

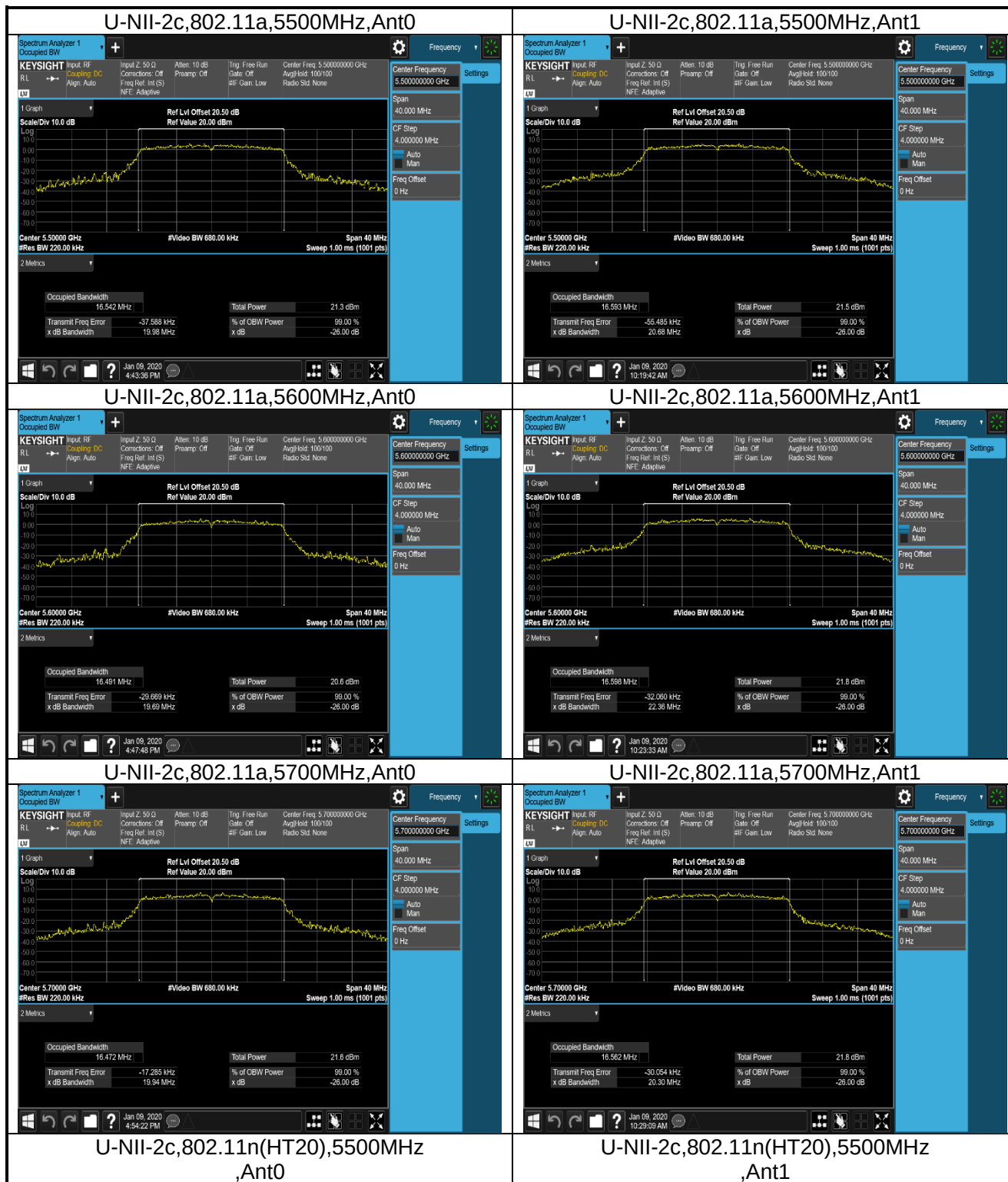
## Appendix A: Test results

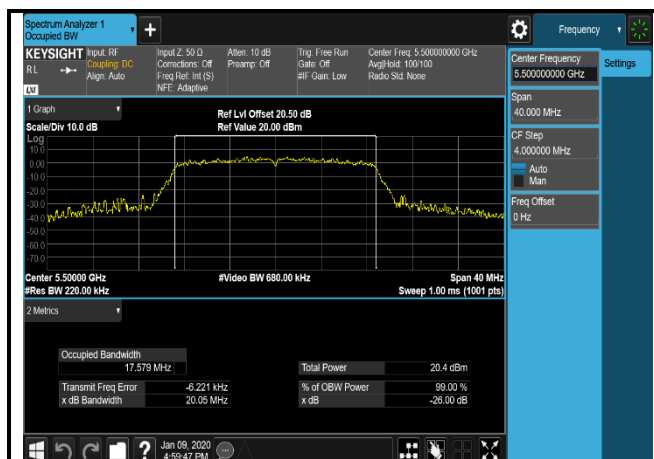
### 1. Occupied N dB Bandwidth

#### 1.1 Test Data

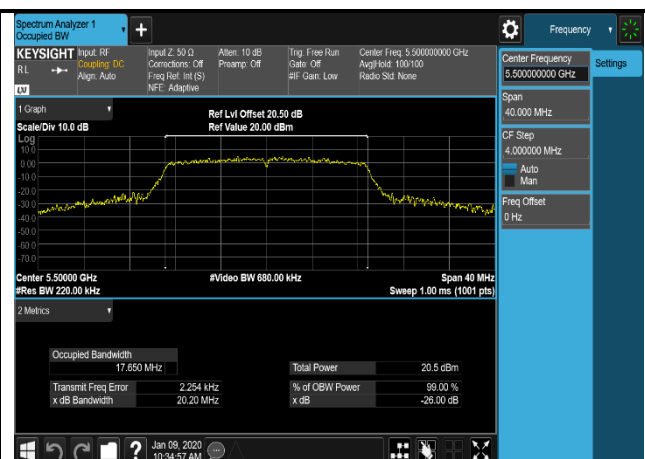
| U-NII-2c Occupied N dB Bandwidth |                      |      |                          |        |
|----------------------------------|----------------------|------|--------------------------|--------|
| Mode                             | Test Frequency (MHz) | Ant  | Occupied Bandwidth (MHz) | Result |
| 802.11a                          | 5500                 | Ant0 | 19.98                    | Pass   |
| 802.11a                          | 5500                 | Ant1 | 20.68                    | Pass   |
| 802.11a                          | 5600                 | Ant0 | 19.69                    | Pass   |
| 802.11a                          | 5600                 | Ant1 | 22.36                    | Pass   |
| 802.11a                          | 5700                 | Ant0 | 19.94                    | Pass   |
| 802.11a                          | 5700                 | Ant1 | 20.30                    | Pass   |
| 802.11n (HT20)                   | 5500                 | Ant0 | 20.05                    | Pass   |
| 802.11n (HT20)                   | 5500                 | Ant1 | 20.20                    | Pass   |
| 802.11n (HT20)                   | 5600                 | Ant0 | 20.17                    | Pass   |
| 802.11n (HT20)                   | 5600                 | Ant1 | 21.34                    | Pass   |
| 802.11n (HT20)                   | 5700                 | Ant0 | 19.98                    | Pass   |
| 802.11n (HT20)                   | 5700                 | Ant1 | 20.03                    | Pass   |
| 802.11n (HT40)                   | 5510                 | Ant0 | 40.34                    | Pass   |
| 802.11n (HT40)                   | 5510                 | Ant1 | 40.98                    | Pass   |
| 802.11n (HT40)                   | 5590                 | Ant0 | 40.30                    | Pass   |
| 802.11n (HT40)                   | 5590                 | Ant1 | 46.74                    | Pass   |
| 802.11n (HT40)                   | 5670                 | Ant0 | 40.21                    | Pass   |
| 802.11n (HT40)                   | 5670                 | Ant1 | 45.32                    | Pass   |
| 802.11ac (VHT80)                 | 5530                 | Ant0 | 80.39                    | Pass   |
| 802.11ac (VHT80)                 | 5530                 | Ant1 | 80.70                    | Pass   |
| 802.11ac (VHT80)                 | 5610                 | Ant0 | 80.88                    | Pass   |
| 802.11ac (VHT80)                 | 5610                 | Ant1 | 80.36                    | Pass   |

## 1.2 Test Plots

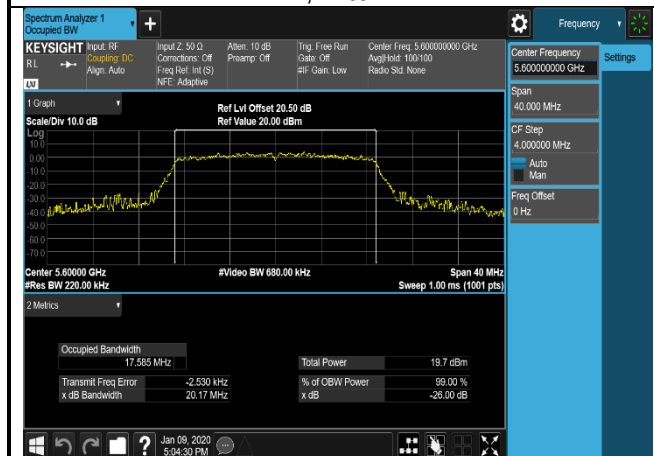




U-NII-2c,802.11n(HT20),5600MHz  
,Ant0



U-NII-2c,802.11n(HT20),5600MHz  
,Ant1



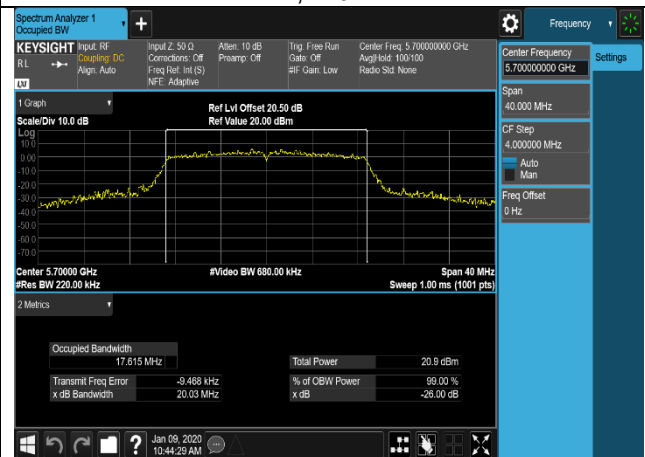
U-NII-2c,802.11n(HT20),5700MHz  
,Ant0



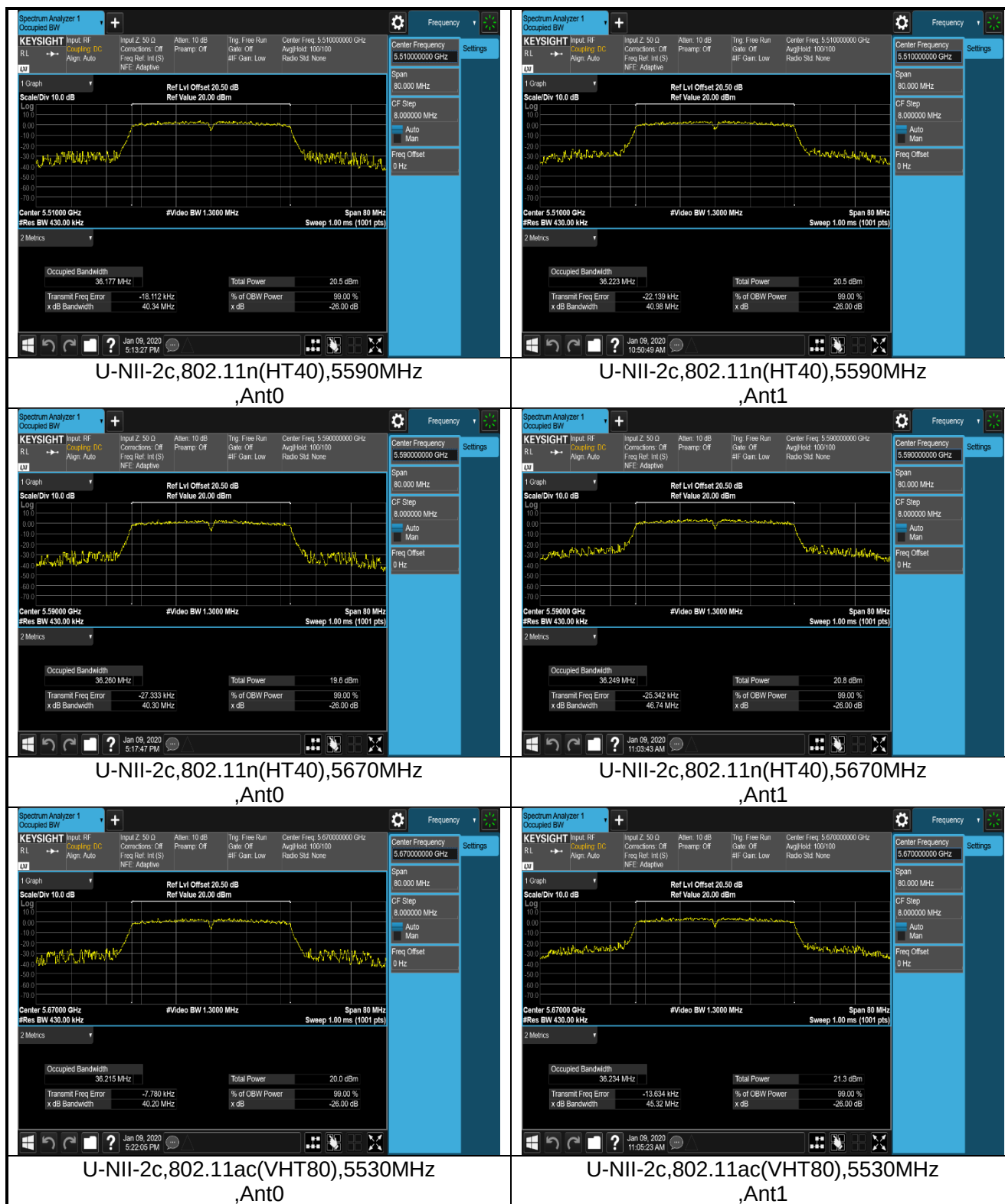
U-NII-2c,802.11n(HT20),5700MHz  
,Ant1

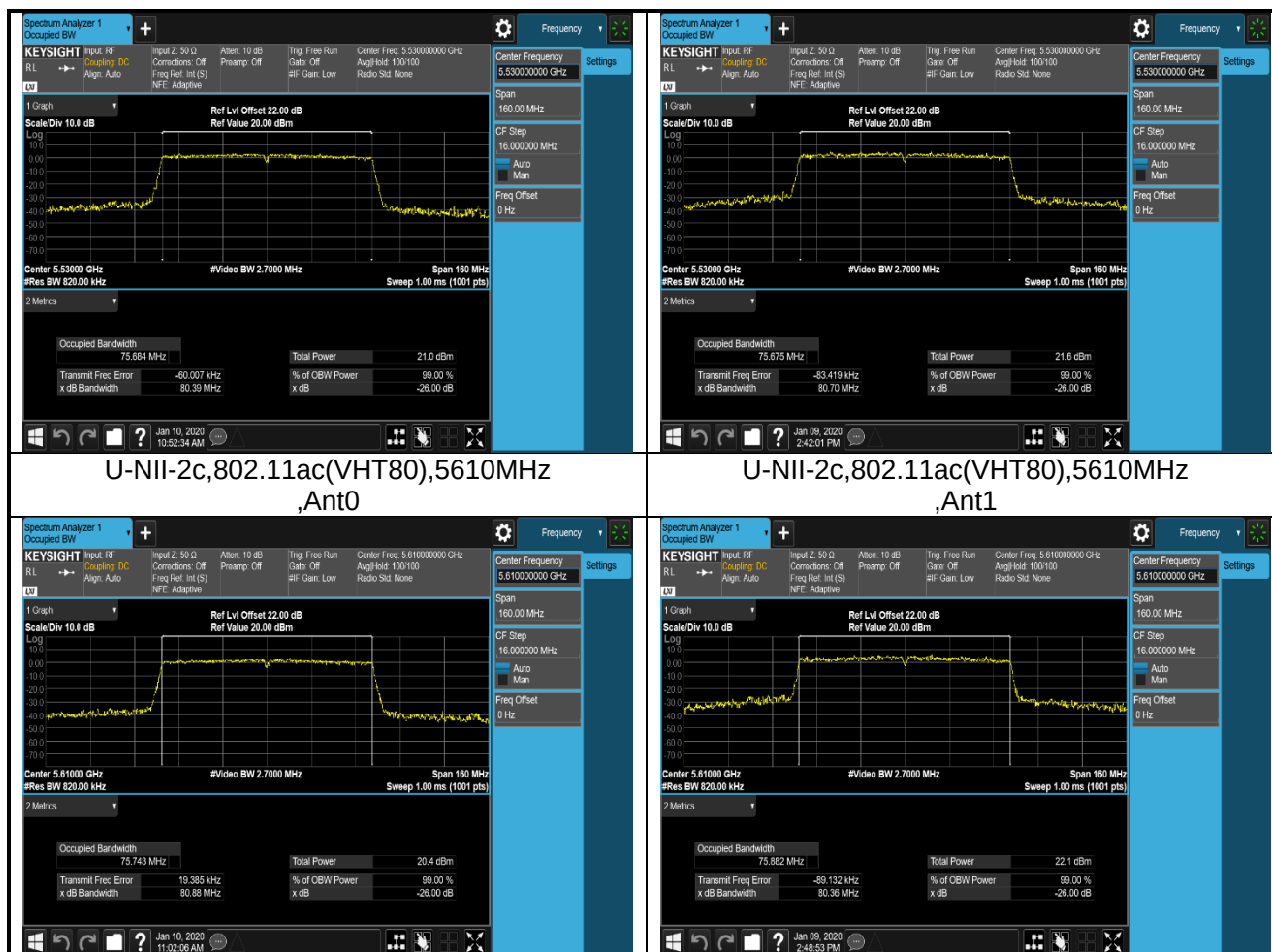


U-NII-2c,802.11n(HT40),5510MHz  
,Ant0



U-NII-2c,802.11n(HT40),5510MHz  
,Ant1





U-NII-2c,802.11ac(VHT80),5610MHz  
,Ant0

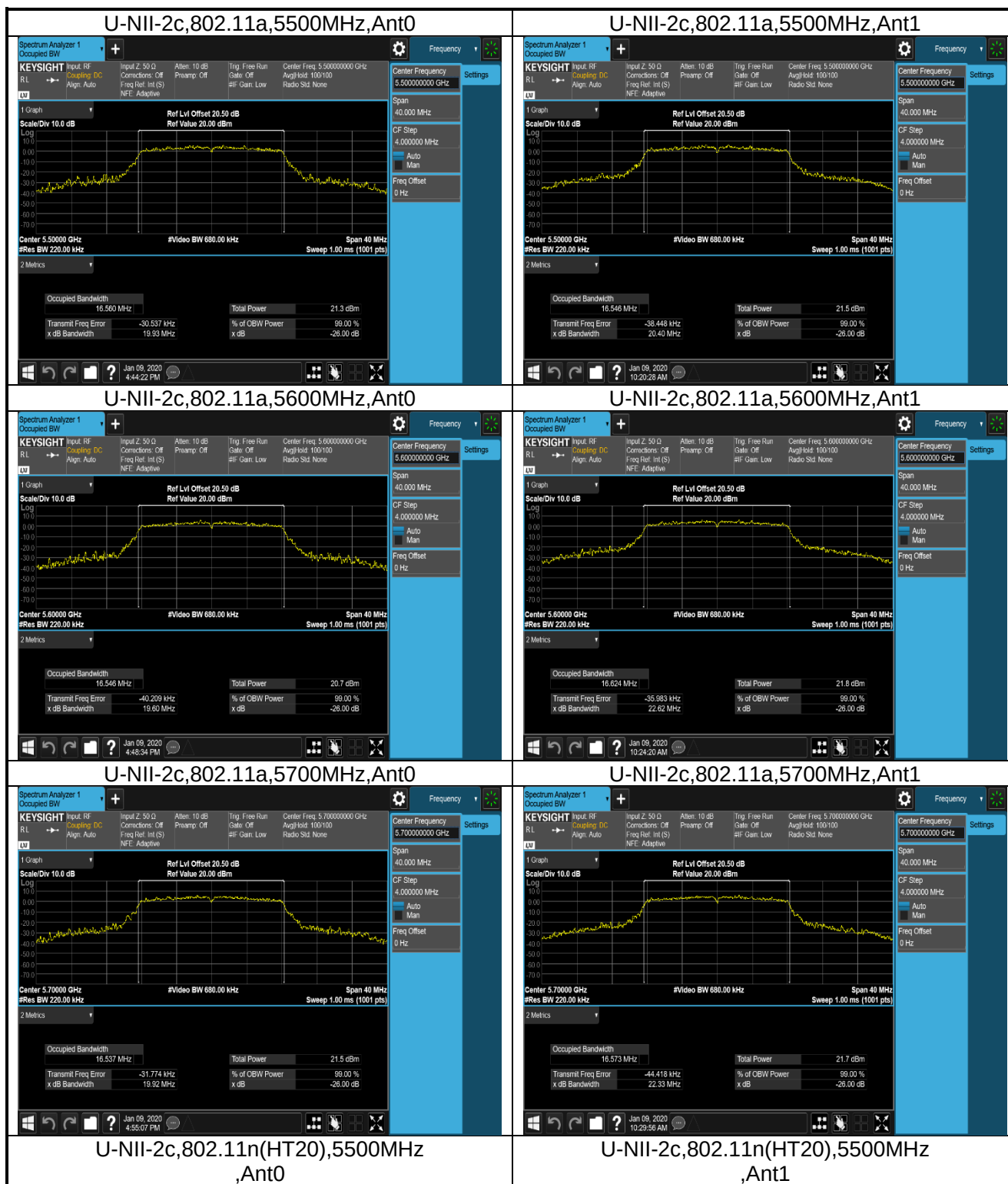
U-NII-2c,802.11ac(VHT80),5610MHz  
,Ant1

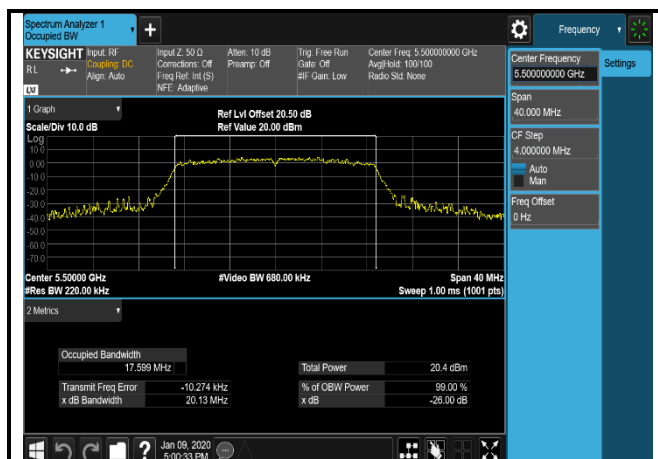
## 2. 99% Occupied Bandwidth

### 2.1 Test Data

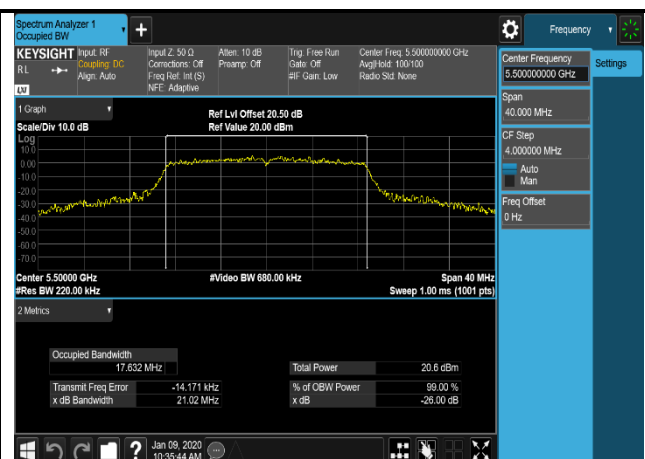
| U-NII-2c 99% Occupied Bandwidth |                      |      |                              |        |
|---------------------------------|----------------------|------|------------------------------|--------|
| Mode                            | Test Frequency (MHz) | Ant  | 99% Occupied Bandwidth (MHz) | Result |
| 802.11a                         | 5500                 | Ant0 | 16.560                       | Pass   |
| 802.11a                         | 5500                 | Ant1 | 16.546                       | Pass   |
| 802.11a                         | 5600                 | Ant0 | 16.546                       | Pass   |
| 802.11a                         | 5600                 | Ant1 | 16.624                       | Pass   |
| 802.11a                         | 5700                 | Ant0 | 16.537                       | Pass   |
| 802.11a                         | 5700                 | Ant1 | 16.573                       | Pass   |
| 802.11n (HT20)                  | 5500                 | Ant0 | 17.599                       | Pass   |
| 802.11n (HT20)                  | 5500                 | Ant1 | 17.632                       | Pass   |
| 802.11n (HT20)                  | 5600                 | Ant0 | 17.577                       | Pass   |
| 802.11n (HT20)                  | 5600                 | Ant1 | 17.654                       | Pass   |
| 802.11n (HT20)                  | 5700                 | Ant0 | 17.605                       | Pass   |
| 802.11n (HT20)                  | 5700                 | Ant1 | 17.599                       | Pass   |
| 802.11n (HT40)                  | 5510                 | Ant0 | 36.179                       | Pass   |
| 802.11n (HT40)                  | 5510                 | Ant1 | 36.189                       | Pass   |
| 802.11n (HT40)                  | 5590                 | Ant0 | 36.220                       | Pass   |
| 802.11n (HT40)                  | 5590                 | Ant1 | 36.167                       | Pass   |
| 802.11n (HT40)                  | 5670                 | Ant0 | 36.224                       | Pass   |
| 802.11n (HT40)                  | 5670                 | Ant1 | 36.259                       | Pass   |
| 802.11ac (VHT80)                | 5530                 | Ant0 | 75.741                       | Pass   |
| 802.11ac (VHT80)                | 5530                 | Ant1 | 75.693                       | Pass   |
| 802.11ac (VHT80)                | 5610                 | Ant0 | 75.781                       | Pass   |
| 802.11ac (VHT80)                | 5610                 | Ant1 | 75.789                       | Pass   |

## 2.2 Test Plots

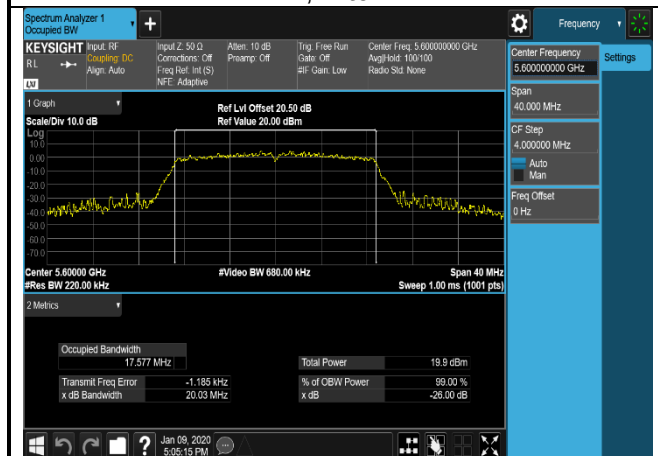




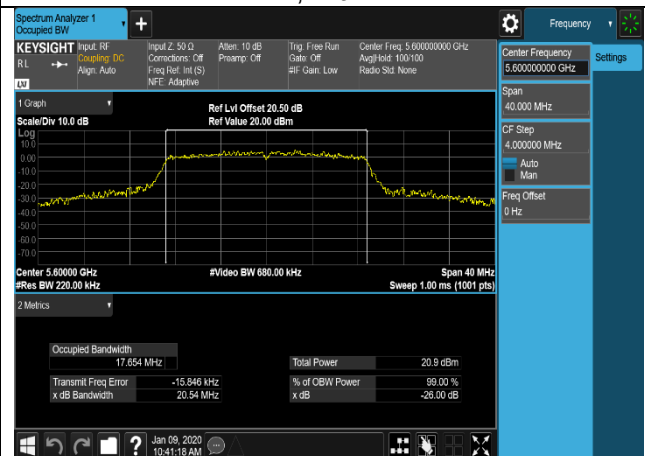
U-NII-2c,802.11n(HT20),5600MHz  
,Ant0



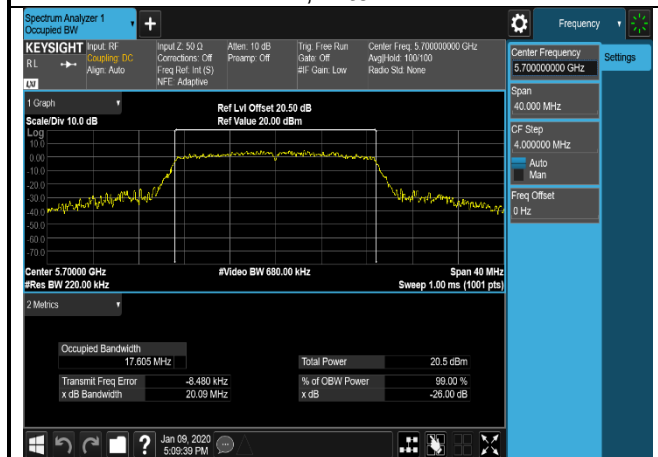
U-NII-2c,802.11n(HT20),5600MHz  
,Ant1



U-NII-2c,802.11n(HT20),5700MHz  
,Ant0



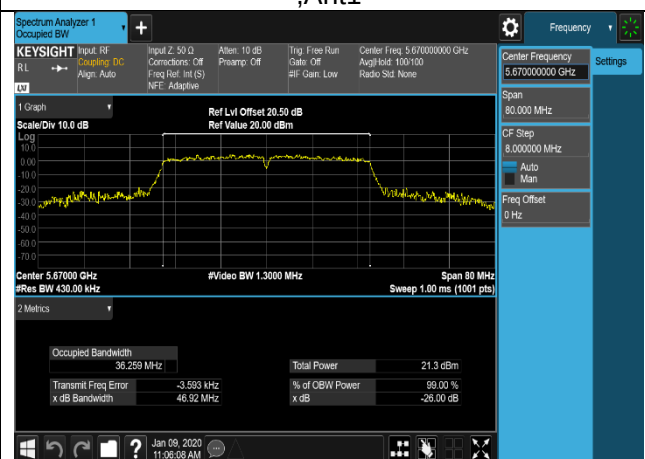
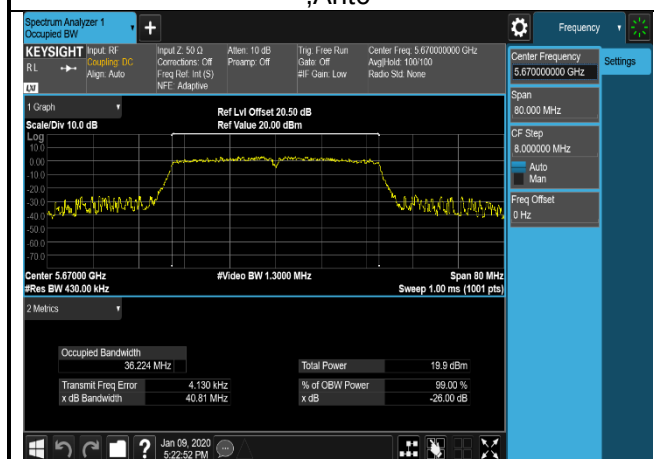
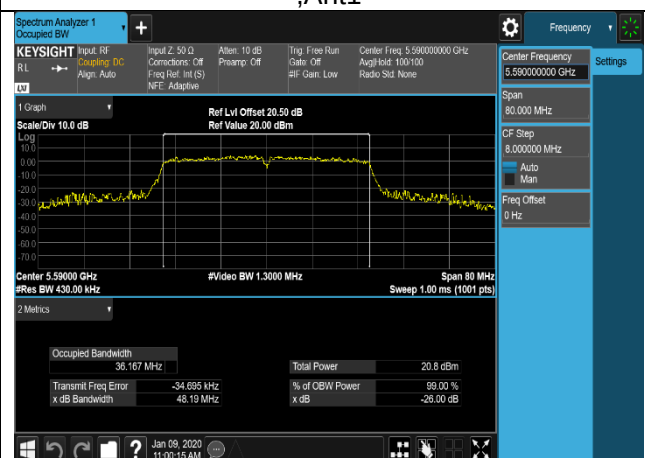
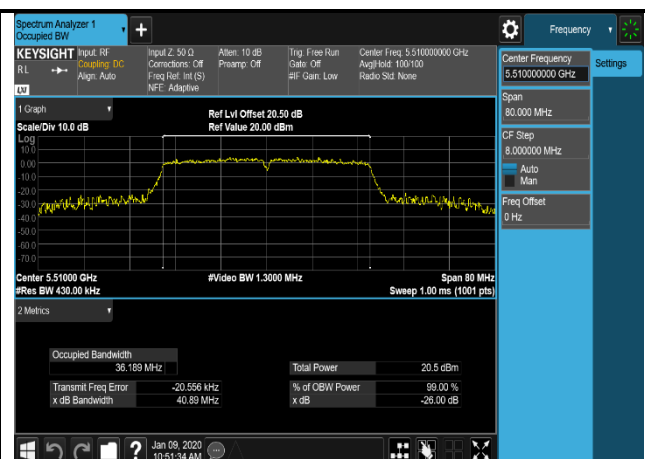
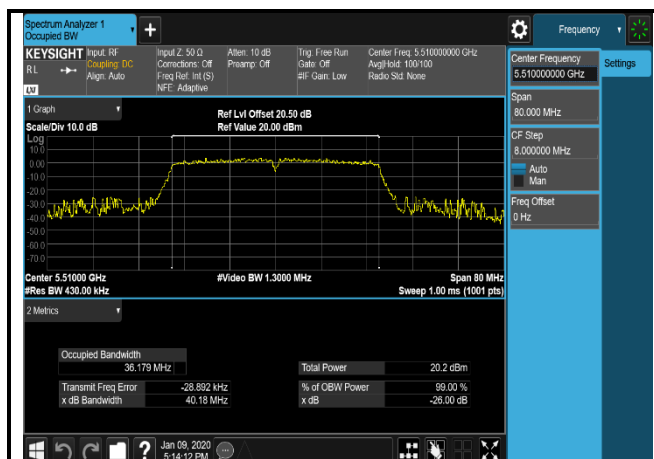
U-NII-2c,802.11n(HT20),5700MHz  
,Ant1

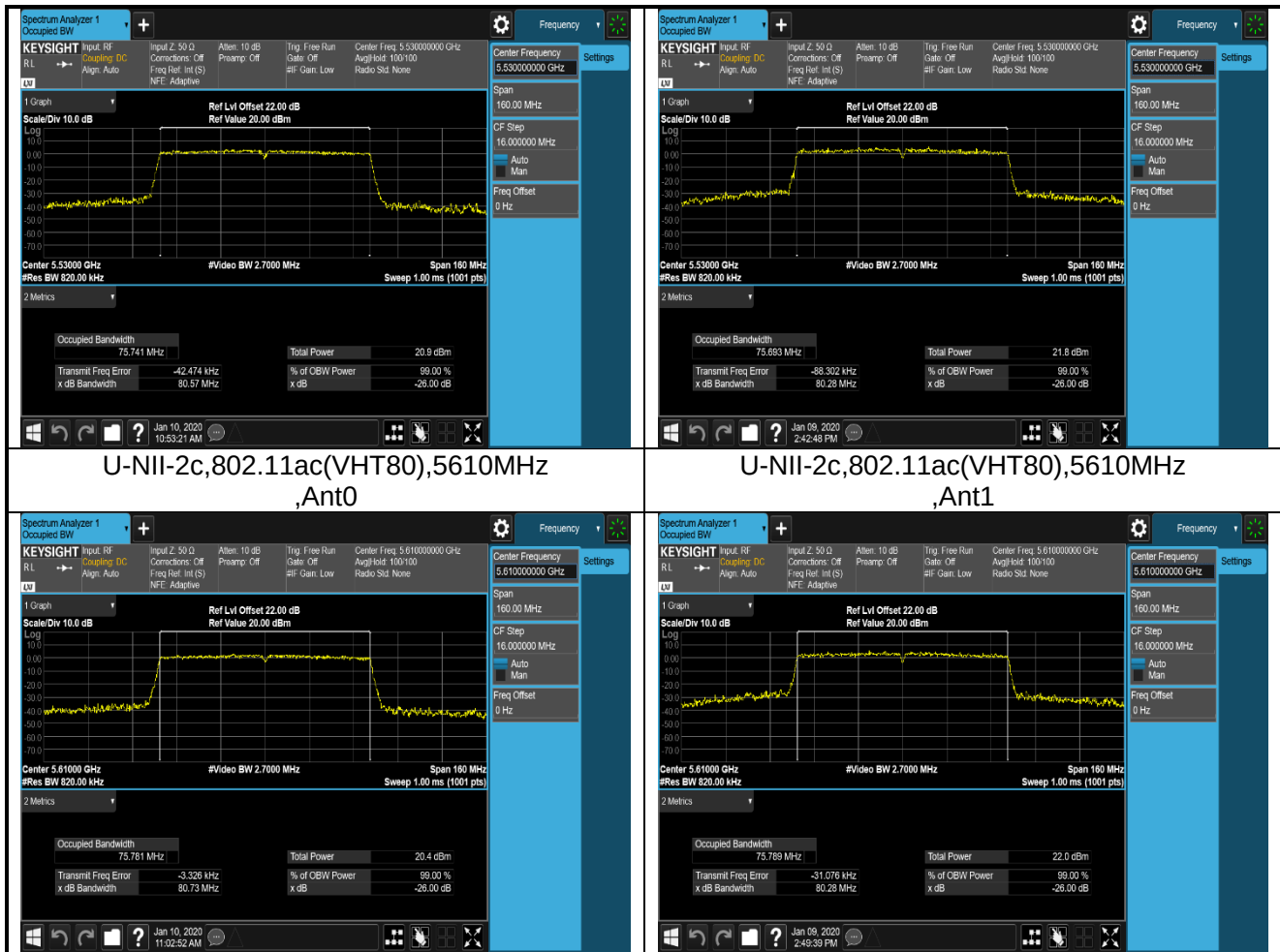


U-NII-2c,802.11n(HT40),5510MHz  
,Ant0



U-NII-2c,802.11n(HT40),5510MHz  
,Ant1



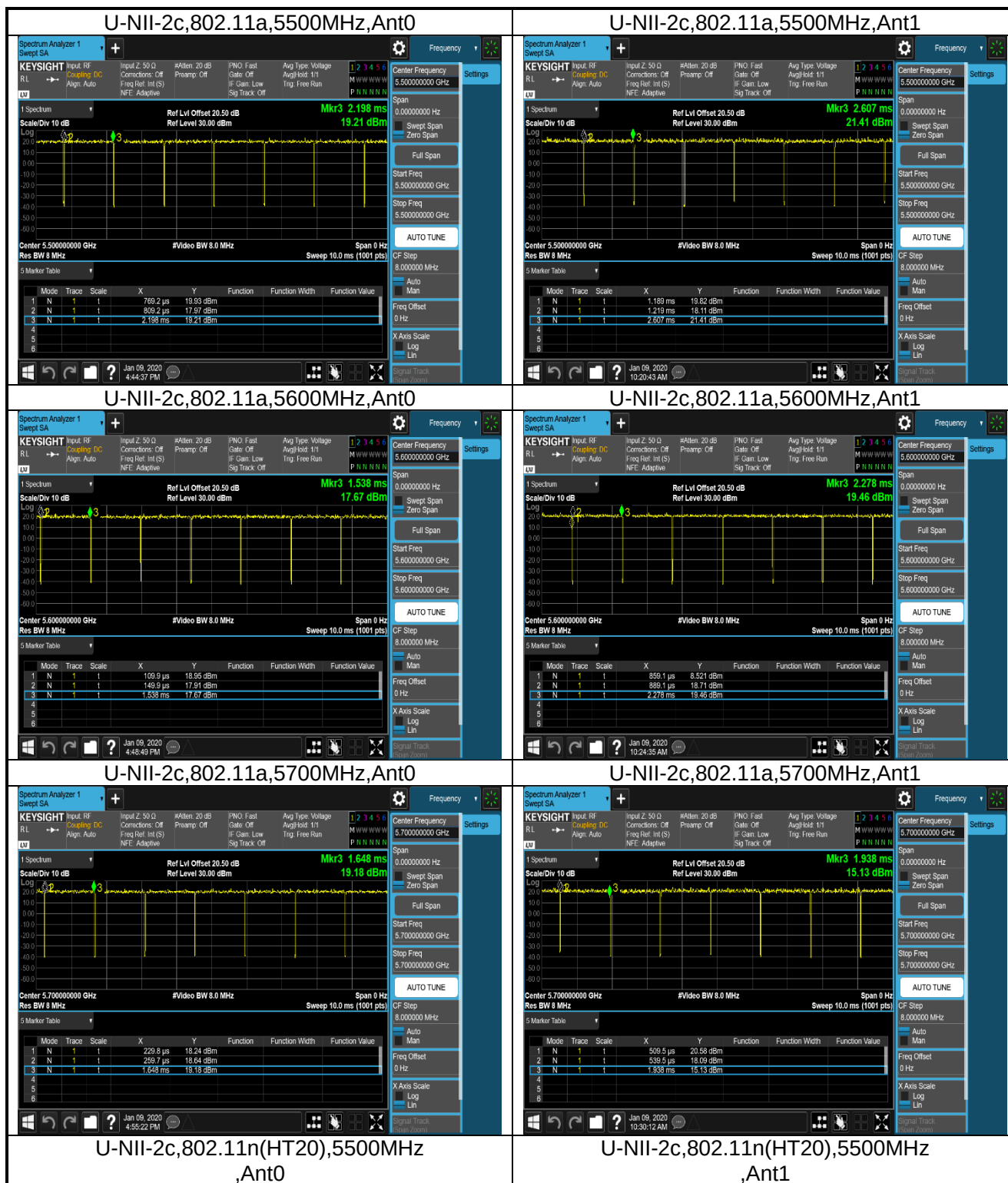


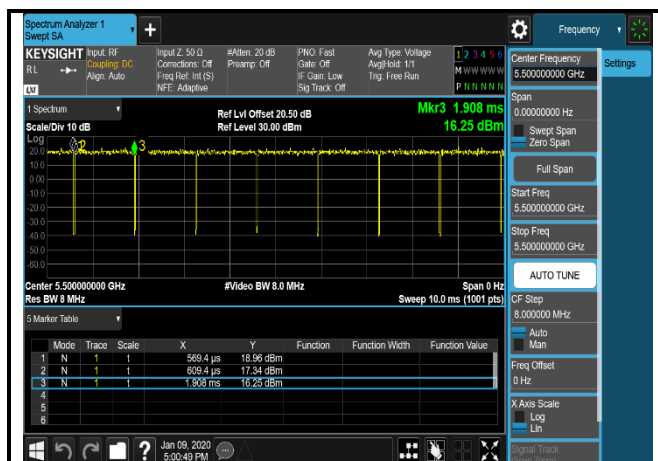
### 3. Duty Cycle

#### 3.1 Test Data

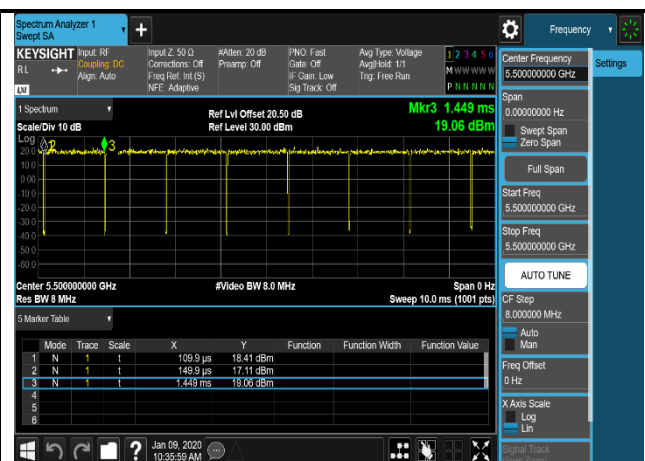
| U-NII-2c Duty Cycle |                      |      |                |                        |
|---------------------|----------------------|------|----------------|------------------------|
| Mode                | Test Frequency (MHz) | Ant  | Duty Cycle (%) | Duty Cycle Factor (dB) |
| 802.11a             | 5500                 | Ant0 | 97.20          | 0.12                   |
| 802.11a             | 5500                 | Ant1 | 97.89          | 0.09                   |
| 802.11a             | 5600                 | Ant0 | 97.20          | 0.12                   |
| 802.11a             | 5600                 | Ant1 | 97.89          | 0.09                   |
| 802.11a             | 5700                 | Ant0 | 97.89          | 0.09                   |
| 802.11a             | 5700                 | Ant1 | 97.90          | 0.09                   |
| 802.11n (HT20)      | 5500                 | Ant0 | 97.01          | 0.13                   |
| 802.11n (HT20)      | 5500                 | Ant1 | 97.01          | 0.13                   |
| 802.11n (HT20)      | 5600                 | Ant0 | 97.01          | 0.13                   |
| 802.11n (HT20)      | 5600                 | Ant1 | 97.74          | 0.10                   |
| 802.11n (HT20)      | 5700                 | Ant0 | 97.74          | 0.10                   |
| 802.11n (HT20)      | 5700                 | Ant1 | 97.74          | 0.10                   |
| 802.11n (HT40)      | 5510                 | Ant0 | 94.20          | 0.26                   |
| 802.11n (HT40)      | 5510                 | Ant1 | 94.20          | 0.26                   |
| 802.11n (HT40)      | 5590                 | Ant0 | 94.20          | 0.26                   |
| 802.11n (HT40)      | 5590                 | Ant1 | 94.20          | 0.26                   |
| 802.11n (HT40)      | 5670                 | Ant0 | 94.20          | 0.26                   |
| 802.11n (HT40)      | 5670                 | Ant1 | 94.20          | 0.26                   |
| 802.11ac (VHT80)    | 5530                 | Ant0 | 84.25          | 0.74                   |
| 802.11ac (VHT80)    | 5530                 | Ant1 | 84.18          | 0.75                   |
| 802.11ac (VHT80)    | 5610                 | Ant0 | 84.25          | 0.74                   |
| 802.11ac (VHT80)    | 5610                 | Ant1 | 84.11          | 0.75                   |

#### 3.2 Test Plots

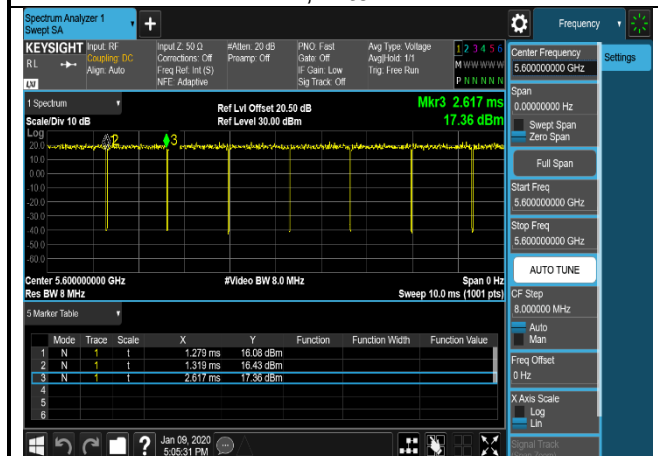




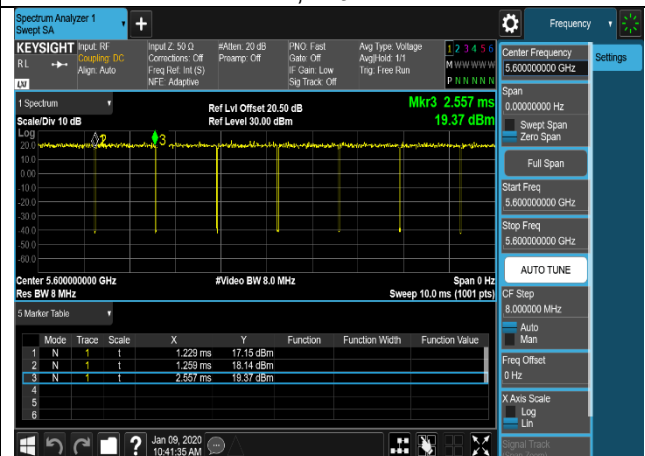
U-NII-2c,802.11n(HT20),5600MHz  
,Ant0



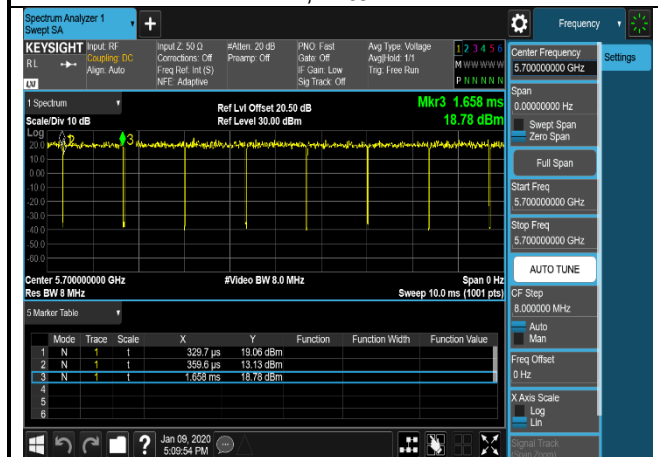
U-NII-2c,802.11n(HT20),5600MHz  
,Ant1



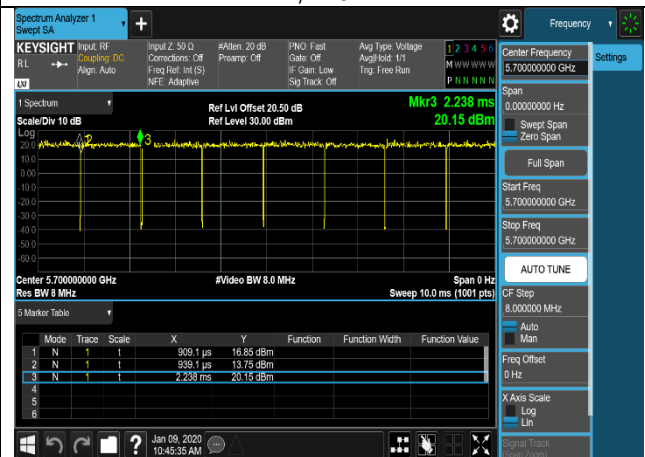
U-NII-2c,802.11n(HT20),5700MHz  
,Ant0



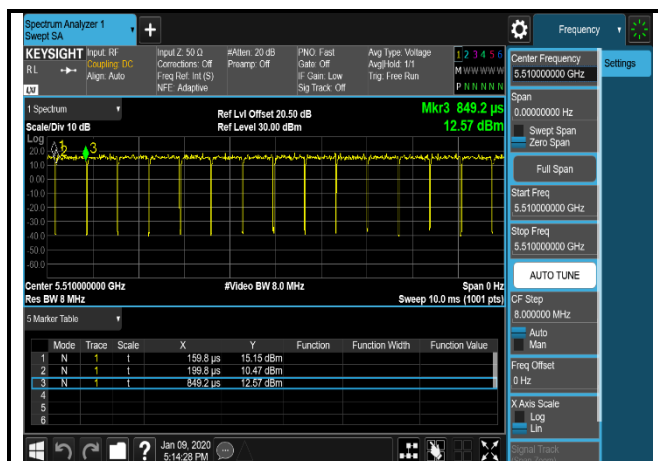
U-NII-2c,802.11n(HT20),5700MHz  
,Ant1



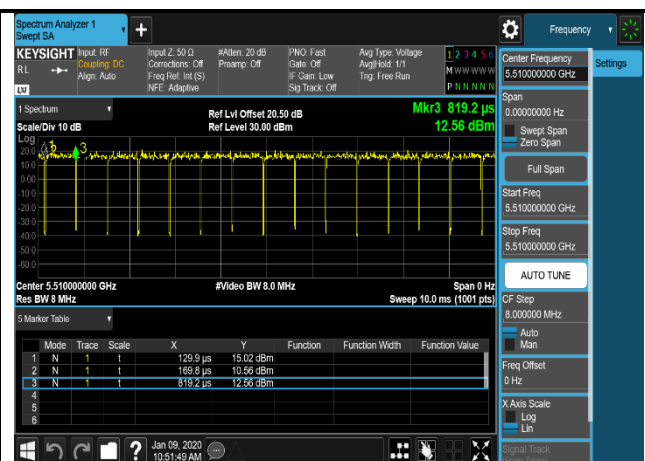
U-NII-2c,802.11n(HT40),5510MHz  
,Ant0



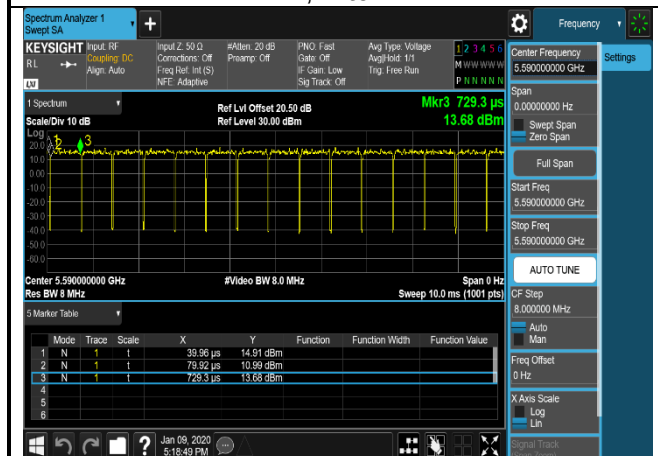
U-NII-2c,802.11n(HT40),5510MHz  
,Ant1



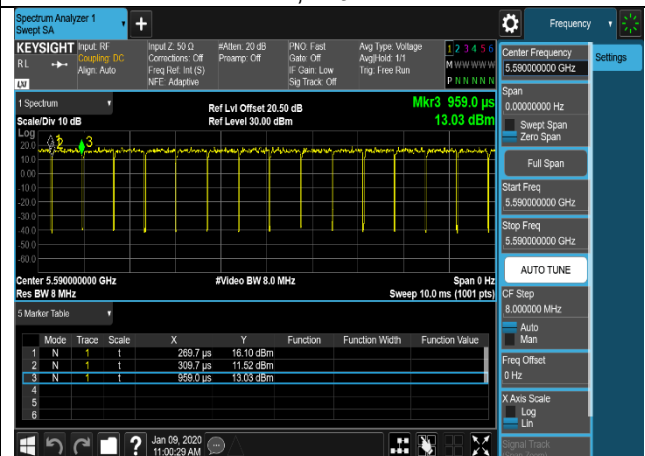
U-NII-2c,802.11n(HT40),5590MHz  
,Ant0



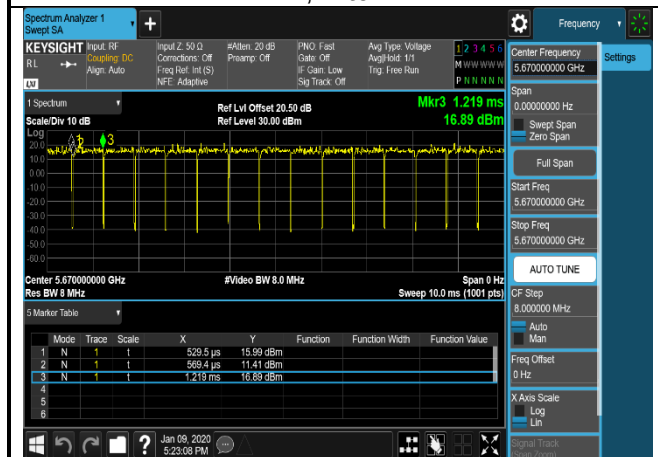
U-NII-2c,802.11n(HT40),5590MHz  
,Ant1



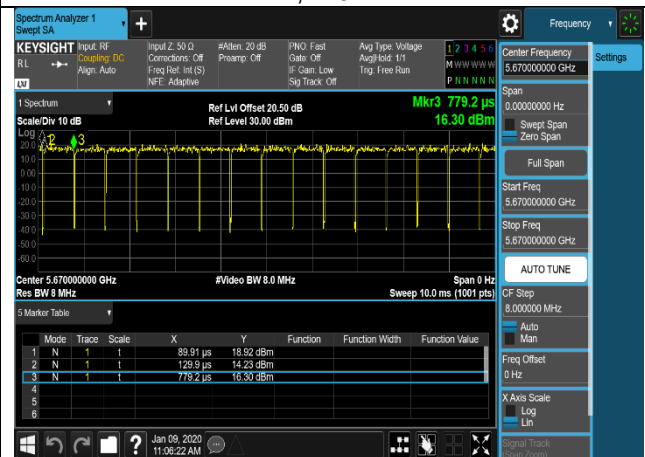
U-NII-2c,802.11n(HT40),5670MHz  
,Ant0



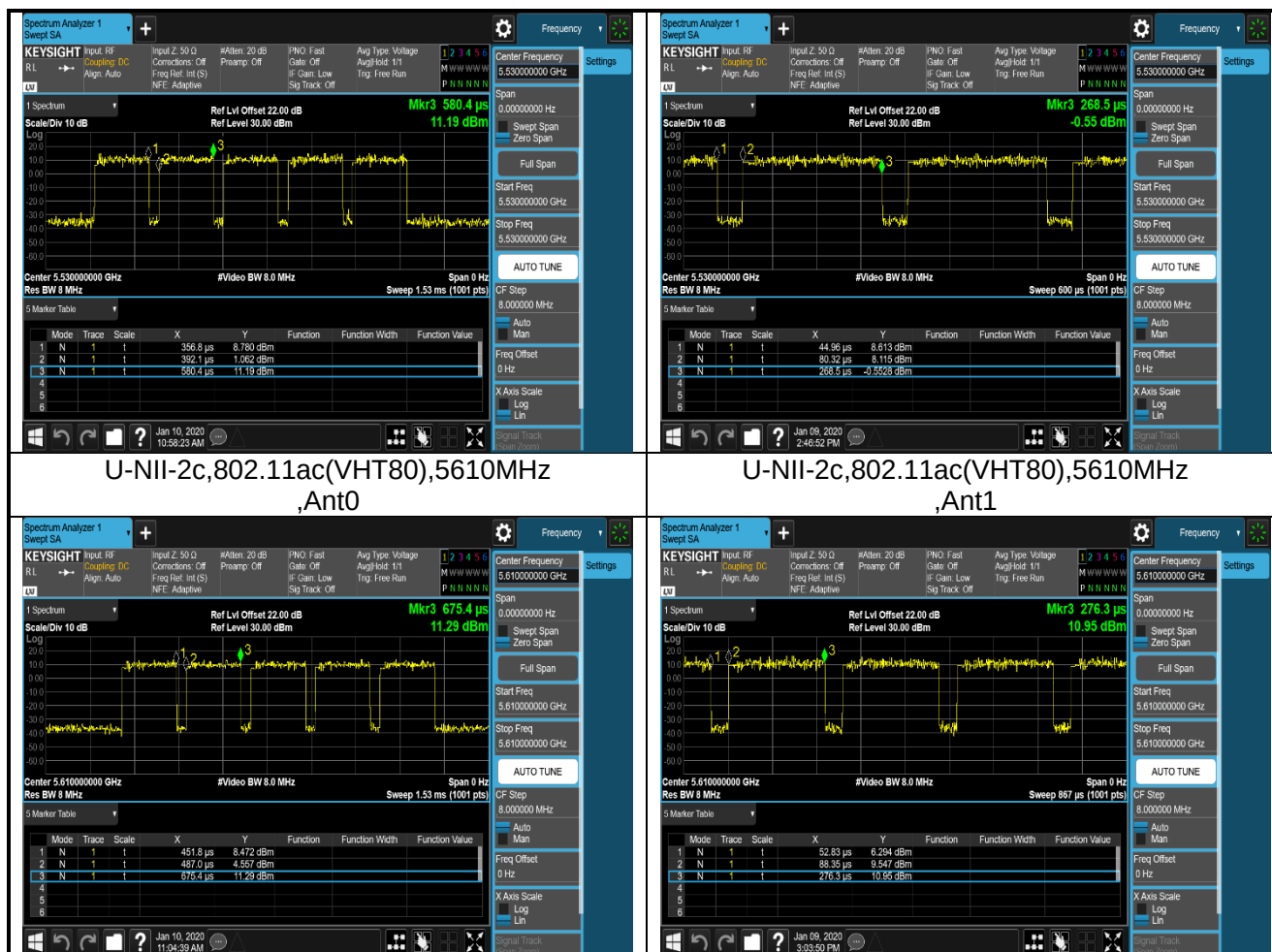
U-NII-2c,802.11n(HT40),5670MHz  
,Ant1



U-NII-2c,802.11ac(VHT80),5530MHz  
,Ant0



U-NII-2c,802.11ac(VHT80),5530MHz  
,Ant1



#### 4. AVGSA Output Power

##### 4.1 Test Data

| U-NII-2a AVGSA Output Power |                      |      |                        |                 |                   |                 |                |            |        |
|-----------------------------|----------------------|------|------------------------|-----------------|-------------------|-----------------|----------------|------------|--------|
| Mode                        | Test Frequency (MHz) | Ant  | Duty Cycle Factor (dB) | Max Power (dBm) | Total Power (dBm) | FCC Limit (dBm) | IC Limit (dBm) | EIRP (dBm) | Result |
| 802.11a                     | 5500                 | Ant0 | 0.12                   | 15.69           | 15.69             | 24              | 23             | 17.52      | Pass   |
| 802.11a                     | 5500                 | Ant1 | 0.09                   | 15.80           | 15.80             | 24              | 23             | 17.33      | Pass   |
| 802.11a                     | 5600                 | Ant0 | 0.12                   | 15.03           | 15.03             | 24              | 23             | 16.86      | Pass   |
| 802.11a                     | 5600                 | Ant1 | 0.09                   | 16.10           | 16.10             | 24              | 23             | 17.63      | Pass   |
| 802.11a                     | 5700                 | Ant0 | 0.09                   | 15.81           | 15.81             | 24              | 23             | 17.64      | Pass   |
| 802.11a                     | 5700                 | Ant1 | 0.09                   | 16.03           | 16.03             | 24              | 23             | 17.56      | Pass   |
| 802.11n (HT20)              | 5500                 | Ant0 | 0.13                   | 14.53           | 17.67             | 24              | 23             | 19.35      | Pass   |
| 802.11n (HT20)              | 5500                 | Ant1 | 0.13                   | 14.78           |                   |                 |                |            |        |
| 802.11n (HT20)              | 5600                 | Ant0 | 0.13                   | 13.91           | 17.50             | 24              | 23             | 19.18      | Pass   |
| 802.11n (HT20)              | 5600                 | Ant1 | 0.10                   | 15.00           |                   |                 |                |            |        |
| 802.11n (HT20)              | 5700                 | Ant0 | 0.10                   | 14.72           | 17.88             | 24              | 23             | 19.57      | Pass   |
| 802.11n (HT20)              | 5700                 | Ant1 | 0.10                   | 15.02           |                   |                 |                |            |        |
| 802.11n (HT40)              | 5510                 | Ant0 | 0.26                   | 14.43           | 17.52             | 24              | 24             | 19.20      | Pass   |
| 802.11n (HT40)              | 5510                 | Ant1 | 0.26                   | 14.58           |                   |                 |                |            |        |
| 802.11n (HT40)              | 5590                 | Ant0 | 0.26                   | 13.75           | 17.36             | 24              | 24             | 19.04      | Pass   |
| 802.11n (HT40)              | 5590                 | Ant1 | 0.26                   | 14.88           |                   |                 |                |            |        |
| 802.11n (HT40)              | 5670                 | Ant0 | 0.26                   | 14.05           | 17.76             | 24              | 24             | 19.45      | Pass   |
| 802.11n (HT40)              | 5670                 | Ant1 | 0.26                   | 15.36           |                   |                 |                |            |        |
| 802.11ac (VHT80)            | 5530                 | Ant0 | 0.74                   | 12.85           | 16.05             | 24              | 24             | 17.73      | Pass   |
| 802.11ac (VHT80)            | 5530                 | Ant1 | 0.75                   | 13.22           |                   |                 |                |            |        |
| 802.11ac (VHT80)            | 5610                 | Ant0 | 0.74                   | 12.44           | 16.07             | 24              | 24             | 17.76      | Pass   |
| 802.11ac (VHT80)            | 5610                 | Ant1 | 0.75                   | 13.61           |                   |                 |                |            |        |