

**Appendix G**  
**RF Test Data for 5.5G WLAN (Conducted Measurement)**  
**Product Name: Projector**  
**Trade Mark: N/A**  
**Test Model: H6**

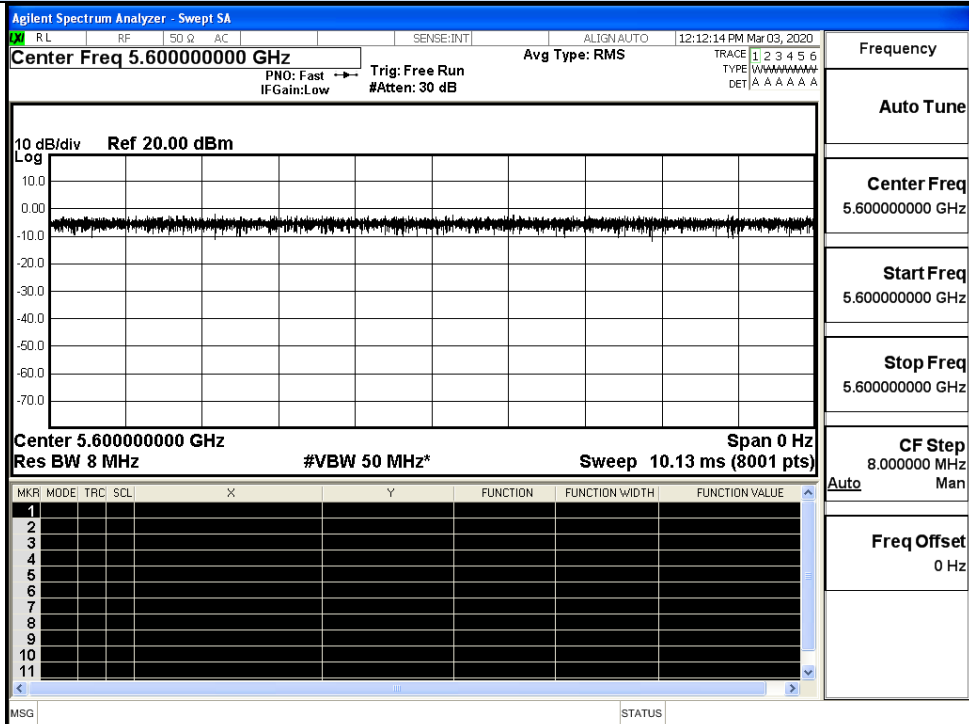
**Environmental Conditions**

|                    |           |
|--------------------|-----------|
| Temperature:       | 22.5 ° C  |
| Relative Humidity: | 52.9%     |
| ATM Pressure:      | 100.0 kPa |
| Test Engineer:     | Scout Wu  |
| Supervised by:     | Tom Liu   |

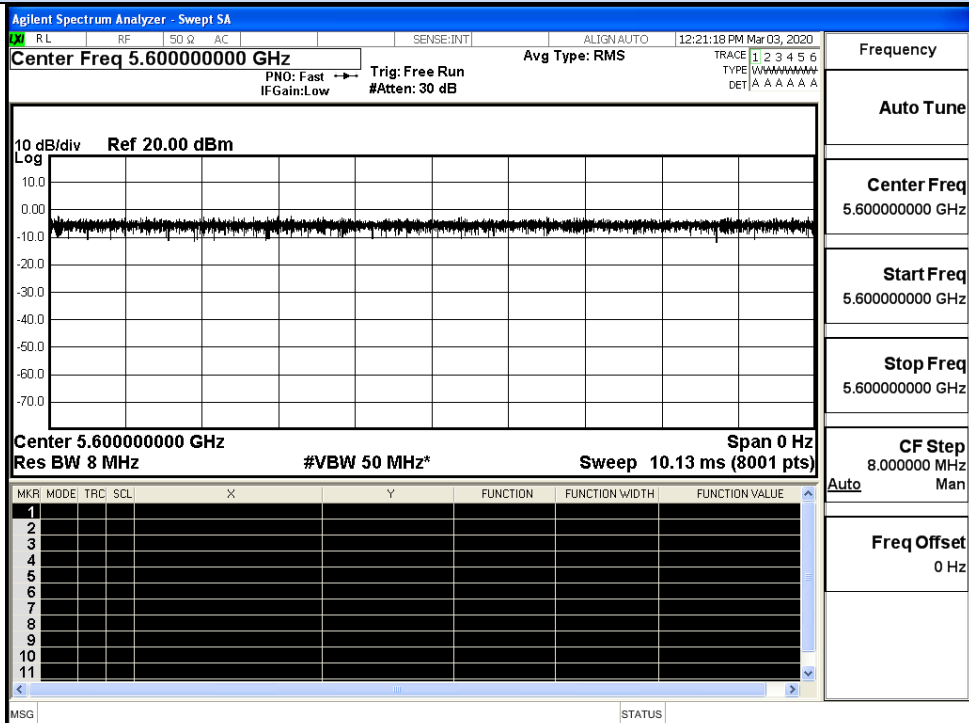
**G.1 Duty Cycle**

| Test Mode   | Test Frequency (MHz) | Duty Cycle (%) | 10log(1/x) Factor (dB) | 1/B Minimum VBW(KHz) |
|-------------|----------------------|----------------|------------------------|----------------------|
| 11A         | 5600                 | 100            | 0.00                   | 0.01                 |
| 11N20 SISO  | 5600                 | 100            | 0.00                   | 0.01                 |
| 11N40 SISO  | 5590                 | 100            | 0.00                   | 0.01                 |
| 11AC20 SISO | 5600                 | 100            | 0.00                   | 0.01                 |
| 11AC40 SISO | 5590                 | 100            | 0.00                   | 0.01                 |
| 11AC80 SISO | 5610                 | 100            | 0.00                   | 0.01                 |

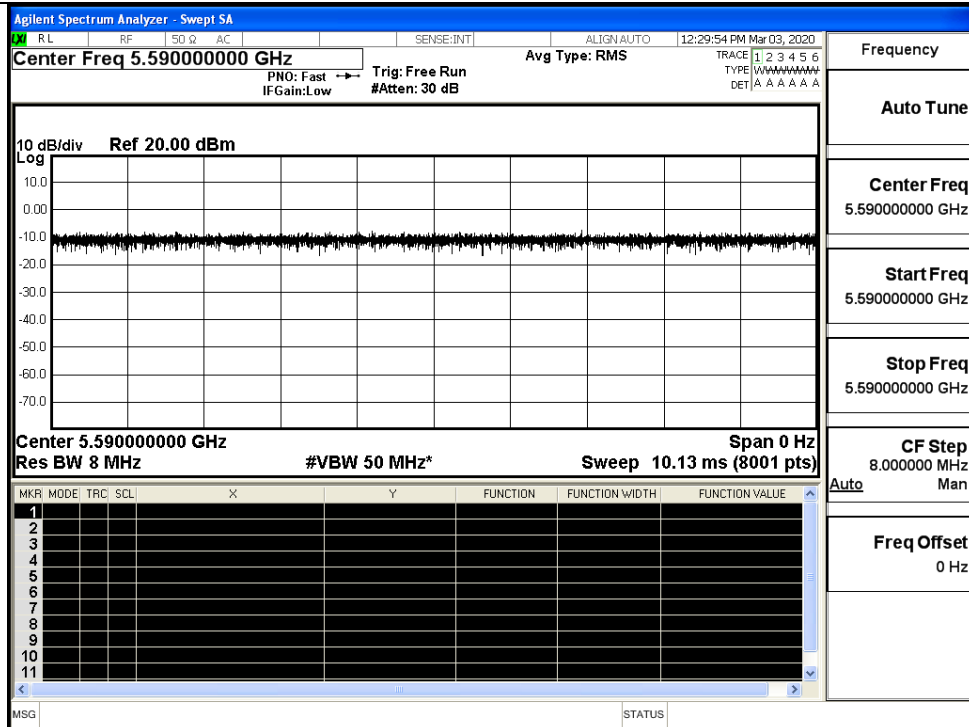
## On Time and Duty Cycle



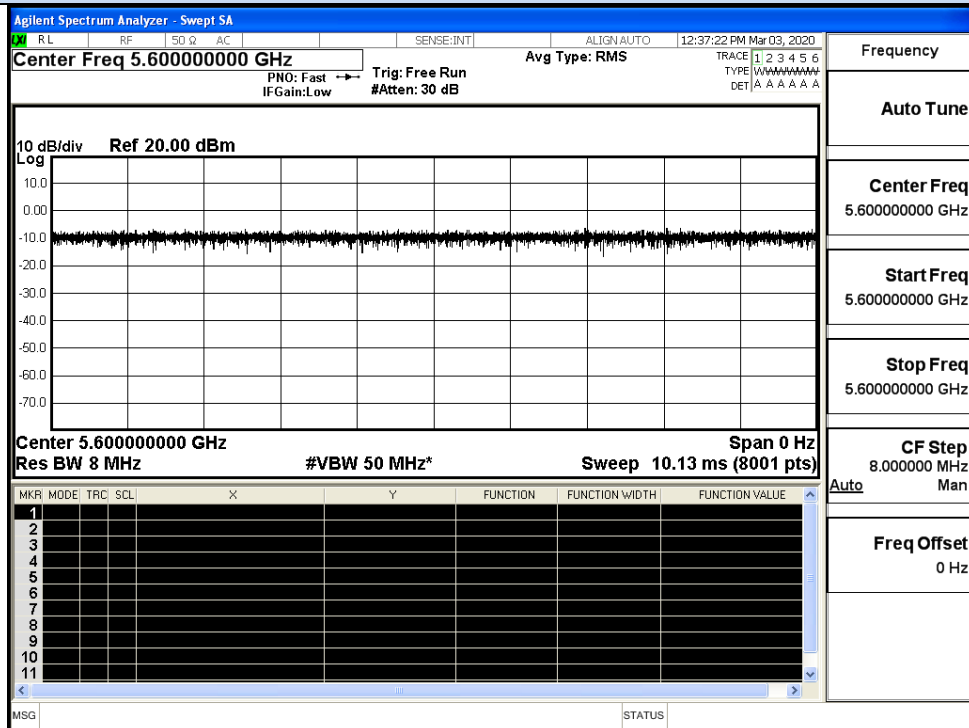
## IEEE 802.11a



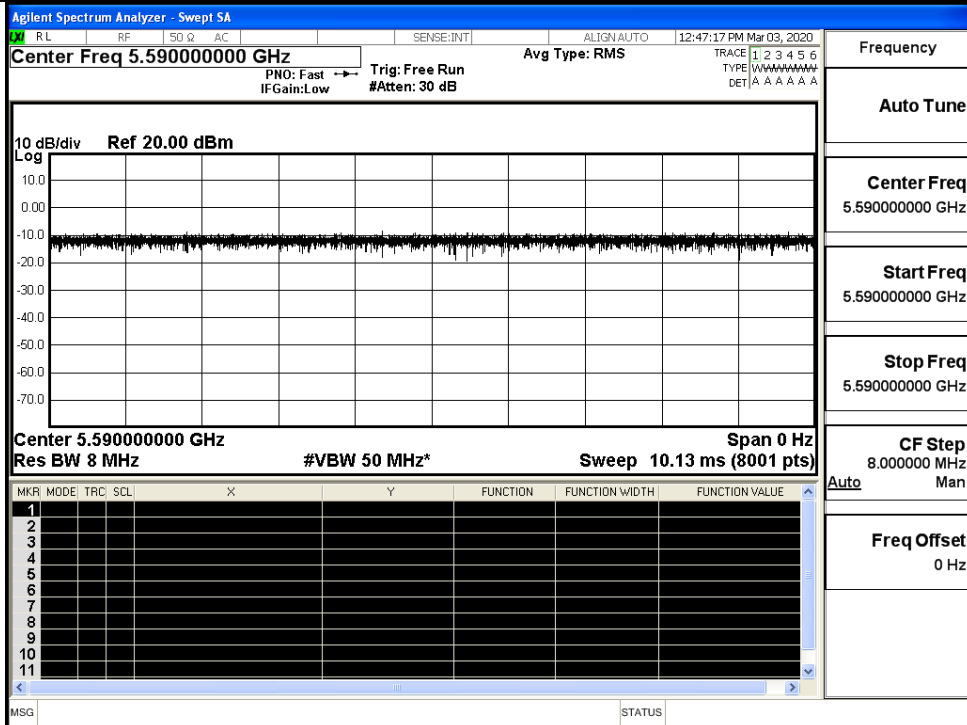
## IEEE 802.11n HT20



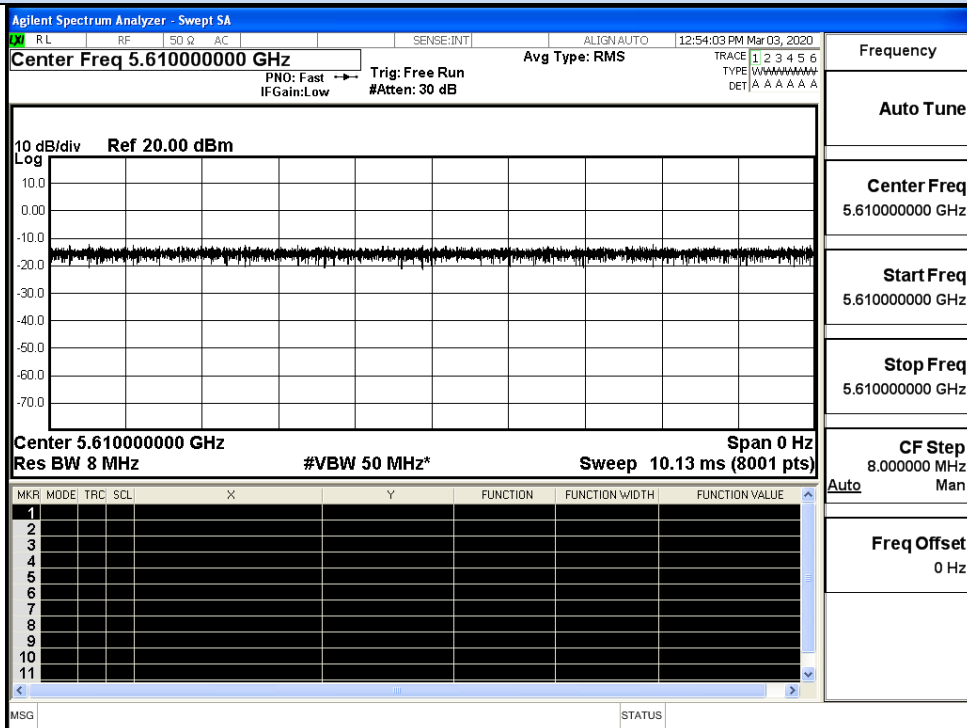
## IEEE 802.11n HT40



## IEEE 802.11AC20



IEEE 802.11AC40



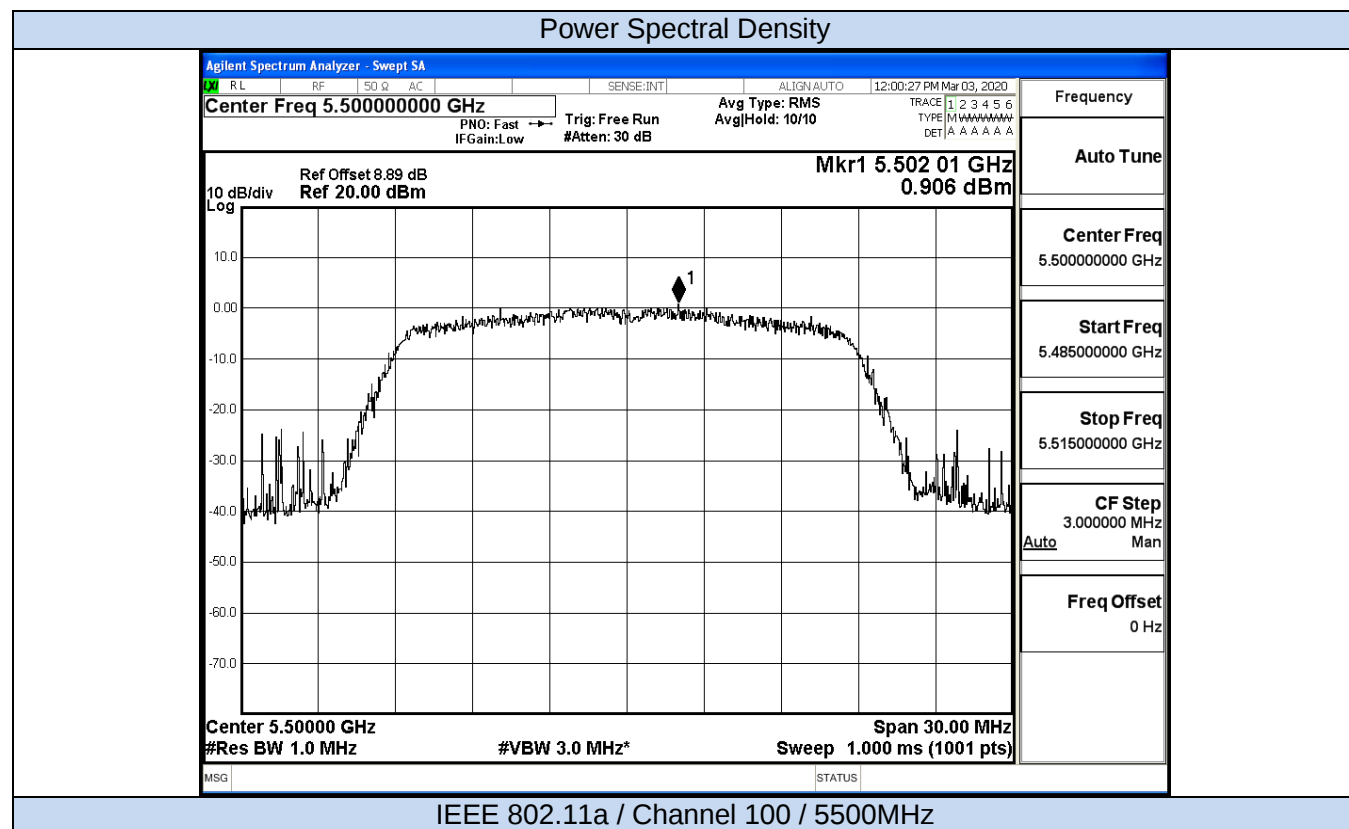
IEEE 802.11AC80

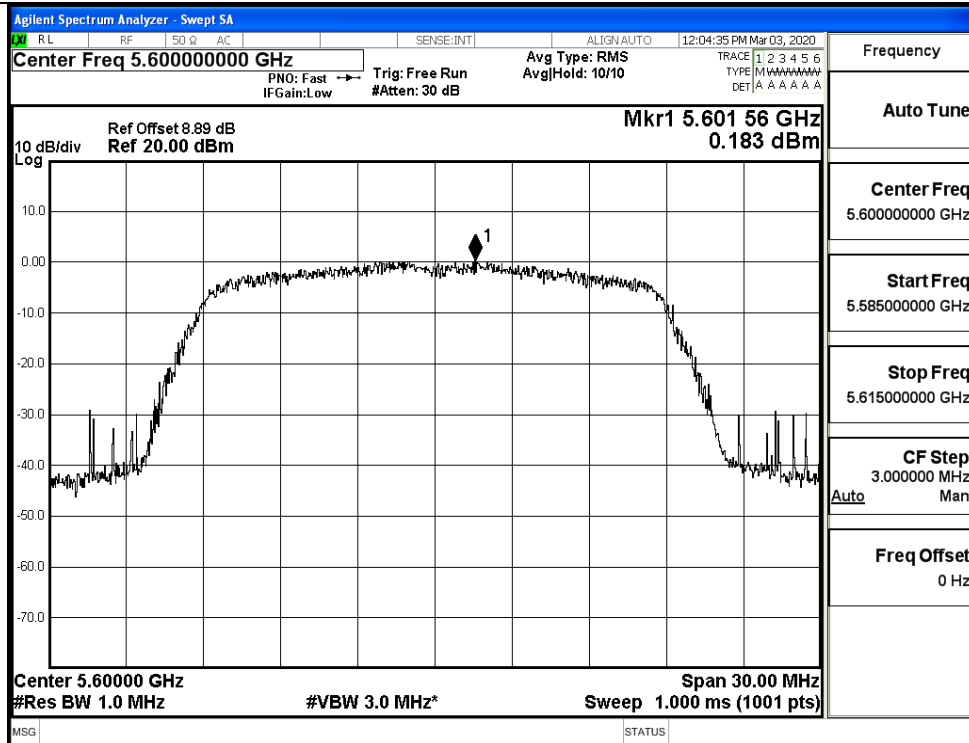
## G.2 Maximum Conduct Output Power

| Test Mode   | Channel | Frequency (MHz) | AVG Conducted Power (dBm) | Duty Cycle Factor(dB) | Report Conducted Power(dBm) | Limit (dBm) | Verdict |
|-------------|---------|-----------------|---------------------------|-----------------------|-----------------------------|-------------|---------|
| 11A         | 100     | 5500            | 9.16                      | 0                     | 9.16                        | 24          | Pass    |
|             | 120     | 5600            | 9.72                      | 0                     | 9.72                        |             | Pass    |
|             | 140     | 5700            | 9.47                      | 0                     | 9.47                        |             | Pass    |
| 11N20 SISO  | 100     | 5500            | 9.81                      | 0                     | 9.81                        | 24          | Pass    |
|             | 120     | 5600            | 9.24                      | 0                     | 9.24                        |             | Pass    |
|             | 140     | 5700            | 9                         | 0                     | 9                           |             | Pass    |
| 11N40 SISO  | 149     | 5510            | 9.52                      | 0                     | 9.52                        | 24          | Pass    |
|             | 157     | 5590            | 9.65                      | 0                     | 9.65                        |             | Pass    |
|             | 165     | 5670            | 9.72                      | 0                     | 9.72                        |             | Pass    |
| 11ac20 SISO | 100     | 5500            | 9.28                      | 0                     | 9.28                        | 24          | Pass    |
|             | 120     | 5600            | 9.35                      | 0                     | 9.35                        |             | Pass    |
|             | 140     | 5700            | 9.03                      | 0                     | 9.03                        |             | Pass    |
| 11ac40 SISO | 149     | 5510            | 9.08                      | 0                     | 9.08                        | 24          | Pass    |
|             | 157     | 5590            | 9.84                      | 0                     | 9.84                        |             | Pass    |
|             | 165     | 5670            | 9.27                      | 0                     | 9.27                        |             | Pass    |
| 11ac80 SISO | 106     | 5530            | 9.36                      | 0                     | 9.36                        | 24          | Pass    |
|             | 122     | 5610            | 9.95                      | 0                     | 9.95                        |             | Pass    |

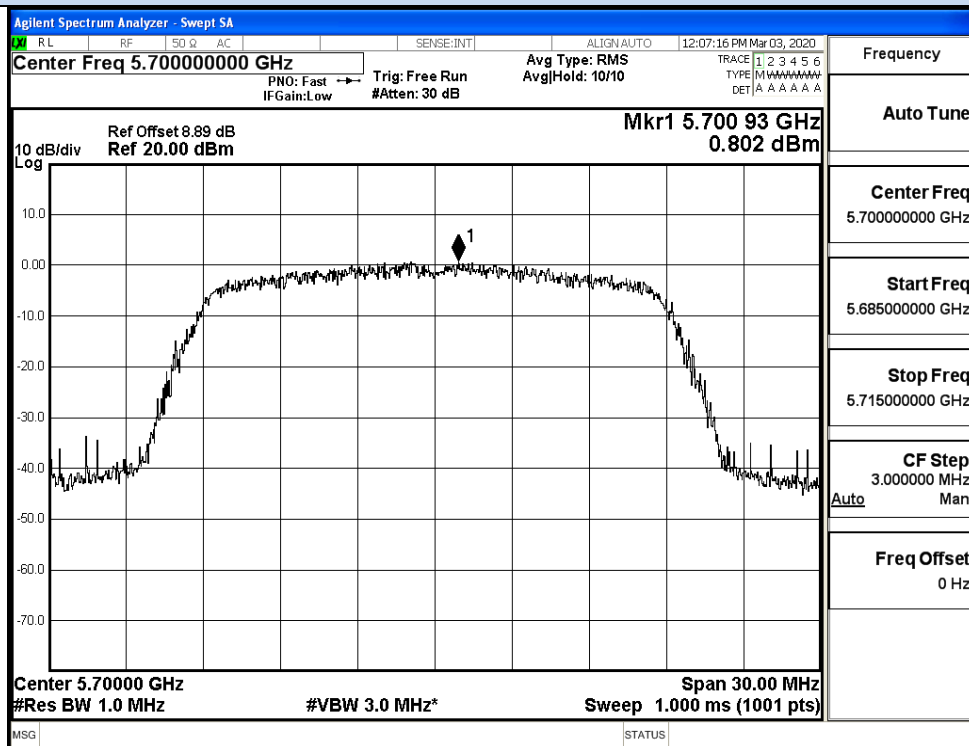
### G.3 Power Spectral Density

| Test Mode   | Channel | Frequency (MHz) | Power Density (dBm/MHz) | Duty Cycle Factor (dB) | Report Power Density (dBm/MHz) | Limit (dBm/MHz) | Verdict |
|-------------|---------|-----------------|-------------------------|------------------------|--------------------------------|-----------------|---------|
| 11A         | 100     | 5500            | 0.91                    | 0                      | 0.91                           | 11              | Pass    |
|             | 120     | 5600            | 0.18                    | 0                      | 0.18                           |                 | Pass    |
|             | 140     | 5700            | 0.80                    | 0                      | 0.80                           |                 | Pass    |
| 11N20 SISO  | 100     | 5500            | -2.36                   | 0                      | -2.36                          | 11              | Pass    |
|             | 120     | 5600            | 0.93                    | 0                      | 0.93                           |                 | Pass    |
|             | 140     | 5700            | 0.61                    | 0                      | 0.61                           |                 | Pass    |
| 11N40 SISO  | 102     | 5510            | -4.24                   | 0                      | -4.24                          | 11              | Pass    |
|             | 118     | 5590            | -2.37                   | 0                      | -2.37                          |                 | Pass    |
|             | 134     | 5670            | -2.83                   | 0                      | -2.83                          |                 | Pass    |
| 11AC20 SISO | 100     | 5500            | -1.88                   | 0                      | -1.88                          | 11              | Pass    |
|             | 120     | 5600            | 0.16                    | 0                      | 0.16                           |                 | Pass    |
|             | 140     | 5700            | 0.17                    | 0                      | 0.17                           |                 | Pass    |
| 11AC40 SISO | 102     | 5510            | -5.70                   | 0                      | -5.70                          | 11              | Pass    |
|             | 118     | 5590            | -2.60                   | 0                      | -2.60                          |                 | Pass    |
|             | 134     | 5670            | -2.74                   | 0                      | -2.74                          |                 | Pass    |
| 11AC80 SISO | 106     | 5530            | -7.29                   | 0                      | -7.29                          | 11              | Pass    |
|             | 122     | 5610            | -4.93                   | 0                      | -4.93                          |                 | Pass    |



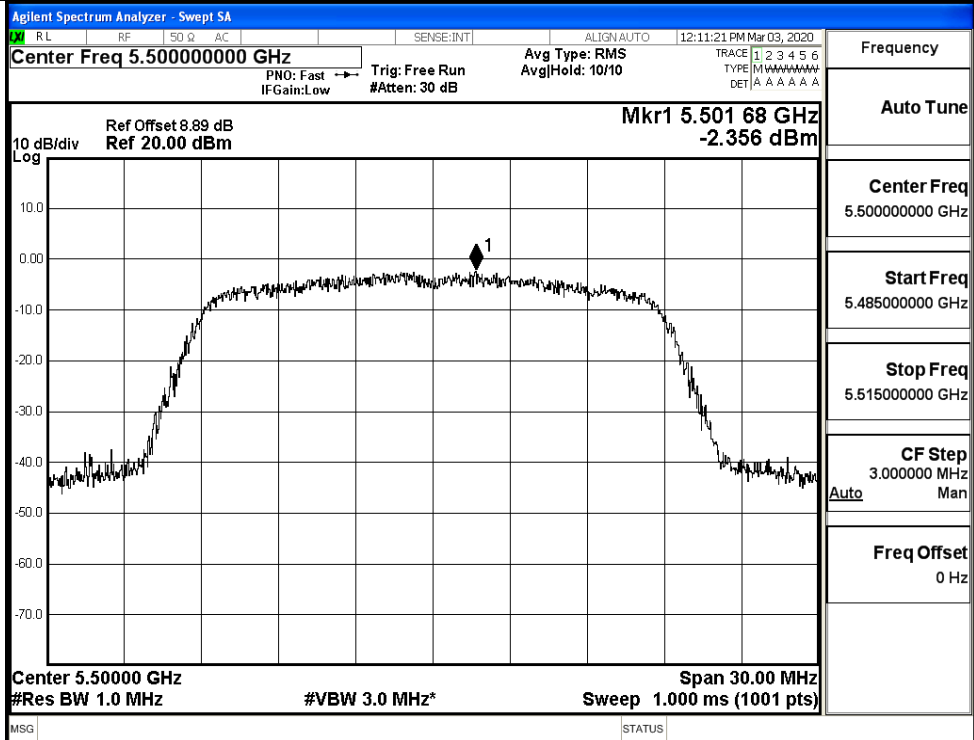


IEEE 802.11a / Channel 120 / 5600MHz

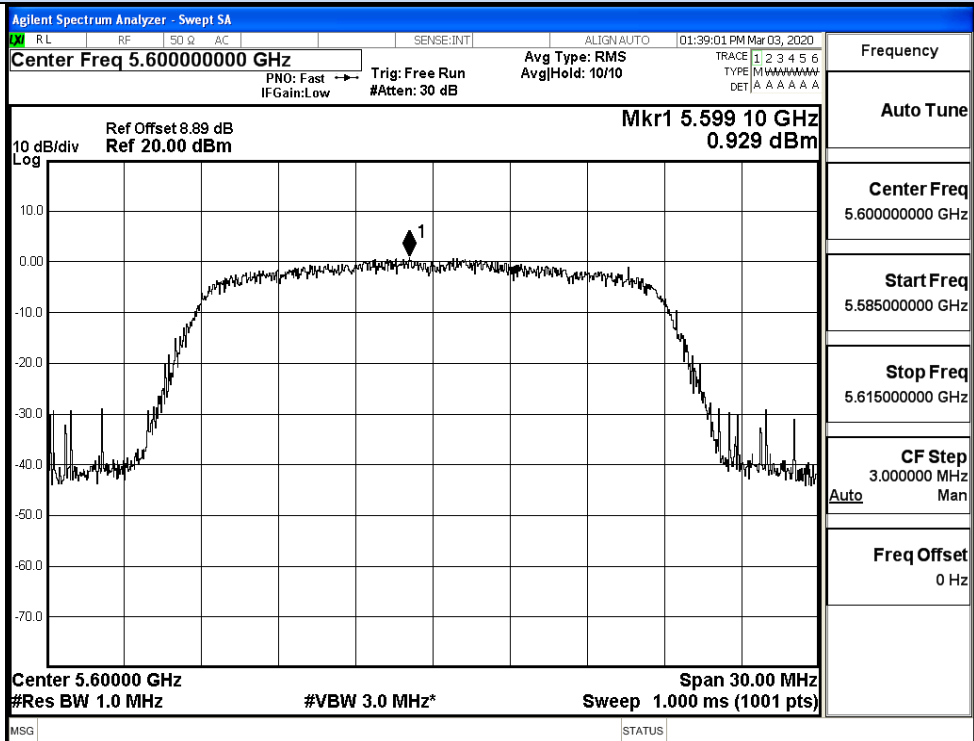


IEEE 802.11a / Channel 140 / 5700MHz

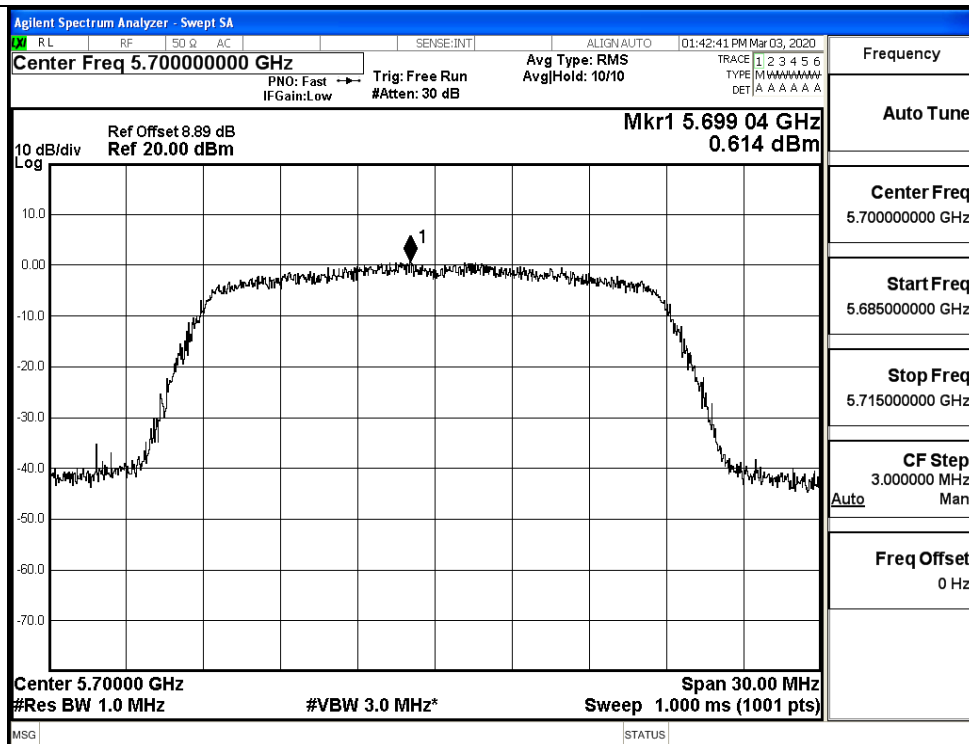
## Power Spectral Density



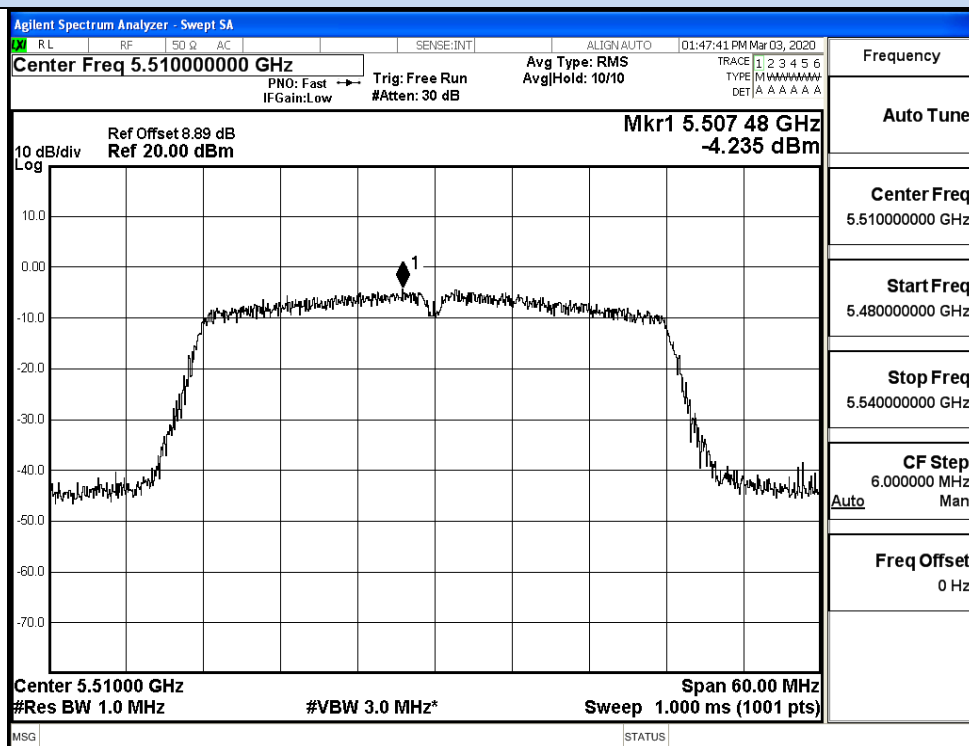
## IEEE 802.11n20 / Channel 100 / 5500MHz



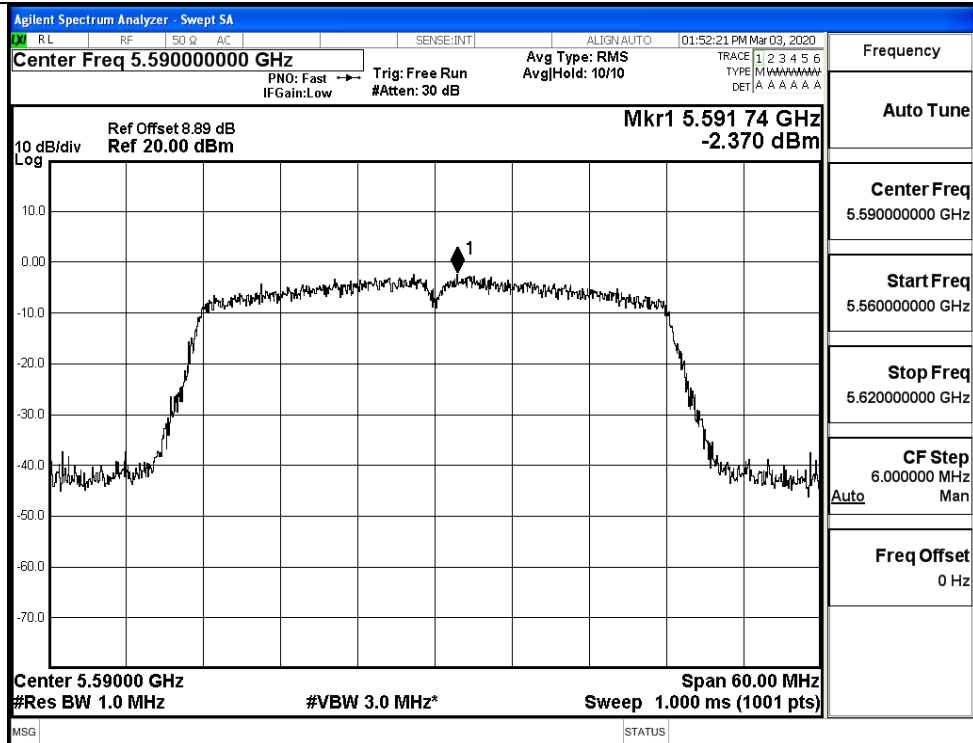
## IEEE 802.11n20 / Channel 120 / 5600MHz



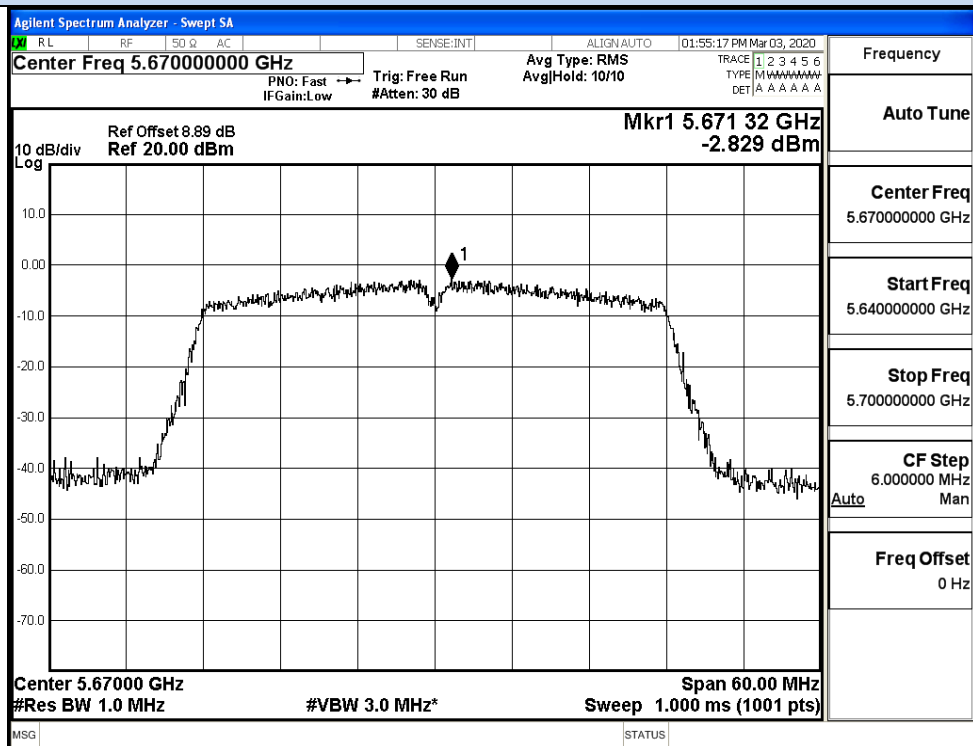
IEEE 802.11n20 / Channel 140 / 5700MHz



IEEE 802.11n40 / Channel 102 / 5510MHz

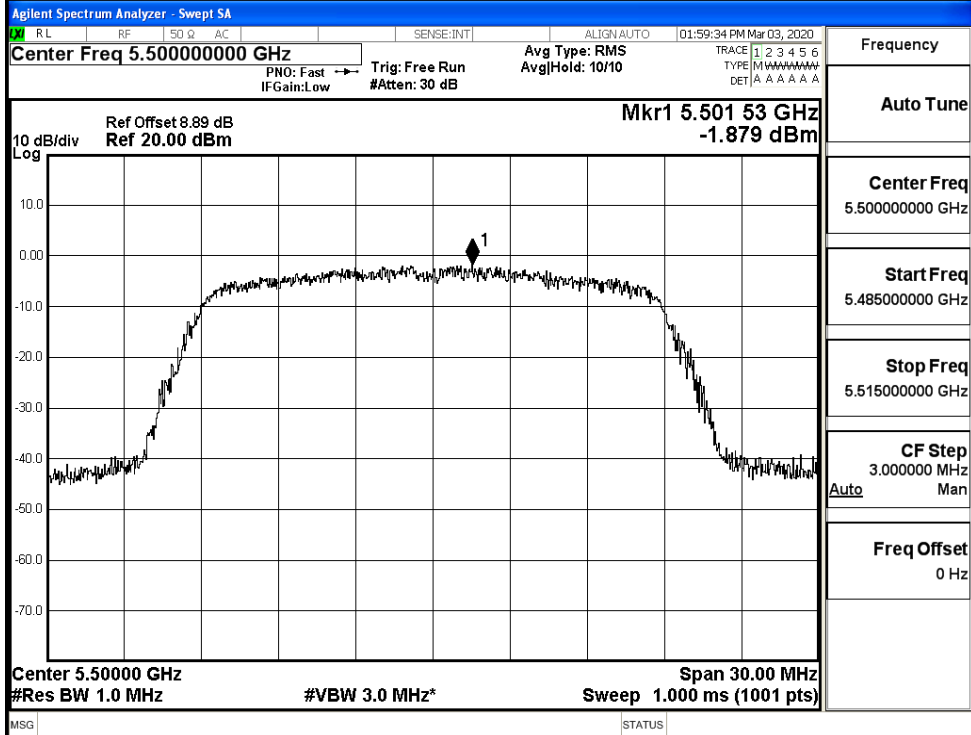


IEEE 802.11n40 / Channel 118 / 5590MHz

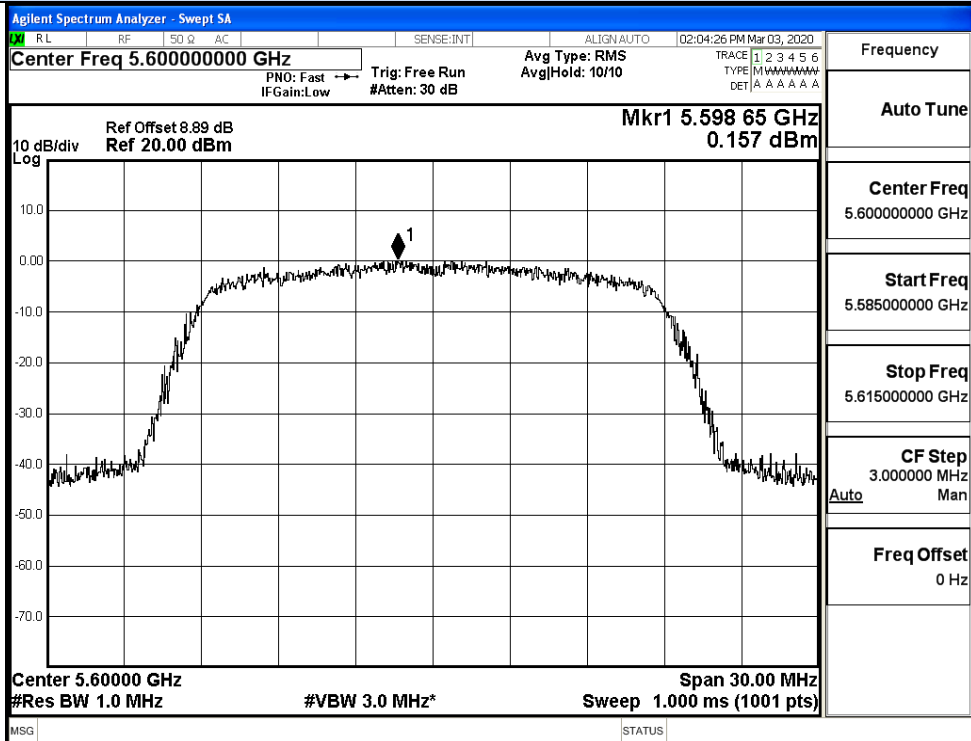


IEEE 802.11n40 / Channel 134 / 5670MHz

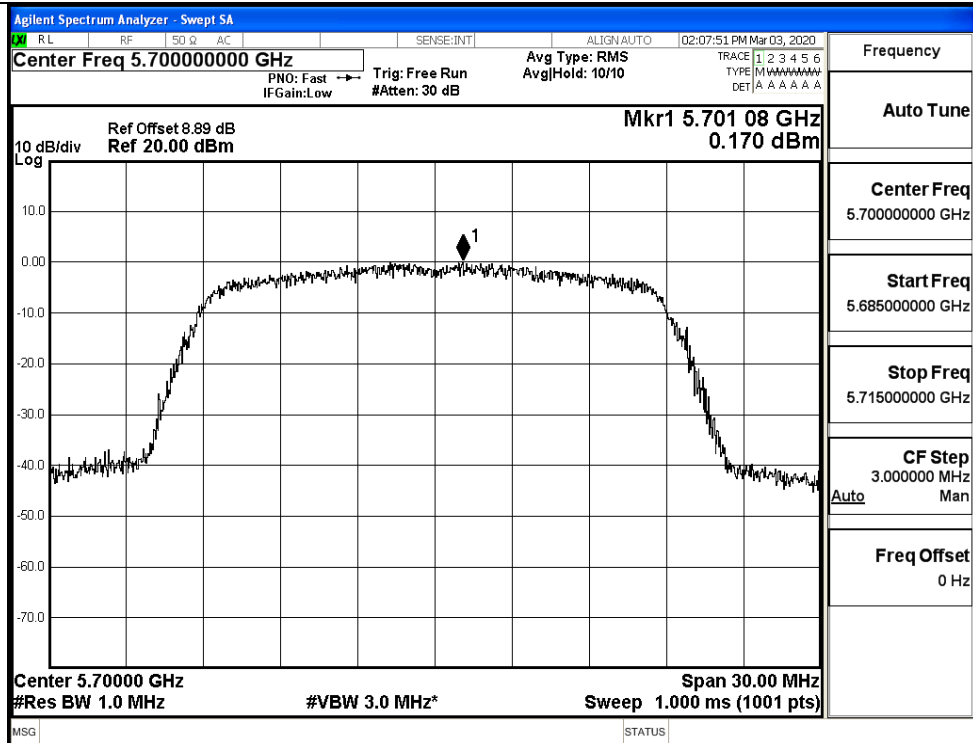
## Power Spectral Density



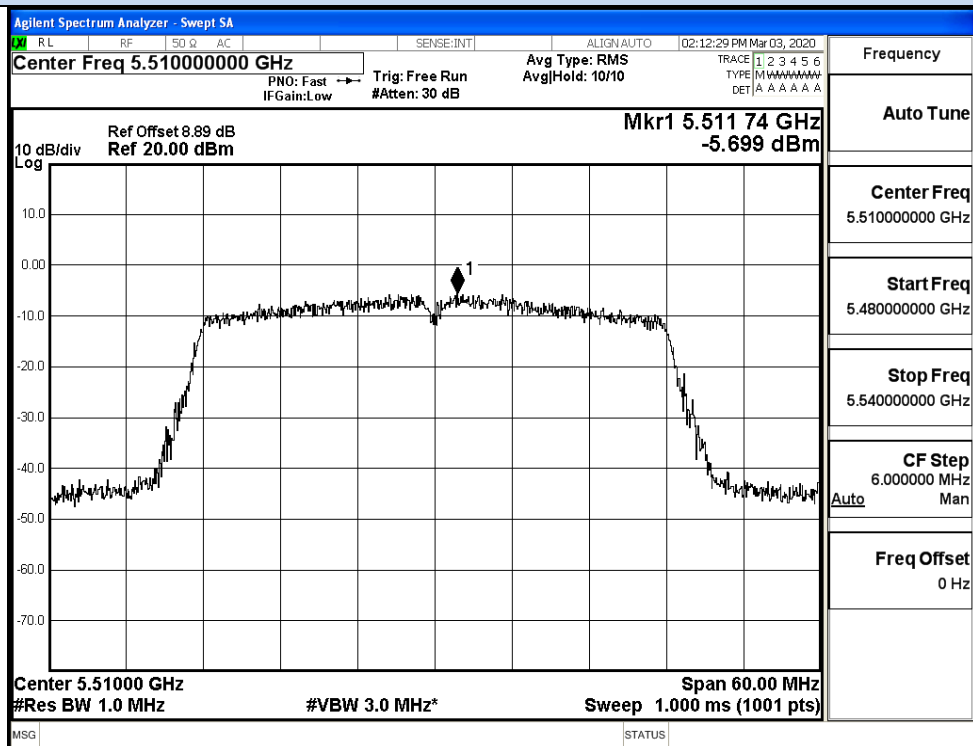
## IEEE 802.11ac20 / Channel 100 / 5500MHz



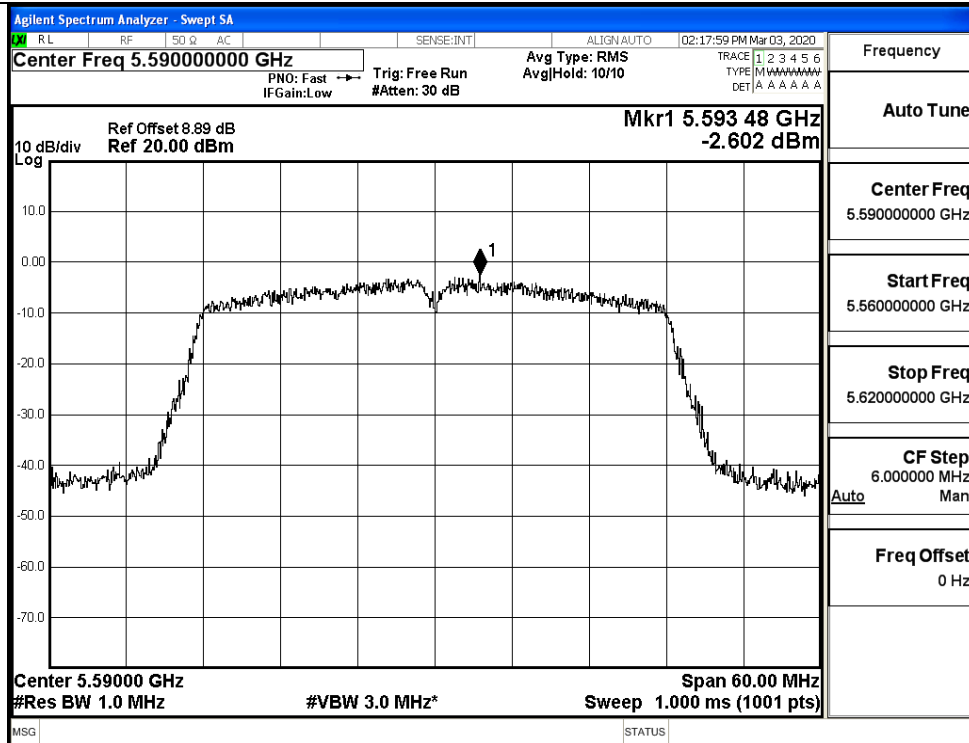
## IEEE 802.11ac20 / Channel 120 / 5600MHz



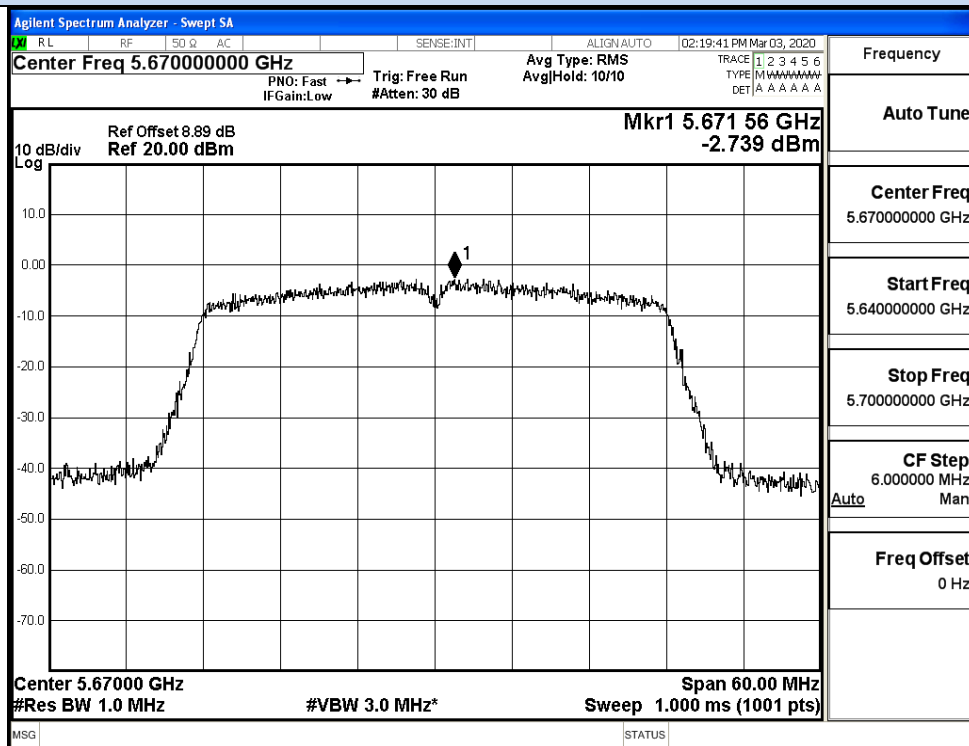
IEEE 802.11ac20 / Channel 140 / 5700MHz



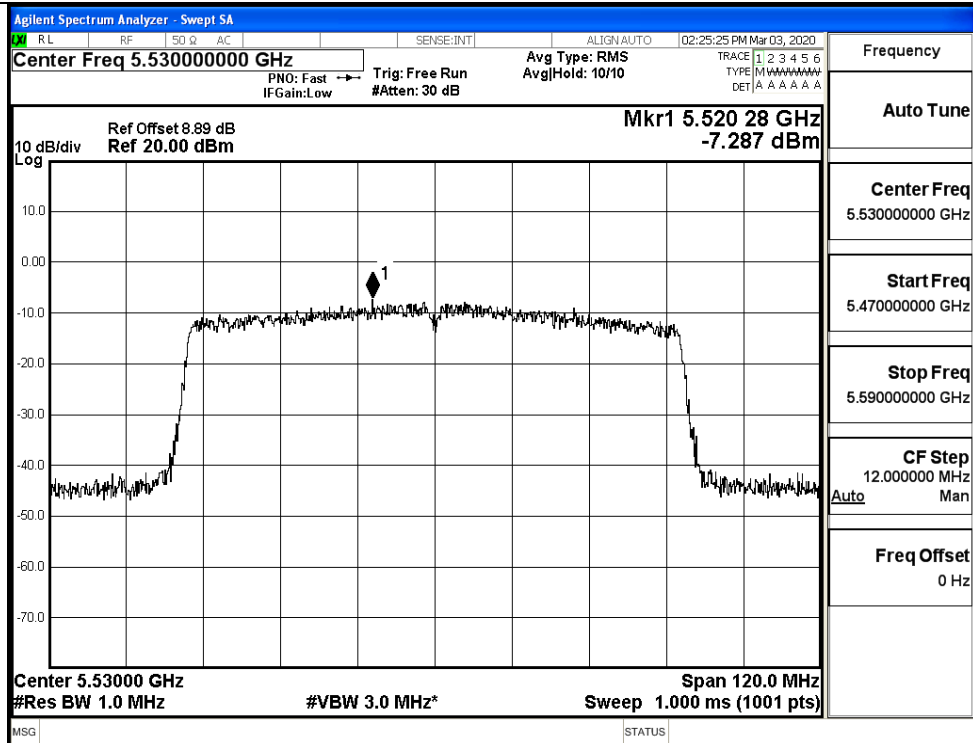
IEEE 802.11ac40 / Channel 102 / 5510MHz



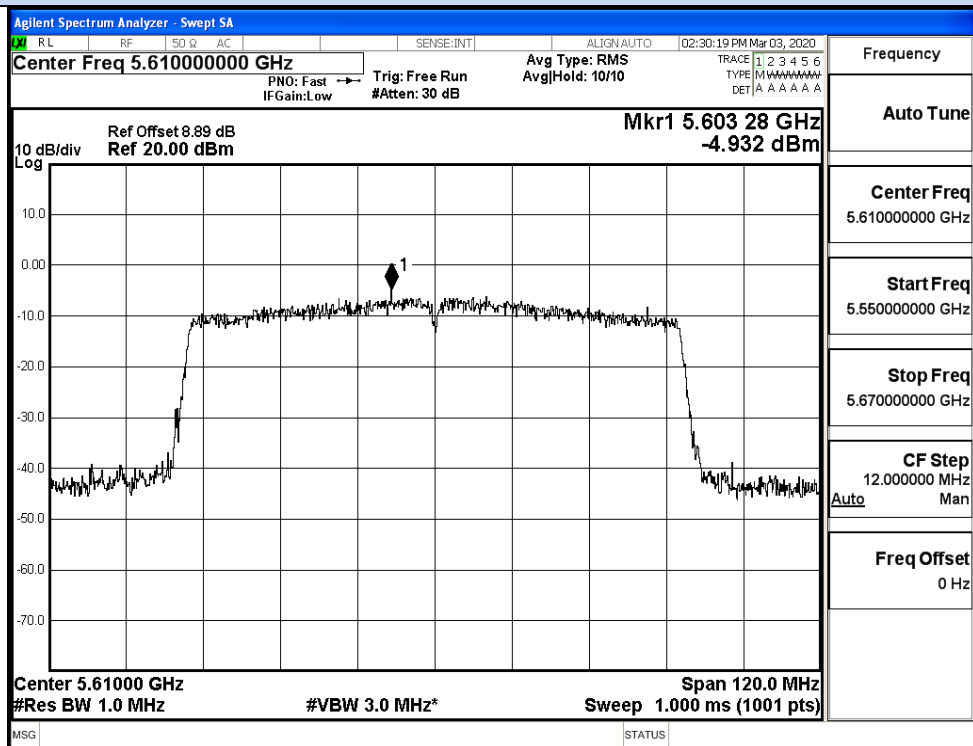
IEEE 802.11ac40 / Channel 118 / 5590MHz



IEEE 802.11ac40 / Channel 134 / 5670MHz



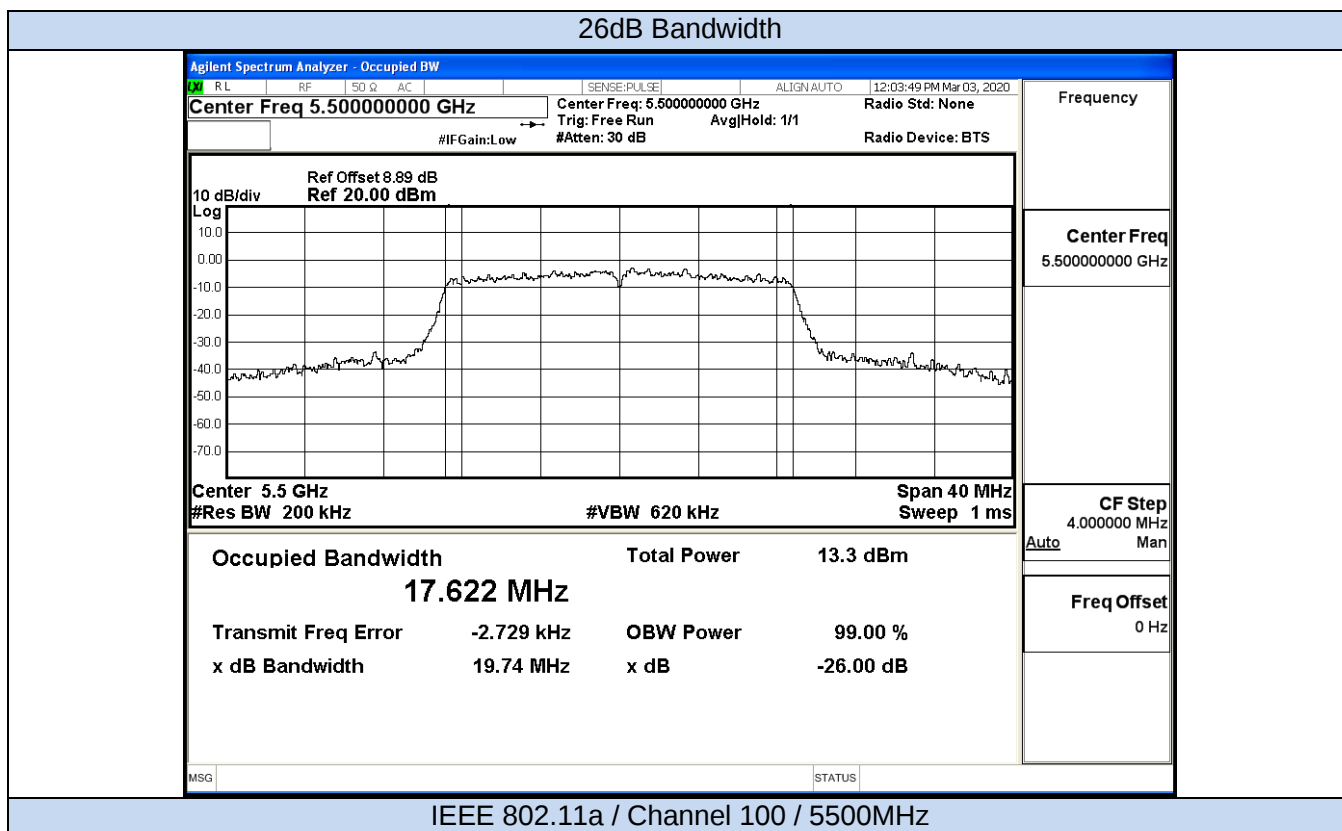
IEEE 802.11ac80 / Channel 106 / 5530MHz

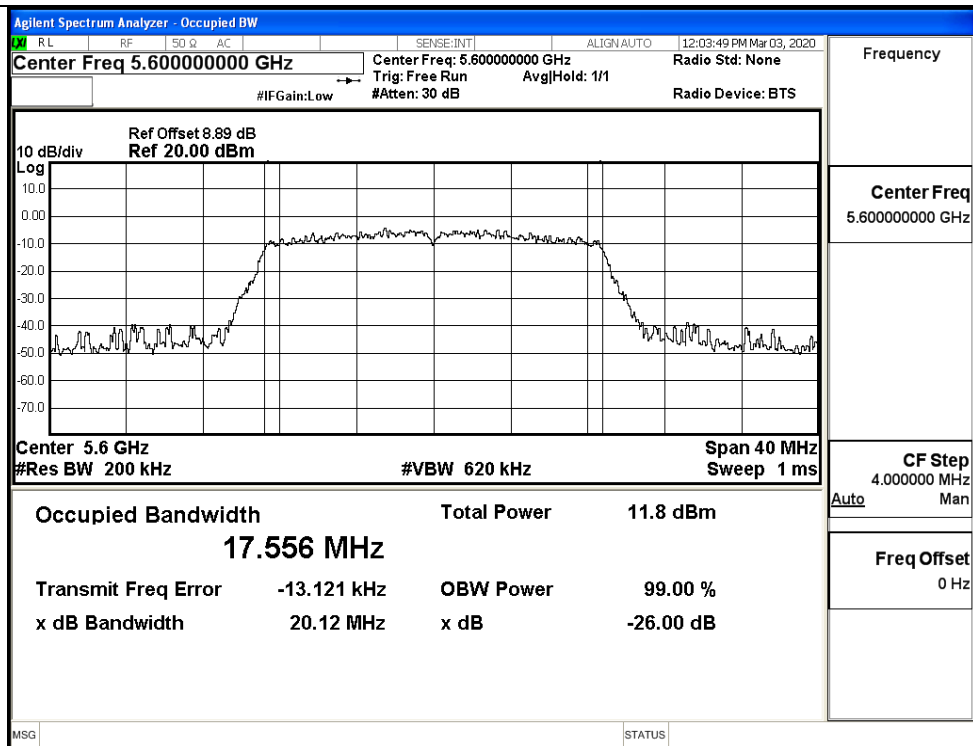


IEEE 802.11ac80 / Channel 122 / 5610MHz

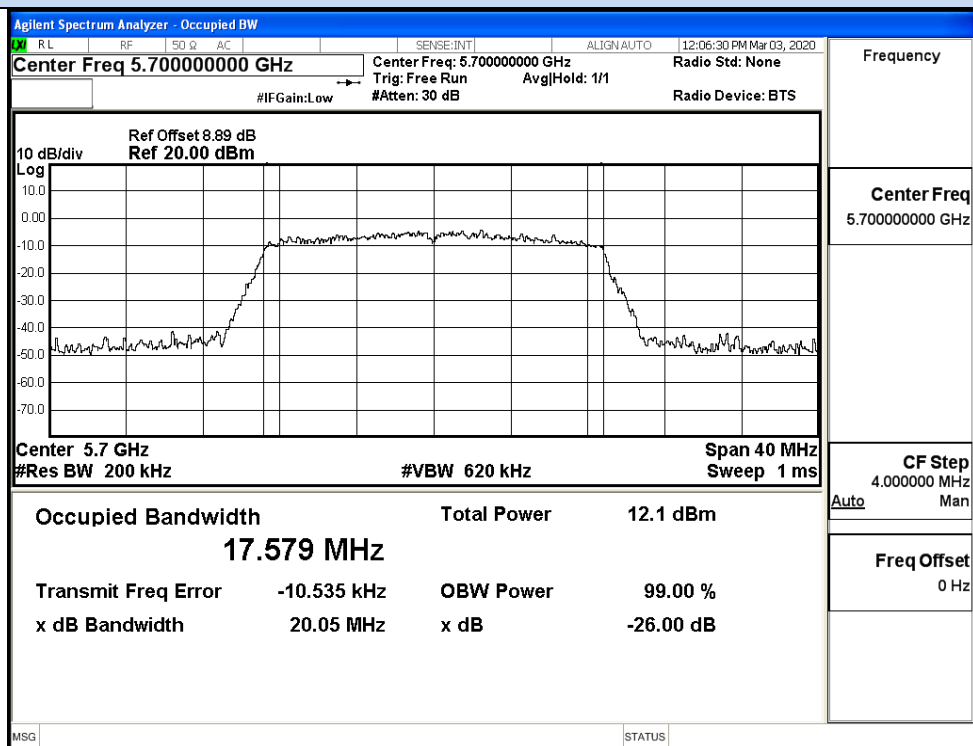
## G.4 Emission Bandwidth

| Test Mode   | Channel | Frequency (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |
|-------------|---------|-----------------|----------------------|-------------|---------|
| 11A         | 100     | 5500            | 19.74                | No Limit    | Pass    |
|             | 120     | 5600            | 20.12                |             | Pass    |
|             | 140     | 5700            | 20.05                |             | Pass    |
| 11N20 SISO  | 100     | 5500            | 20.01                | No Limit    | Pass    |
|             | 120     | 5600            | 20.03                |             | Pass    |
|             | 140     | 5700            | 20.01                |             | Pass    |
| 11N40 SISO  | 102     | 5510            | 40.23                | No Limit    | Pass    |
|             | 118     | 5590            | 39.89                |             | Pass    |
|             | 134     | 5670            | 40.71                |             | Pass    |
| 11AC20 SISO | 100     | 5500            | 19.96                | No Limit    | Pass    |
|             | 120     | 5600            | 20.04                |             | Pass    |
|             | 140     | 5700            | 19.90                |             | Pass    |
| 11AC40 SISO | 102     | 5510            | 40.16                | No Limit    | Pass    |
|             | 118     | 5590            | 40.11                |             | Pass    |
|             | 134     | 5670            | 40.08                |             | Pass    |
| 11AC80 SISO | 106     | 5530            | 81.05                | No Limit    | Pass    |
|             | 122     | 5610            | 80.35                |             | Pass    |



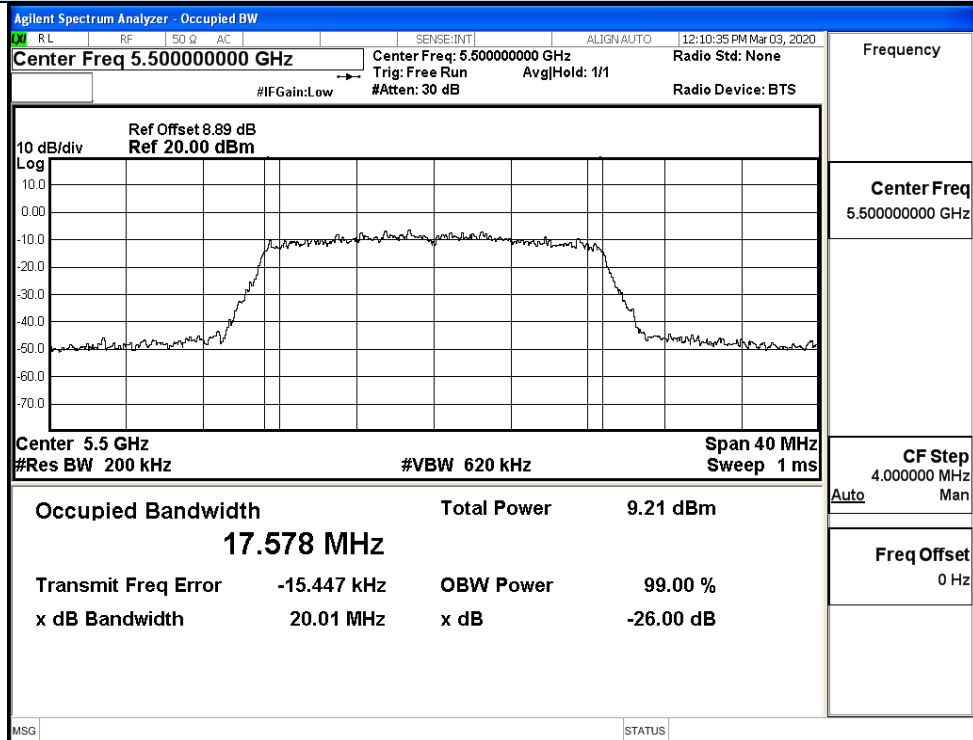


IEEE 802.11a / Channel 120 / 5600MHz

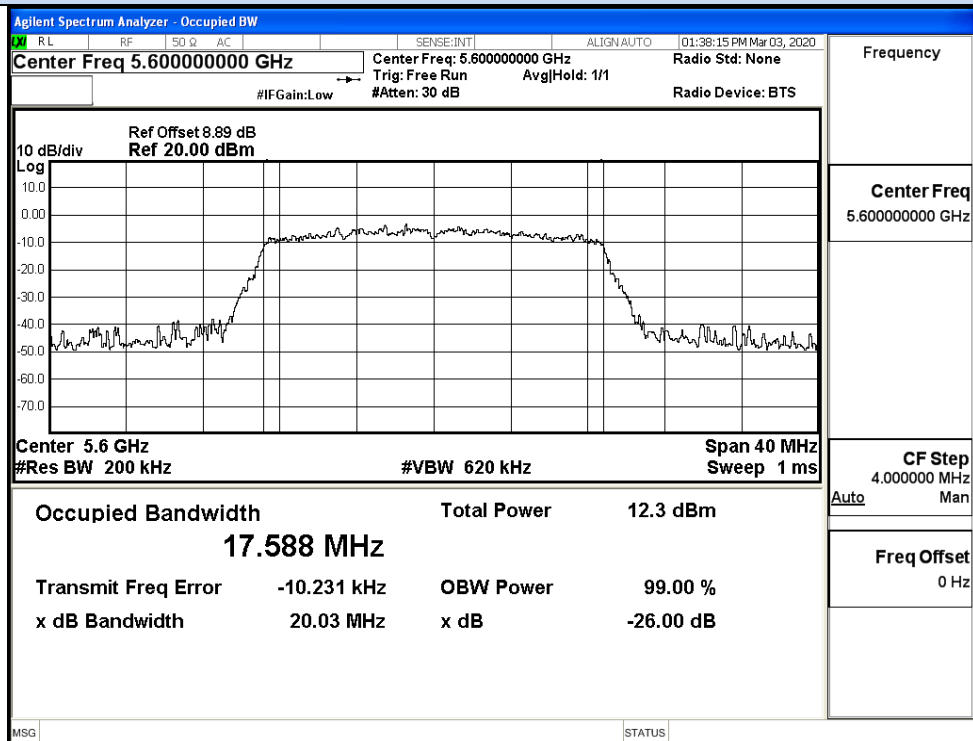


IEEE 802.11a / Channel 140 / 5700MHz

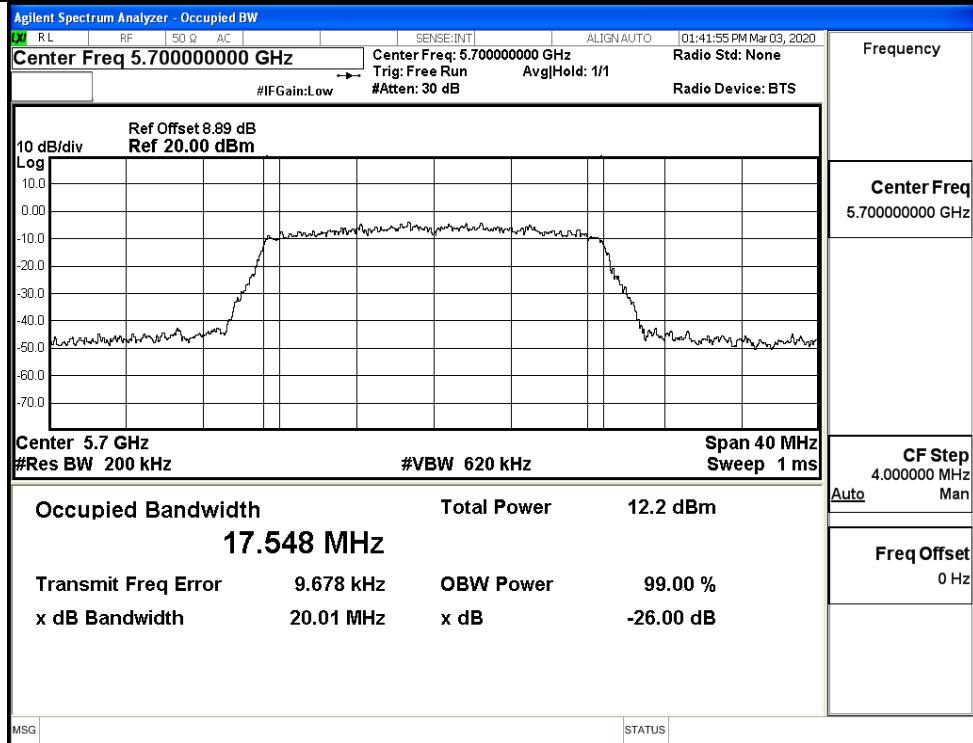
## 26dB Bandwidth



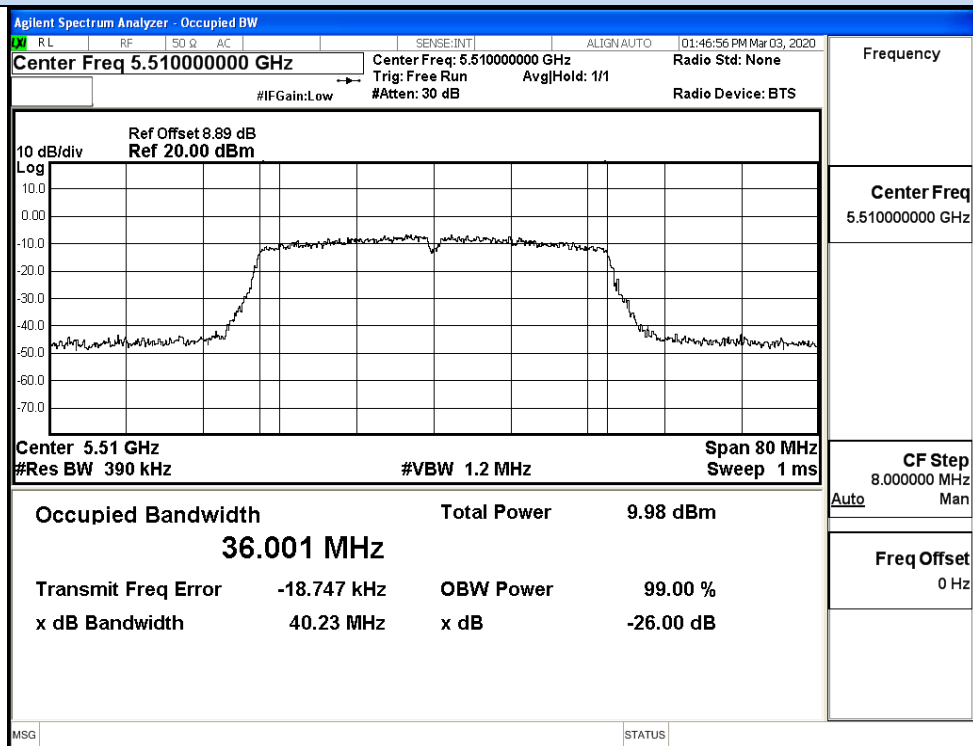
## IEEE 802.11n20 / Channel 100 / 5500MHz



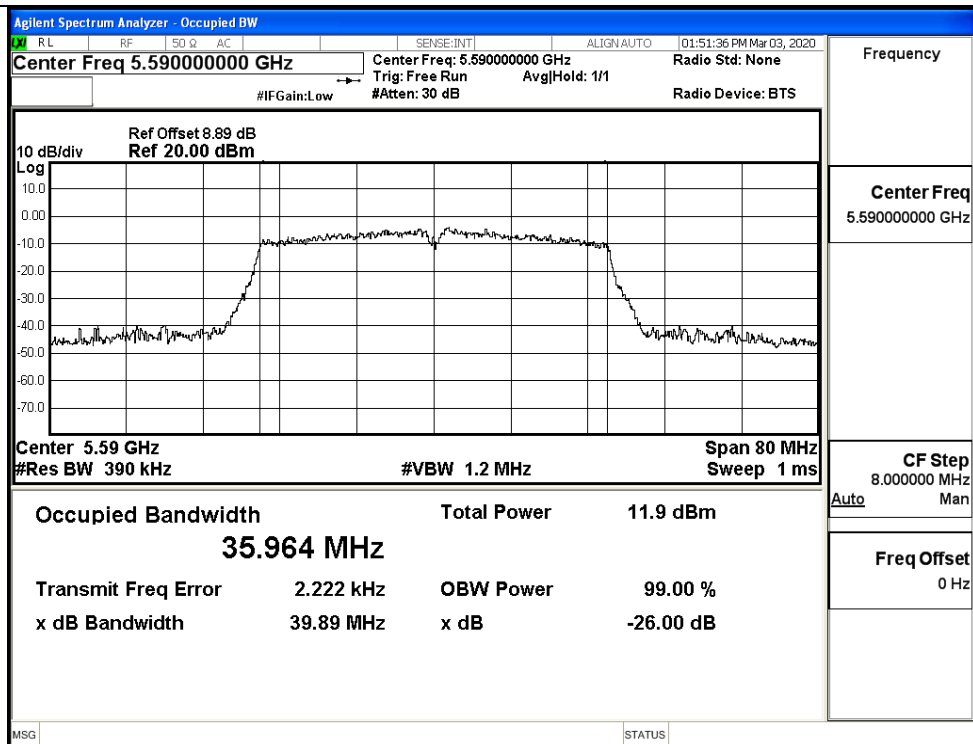
## IEEE 802.11n20 / Channel 120 / 5600MHz



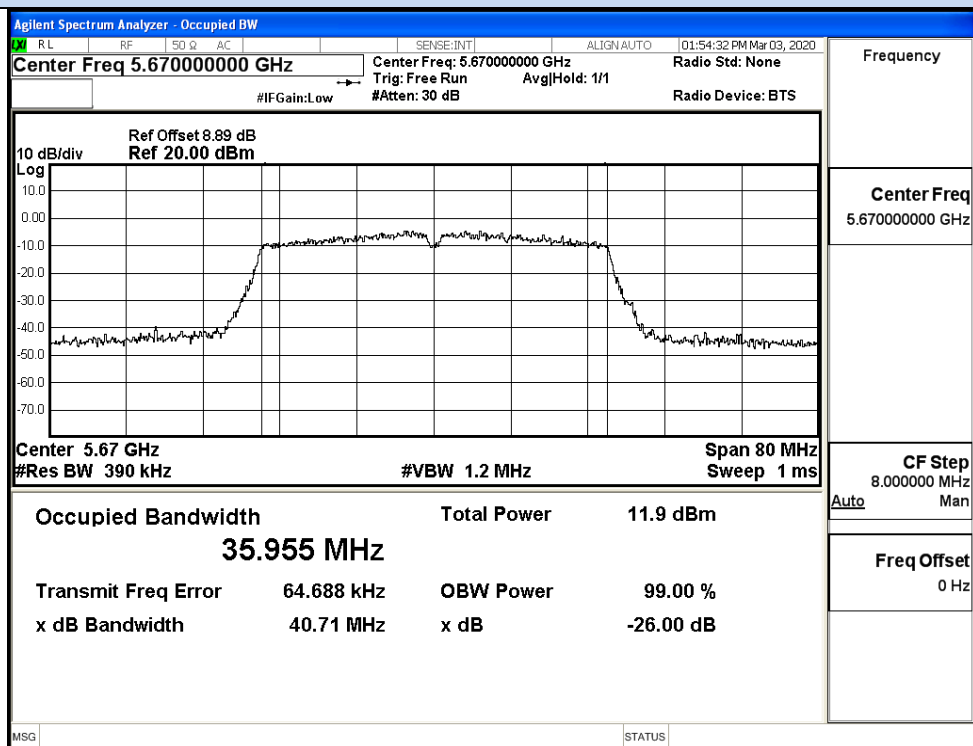
IEEE 802.11n20 / Channel 140 / 5700MHz



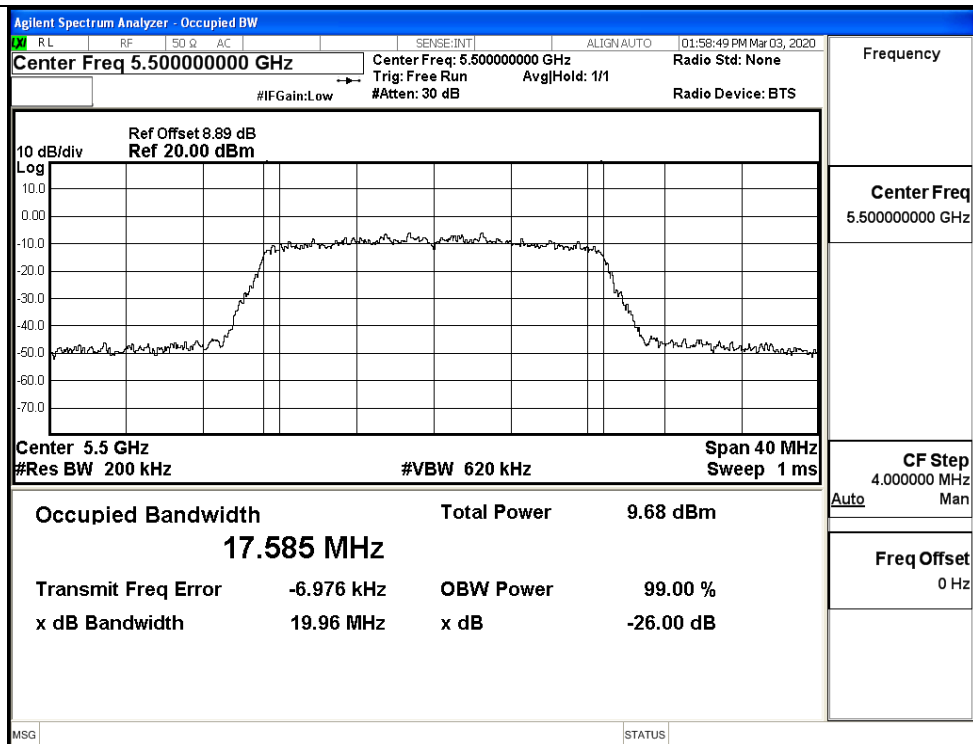
IEEE 802.11n40 / Channel 102 / 5510MHz



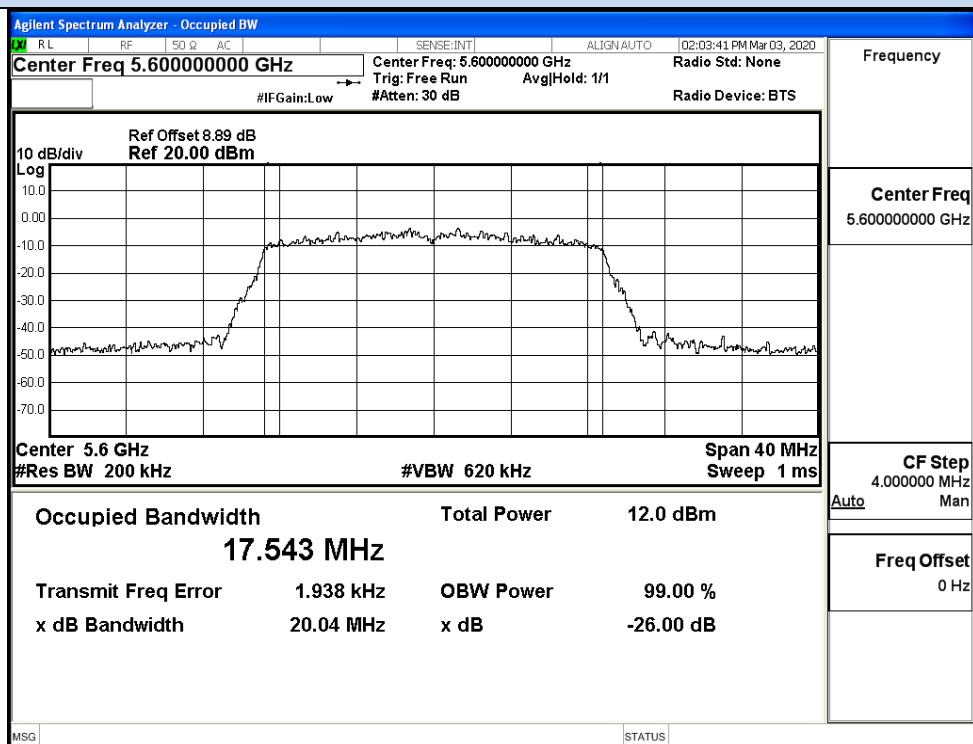
IEEE 802.11n40 / Channel 118 / 5590MHz



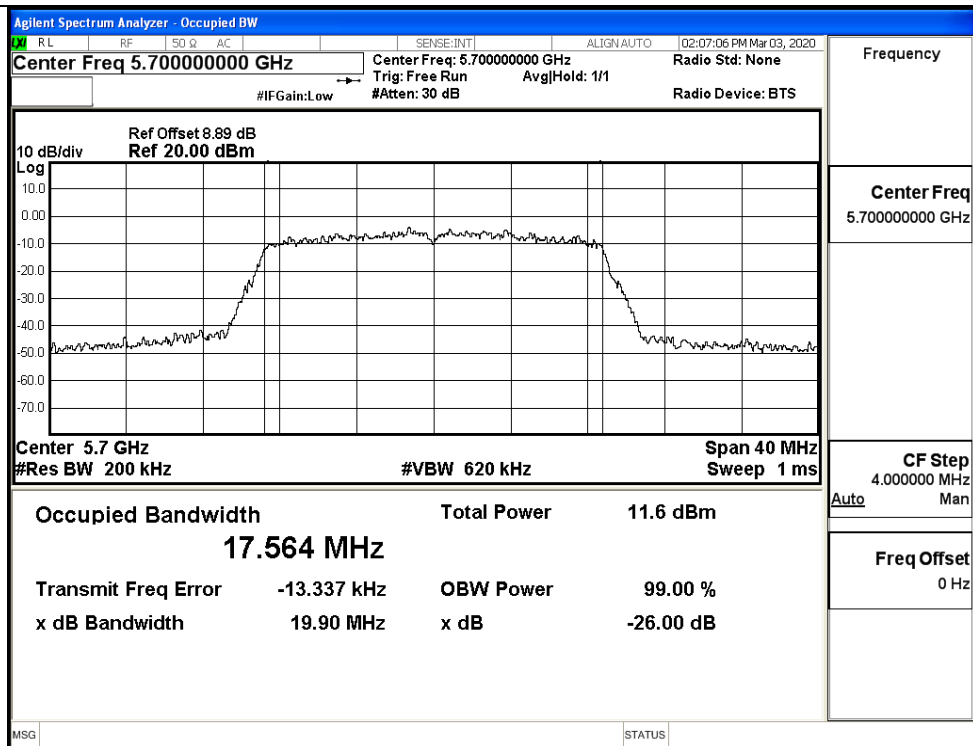
IEEE 802.11n40 / Channel 134 / 5670MHz



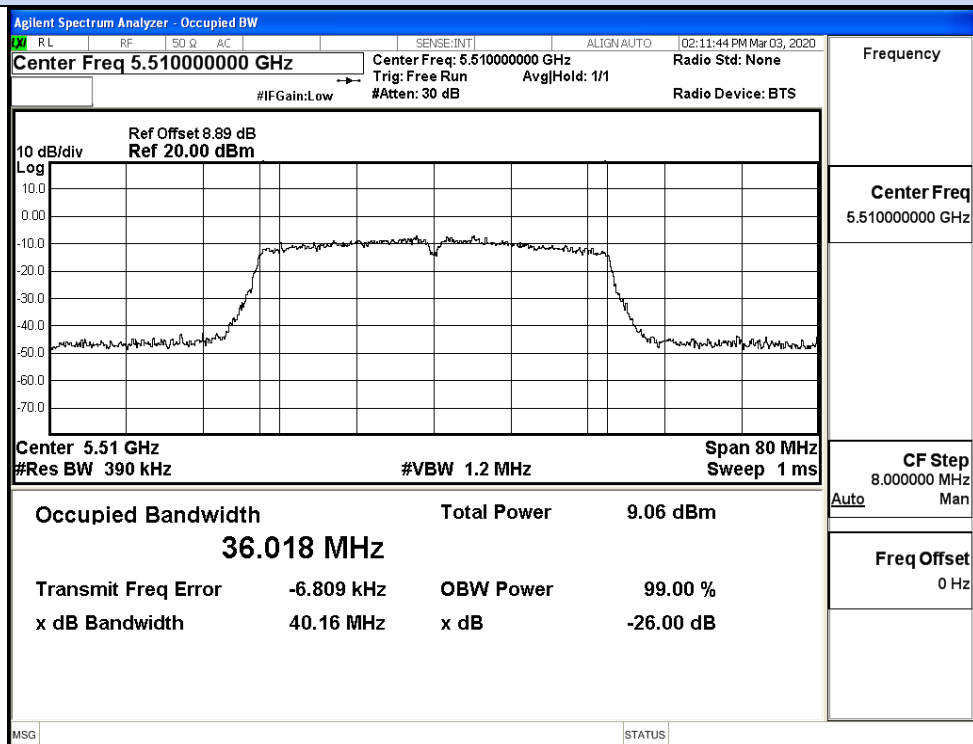
## IEEE 802.11ac20 / Channel 100 / 5500MHz



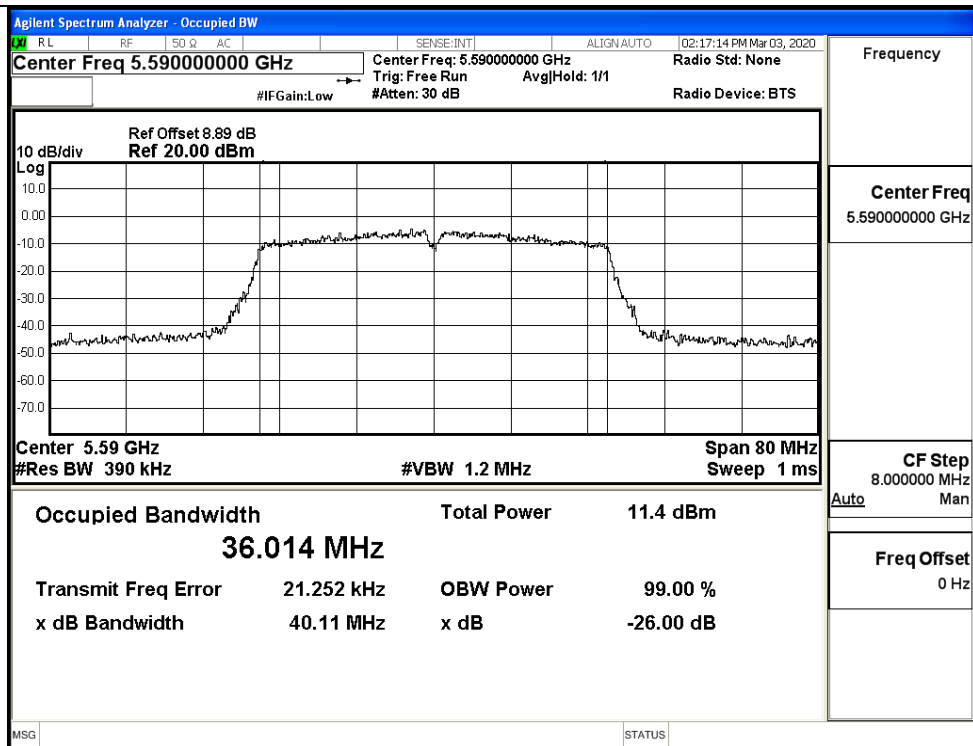
## IEEE 802.11ac20 / Channel 120 / 5600MHz



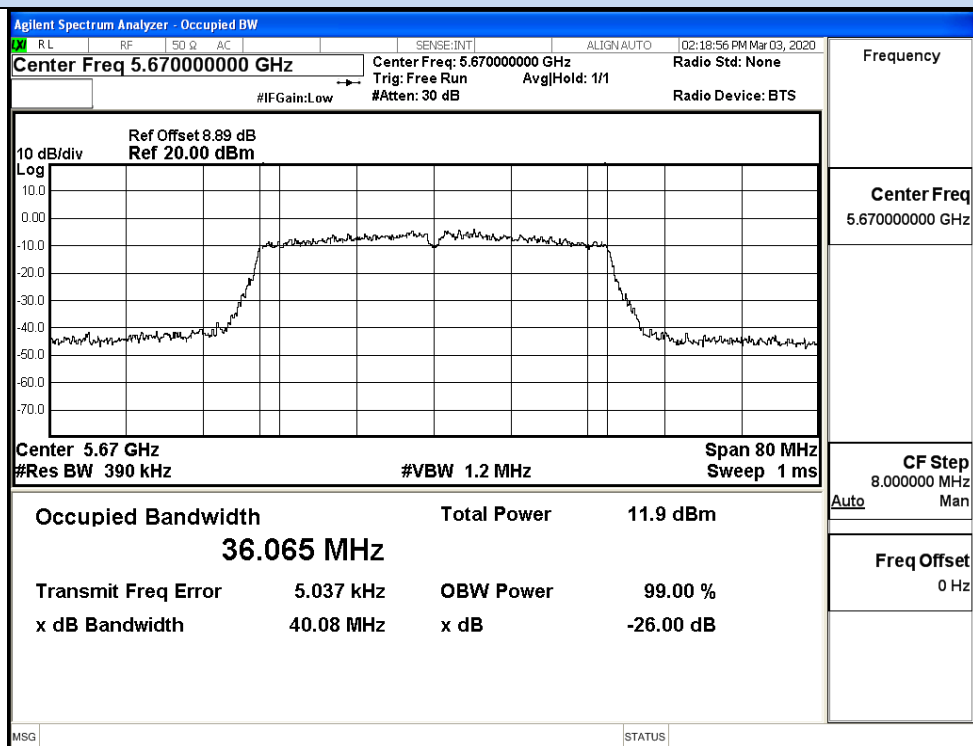
IEEE 802.11ac20 / Channel 140 / 5700MHz



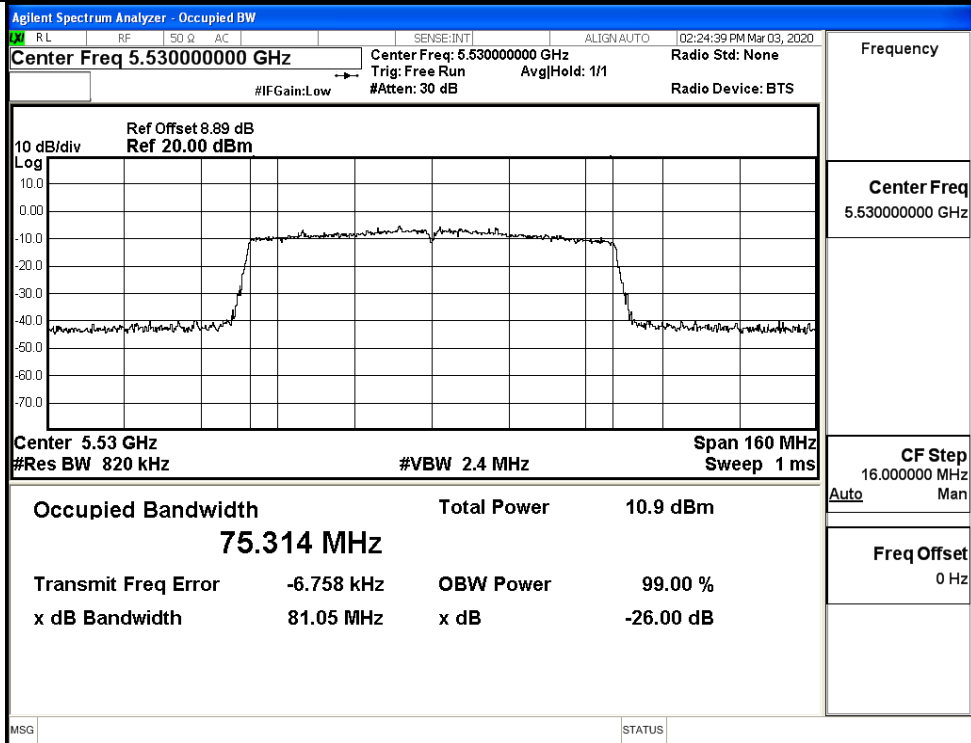
IEEE 802.11ac40 / Channel 102 / 5510MHz



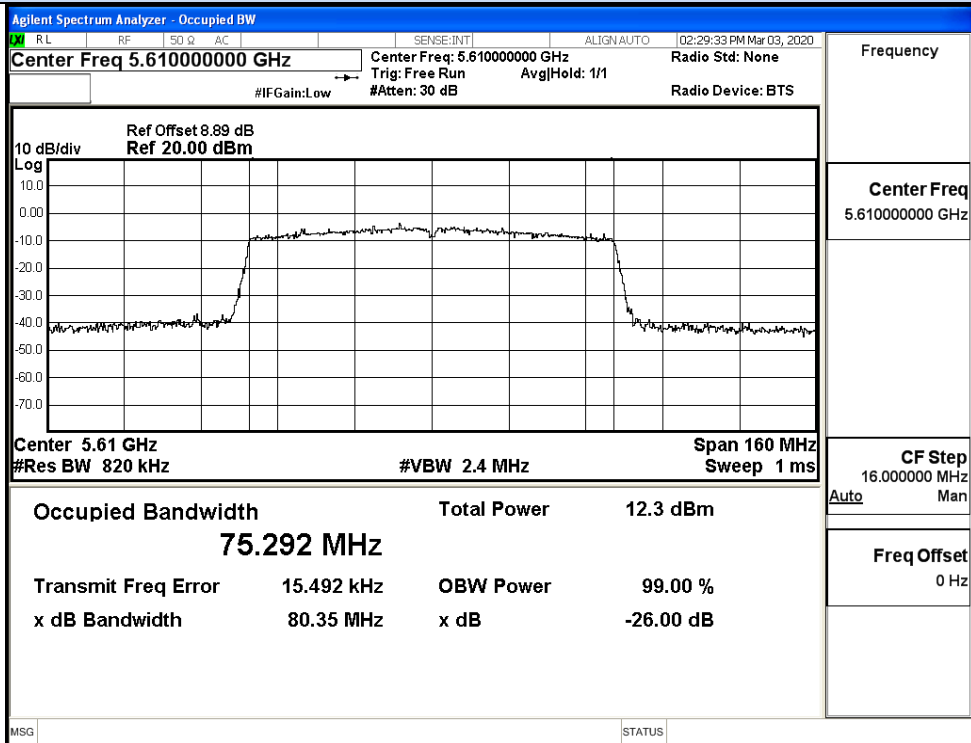
IEEE 802.11ac40 / Channel 118 / 5590MHz



IEEE 802.11ac40 / Channel 134 / 5670MHz

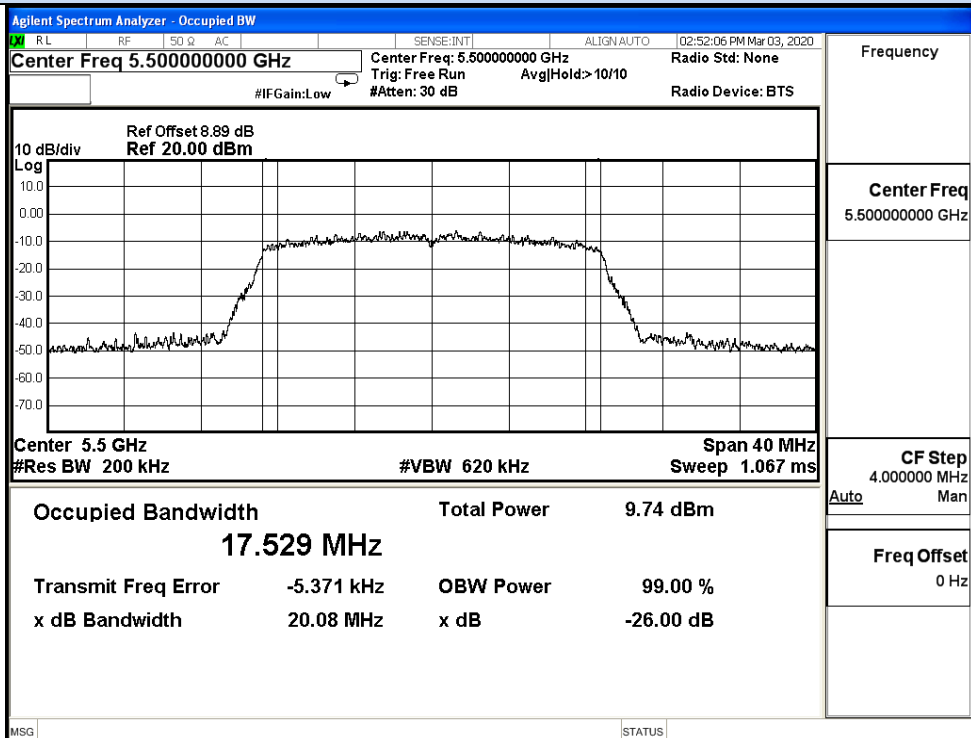


IEEE 802.11ac80 / Channel 106 / 5530MHz

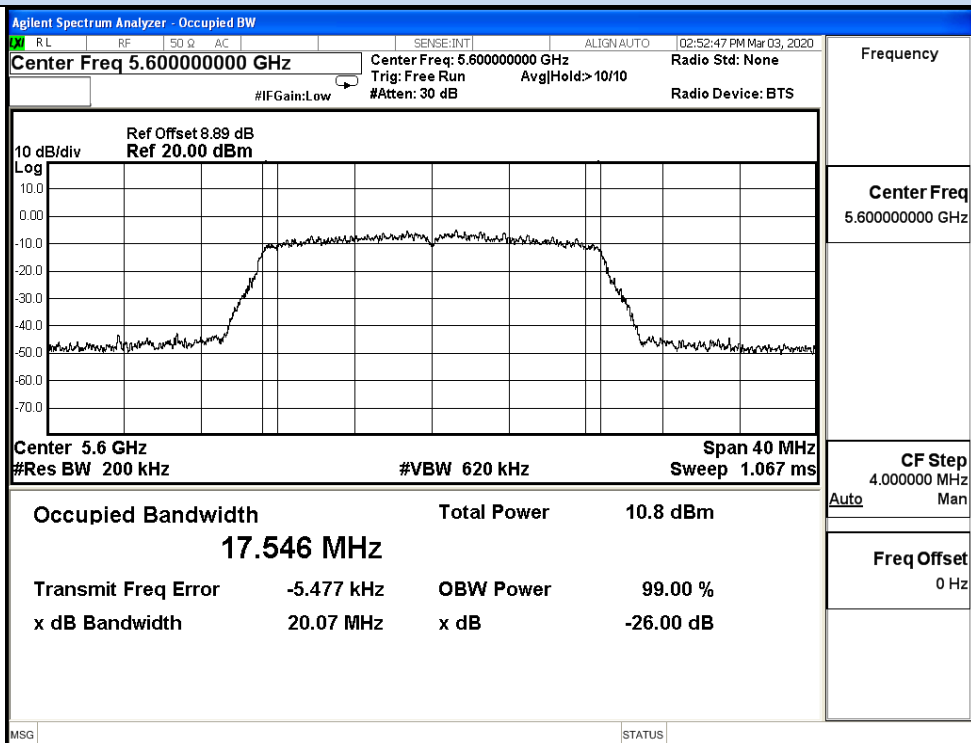


IEEE 802.11ac80 / Channel 122 / 5610MHz

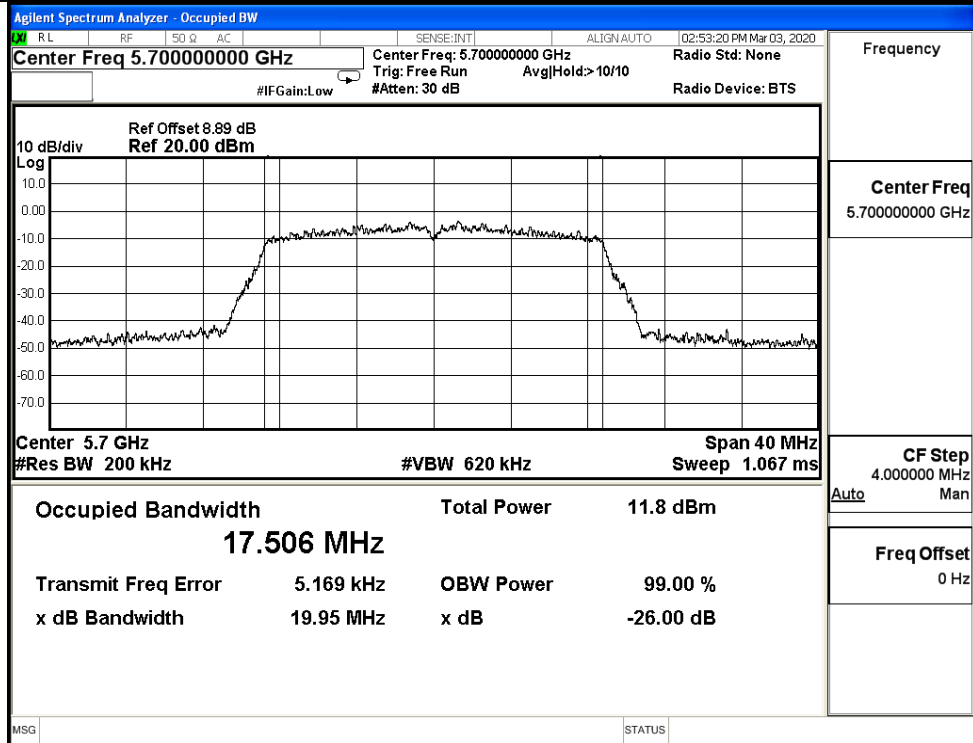
## 99% Occupied Bandwidth



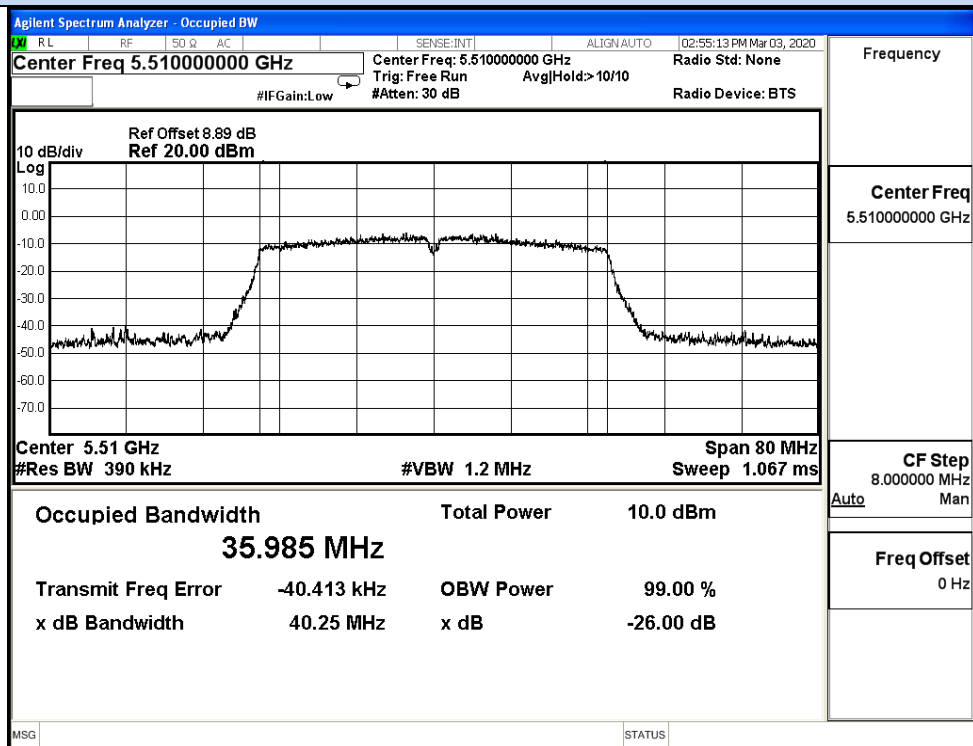
## IEEE 802.11n20 / Channel 100 / 5500MHz



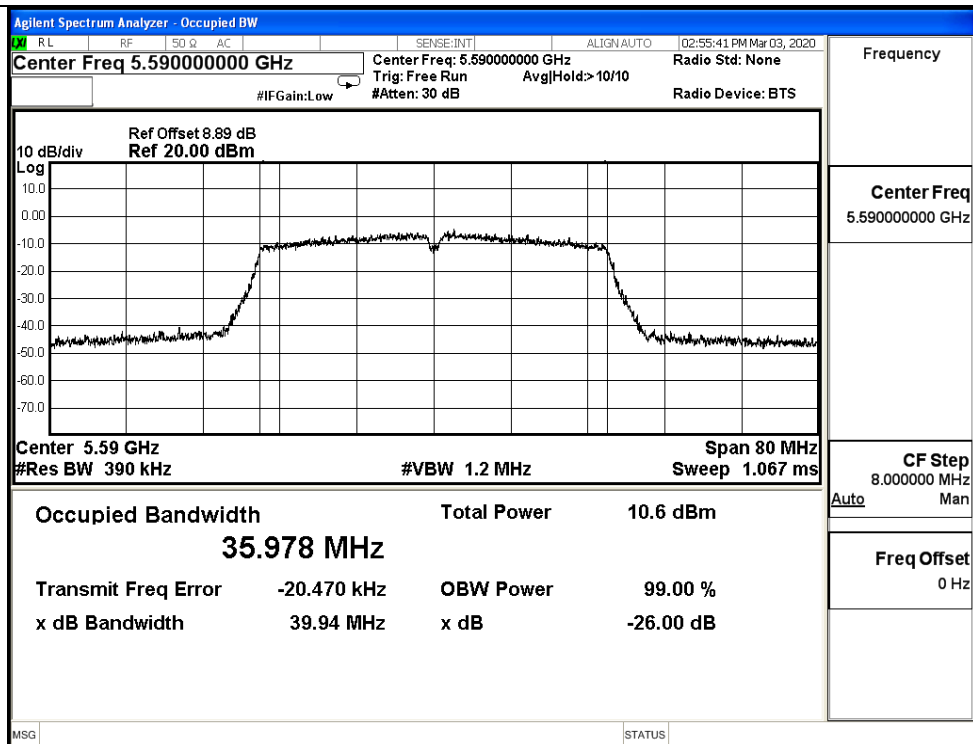
## IEEE 802.11n20 / Channel 120 / 5600MHz



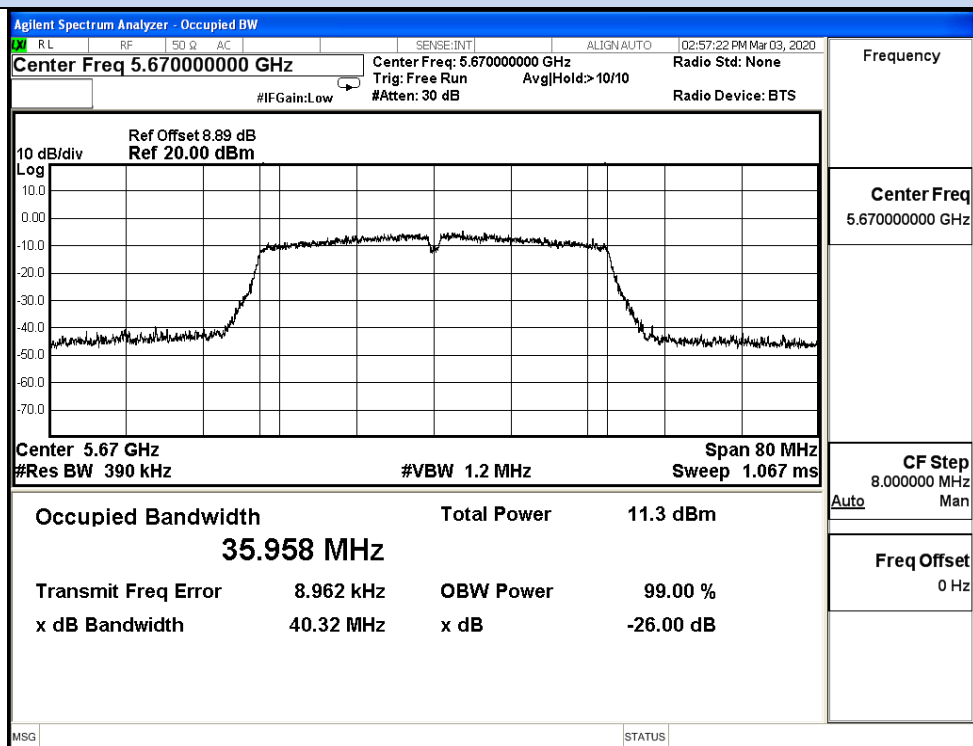
IEEE 802.11n20 / Channel 140 / 5700MHz



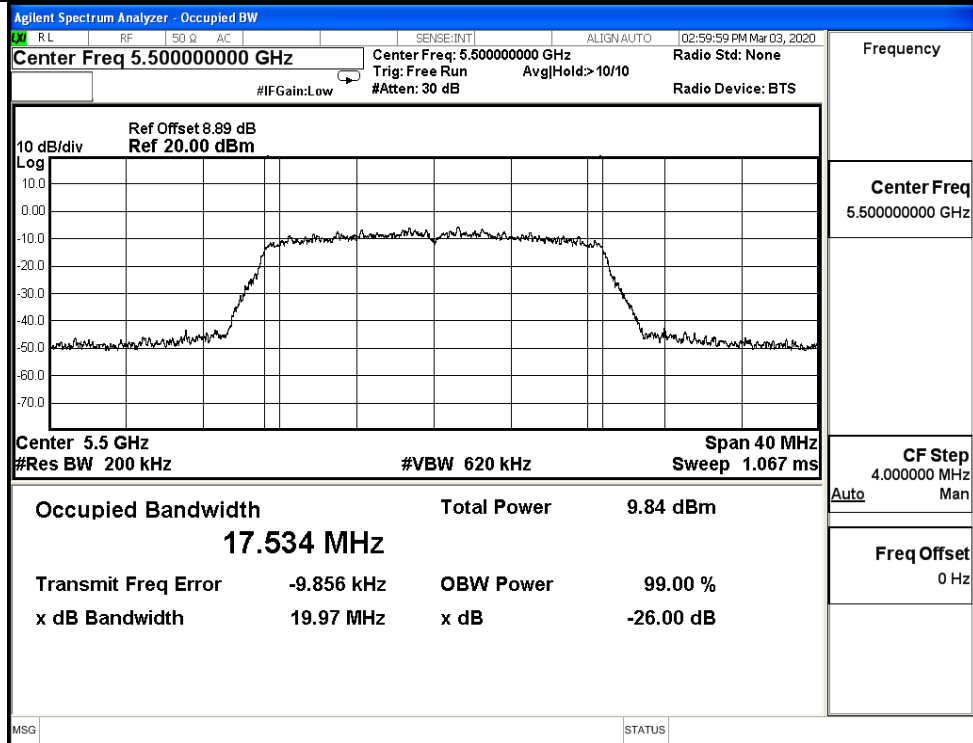
IEEE 802.11n40 / Channel 102 / 5510MHz



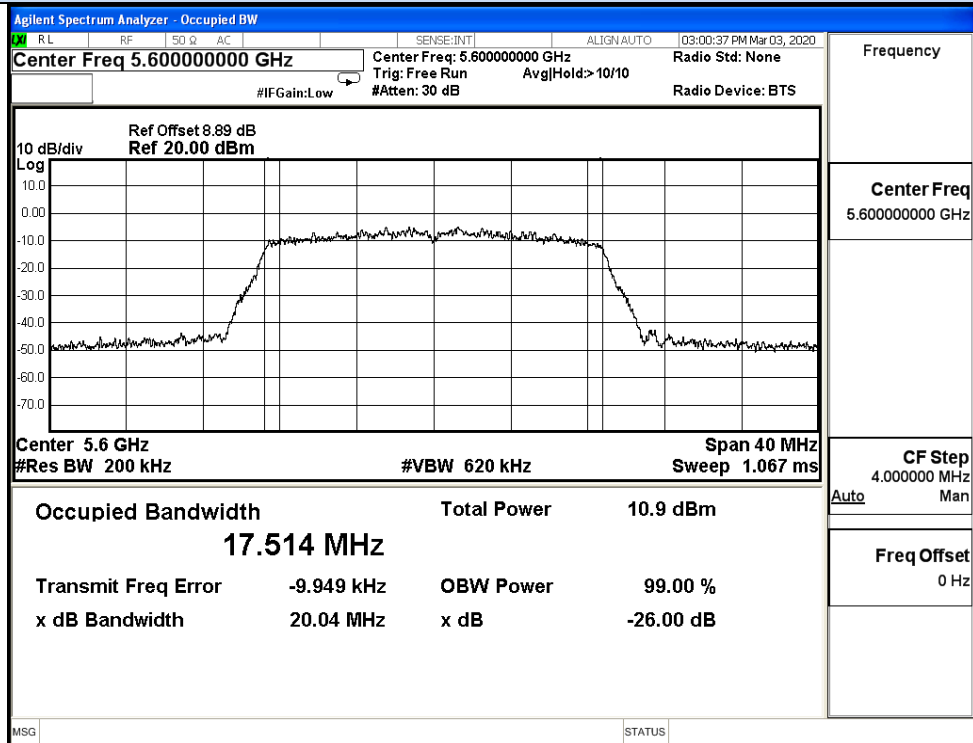
IEEE 802.11n40 / Channel 118 / 5590MHz



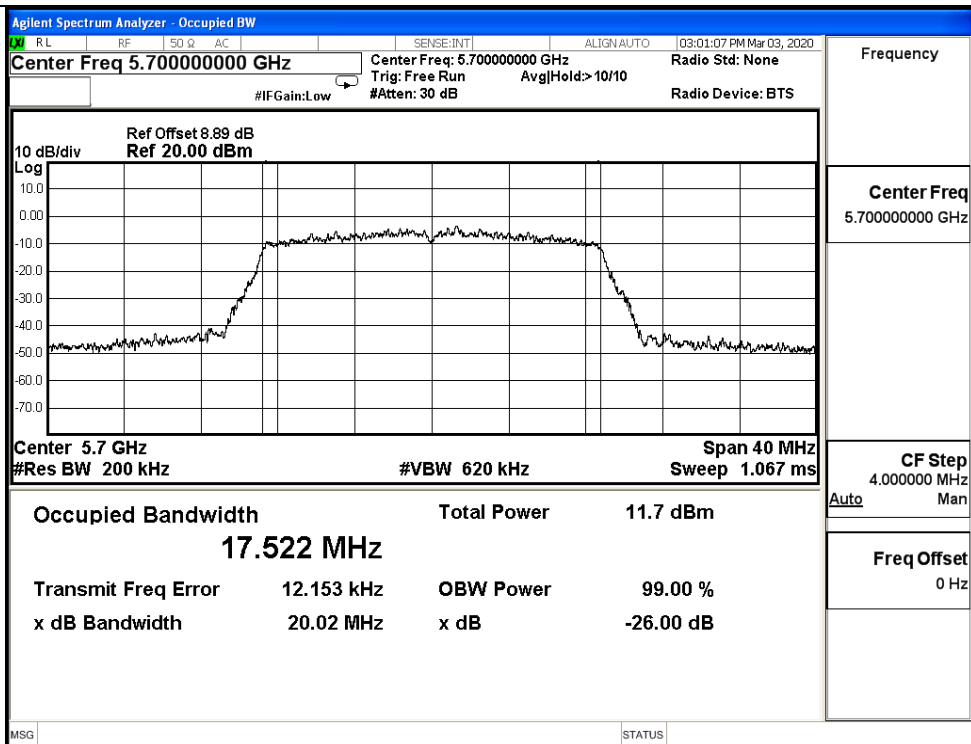
IEEE 802.11n40 / Channel 134 / 5670MHz



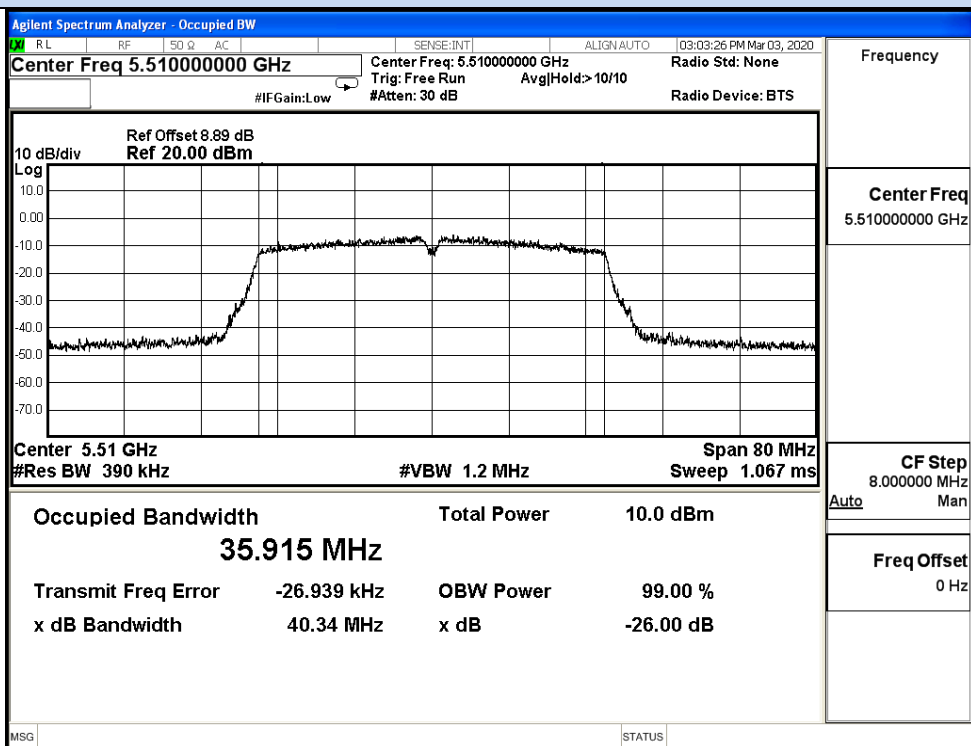
IEEE 802.11ac20 / Channel 100 / 5500MHz



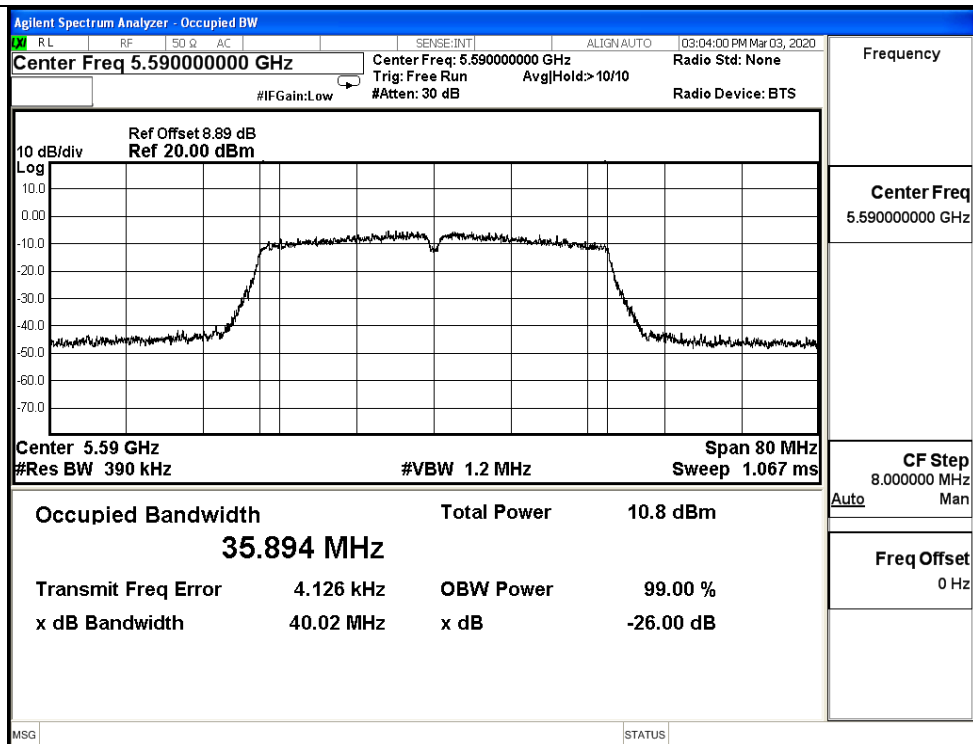
IEEE 802.11ac20 / Channel 120 / 5600MHz



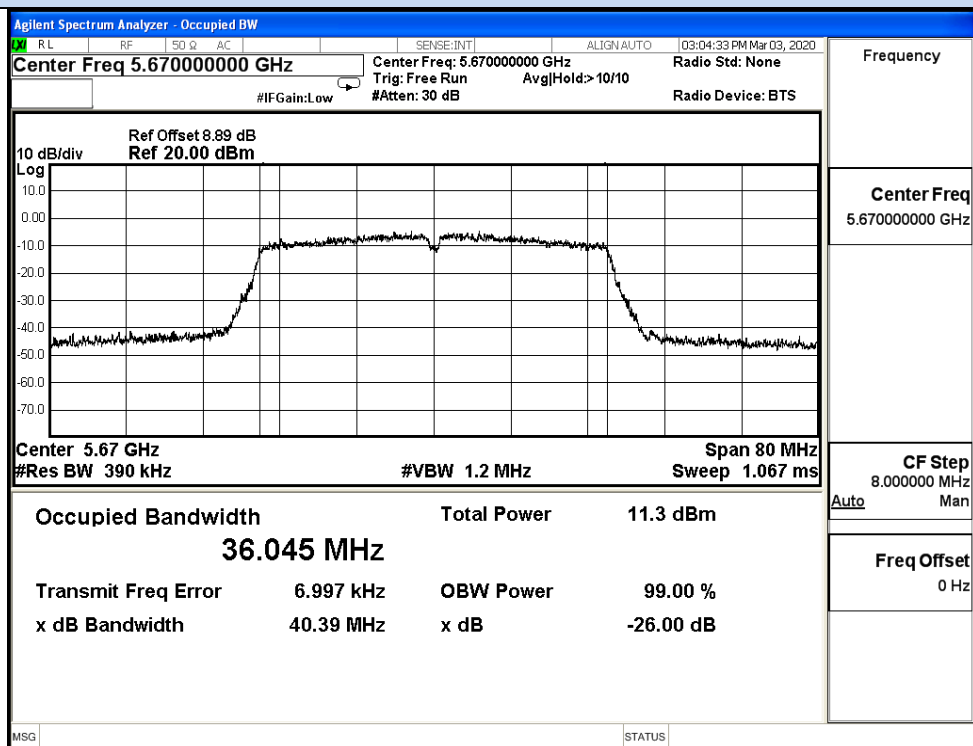
IEEE 802.11ac20 / Channel 140 / 5700MHz



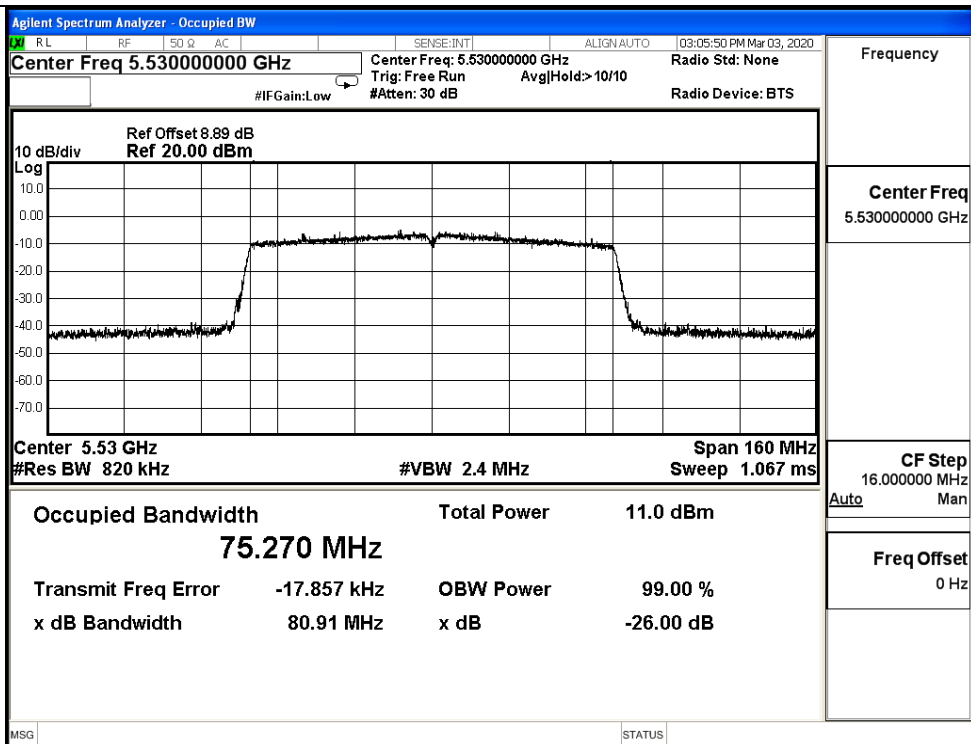
IEEE 802.11ac40 / Channel 102 / 5510MHz



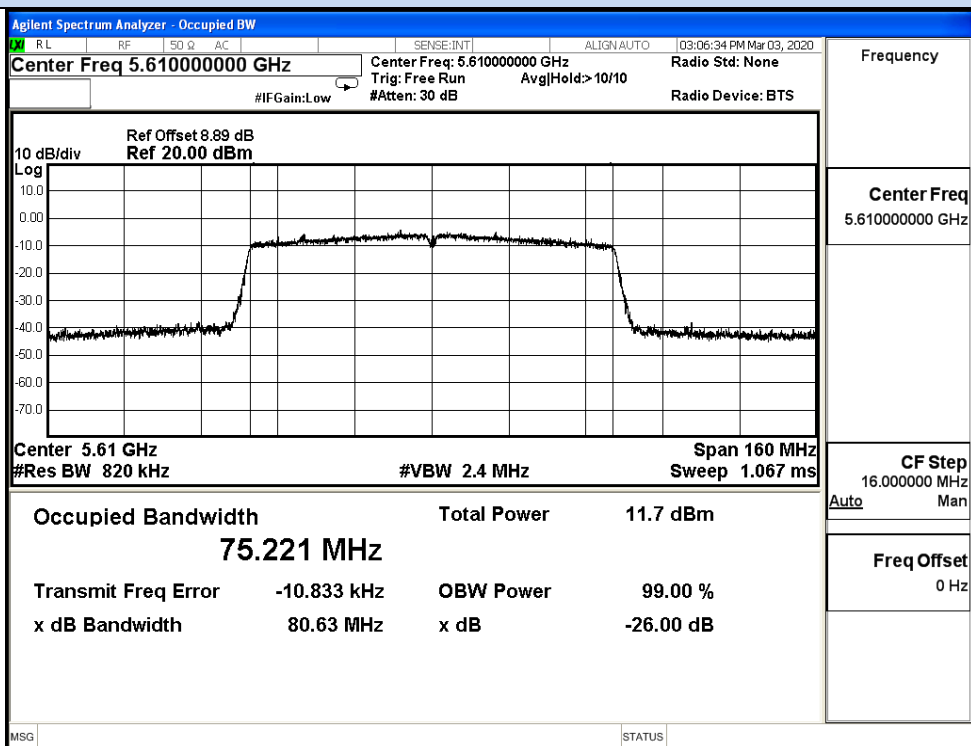
IEEE 802.11ac40 / Channel 118 / 5590MHz



IEEE 802.11ac40 / Channel 134 / 5670MHz



IEEE 802.11ac80 / Channel 106 / 5530MHz



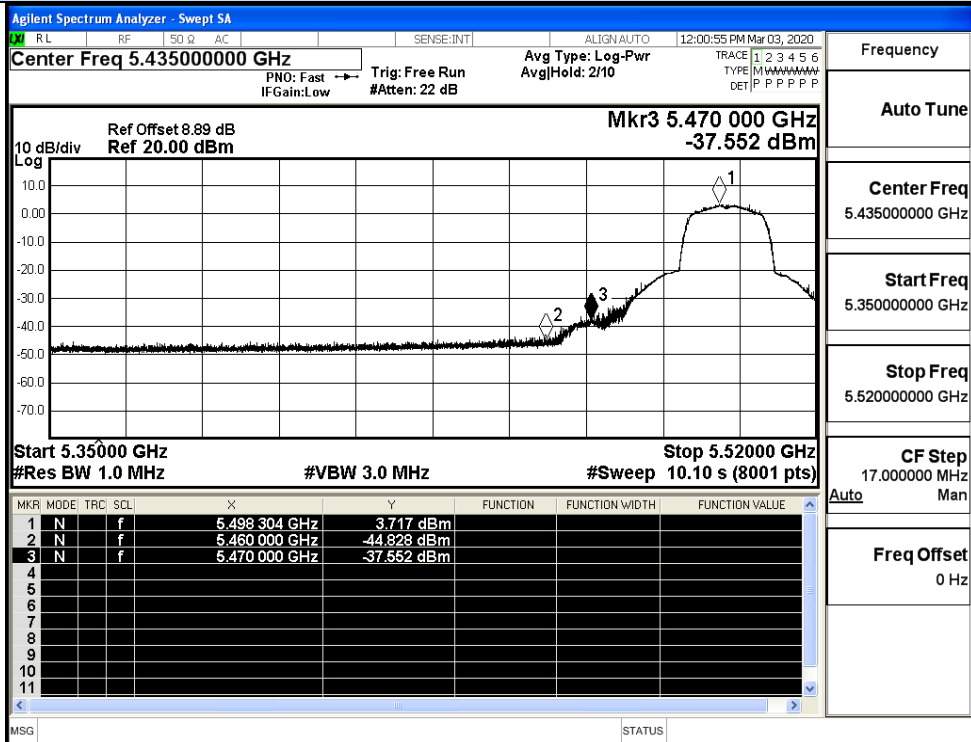
IEEE 802.11ac80 / Channel 122 / 5610MHz

## G.5 Undesirable Emissions Measurement

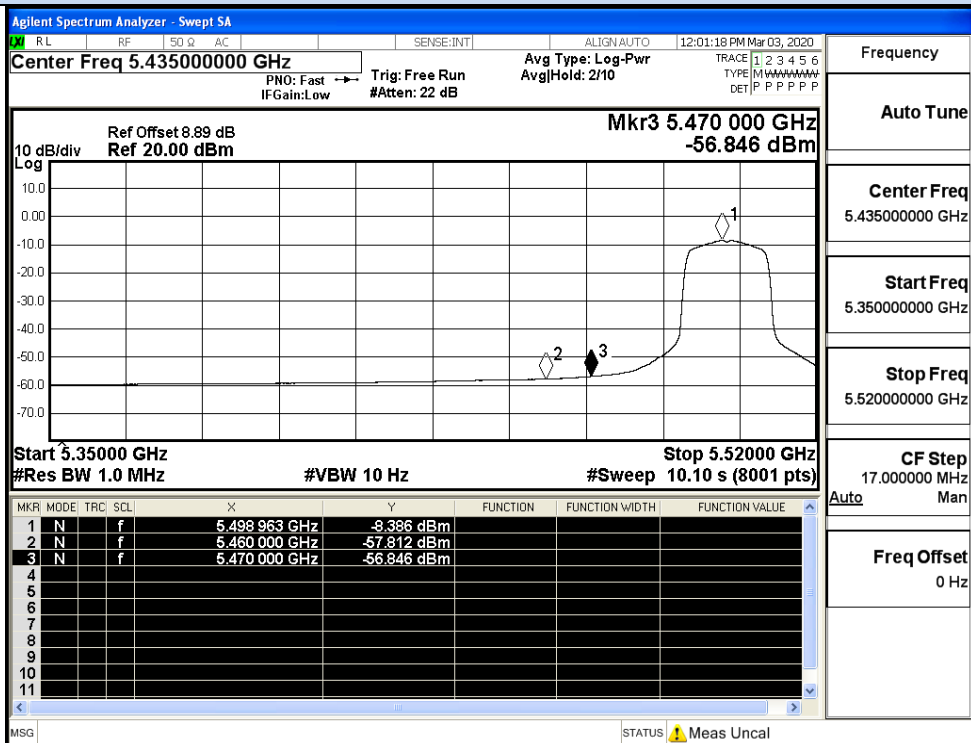
| Test Mode              | Channel | Frequency (MHz) | Conducted Power (dBm) | Antenna Gain (dBi) | Ground Reflection Factor (dB) | Covert Radiated E Level At 3m (dBuV/m) | Detector | Limit (dBuV/m) | Verdict |
|------------------------|---------|-----------------|-----------------------|--------------------|-------------------------------|----------------------------------------|----------|----------------|---------|
| 11A                    | 100     | 5460.0          | -44.83                | 2.00               | 0                             | 52.4                                   | Peak     | 68.20          | Pass    |
|                        |         | 5460.0          | -57.81                | 2.00               | 0                             | 39.42                                  | Average  | 54.00          | Pass    |
|                        |         | 5470.0          | -37.55                | 2.00               | 0                             | 59.68                                  | Peak     | 68.20          | Pass    |
|                        |         | 5470.0          | -56.85                | 2.00               | 0                             | 40.38                                  | Average  | 54.00          | Pass    |
|                        | 140     | 5725.0          | -35.11                | 2.00               | 0                             | 62.12                                  | Peak     | 68.20          | Pass    |
|                        |         | 5725.0          | -55.45                | 2.00               | 0                             | 41.78                                  | Average  | 54.00          | Pass    |
|                        |         | 5735.0          | -46.67                | 2.00               | 0                             | 50.56                                  | Peak     | 68.20          | Pass    |
|                        |         | 5735.0          | -56.41                | 2.00               | 0                             | 40.82                                  | Average  | 54.00          | Pass    |
| 11N2<br>0<br>SISO      | 100     | 5460.0          | -47.44                | 2.00               | 0                             | 49.79                                  | Peak     | 68.20          | Pass    |
|                        |         | 5460.0          | -58.92                | 2.00               | 0                             | 38.31                                  | Average  | 54.00          | Pass    |
|                        |         | 5470.0          | -42.93                | 2.00               | 0                             | 54.3                                   | Peak     | 68.20          | Pass    |
|                        |         | 5470.0          | -58.38                | 2.00               | 0                             | 38.85                                  | Average  | 54.00          | Pass    |
|                        | 140     | 5725.0          | -42.89                | 2.00               | 0                             | 54.34                                  | Peak     | 68.20          | Pass    |
|                        |         | 5725.0          | -55.35                | 2.00               | 0                             | 41.88                                  | Average  | 54.00          | Pass    |
|                        |         | 5735.0          | -46.33                | 2.00               | 0                             | 50.9                                   | Peak     | 68.20          | Pass    |
|                        |         | 5735.0          | -56.43                | 2.00               | 0                             | 40.8                                   | Average  | 54.00          | Pass    |
| 11N4<br>0<br>SISO      | 102     | 5460.0          | -47.05                | 2.00               | 0                             | 50.18                                  | Peak     | 68.20          | Pass    |
|                        |         | 5460.0          | -58.11                | 2.00               | 0                             | 39.12                                  | Average  | 54.00          | Pass    |
|                        |         | 5470.0          | -43.55                | 2.00               | 0                             | 53.68                                  | Peak     | 68.20          | Pass    |
|                        |         | 5470.0          | -57.37                | 2.00               | 0                             | 39.86                                  | Average  | 54.00          | Pass    |
|                        | 134     | 5725.0          | -45.91                | 2.00               | 0                             | 51.32                                  | Peak     | 68.20          | Pass    |
|                        |         | 5725.0          | -56.26                | 2.00               | 0                             | 40.97                                  | Average  | 54.00          | Pass    |
|                        |         | 5735.0          | -46.39                | 2.00               | 0                             | 50.84                                  | Peak     | 68.20          | Pass    |
|                        |         | 5735.0          | -56.60                | 2.00               | 0                             | 40.63                                  | Average  | 54.00          | Pass    |
| 11A<br>C20<br>SIS<br>O | 100     | 5460.0          | -47.11                | 2.00               | 0                             | 50.12                                  | Peak     | 68.20          | Pass    |
|                        |         | 5460.0          | -58.33                | 2.00               | 0                             | 38.9                                   | Average  | 54.00          | Pass    |
|                        |         | 5470.0          | -46.98                | 2.00               | 0                             | 50.25                                  | Peak     | 68.20          | Pass    |
|                        |         | 5470.0          | -57.82                | 2.00               | 0                             | 39.41                                  | Average  | 54.00          | Pass    |
|                        | 140     | 5725.0          | -44.73                | 2.00               | 0                             | 52.5                                   | Peak     | 68.20          | Pass    |
|                        |         | 5725.0          | -56.22                | 2.00               | 0                             | 41.01                                  | Average  | 54.00          | Pass    |
|                        |         | 5735.0          | -46.39                | 2.00               | 0                             | 50.84                                  | Peak     | 68.20          | Pass    |
|                        |         | 5735.0          | -57.02                | 2.00               | 0                             | 40.21                                  | Average  | 54.00          | Pass    |
| 11A<br>C40<br>SIS<br>O | 102     | 5460.0          | -46.90                | 2.00               | 0                             | 50.33                                  | Peak     | 68.20          | Pass    |
|                        |         | 5460.0          | -58.78                | 2.00               | 0                             | 38.45                                  | Average  | 54.00          | Pass    |
|                        |         | 5470.0          | -46.77                | 2.00               | 0                             | 50.46                                  | Peak     | 68.20          | Pass    |
|                        |         | 5470.0          | -58.04                | 2.00               | 0                             | 39.19                                  | Average  | 54.00          | Pass    |
|                        | 134     | 5725.0          | -46.95                | 2.00               | 0                             | 50.28                                  | Peak     | 68.20          | Pass    |
|                        |         | 5725.0          | -56.11                | 2.00               | 0                             | 41.12                                  | Average  | 54.00          | Pass    |
|                        |         | 5735.0          | -45.70                | 2.00               | 0                             | 51.53                                  | Peak     | 68.20          | Pass    |
|                        |         | 5735.0          | -56.48                | 2.00               | 0                             | 40.75                                  | Average  | 54.00          | Pass    |
| 11A<br>C80<br>SIS<br>O | 106     | 5460.0          | -46.82                | 2.00               | 0                             | 50.41                                  | Peak     | 68.20          | Pass    |
|                        |         | 5460.0          | -57.21                | 2.00               | 0                             | 40.02                                  | Average  | 54.00          | Pass    |
|                        |         | 5470.0          | -42.79                | 2.00               | 0                             | 54.44                                  | Peak     | 68.20          | Pass    |
|                        |         | 5470.0          | -56.09                | 2.00               | 0                             | 41.14                                  | Average  | 54.00          | Pass    |

|                        |     |        |        |      |   |       |         |       |      |
|------------------------|-----|--------|--------|------|---|-------|---------|-------|------|
| 11A<br>C80<br>SIS<br>O | 122 | 5725.0 | -46.21 | 2.00 | 0 | 51.02 | Peak    | 68.20 | Pass |
|                        |     | 5725.0 | -59.59 | 2.00 | 0 | 37.64 | Average | 54.00 | Pass |
|                        |     | 5735.0 | -48.29 | 2.00 | 0 | 48.94 | Peak    | 68.20 | Pass |
|                        |     | 5735.0 | -59.73 | 2.00 | 0 | 37.50 | Average | 54.00 | Pass |

## Undesirable Emissions Measurement

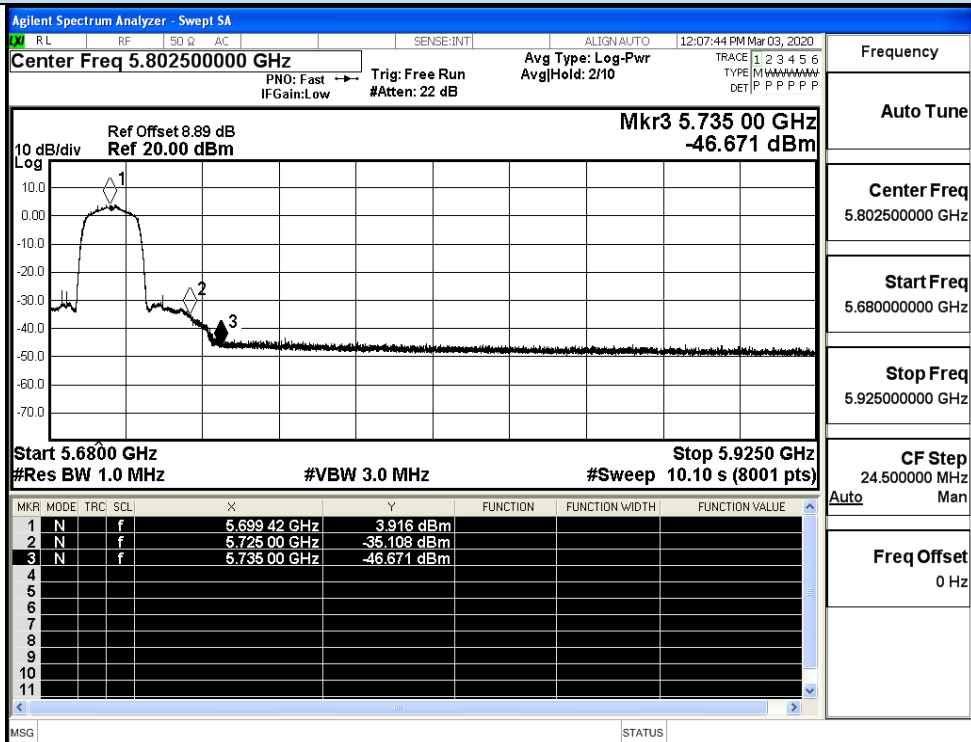


## IEEE 802.11a / Channel 100 / 5500MHz / Peak

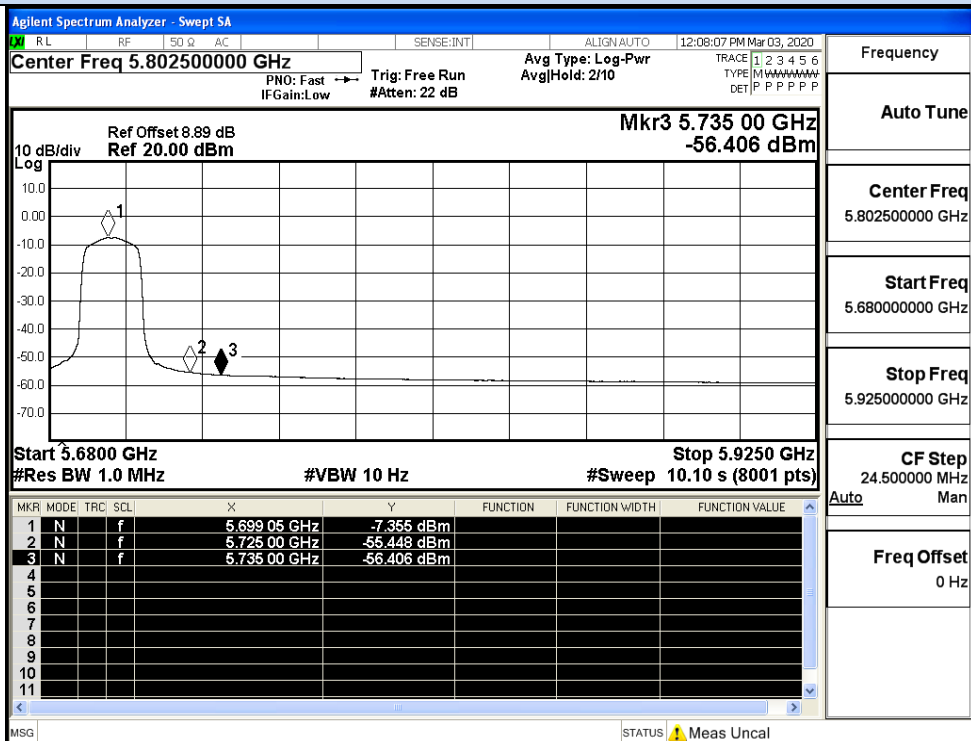


## IEEE 802.11a / Channel 100 / 5500MHz / Average

## Undesirable Emissions Measurement

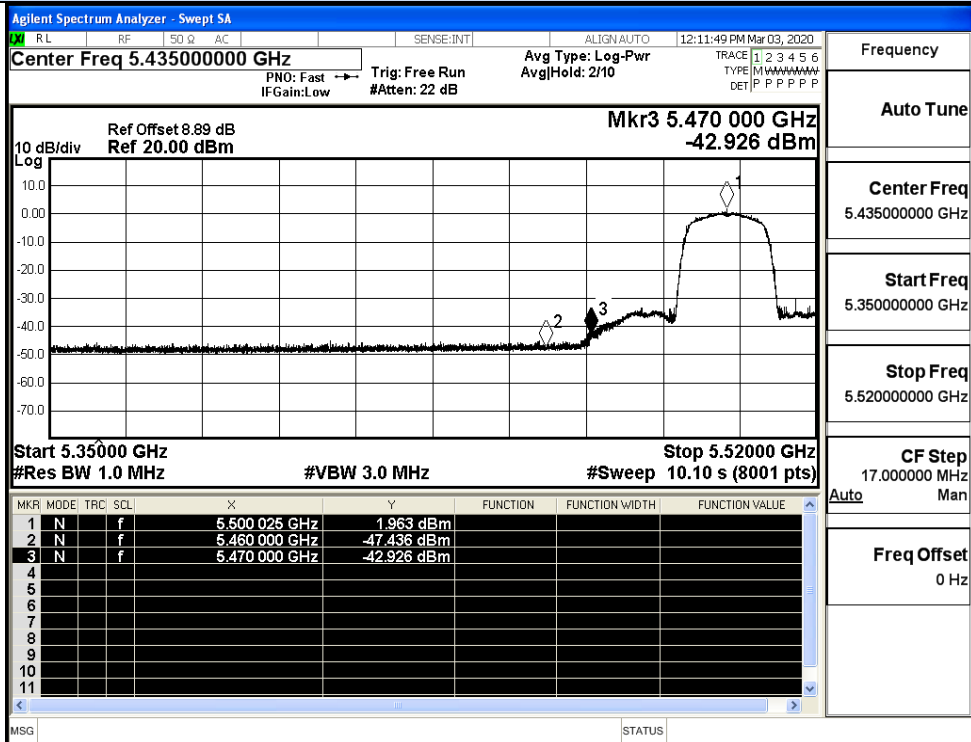


## IEEE 802.11a / Channel 140 / 5700MHz / Peak

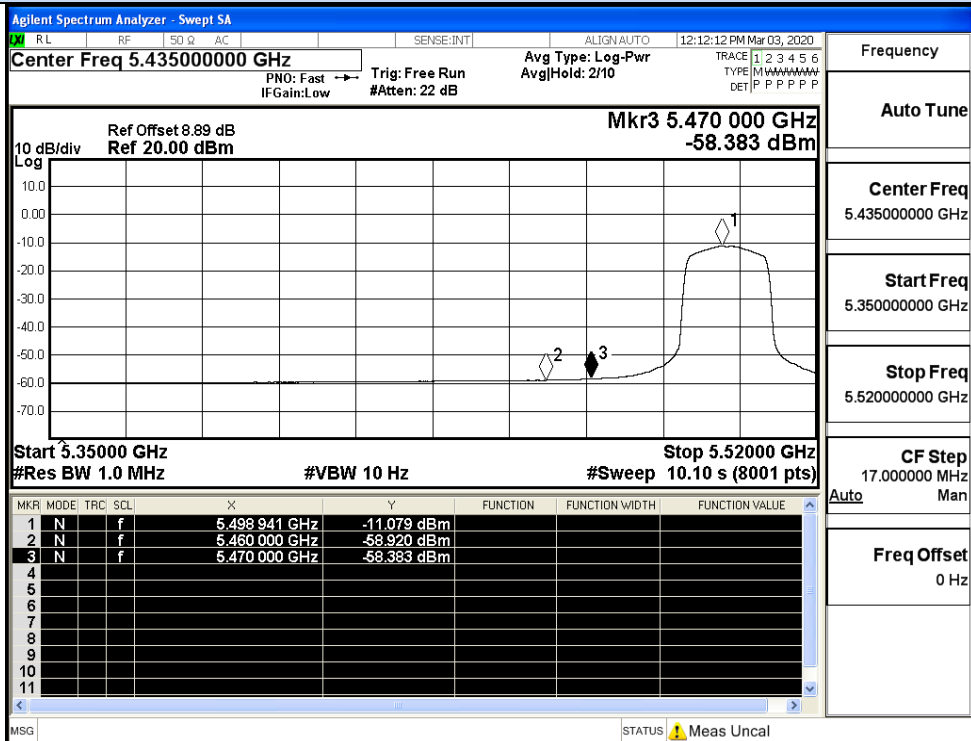


## IEEE 802.11a / Channel 140 / 5700MHz / Average

## Undesirable Emissions Measurement

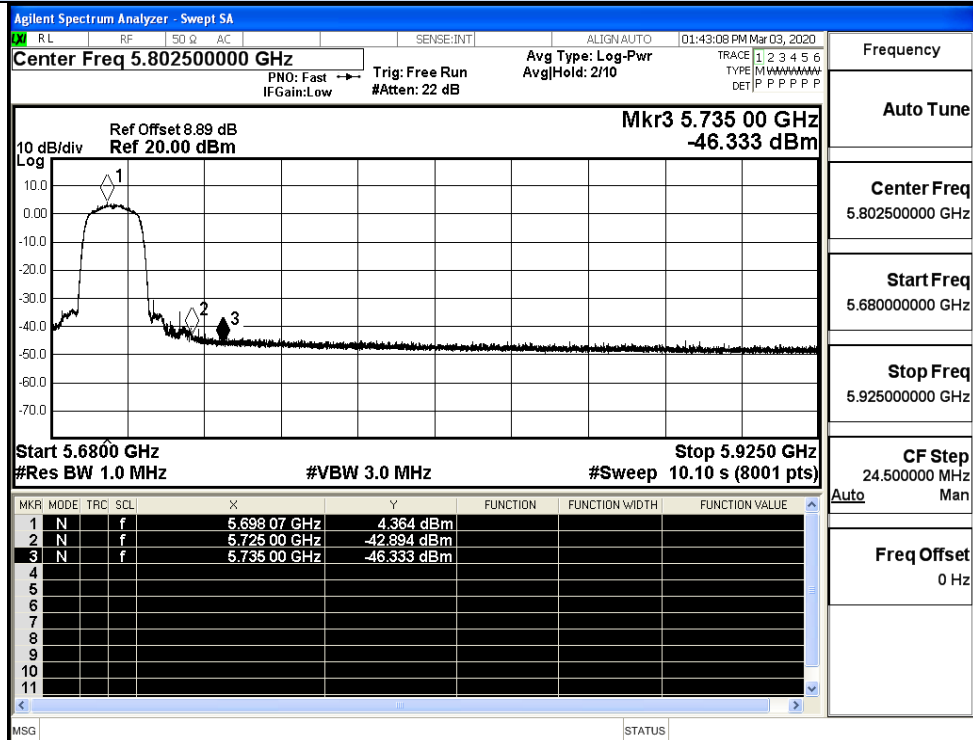


## IEEE 802.11n20 / Channel 100 / 5500MHz / Peak

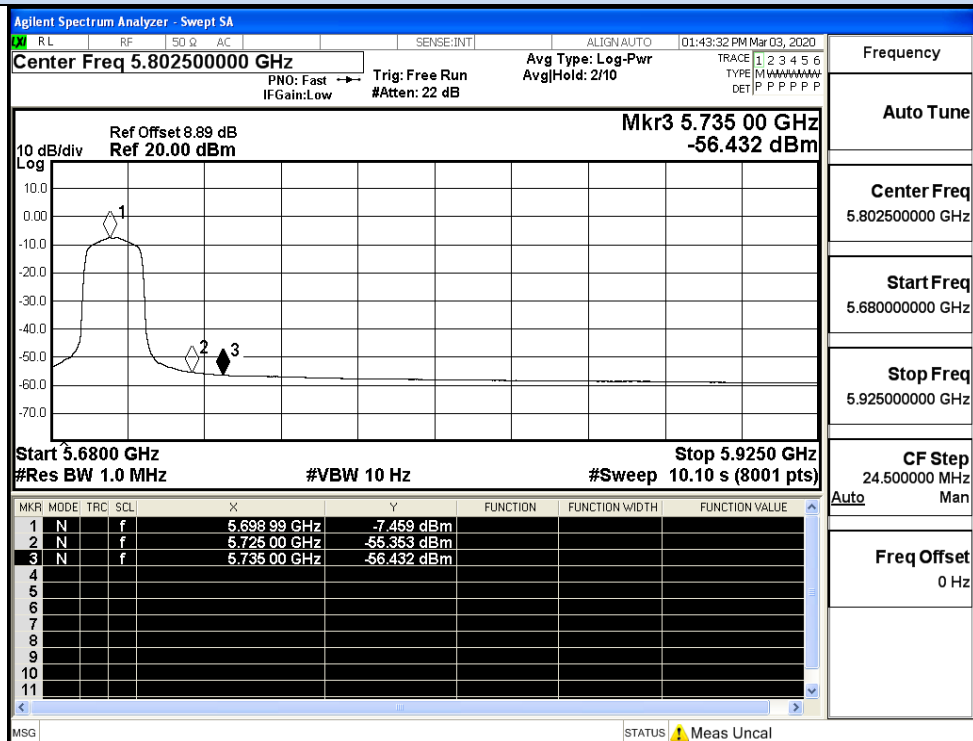


## IEEE 802.11n20 / Channel 100 / 5500MHz / Average

## Undesirable Emissions Measurement

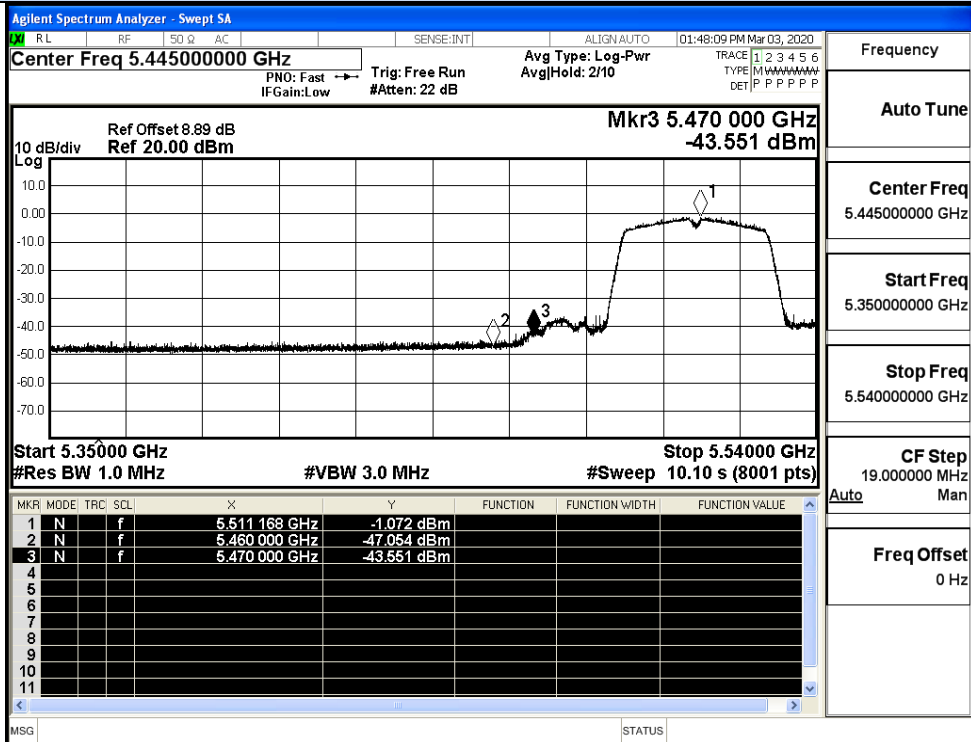


## IEEE 802.11n20 / Channel 140 / 5700MHz / Peak

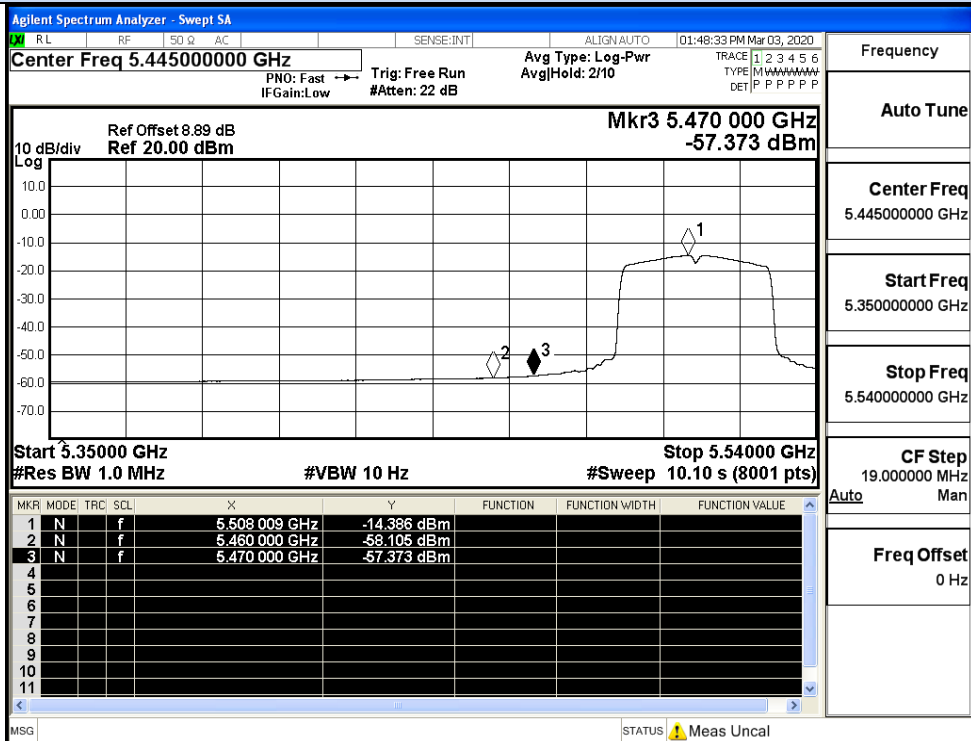


## IEEE 802.11n20 / Channel 140 / 5700MHz / Average

## Undesirable Emissions Measurement

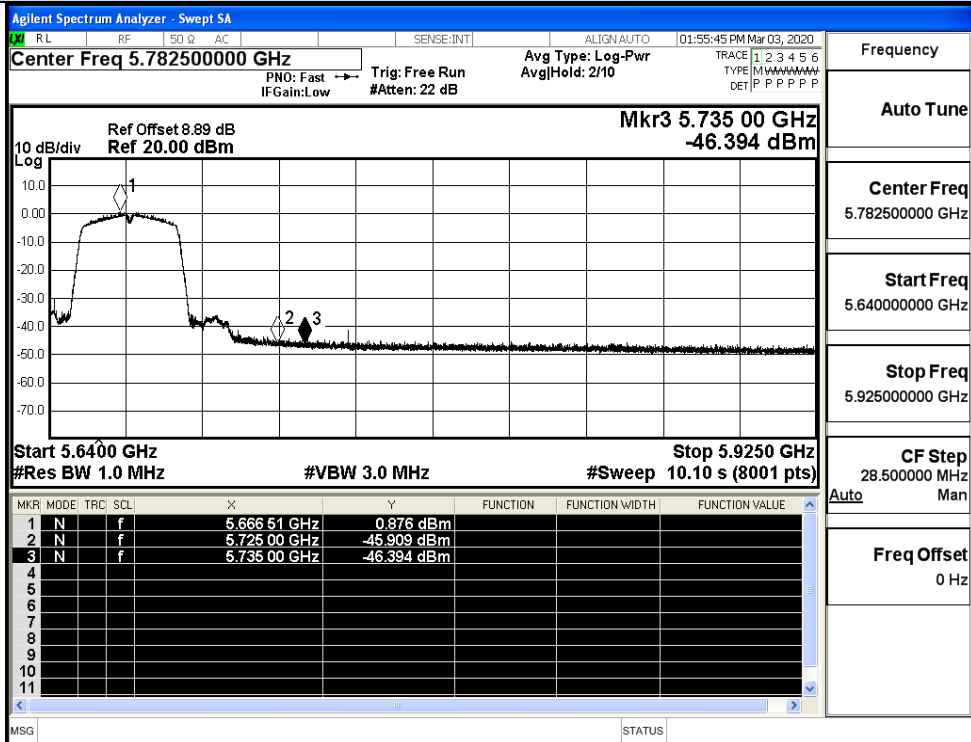


## IEEE 802.11n40 / Channel 102 / 5510MHz / Peak

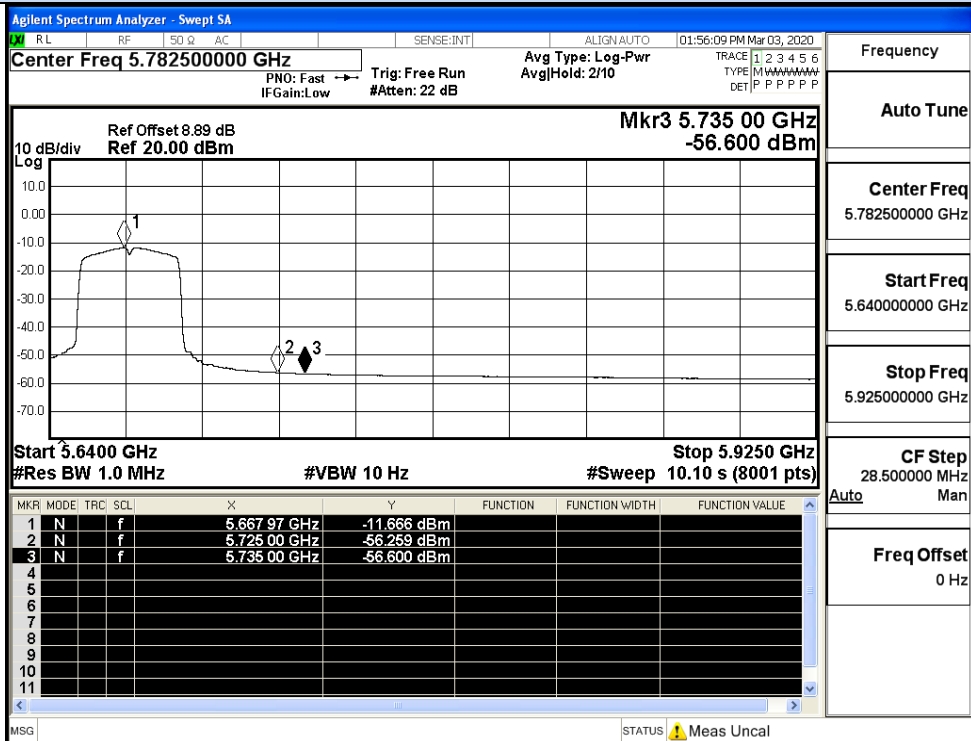


## IEEE 802.11n40 / Channel 102 / 5510MHz / Average

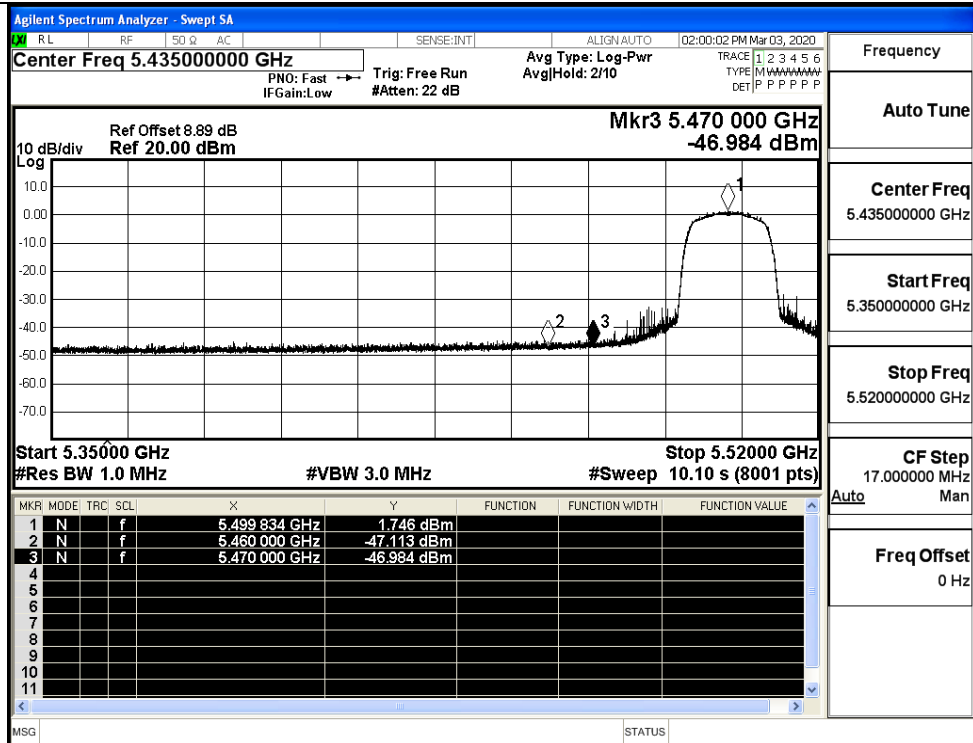
## Undesirable Emissions Measurement



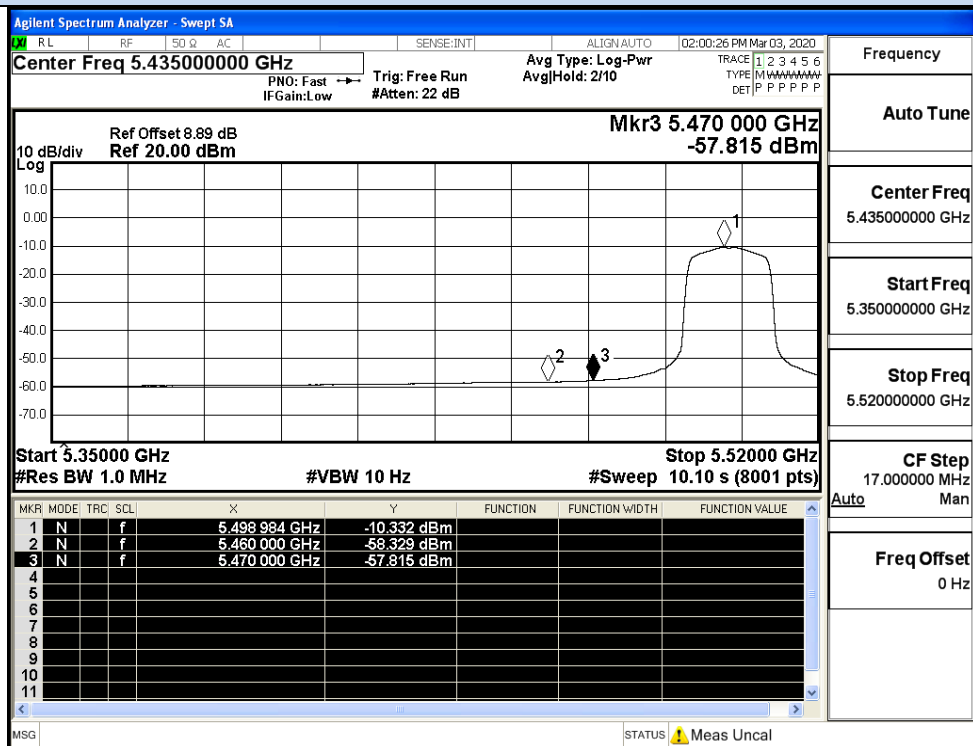
## IEEE 802.11n40 / Channel 134 / 5670MHz / Peak



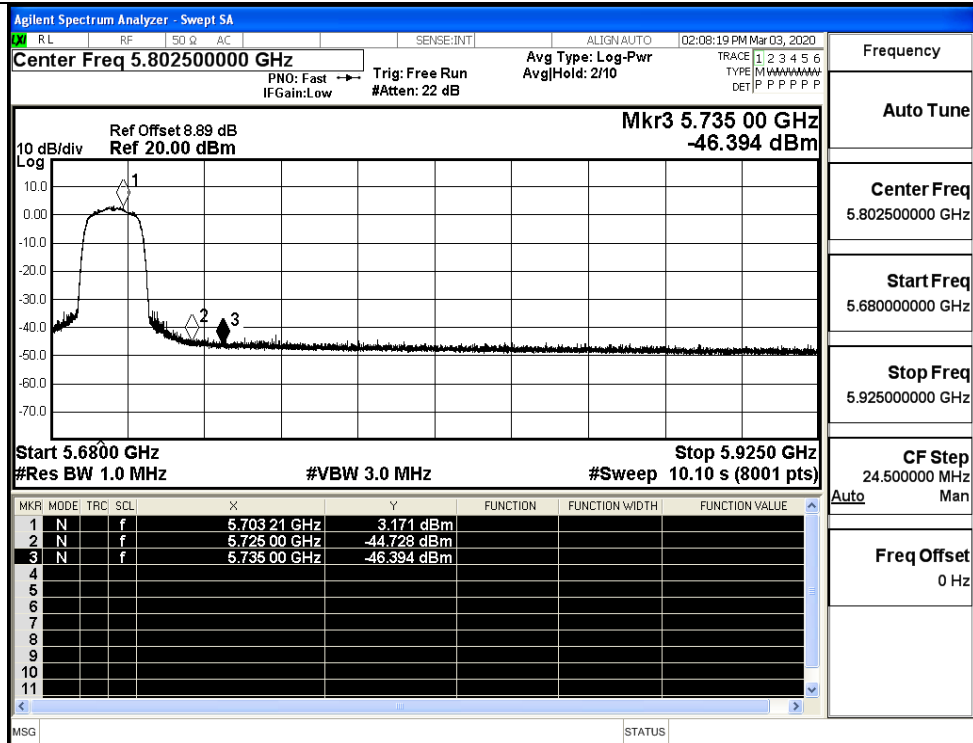
## IEEE 802.11n40 / Channel 134 / 5670MHz / Average



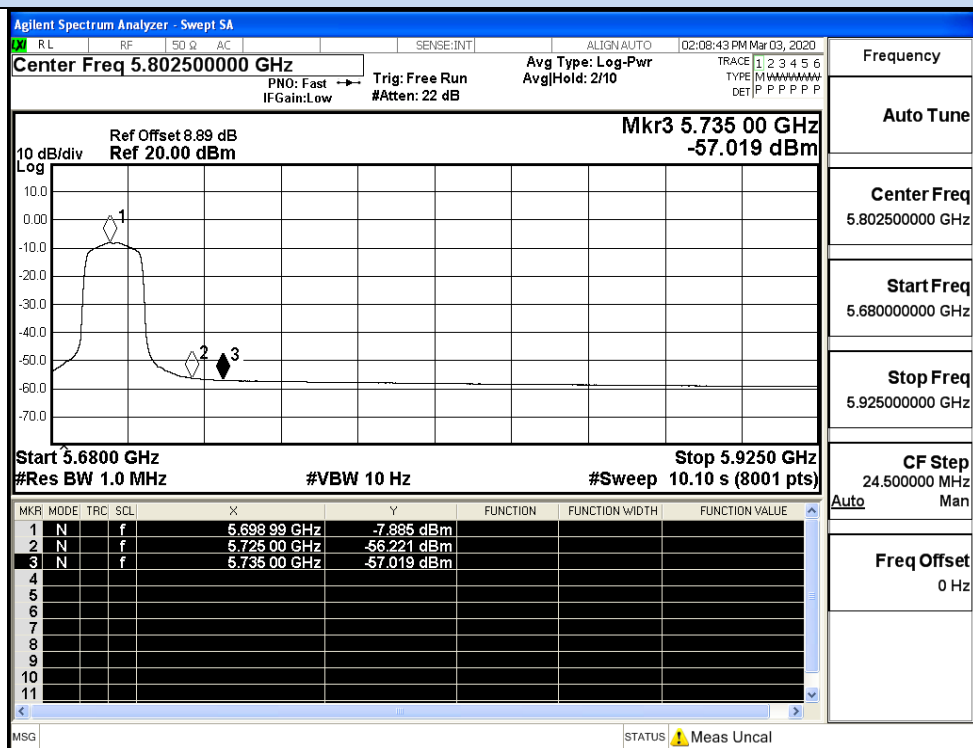
IEEE 802.11ac20 / Channel 100 / 5500MHz / Peak



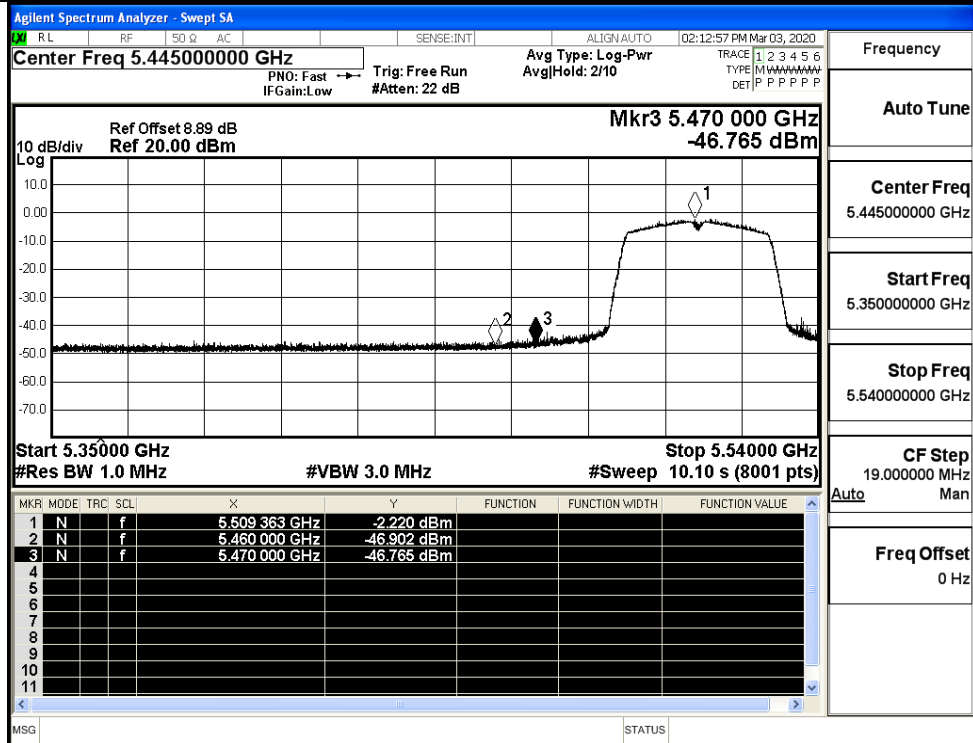
IEEE 802.11ac20 / Channel 100 / 5500MHz / Average



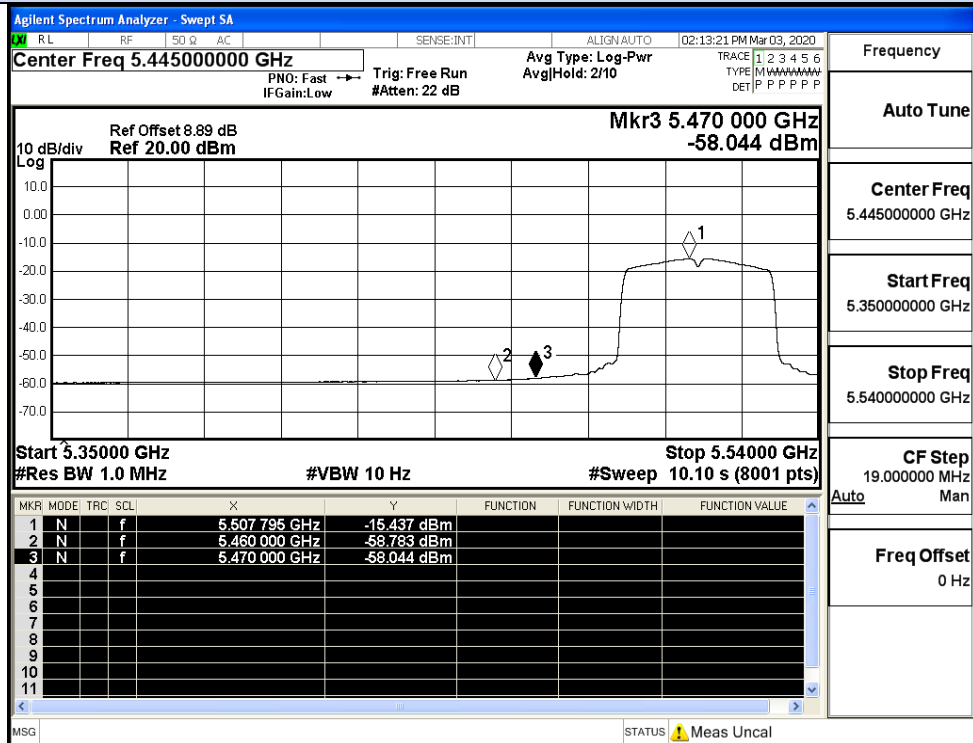
IEEE 802.11ac20 / Channel 140 / 5700MHz / Peak



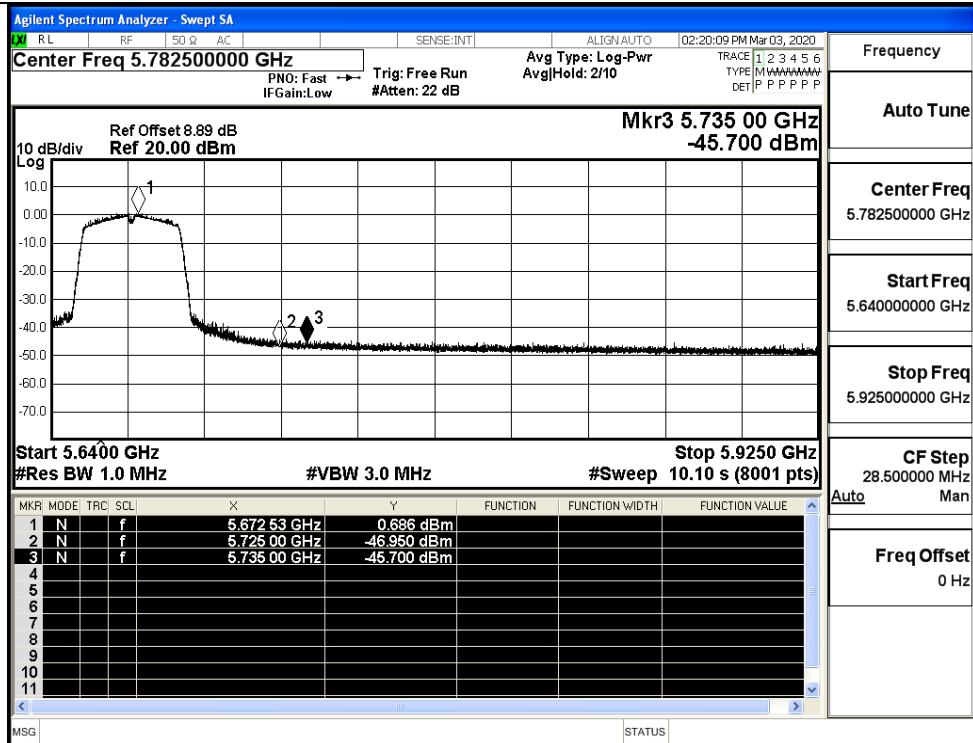
IEEE 802.11ac20 / Channel 140 / 5700MHz / Average



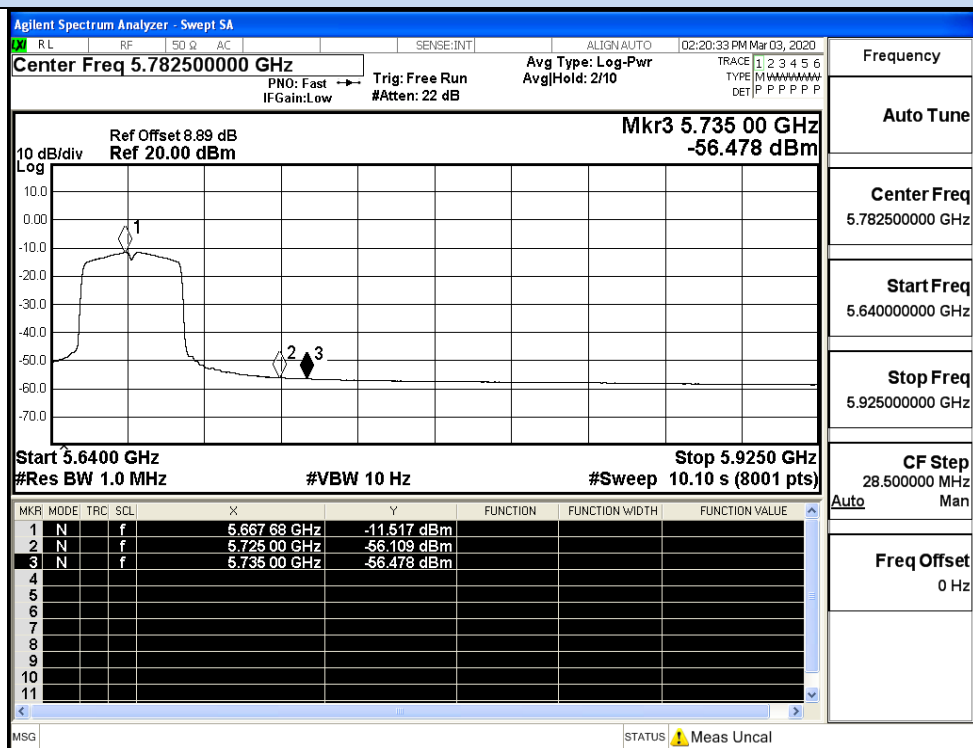
IEEE 802.11ac40 / Channel 102/ 5510MHz / Peak



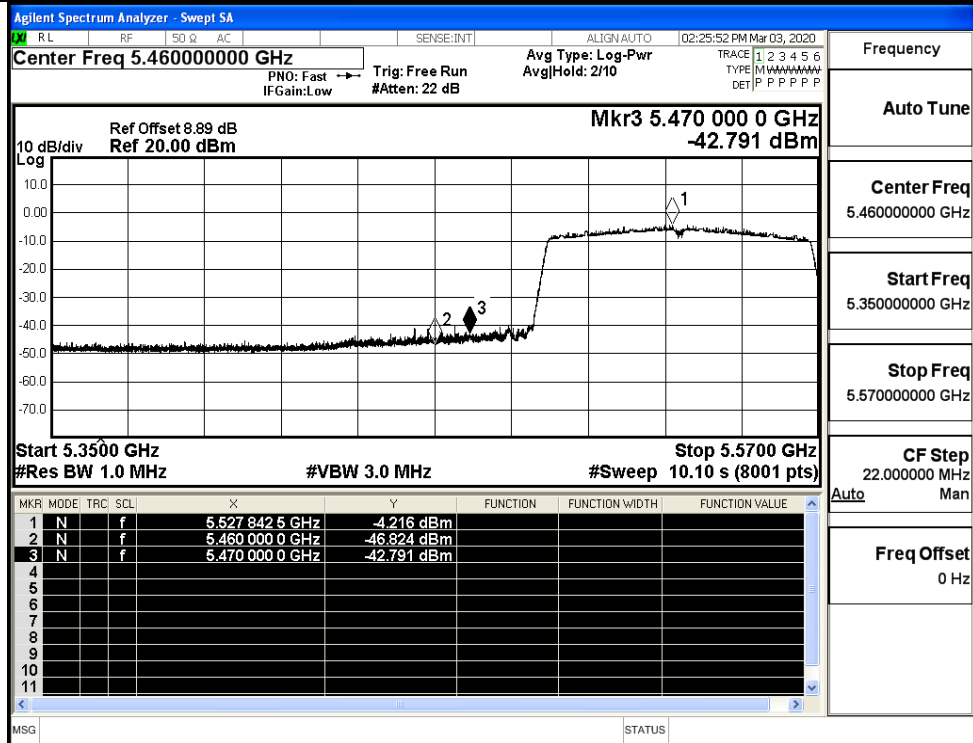
IEEE 802.11ac40 / Channel 102 / 5510MHz / Average



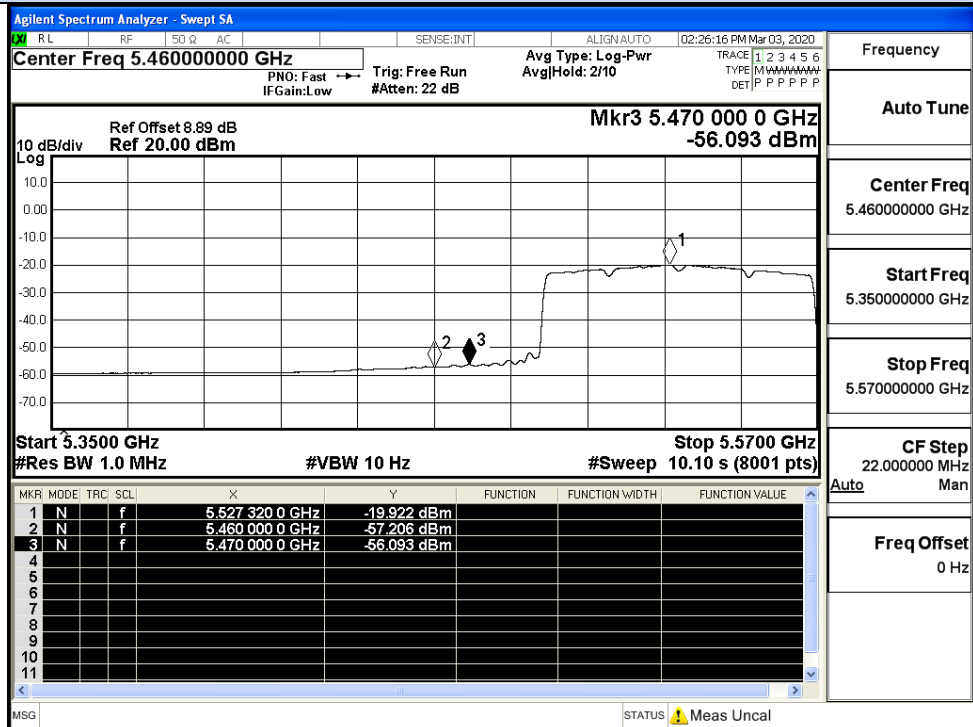
IEEE 802.11ac40 / Channel 134/ 5670MHz / Peak



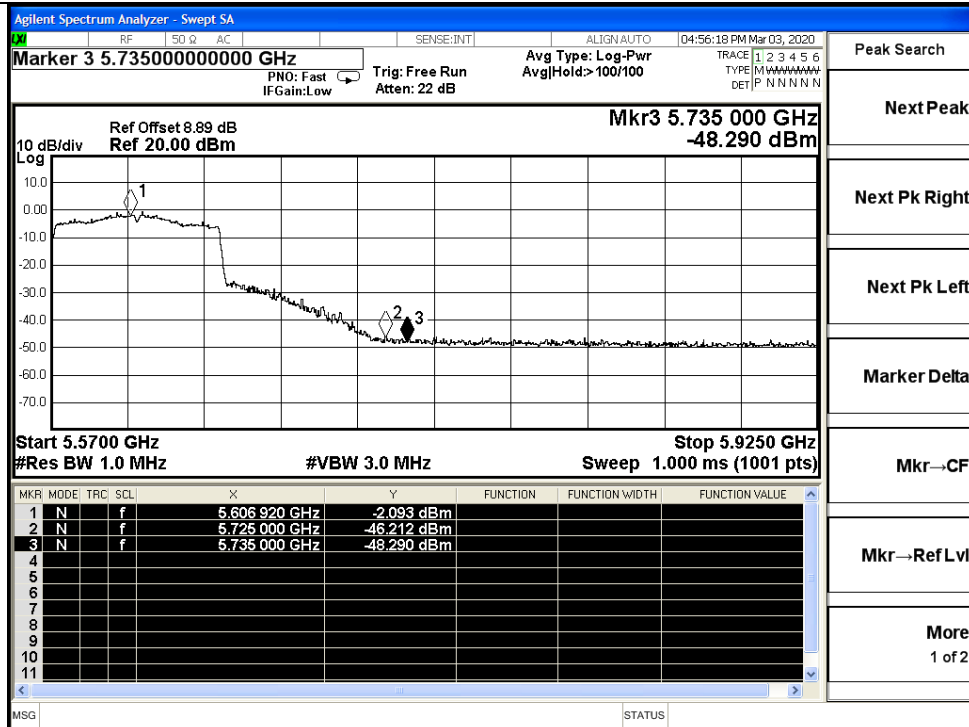
IEEE 802.11ac40 / Channel 134 / 5670MHz / Average



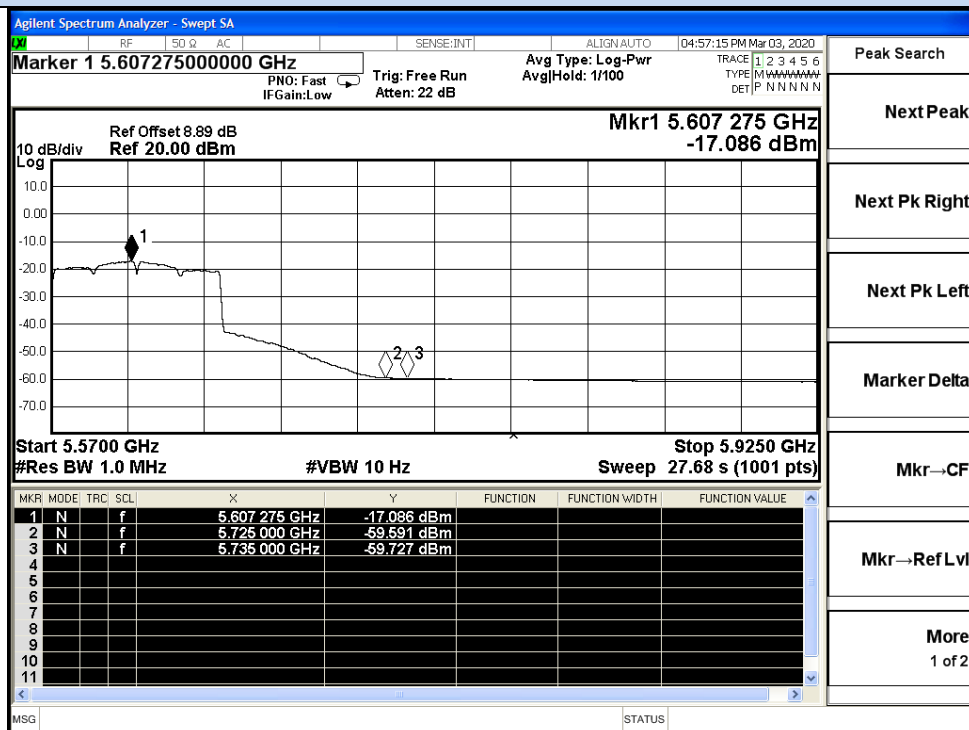
IEEE 802.11ac80 / Channel 106 / 5530MHz / Peak



IEEE 802.11ac80 / Channel 106 / 5530MHz / Average



IEEE 802.11ac80 / Channel 122/ 5610MHz / Peak



IEEE 802.11ac80 / Channel 122 / 5610MHz / Average