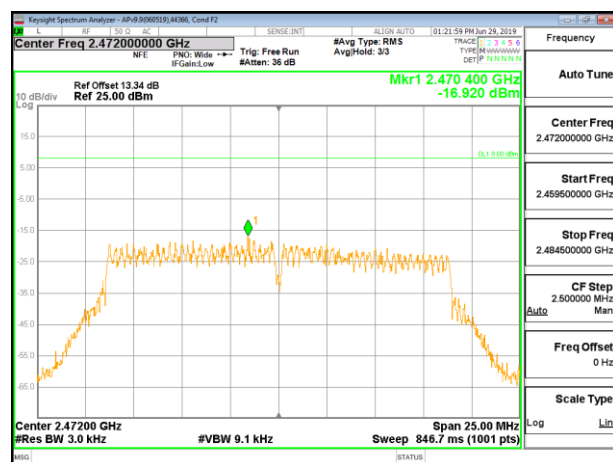
HIGH CHANNEL 10



HIGH CHANNEL 11



HIGH CHANNEL 12



HIGH CHANNEL 13

**1TX Antenna 3 MODE**

|                           |      |                                               |
|---------------------------|------|-----------------------------------------------|
| <b>Duty Cycle CF (dB)</b> | 0.00 | <b>Included in Calculations of Corr'd PSD</b> |
|---------------------------|------|-----------------------------------------------|

**PSD Results**

| <b>Channel</b> | <b>Frequency<br/>(MHz)</b> | <b>Antenna 3<br/>Meas<br/>(dBm/<br/>3kHz)</b> | <b>Total<br/>Corr'd<br/>PSD<br/>(dBm/<br/>3kHz)</b> | <b>Limit<br/>(dBm/<br/>3kHz)</b> | <b>Margin<br/>(dB)</b> |
|----------------|----------------------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------|------------------------|
| Low 1          | 2412                       | -8.714                                        | -8.71                                               | 8.0                              | -16.7                  |
| Low 2          | 2417                       | -5.498                                        | -5.50                                               | 8.0                              | -13.5                  |
| Low 3          | 2422                       | -3.312                                        | -3.31                                               | 8.0                              | -11.3                  |
| Mid 6          | 2437                       | -3.398                                        | -3.40                                               | 8.0                              | -11.4                  |
| High 9         | 2452                       | -3.353                                        | -3.35                                               | 8.0                              | -11.4                  |
| High 10        | 2457                       | -5.415                                        | -5.42                                               | 8.0                              | -13.4                  |
| High 11        | 2462                       | -8.578                                        | -8.58                                               | 8.0                              | -16.6                  |
| High 12        | 2467                       | -9.489                                        | -9.49                                               | 8.0                              | -17.5                  |
| High 13        | 2472                       | -16.936                                       | -16.94                                              | 8.0                              | -24.9                  |