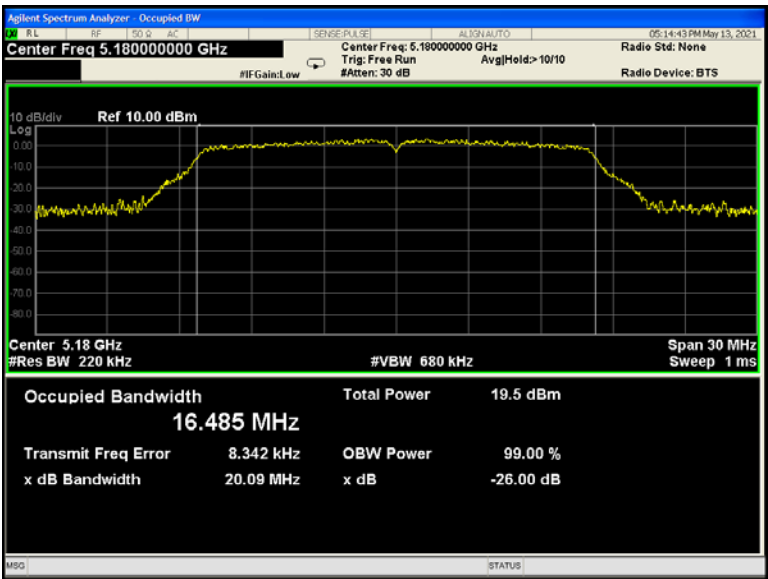
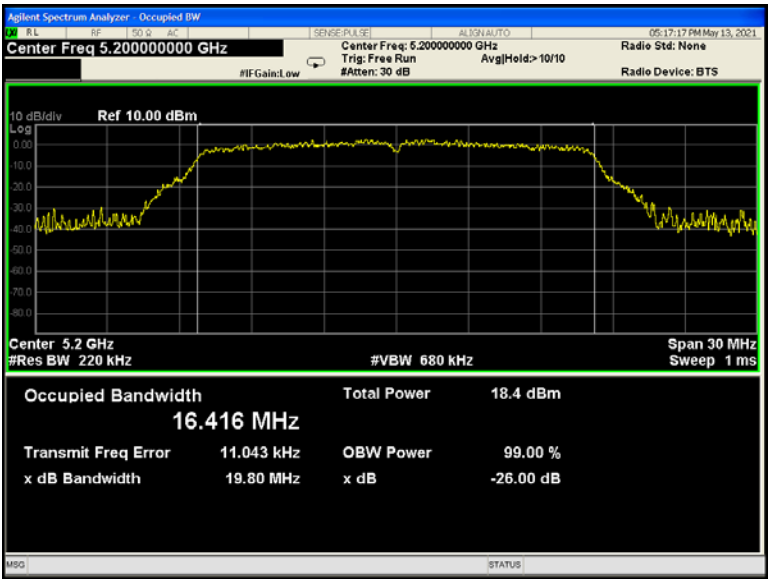


Test result plots shown as follows:

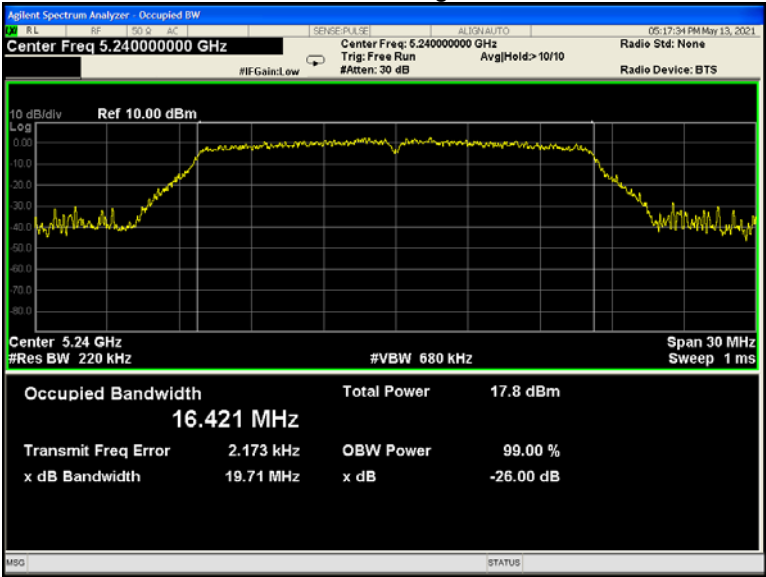
802.11a U-NII-1 Low channel



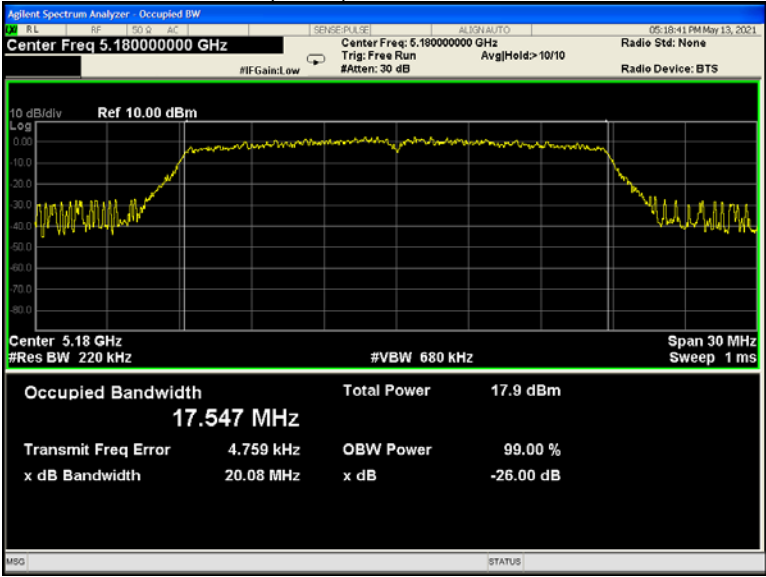
802.11a U-NII-1 Middle channel



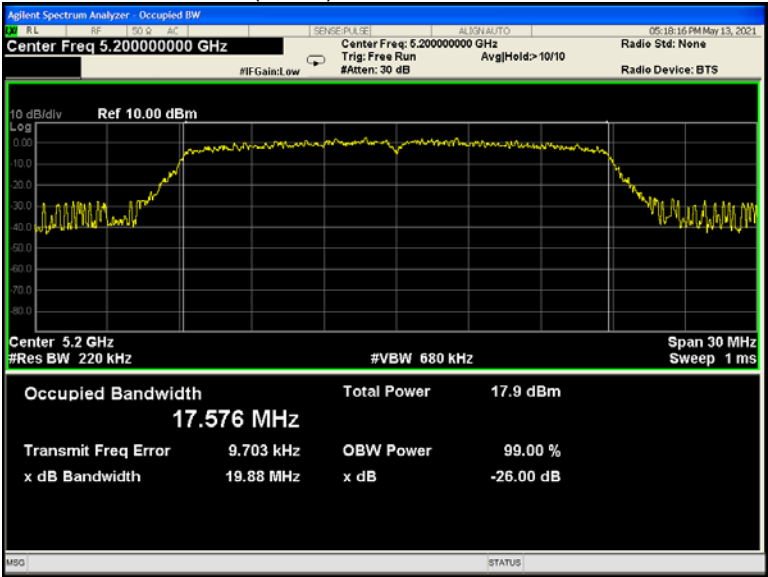
802.11a U-NII-1 High channel



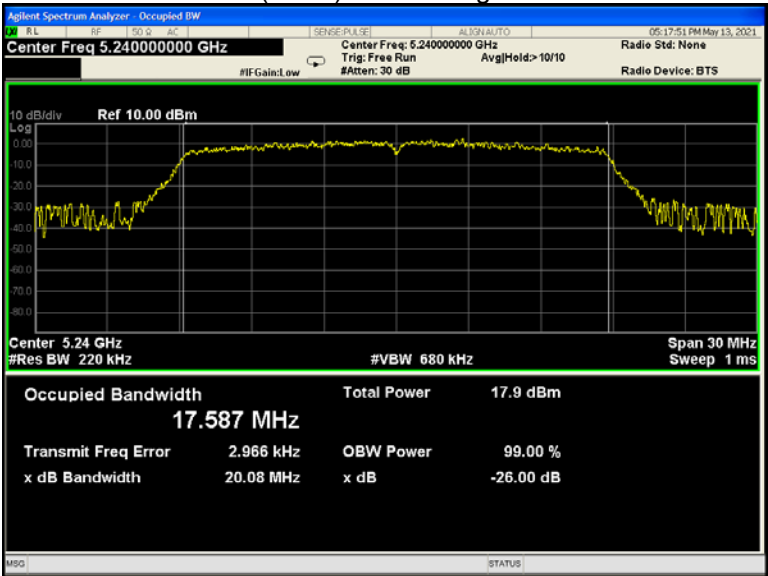
802.11n(HT20) U-NII-1 Low channel



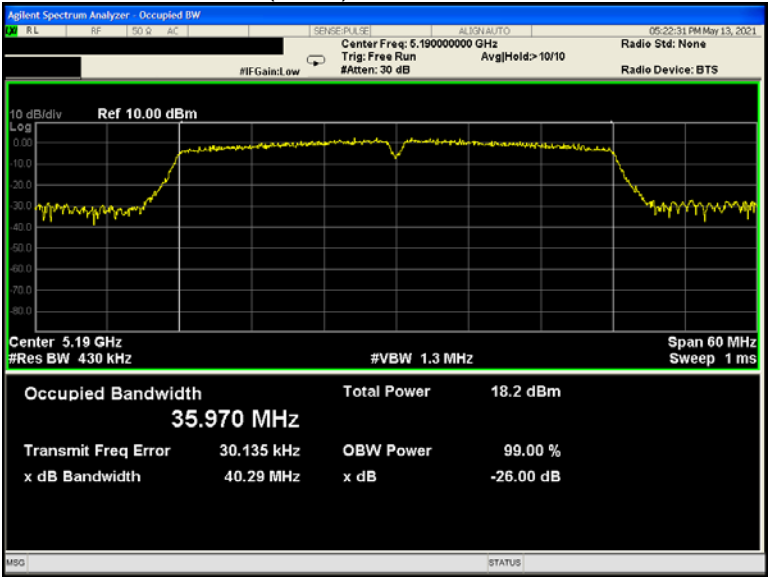
802.11n(HT20) U-NII-1 Middle channel



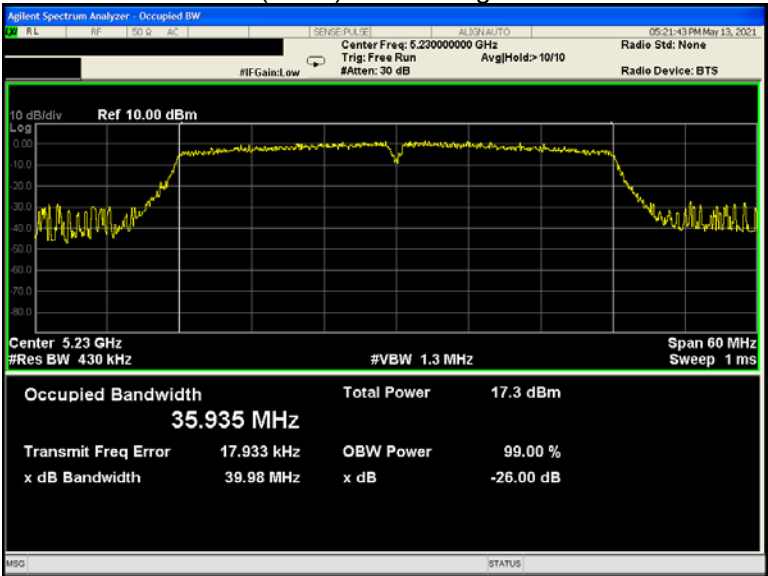
802.11n(HT20) U-NII-1 High channel



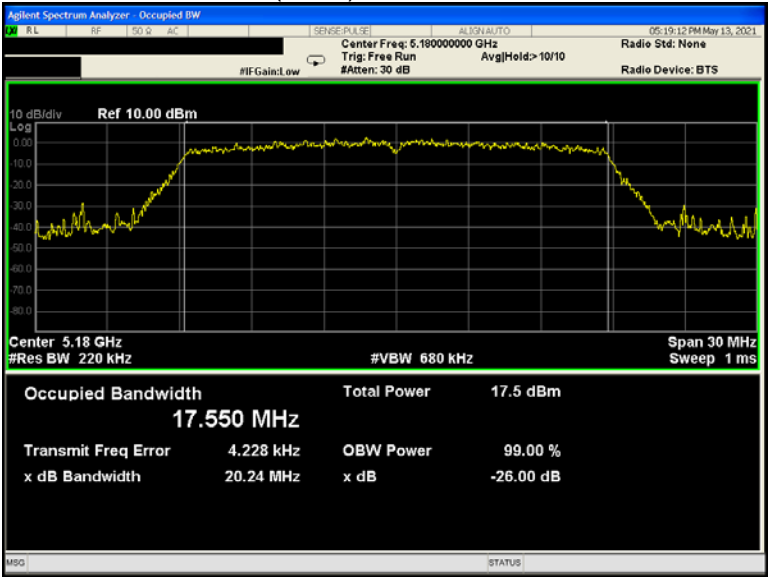
802.11n(HT40) U-NII-1 Low channel



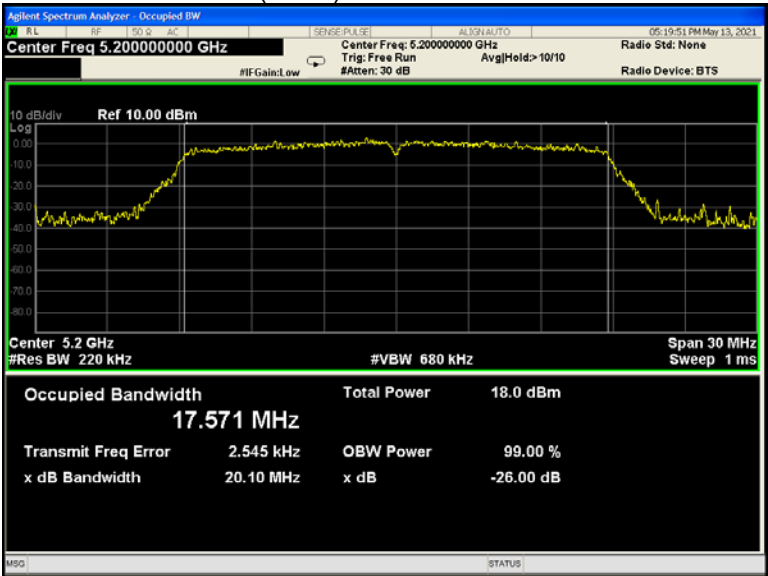
802.11n(HT40) U-NII-1 High channel



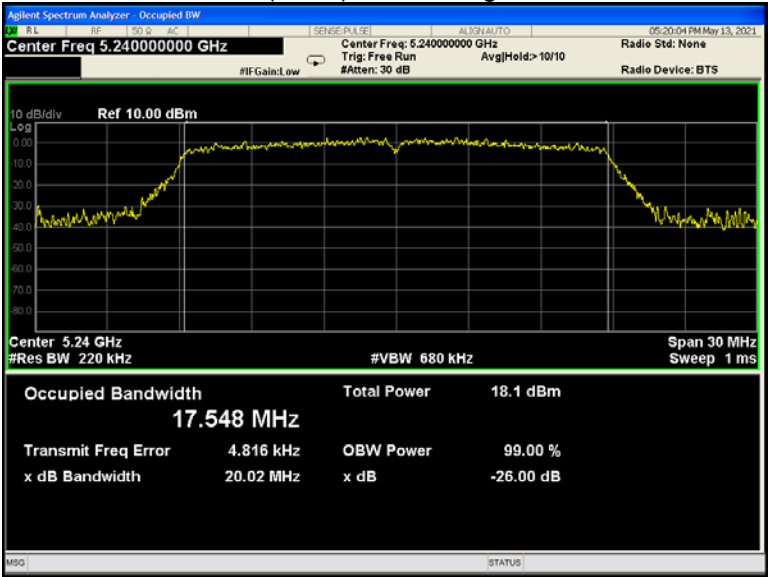
802.11ac(HT20) U-NII-1 Low channel



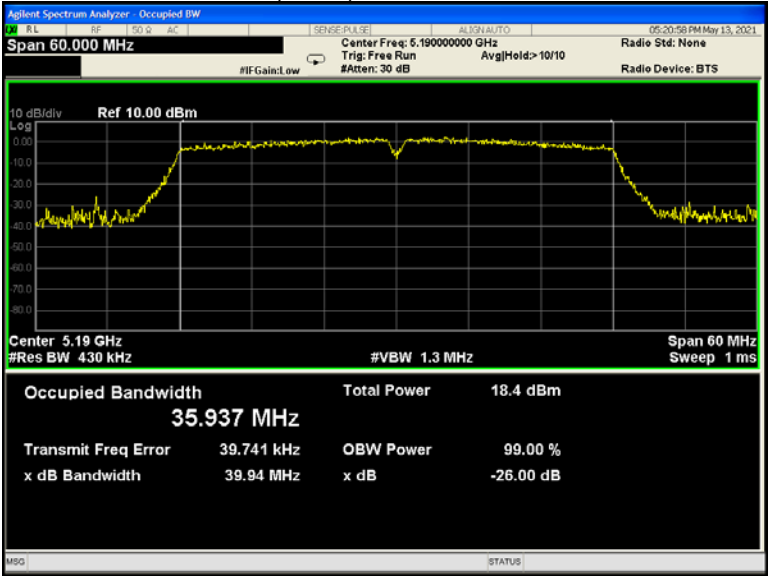
802.11ac(HT20) U-NII-1 Middle channel



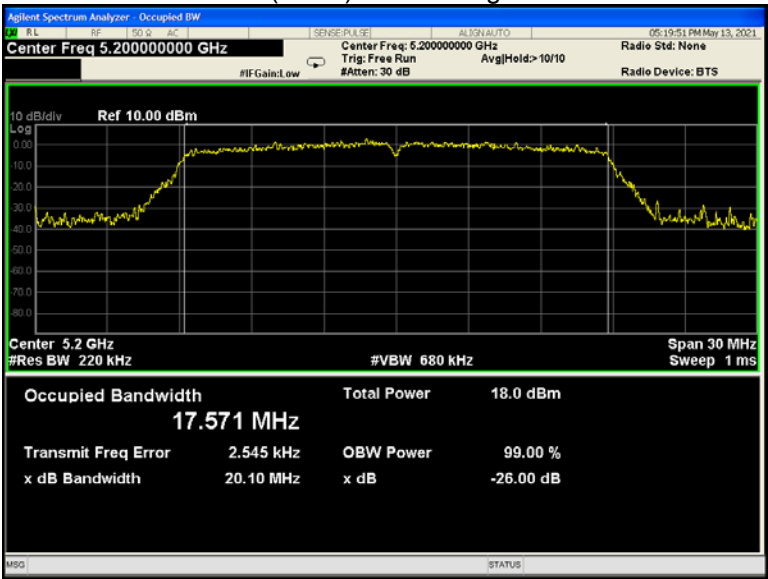
802.11ac(HT20) U-NII-1 High channel



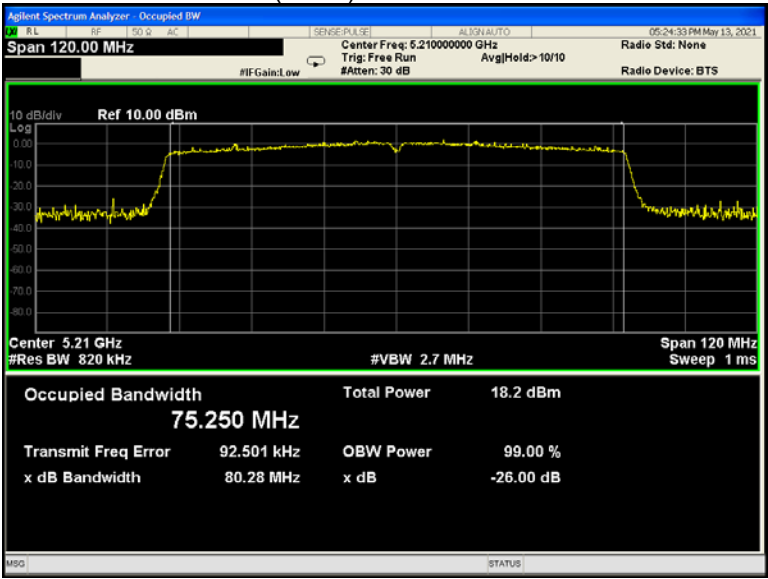
802.11ac(HT40) U-NII-1 Low channel



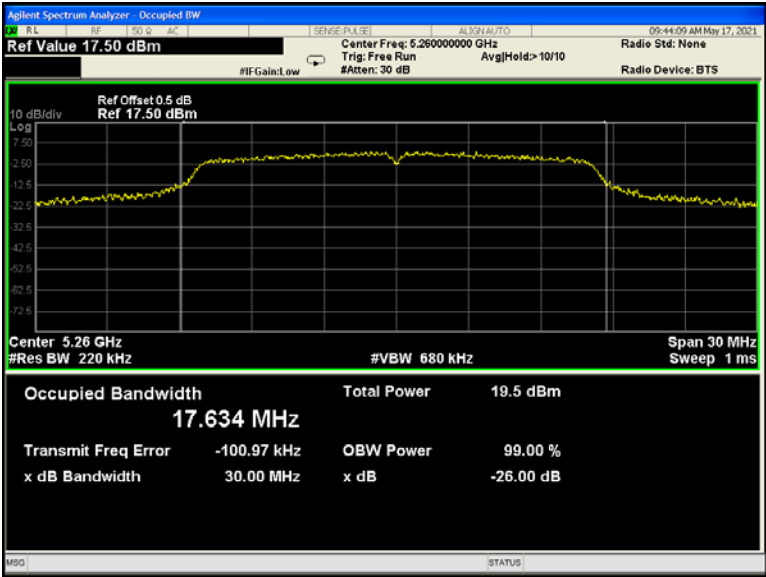
802.11 ac(HT40) U-NII-1 High channel



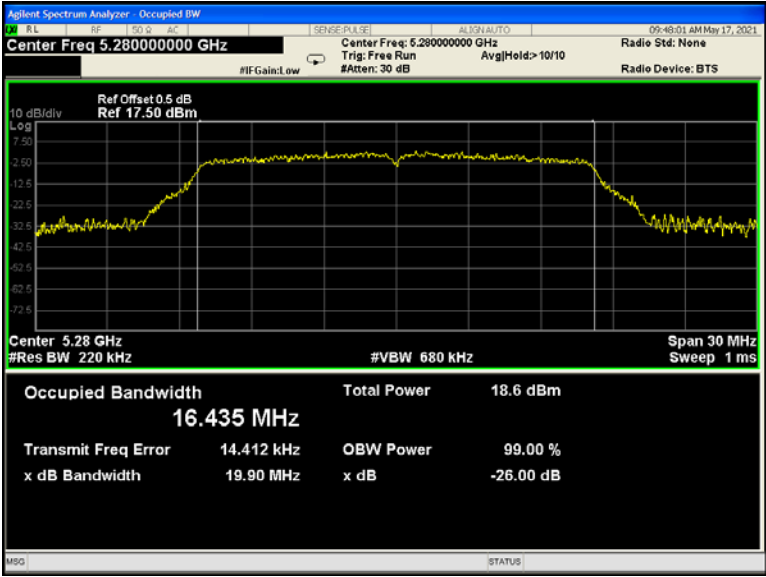
802.11ac(HT80) U-NII-1 Low channel



802.11a U-NII-2A Low channel

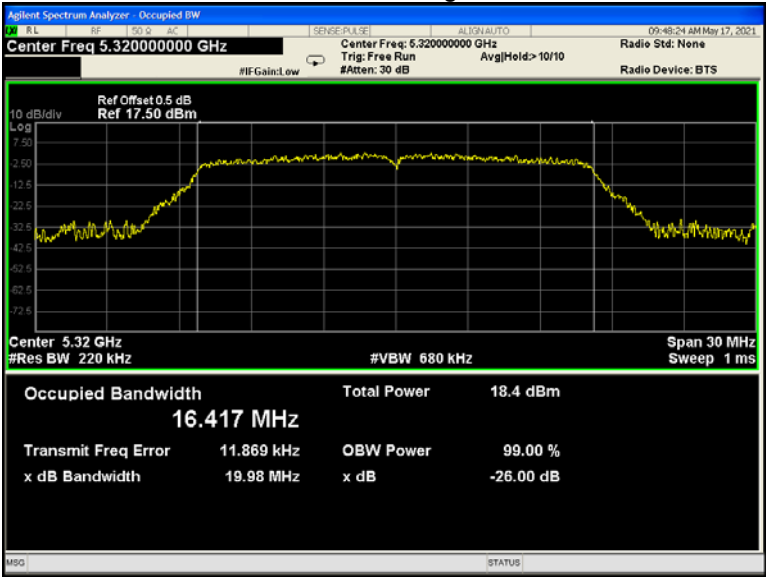


802.11a U-NII-2A Middle channel

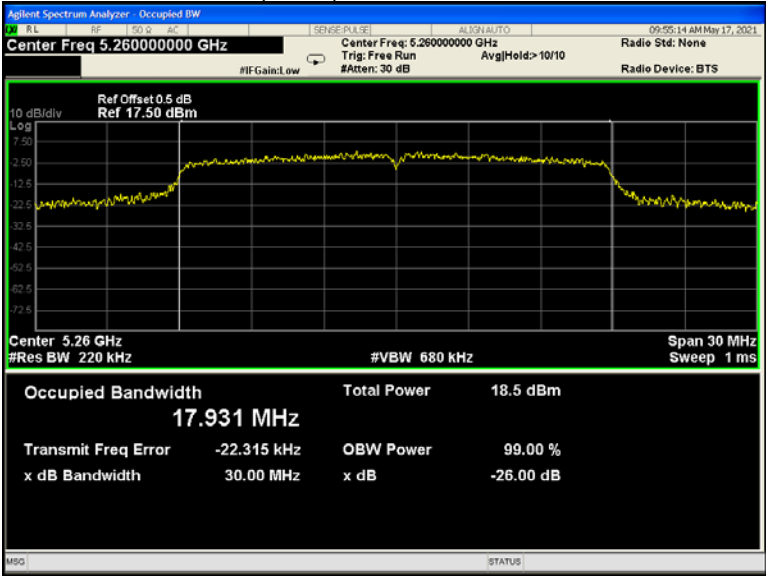




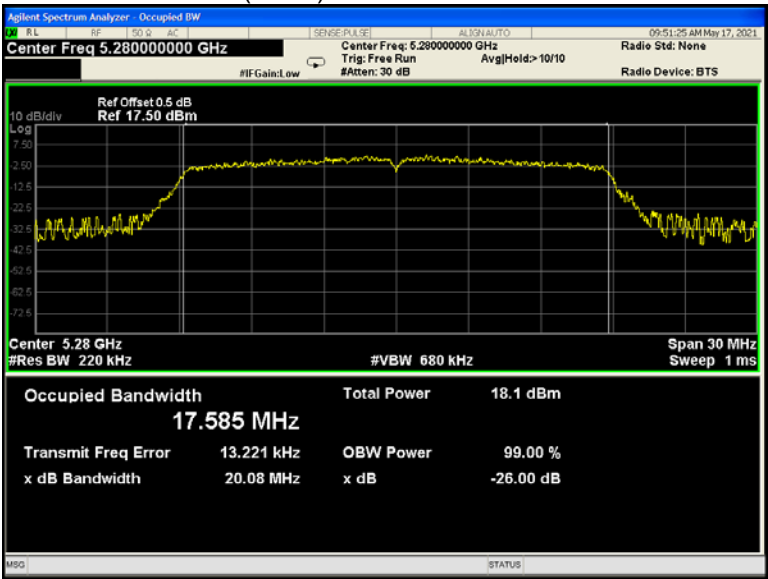
802.11a U-NII-2A High channel



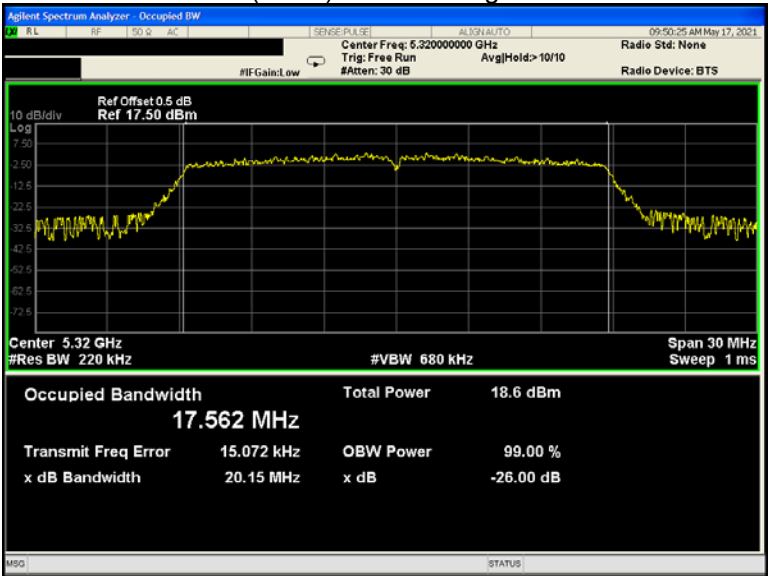
802.11n(HT20) U-NII-2A Low channel



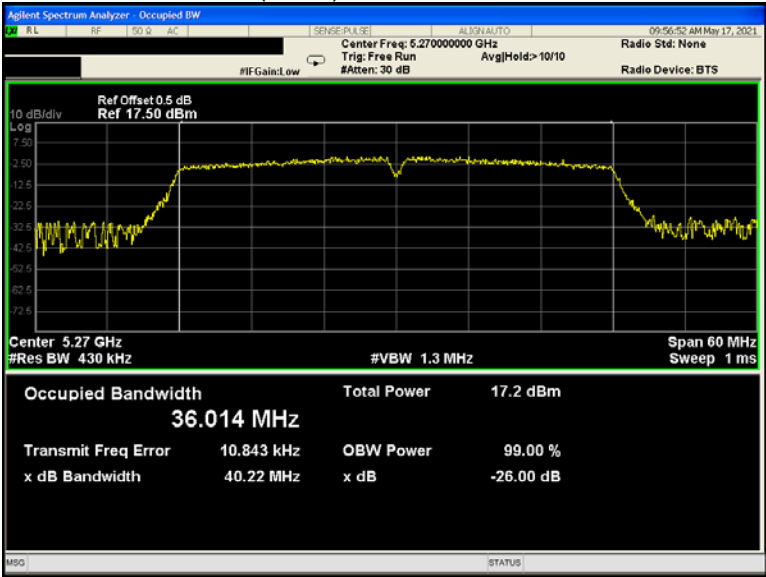
802.11n(HT20) U-NII-2A Middle channel



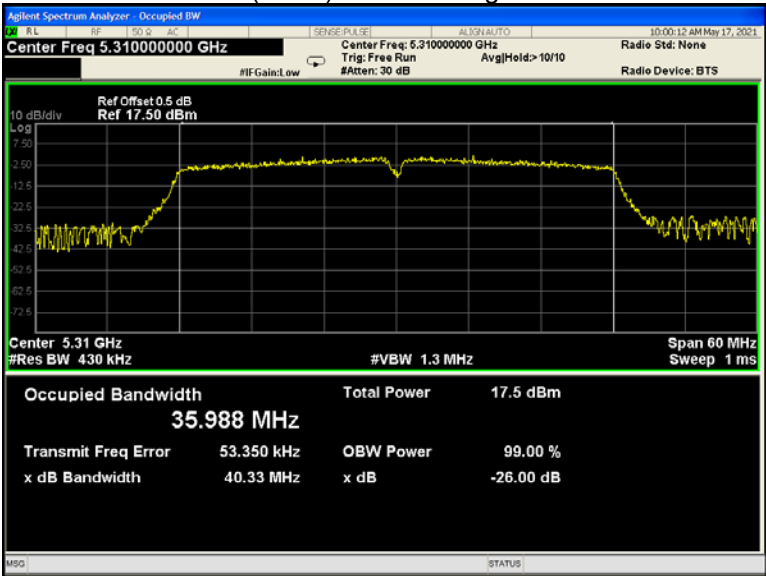
802.11n(HT20) U-NII-2A High channel



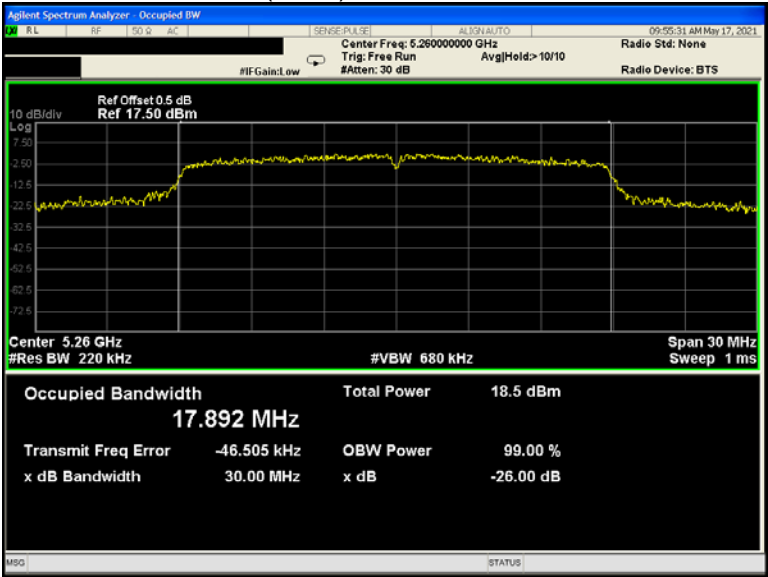
802.11n(HT40) U-NII-2A Low channel



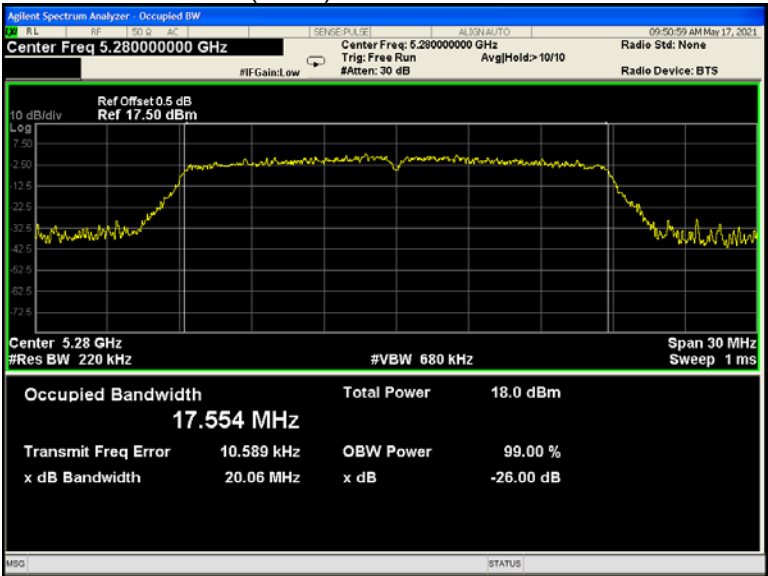
802.11n(HT40) U-NII-2A High channel



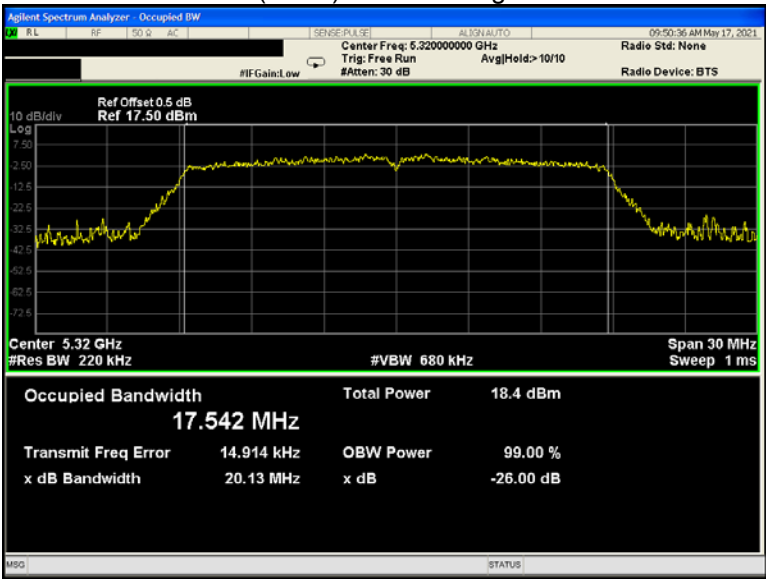
802.11ac(HT20) U-NII-2A Low channel



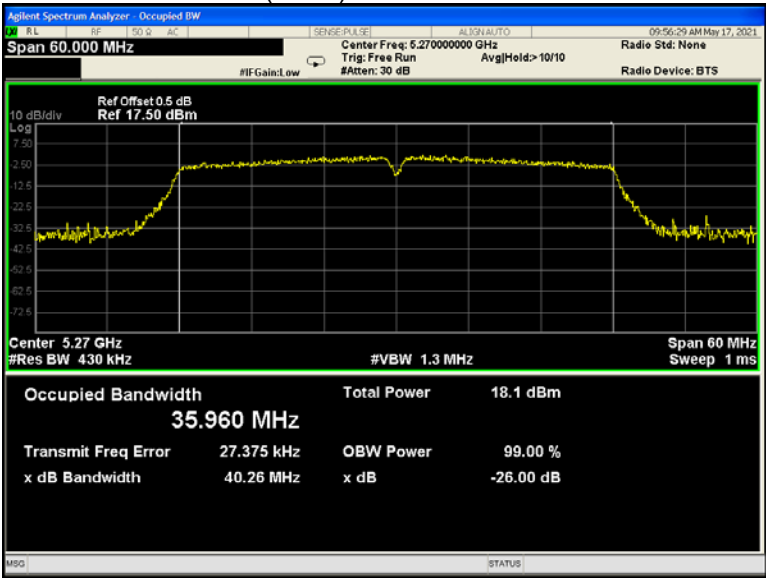
802.11ac(HT20) U-NII-2A Middle channel



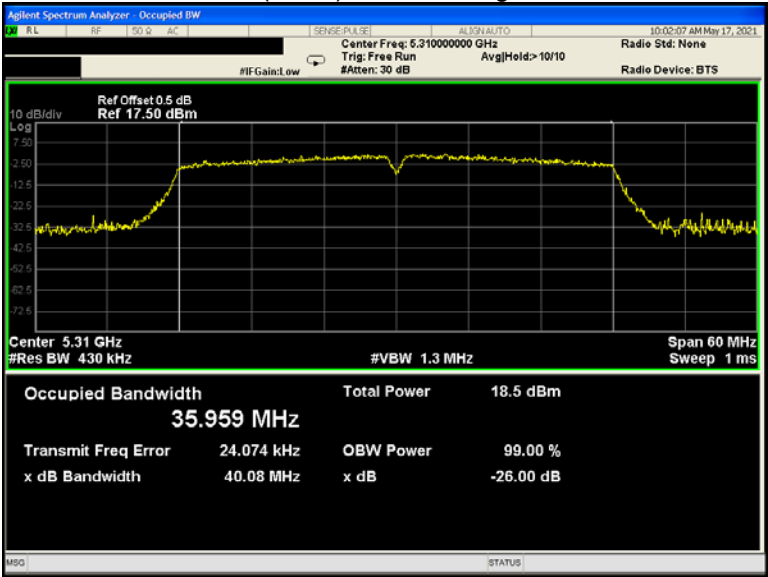
802.11ac(HT20) U-NII-2A High channel



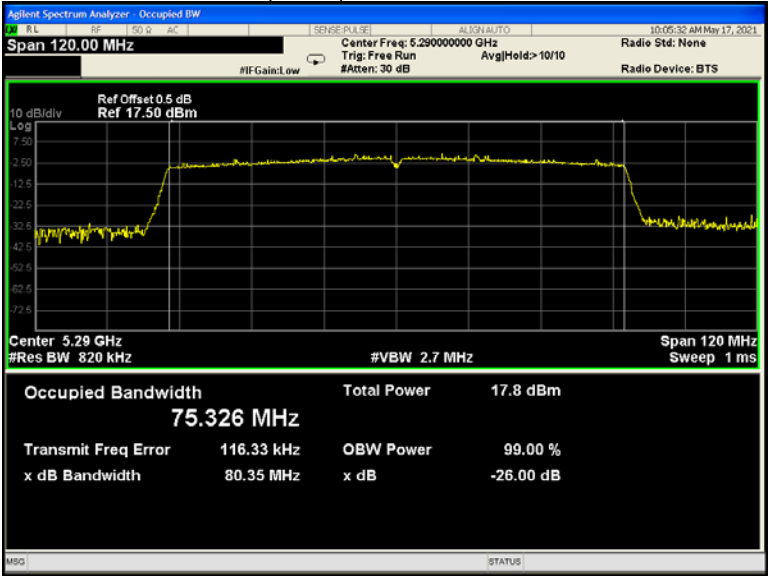
802.11ac(HT40) U-NII-2A Low channel



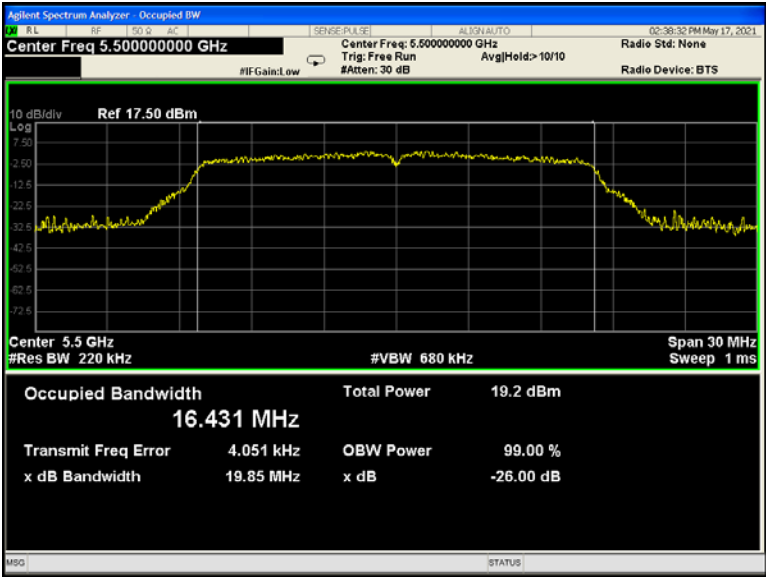
802.11ac(HT40) U-NII-2A High channel



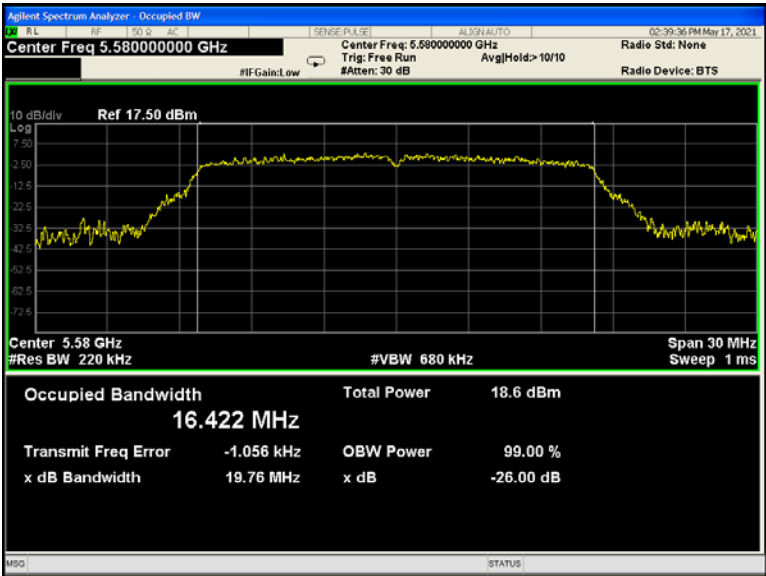
802.11ac(HT80) U-NII-2A Low channel



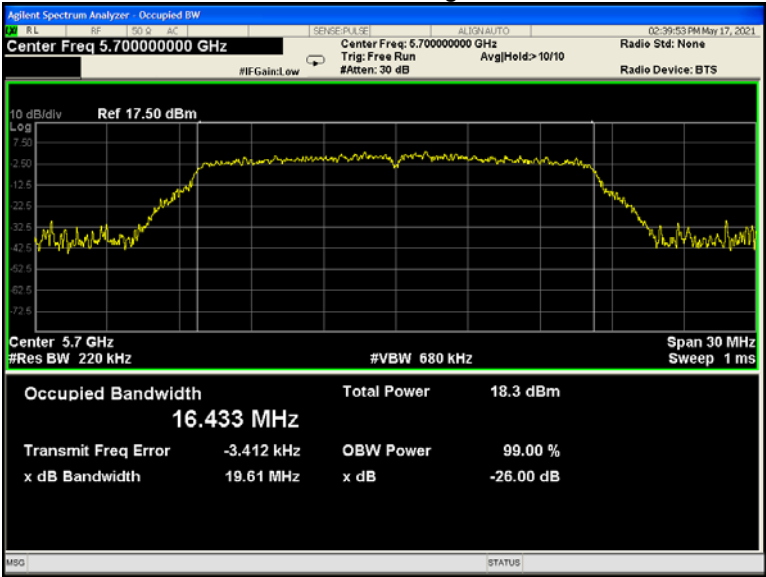
802.11a U-NII-2C Low channel



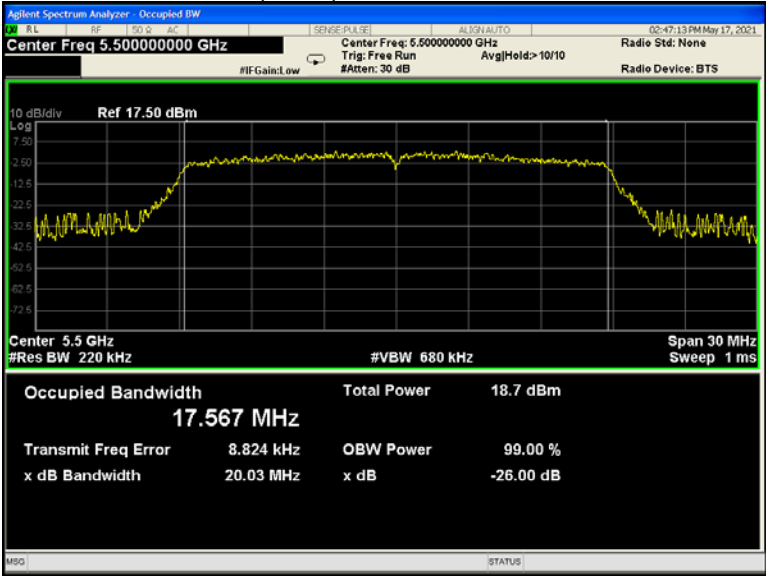
802.11a U-NII-2C Middle channel



802.11a U-NII-2C High channel

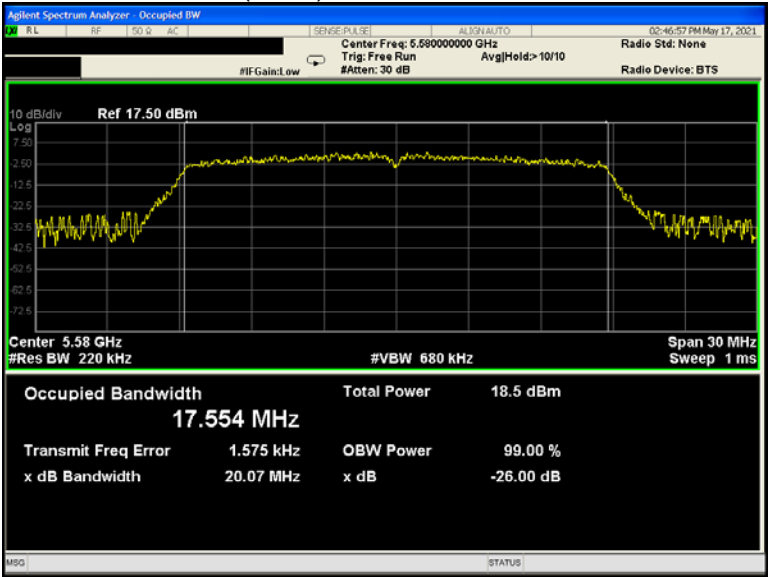


802.11n(HT20) U-NII-2C Low channel

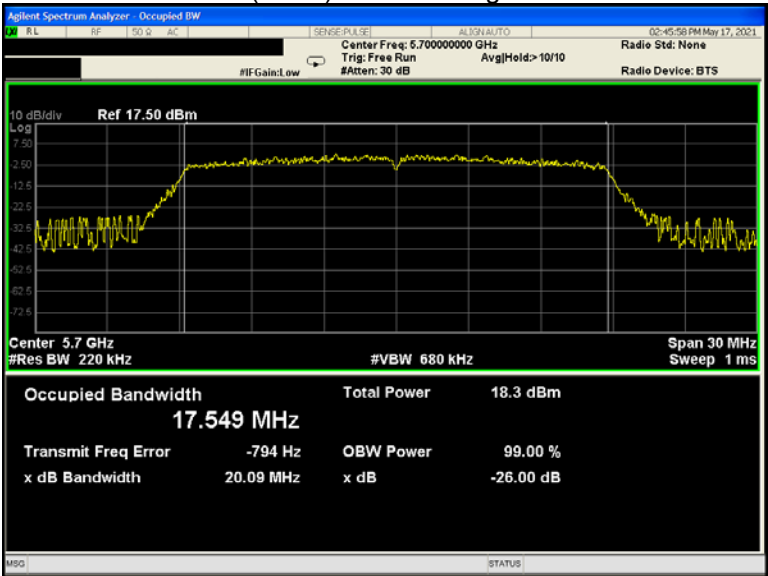




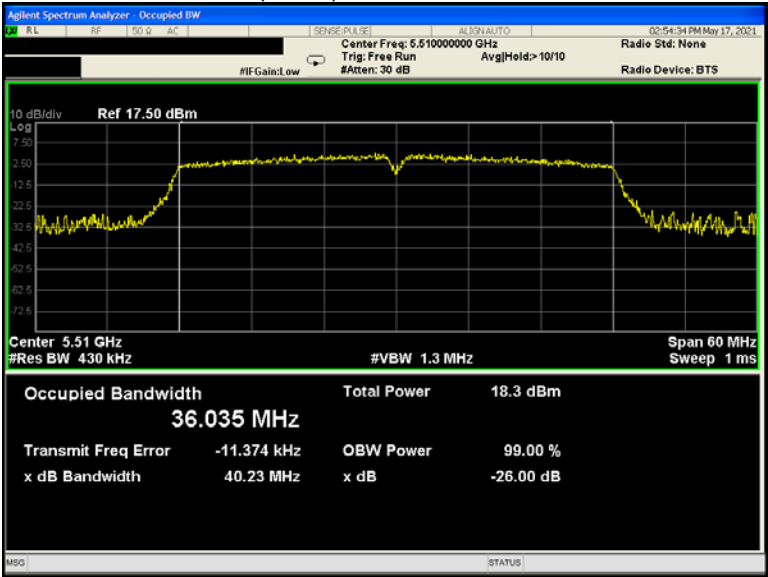
802.11n(HT20) U-NII-2C Middle channel



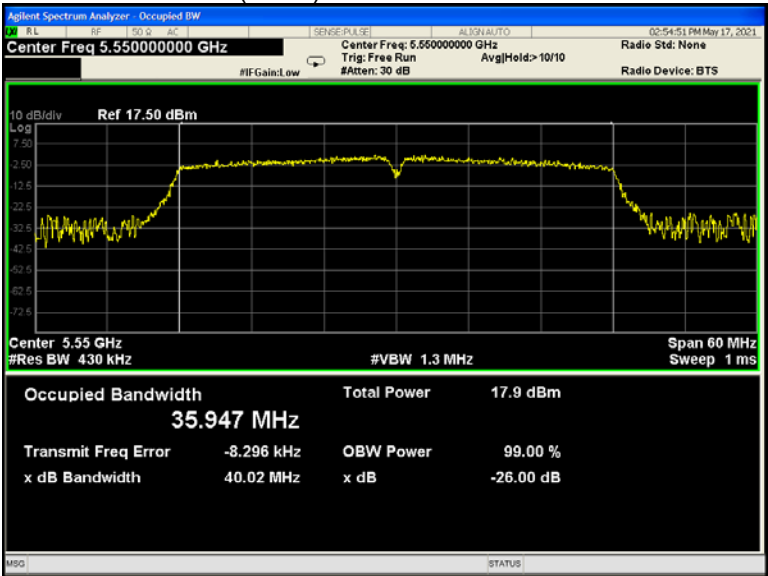
802.11n(HT20) U-NII-2C High channel



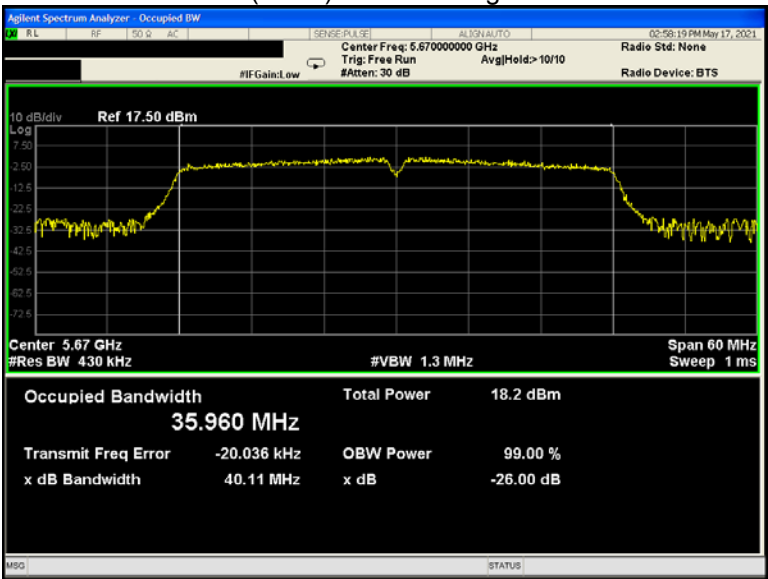
802.11n(HT40) U-NII-2C Low channel



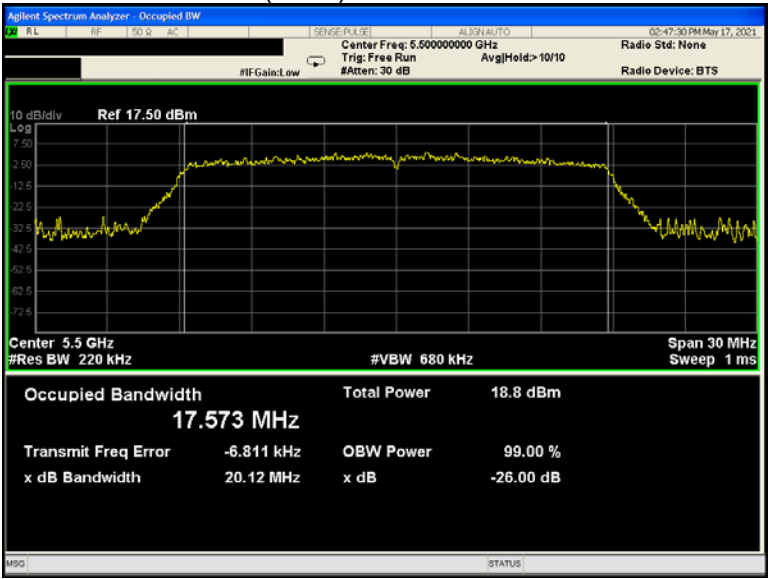
802.11n(HT40) U-NII-2C Middle channel



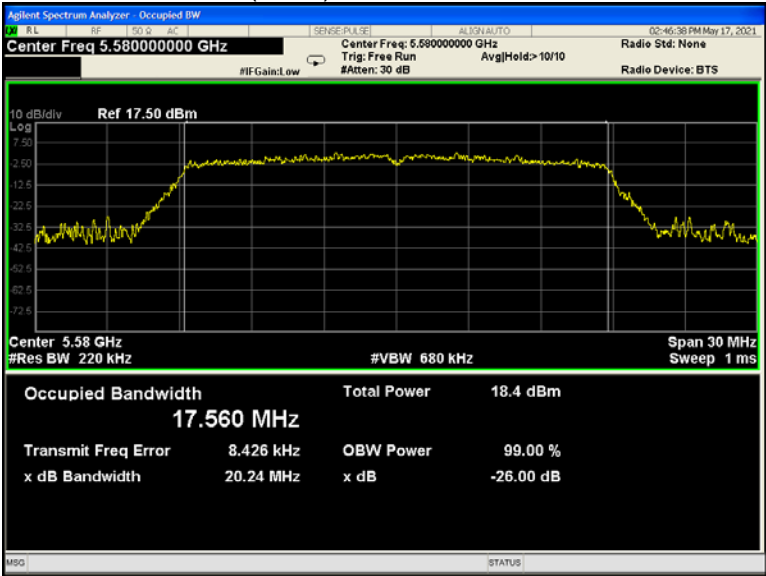
802.11n(HT40) U-NII-2C High channel



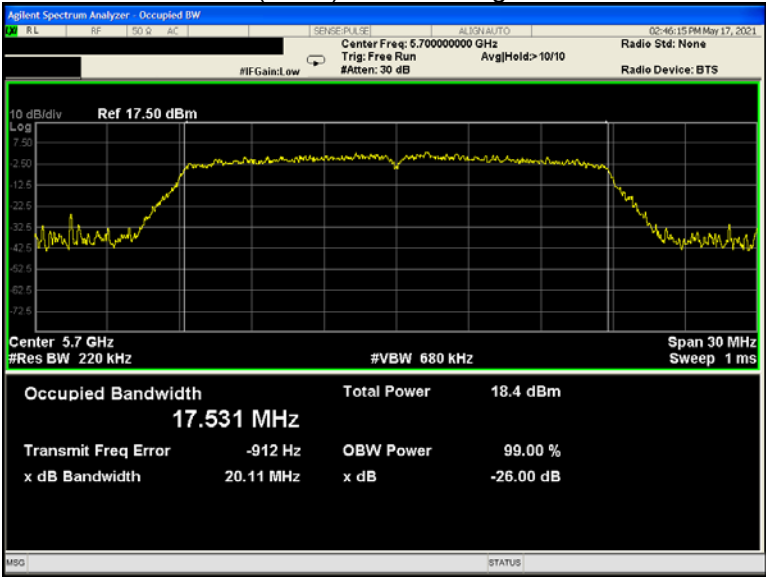
802.11ac(HT20) U-NII-2C Low channel



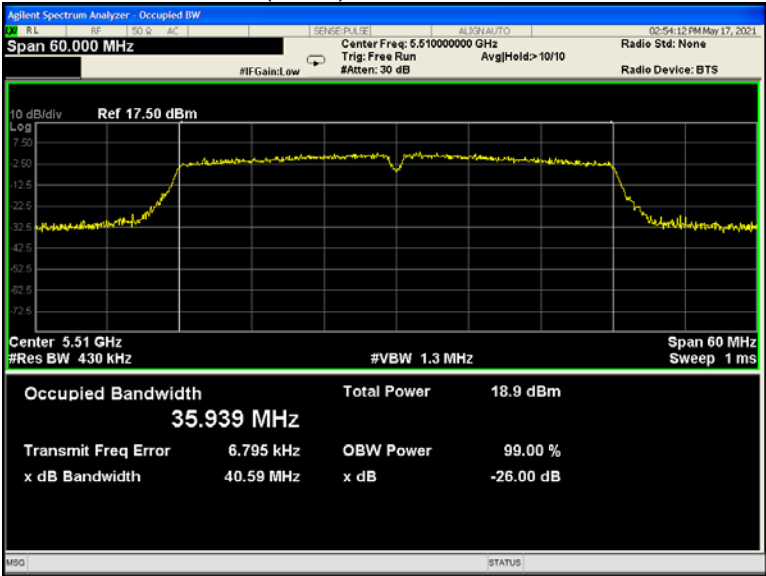
802.11ac(HT20) U-NII-2C Middle channel



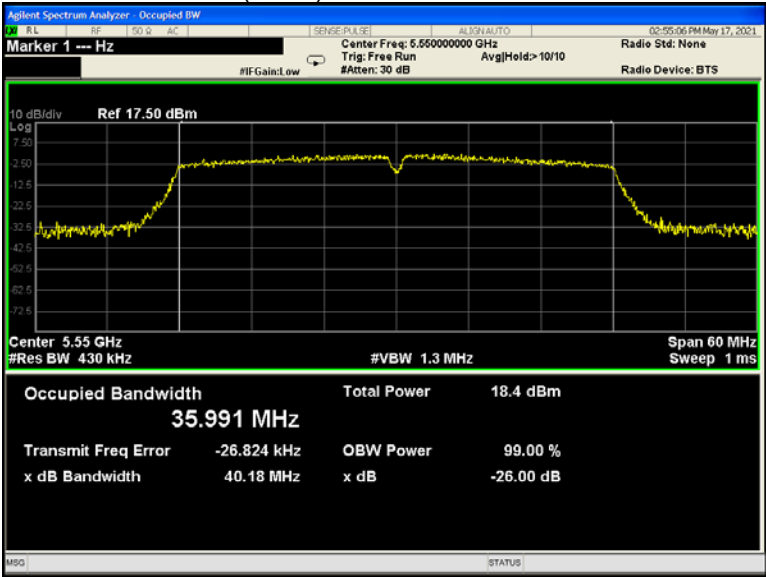
802.11ac(HT20) U-NII-2C High channel



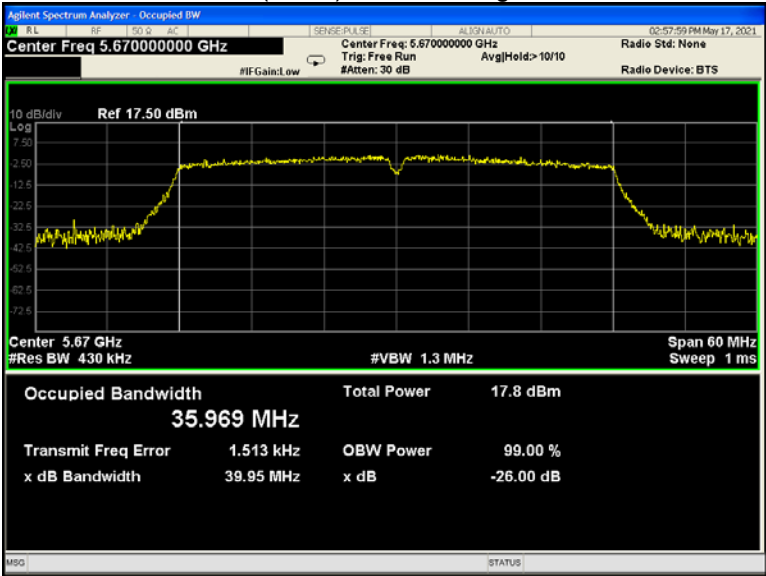
802.11ac(HT40) U-NII-2C Low channel



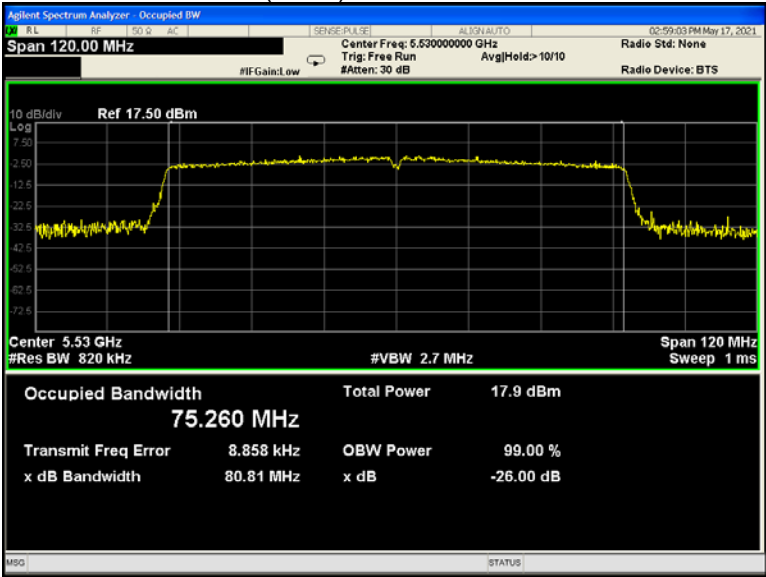
02.11ac(HT40) U-NII-2C Middle channel

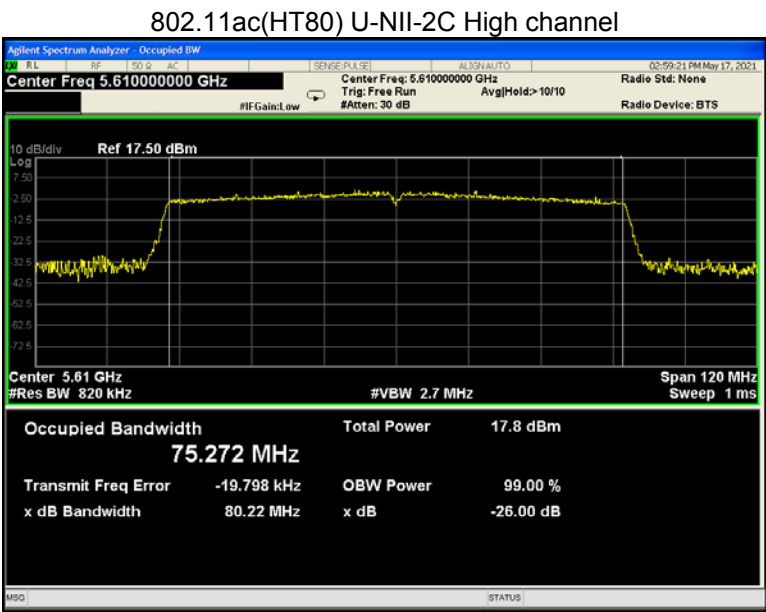


802.11 ac(HT40) U-NII-2C High channel

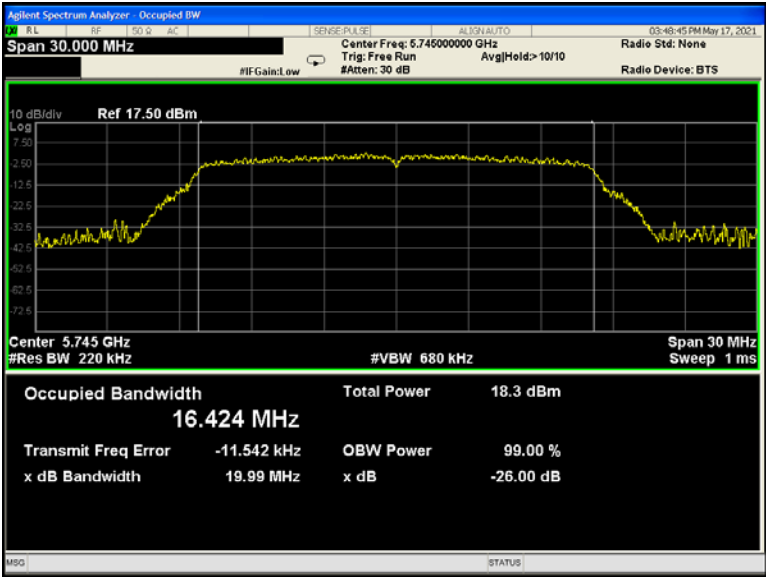


802.11ac(HT80) U-NII-2C Low channel

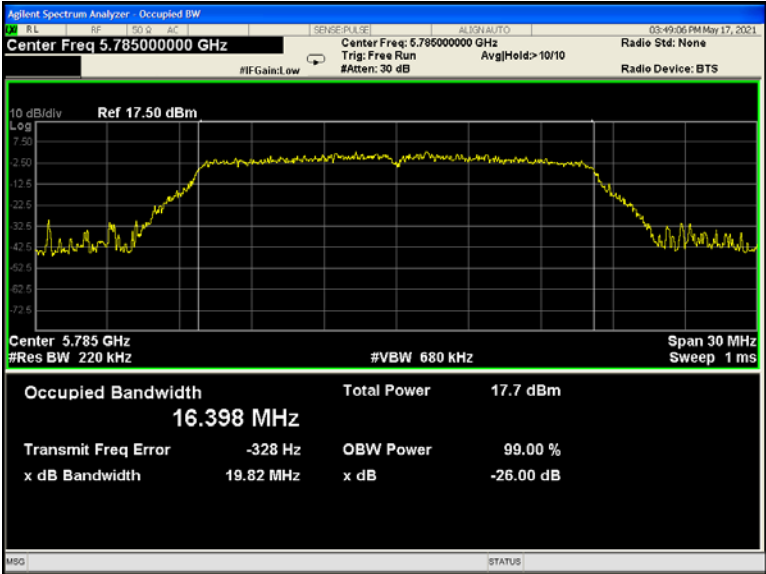




802.11a U-NII-3 Low channel

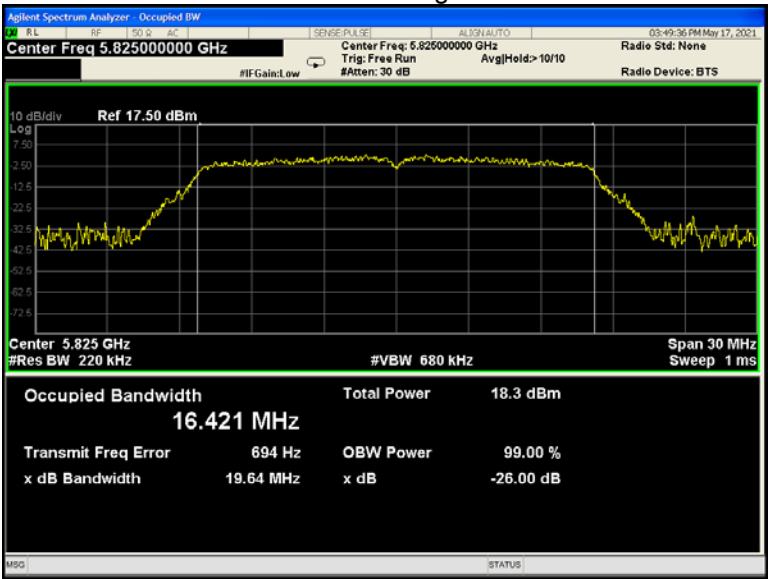


802.11a U-NII-3 Middle channel

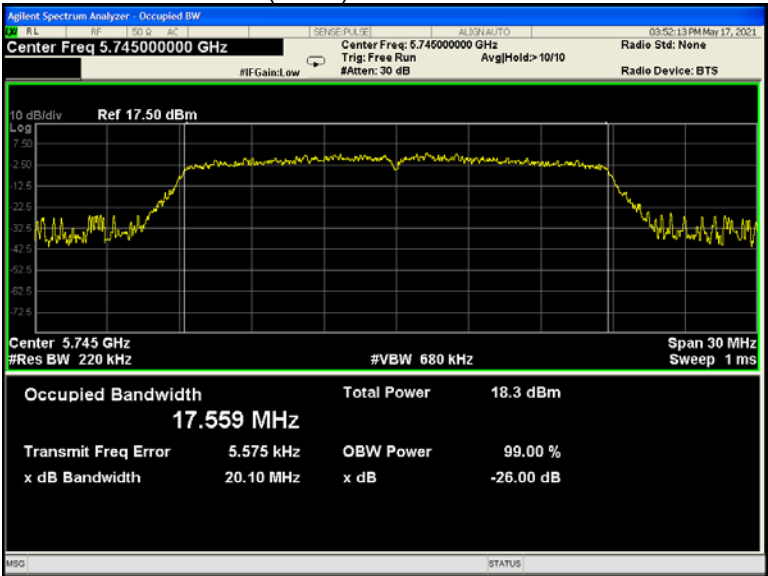




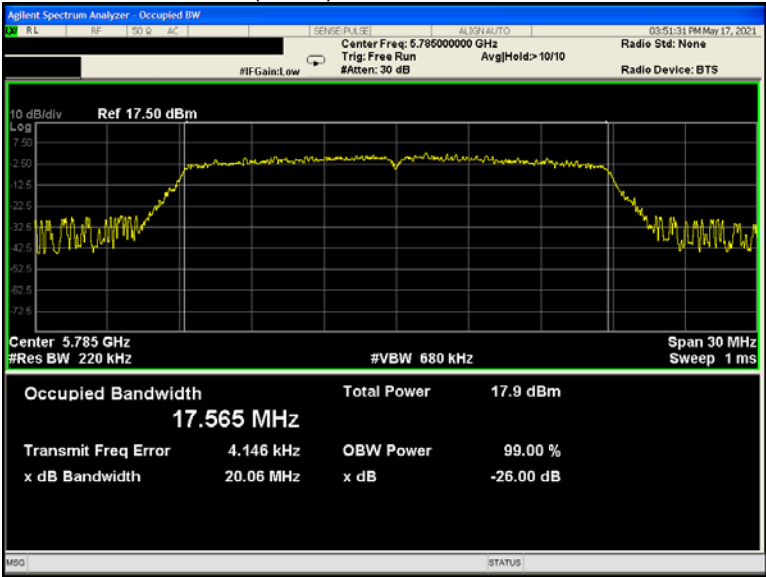
802.11a U-NII-3 High channel



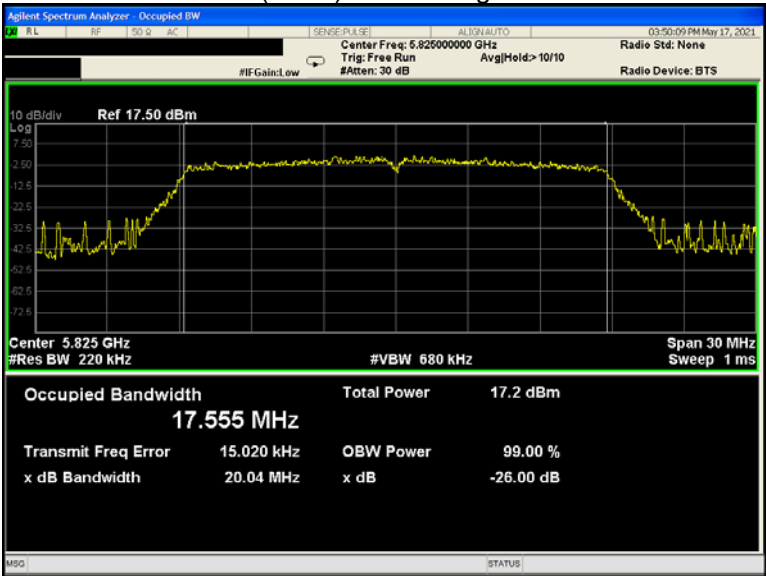
802.11n(HT20) U-NII-3 Low channel



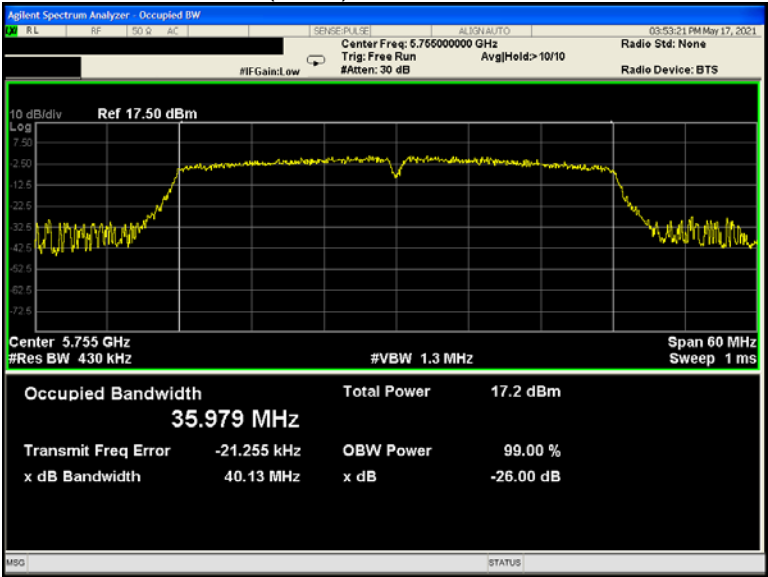
802.11n(HT20) U-NII-3 Middle channel



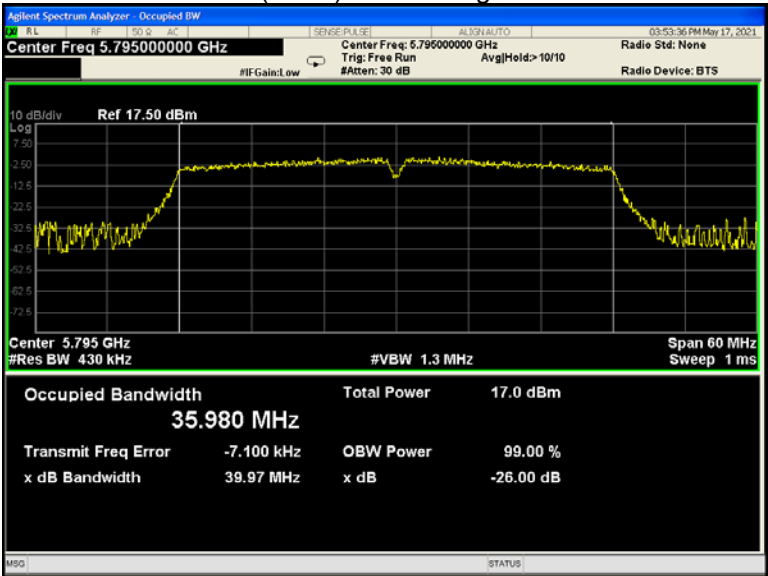
802.11n(HT20) U-NII-3 High channel



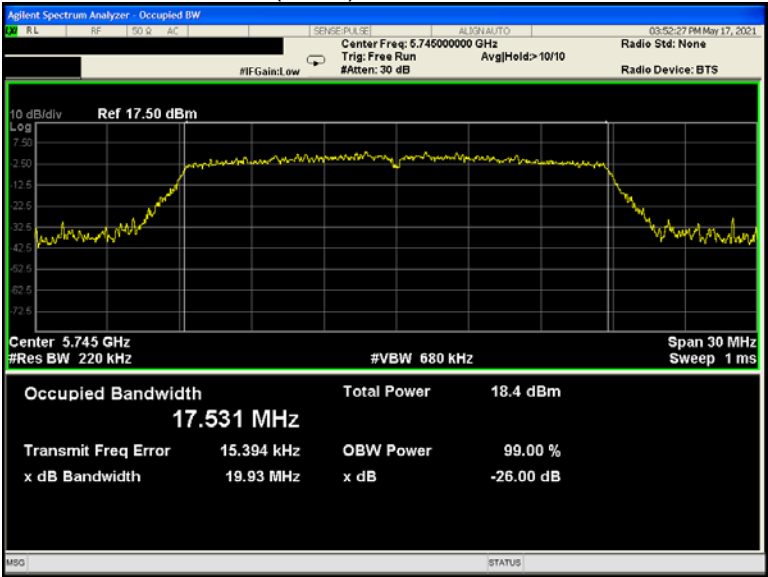
802.11n(HT40) U-NII-3 Low channel



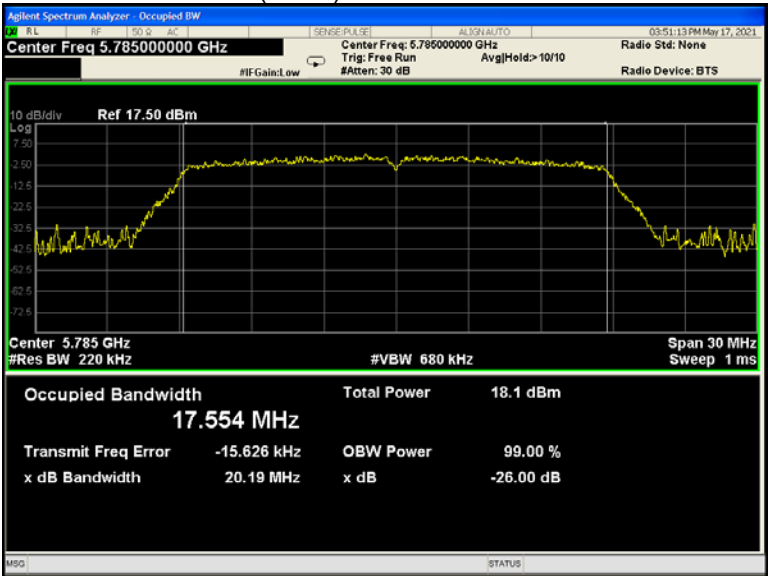
802.11n(HT40) U-NII-3 High channel



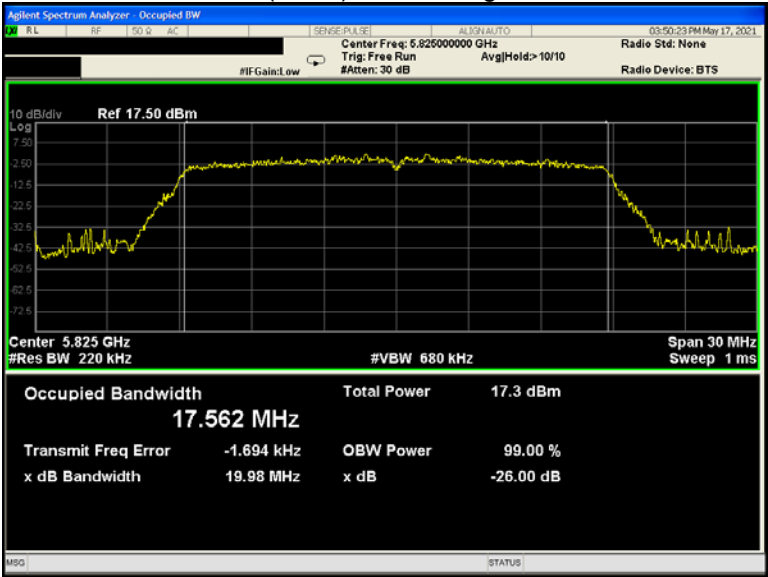
802.11ac(HT20) U-NII-3 Low channel



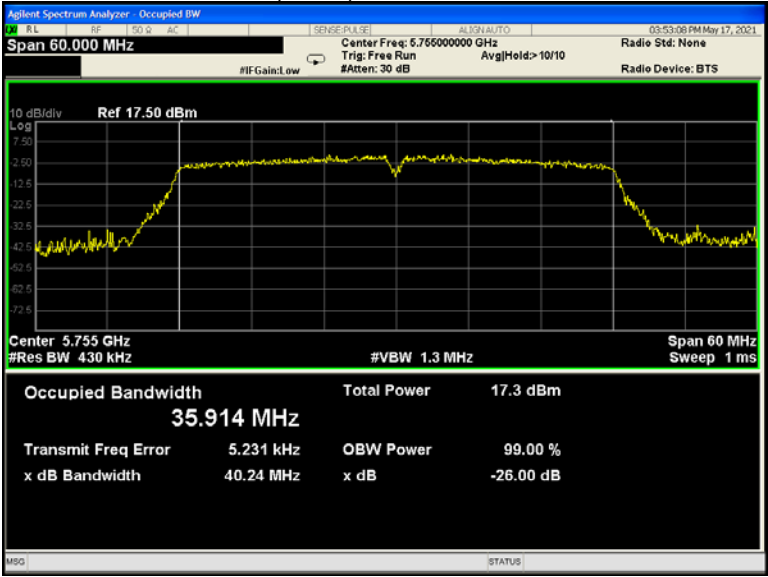
802.11ac(HT20) U-NII-3 Middle channel



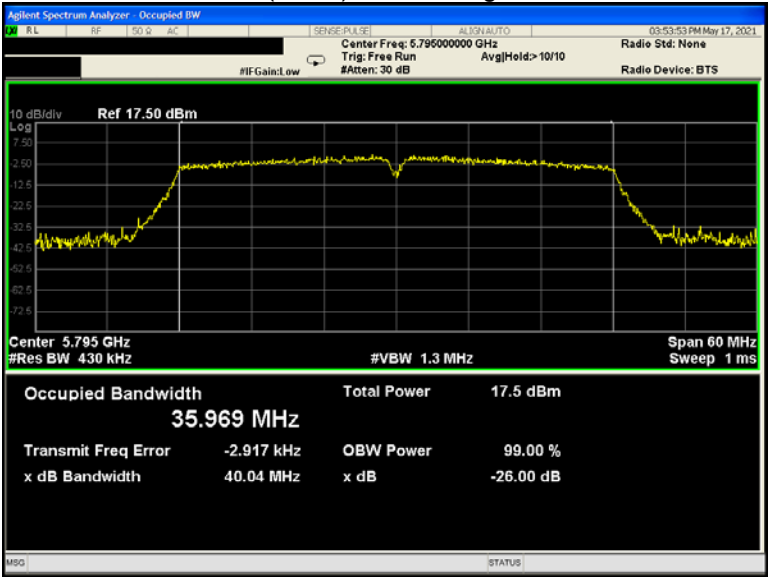
802.11ac(HT20) U-NII-3 High channel



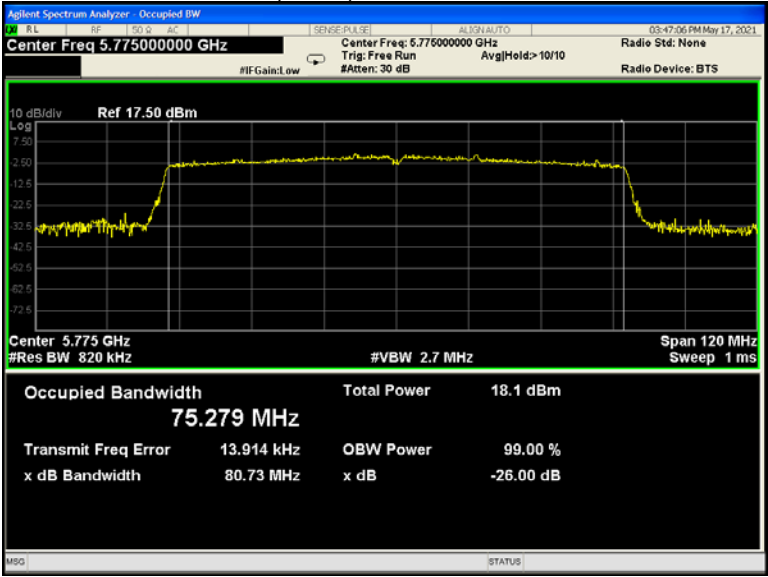
802.11ac(HT40) U-NII-3 Low channel



802.11ac(HT40) U-NII-3 High channel



802.11ac(HT80) U-NII-3 Low channel



## 13 Conducted Output Power

|                   |                                                                                             |
|-------------------|---------------------------------------------------------------------------------------------|
| Test Requirement: | FCC CFR47 Part 15 Section 15.407(a)<br>KDB662911 D01 Multiple Transmitter Output v02r01     |
| Test Method:      | KDB789033 D02 General U-NII Test Procedures New Rules v02r01<br>Section E                   |
| Test Limit:       | U-NII-1 250mW(24dBm)<br>U-NII-2A 250mW(24dBm)<br>U-NII-2C 250mW(24dBm)<br>U-NII-3 1W(30dBm) |
| Test Result:      | PASS<br>Conducted output power= measurement power+10log(1/x)                                |
| Remark:           | X is duty cycle=1, so 10log(1/1)=0<br>Conducted output power= measurement power             |

### 13.1 Test Procedure:

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 1 MHz. VBW = 3 MHz. Sweep = auto; Detector Function = Peak, Set the span to fully encompass the DTS bandwidth.
3. Keep the EUT in transmitting at lowest, medium and highest channel individually. Record the max value.

## 13.2 Test Result :

| Band    | Operation mode | Conducted Output Power (dBm) |              |       |
|---------|----------------|------------------------------|--------------|-------|
|         |                | Low                          | Middle       | High  |
| U-NII-1 | 802.11a        | 14.22                        | <b>14.38</b> | 14.29 |
|         | 802.11n(HT20)  | 13.82                        | 14.02        | 14.23 |
|         | 802.11n(HT40)  | 13.44                        | /            | 13.81 |
|         | 802.11ac(HT20) | 13.95                        | 13.92        | 14.32 |
|         | 802.11ac(HT40) | 13.47                        | /            | 13.93 |
|         | 802.11ac(HT80) | 13.76                        | /            | /     |

| Band     | Operation mode | Conducted Output Power (dBm) |        |              |
|----------|----------------|------------------------------|--------|--------------|
|          |                | Low                          | Middle | High         |
| U-NII-2A | 802.11a        | 14.28                        | 14.20  | <b>14.55</b> |
|          | 802.11n(HT20)  | 13.88                        | 13.90  | 14.04        |
|          | 802.11n(HT40)  | 14.06                        | /      | 14.31        |
|          | 802.11ac(HT20) | 14.01                        | 14.06  | 14.10        |
|          | 802.11ac(HT40) | 14.11                        | /      | 14.33        |
|          | 802.11ac(HT80) | 14.32                        | /      | /            |

| Band     | Operation mode | Conducted Output Power (dBm) |        |       |
|----------|----------------|------------------------------|--------|-------|
|          |                | Low                          | Middle | High  |
| U-NII-2C | 802.11a        | 14.37                        | 14.24  | 14.25 |
|          | 802.11n(HT20)  | 14.23                        | 14.05  | 14.11 |
|          | 802.11n(HT40)  | 14.59                        | 14.68  | 14.35 |
|          | 802.11ac(HT20) | 14.39                        | 14.13  | 14.24 |
|          | 802.11ac(HT40) | 14.44                        | 14.21  | 14.97 |
|          | 802.11ac(HT80) | <b>14.97</b>                 | 14.20  | /     |

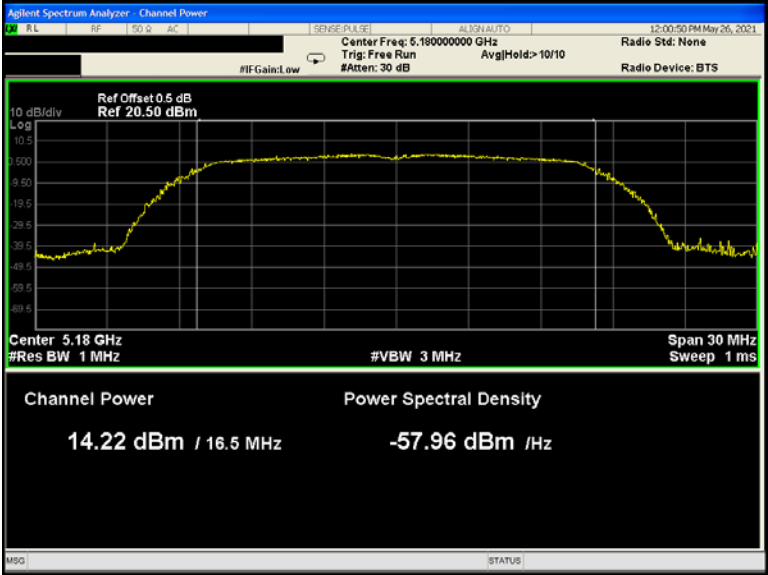


| Band    | Operation mode | Conducted Output Power (dBm) |        |       |
|---------|----------------|------------------------------|--------|-------|
|         |                | Low                          | Middle | High  |
| U-NII-3 | 802.11a        | 14.24                        | 14.46  | 14.34 |
|         | 802.11n(HT20)  | 14.36                        | 14.26  | 14.25 |
|         | 802.11n(HT40)  | 14.33                        | /      | 14.40 |
|         | 802.11ac(HT20) | 14.52                        | 14.42  | 14.22 |
|         | 802.11ac(HT40) | 14.47                        | /      | 14.43 |
|         | 802.11ac(HT80) | <b>14.53</b>                 | /      | /     |

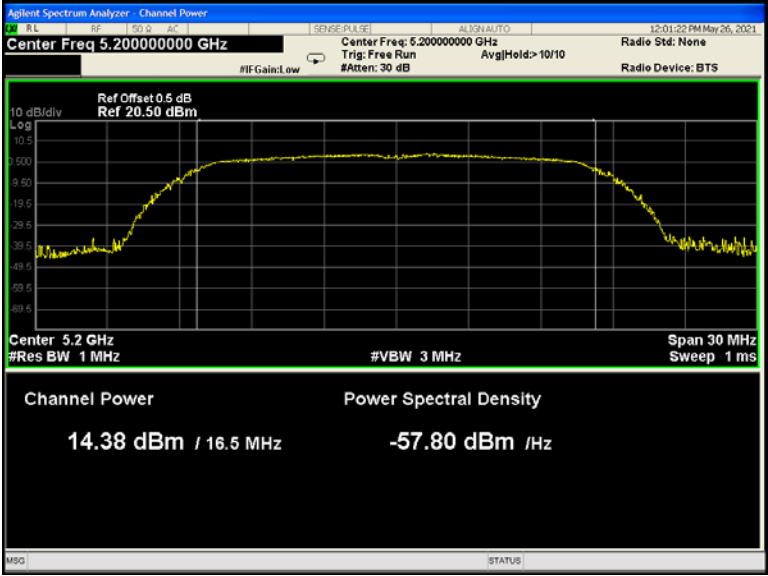
\* All transmit signals are completely uncorrelated with each other, Directional gain =  $G_{ANT}$  which is less than 6dBi. So the limit does not be reduced.

Test result plots shown as follows:

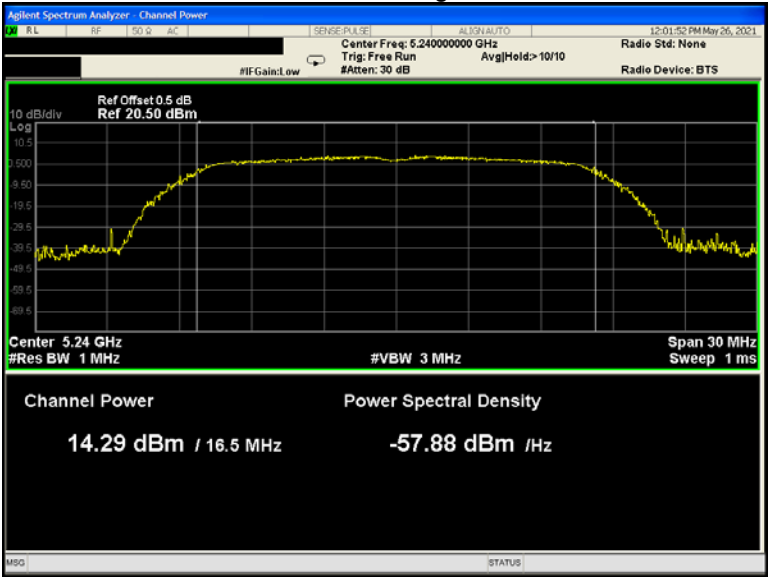
802.11a U-NII-1 Low channel



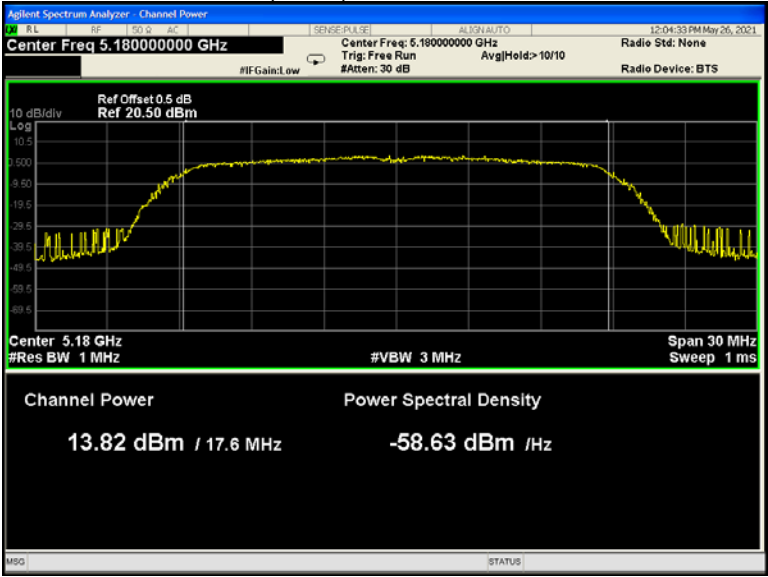
802.11a U-NII-1 Middle channel



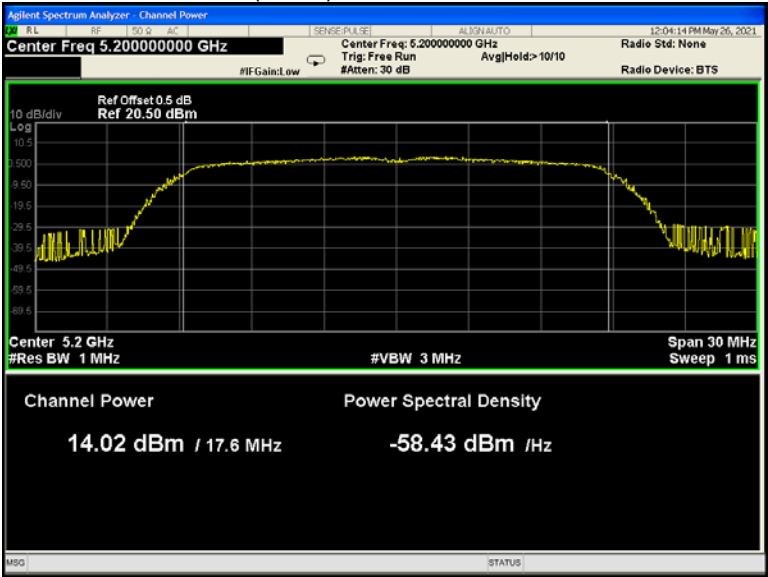
802.11a U-NII-1 High channel



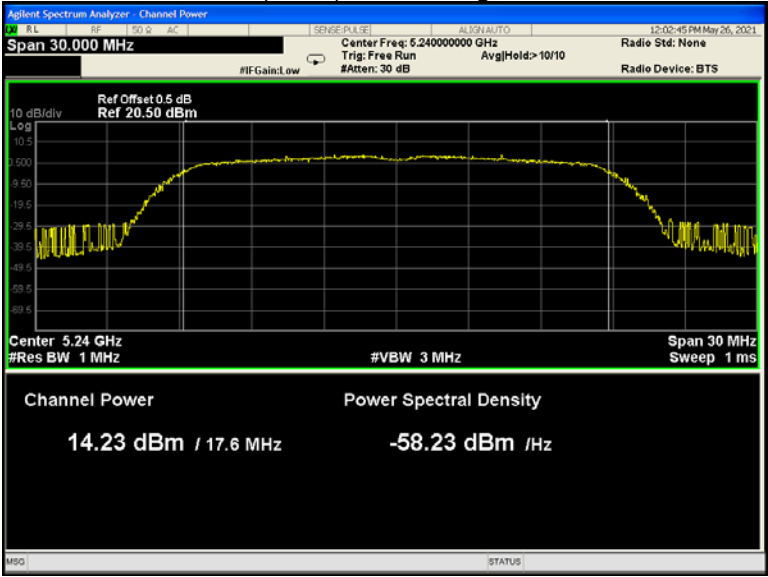
802.11n(HT20) U-NII-1 Low channel



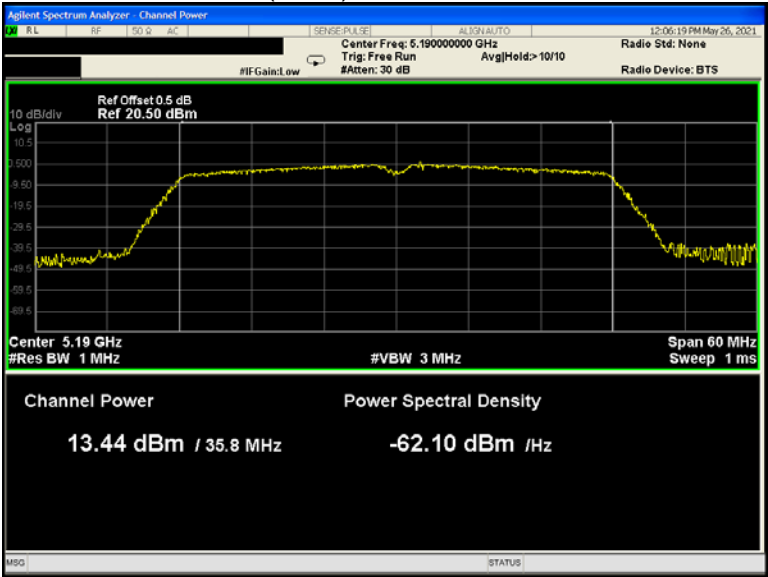
802.11n(HT20) U-NII-1 Middle channel



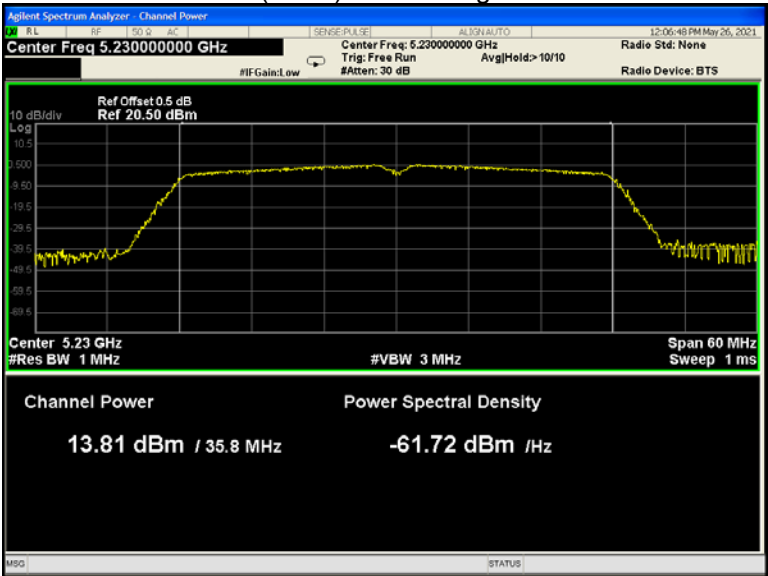
802.11n(HT20) U-NII-1 High channel



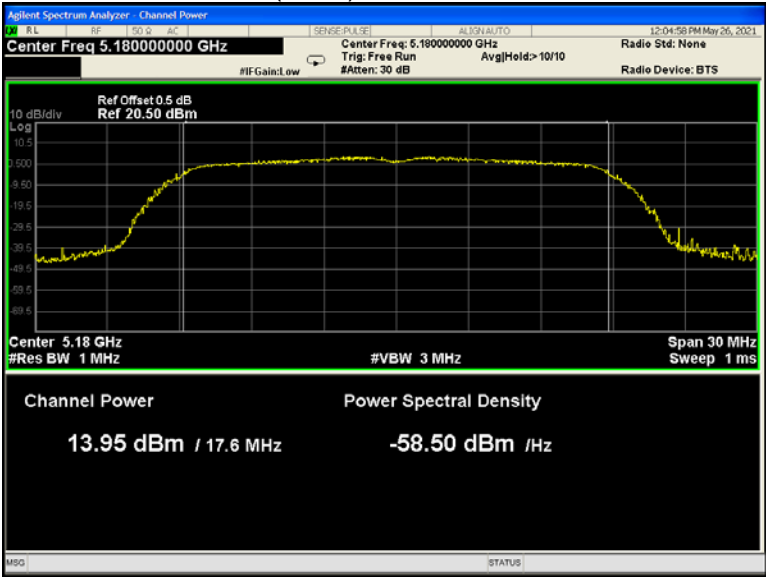
802.11n(HT40) U-NII-1 Low channel



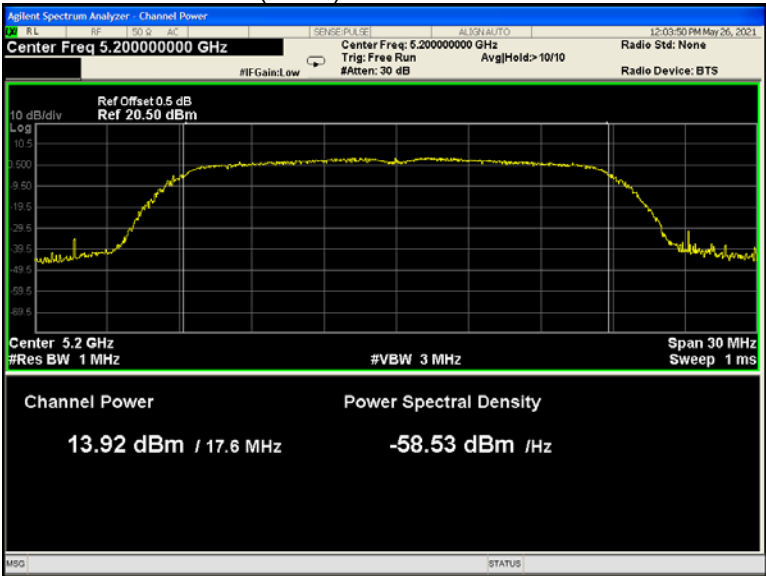
802.11n(HT40) U-NII-1 High channel



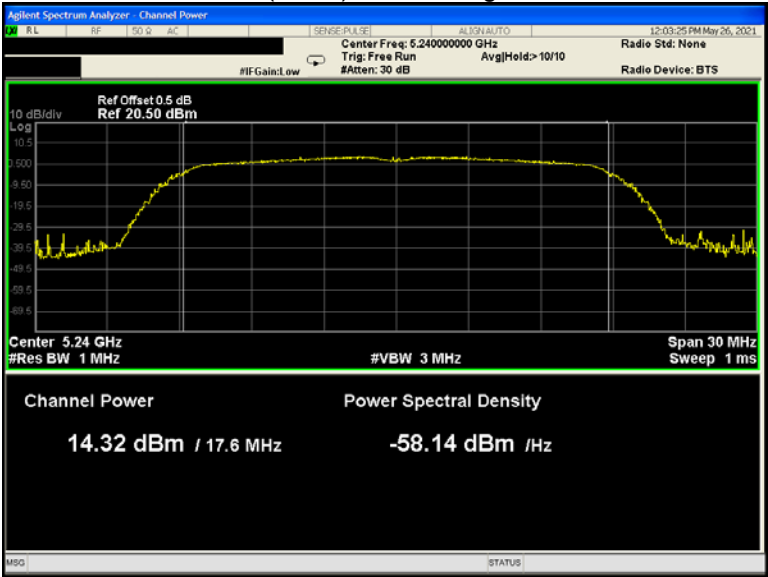
802.11ac(HT20) U-NII-1 Low channel



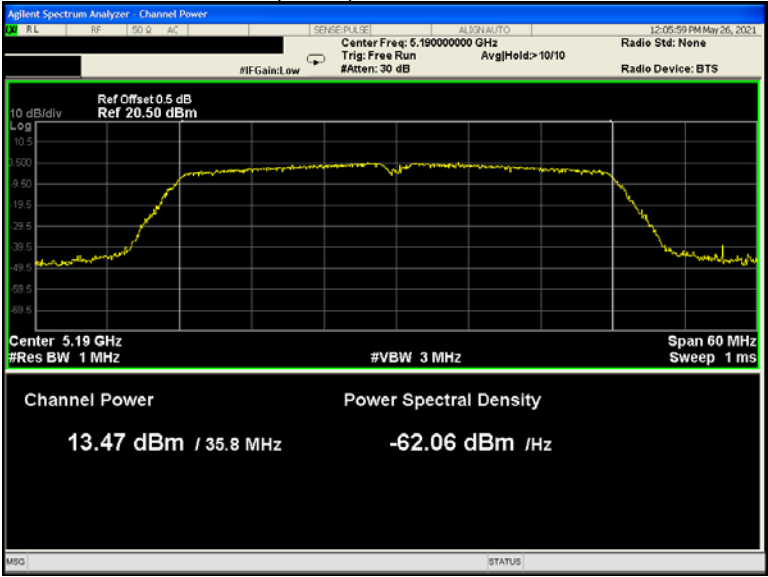
802.11ac(HT20) U-NII-1 Middle channel



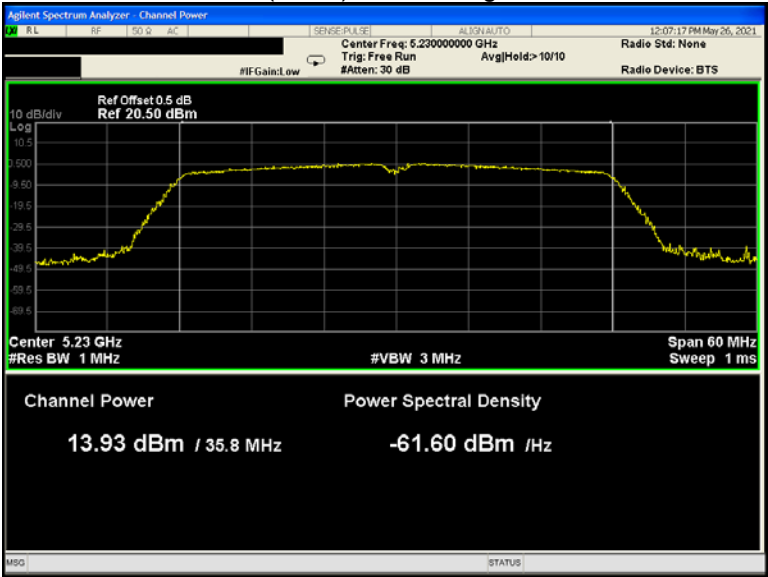
802.11ac(HT20) U-NII-1 High channel



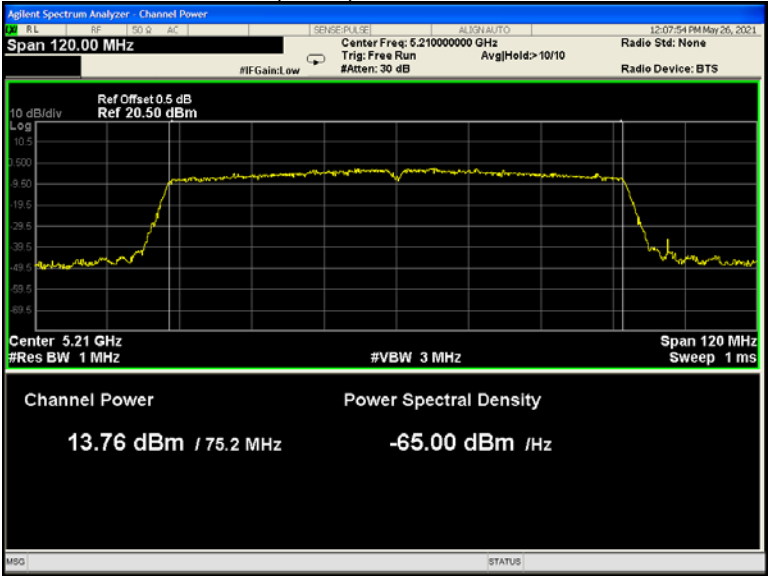
802.11ac(HT40) U-NII-1 Low channel



802.11ac(HT40) U-NII-1 High channel

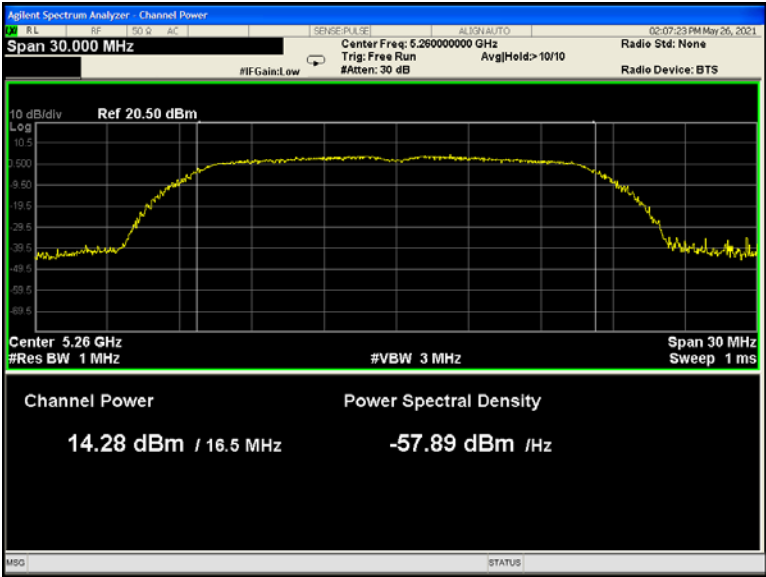


802.11ac(HT80) U-NII-1 Low channel

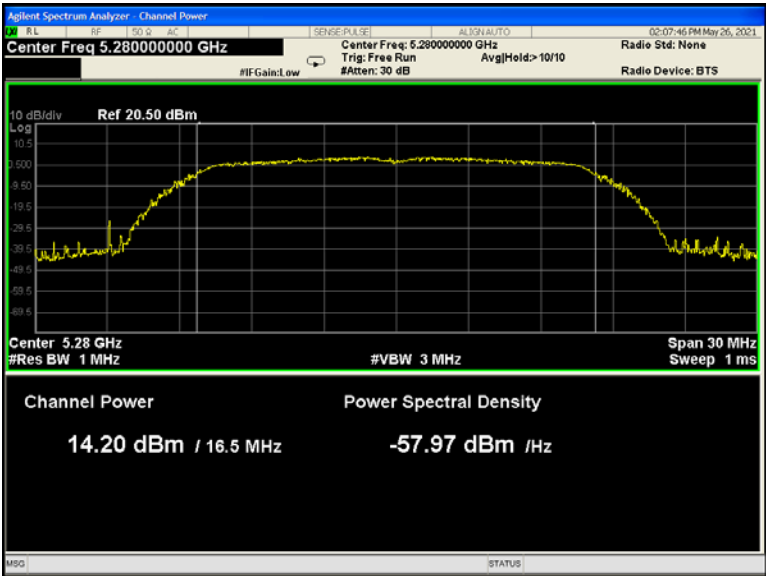




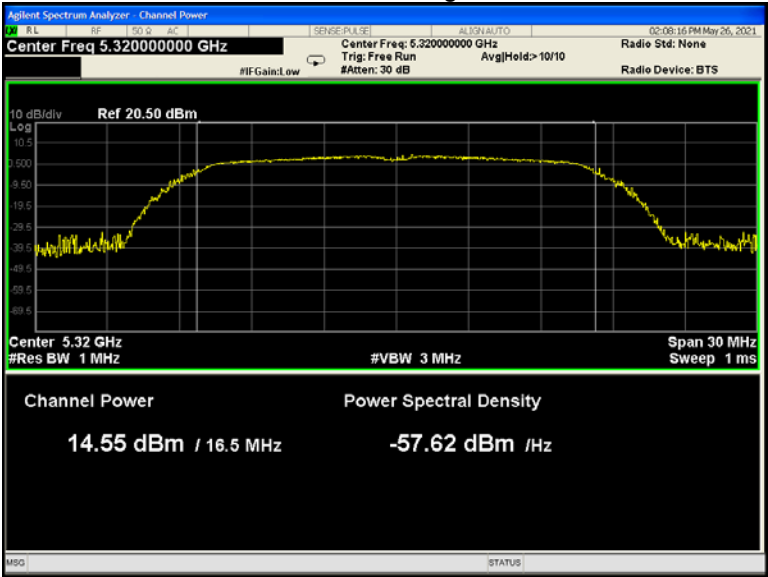
802.11a U-NII-2A Low channel



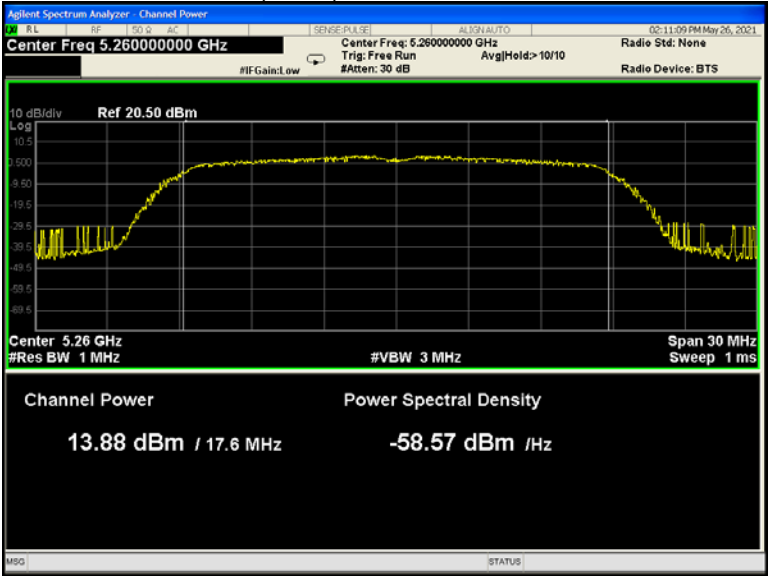
802.11a U-NII-2A Middle channel



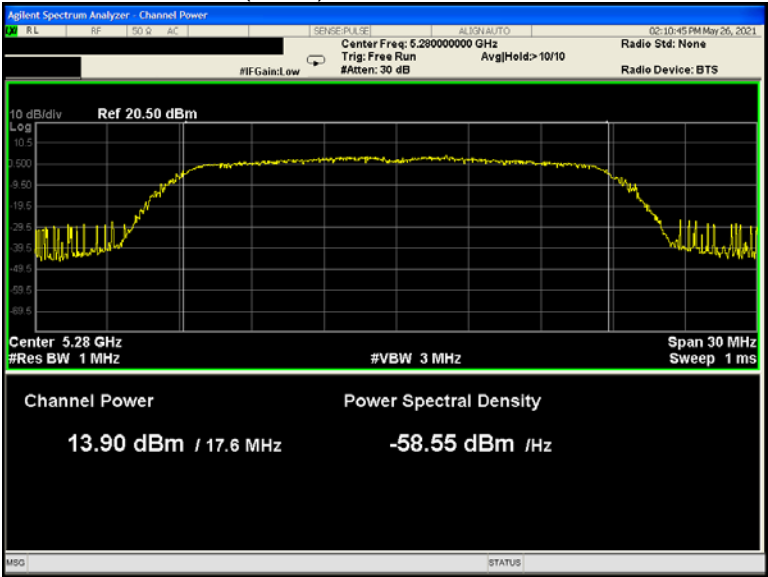
802.11a U-NII-2A High channel



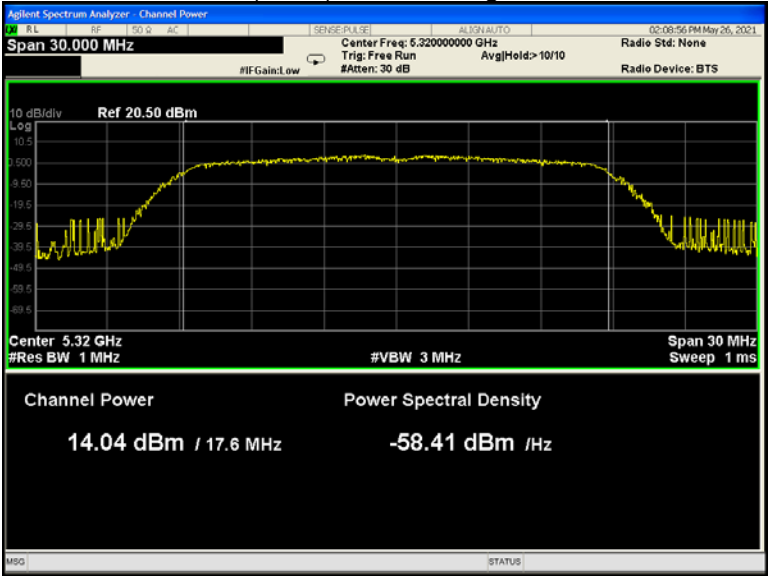
802.11n(HT20) U-NII-2A Low channel



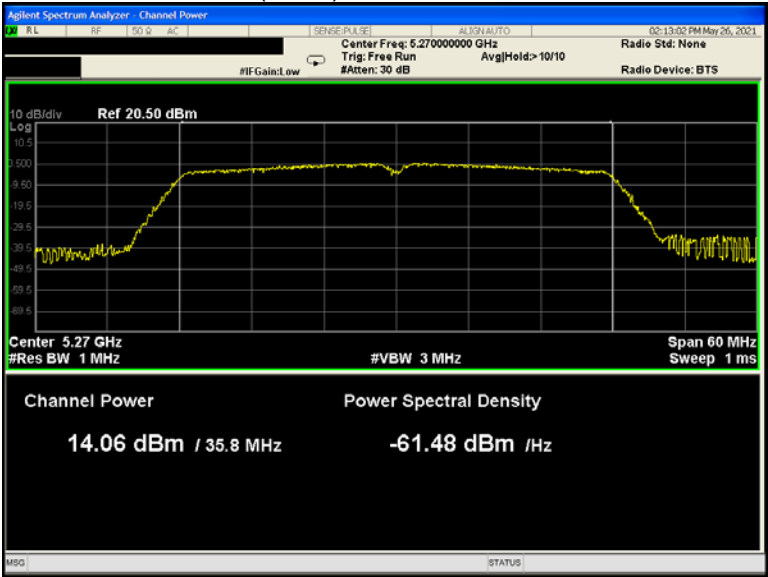
802.11n(HT20) U-NII-2A Middle channel



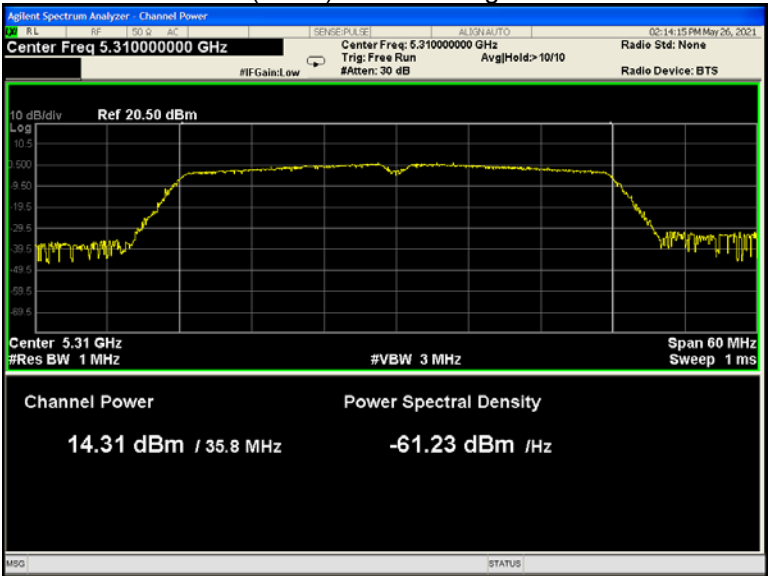
802.11n(HT20) U-NII-2A High channel



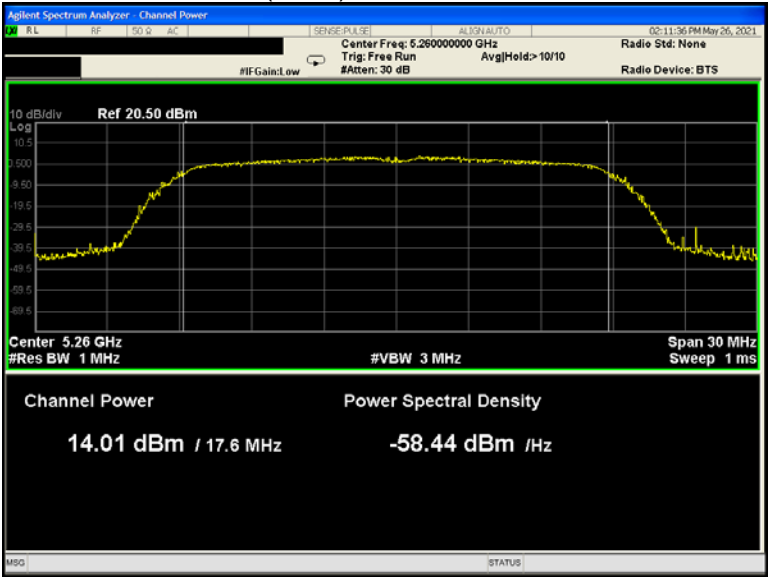
802.11n(HT40) U-NII-2A Low channel



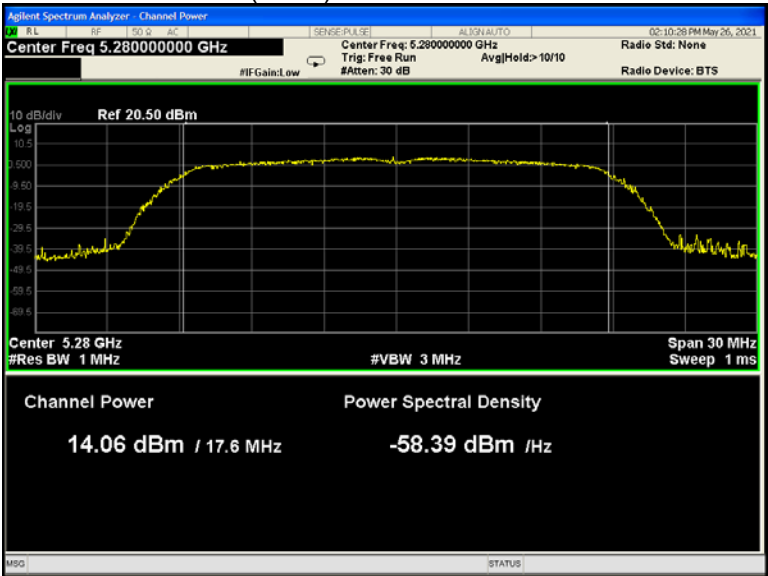
802.11n(HT40) U-NII-2A High channel



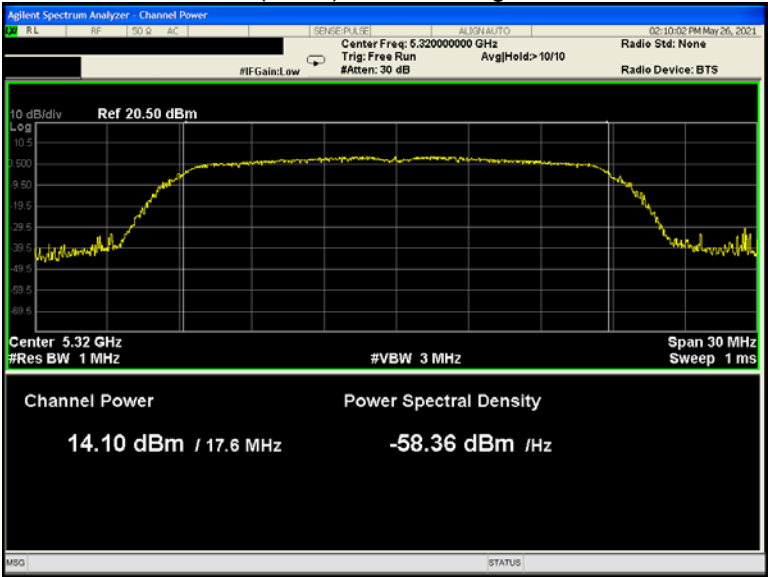
802.11ac(HT20) U-NII-2A Low channel



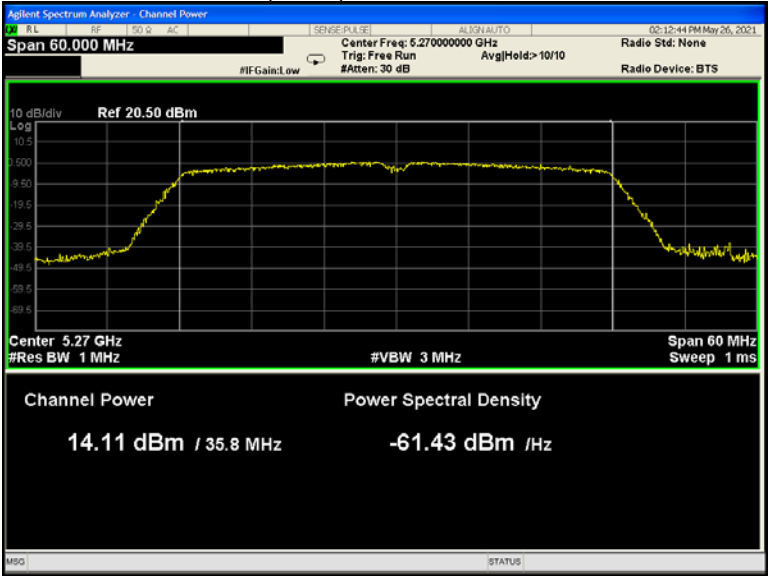
802.11ac(HT20) U-NII-2A Middle channel



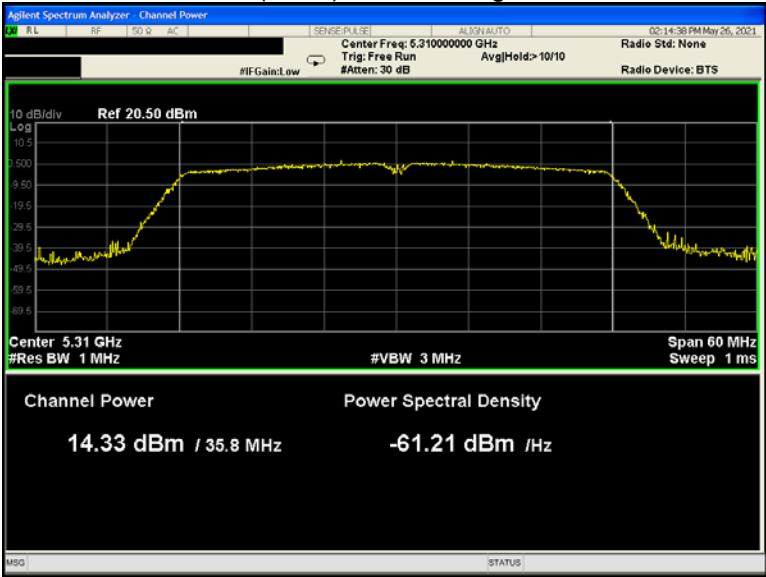
802.11ac(HT20) U-NII-2A High channel



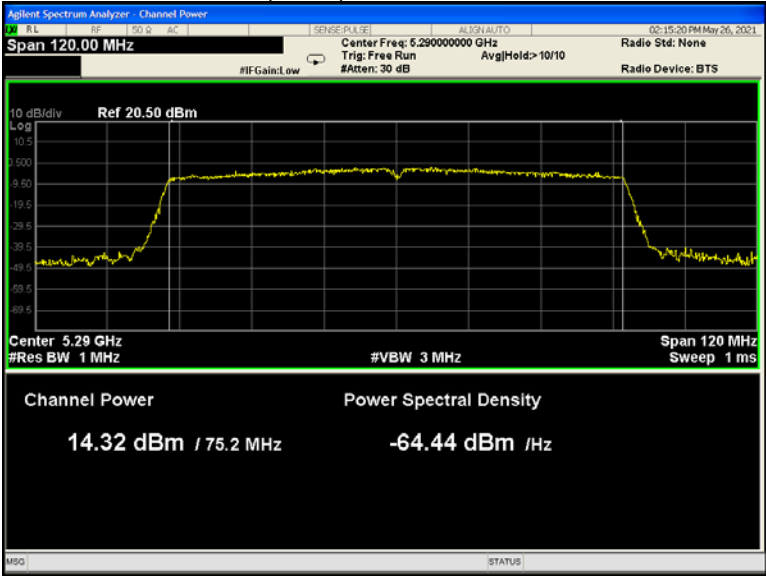
802.11ac(HT40) U-NII-2A Low channel



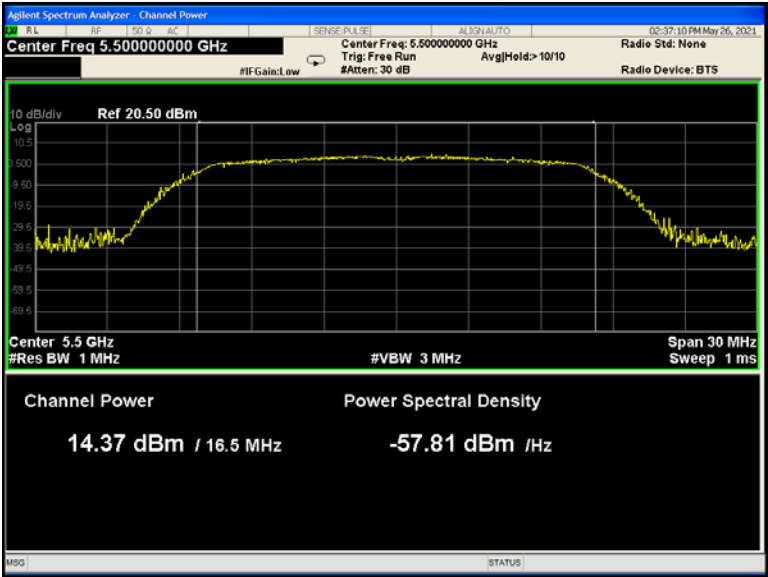
802.11ac(HT40) U-NII-2A High channel



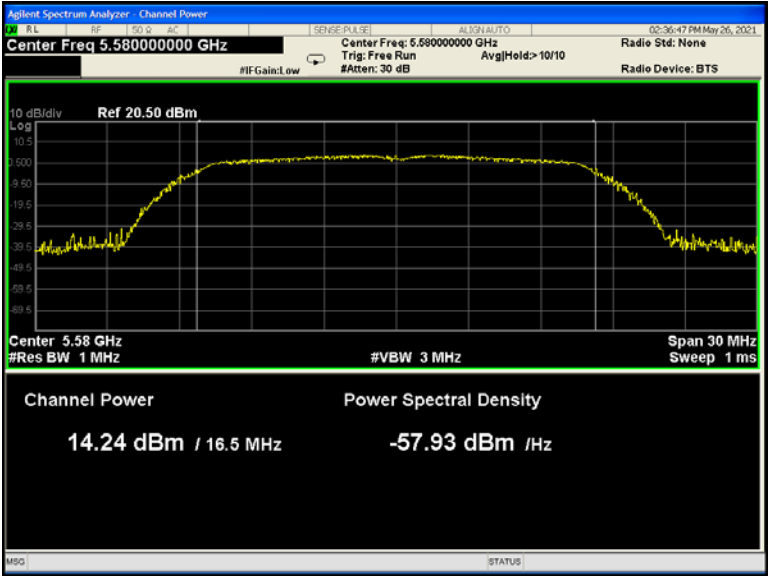
802.11ac(HT80) U-NII-2A Low channel



802.11a U-NII-2C Low channel

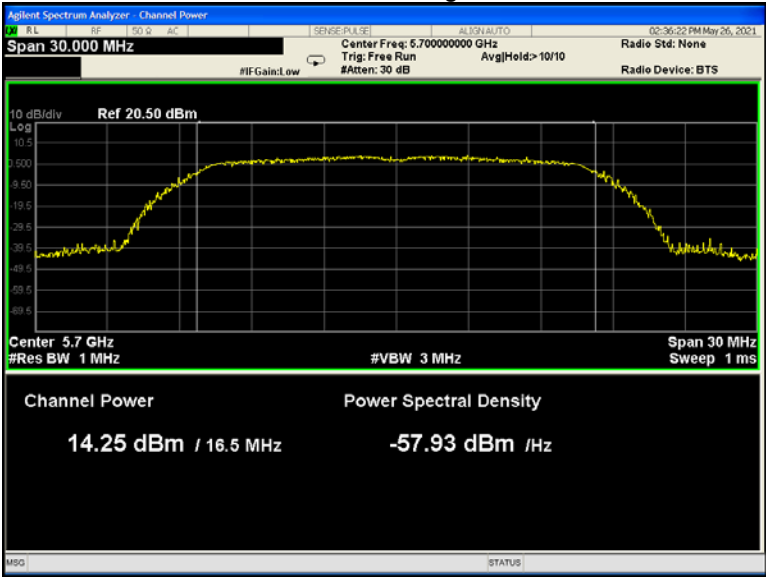


802.11a U-NII-2C Middle channel

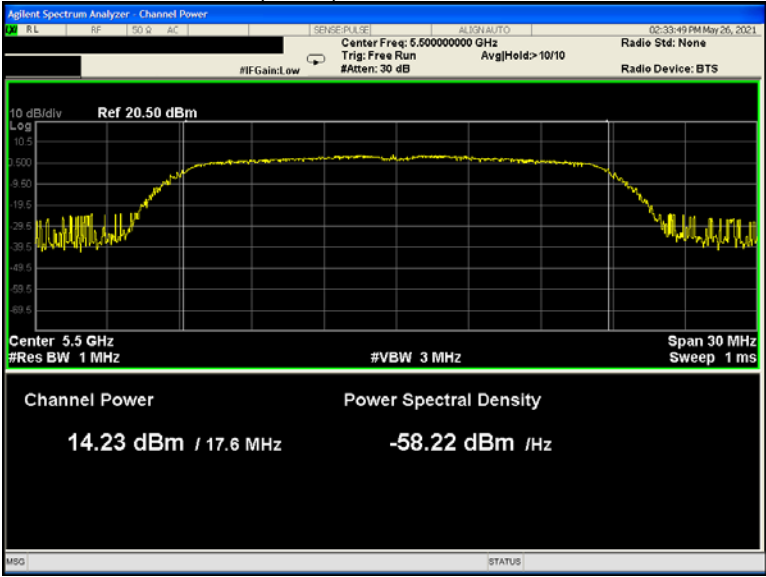




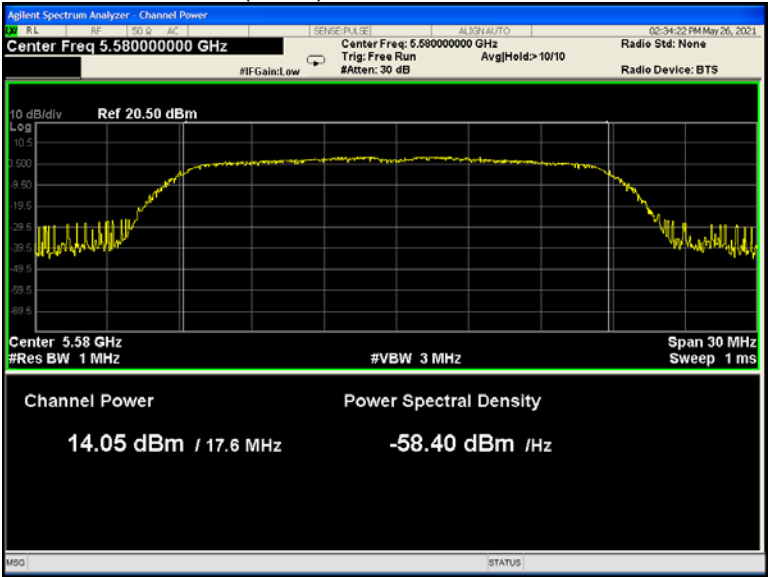
802.11a U-NII-2C High channel



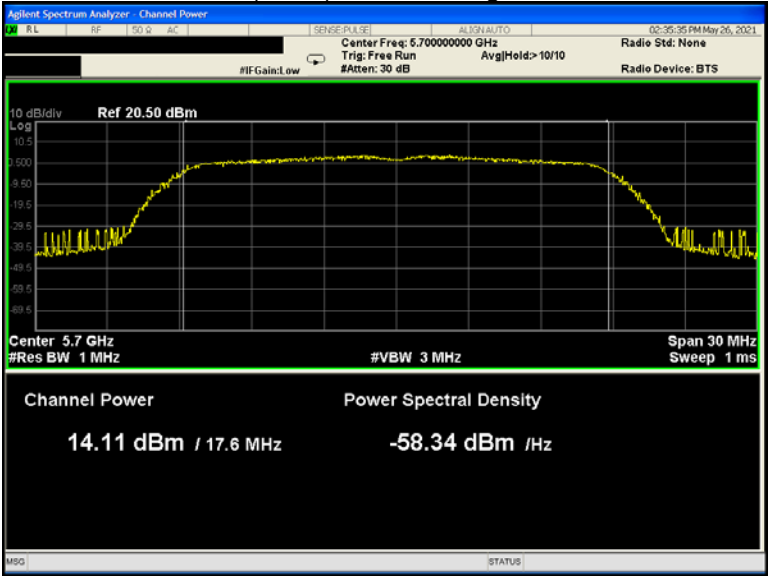
802.11n(HT20) U-NII-2C Low channel



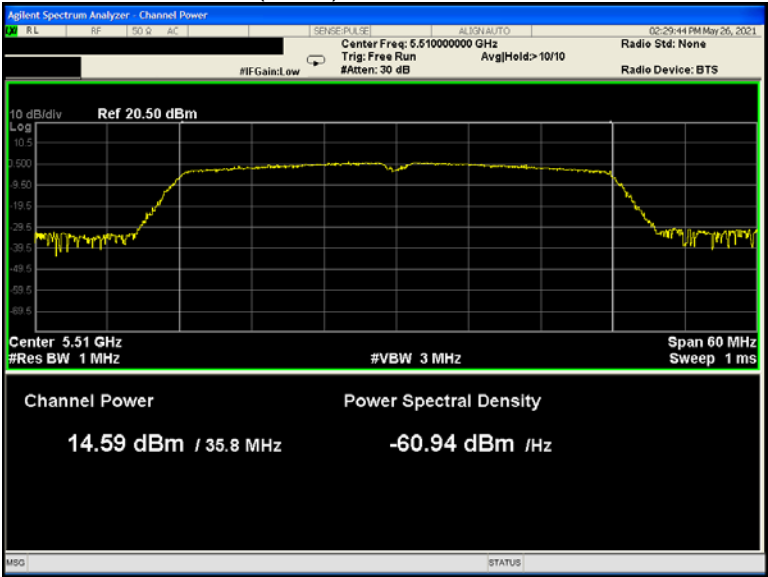
802.11n(HT20) U-NII-2C Middle channel



802.11n(HT20) U-NII-2C High channel



802.11n(HT40) U-NII-2C Low channel



802.11n(HT40) U-NII-2C Middle channel

