

## Appendix C

### RF Test Data for 5.3G WLAN (Conducted Measurement)

Product Name: Zettle Terminal

Trade Mark: Zettle Terminal

Test Model: Zettle Terminal

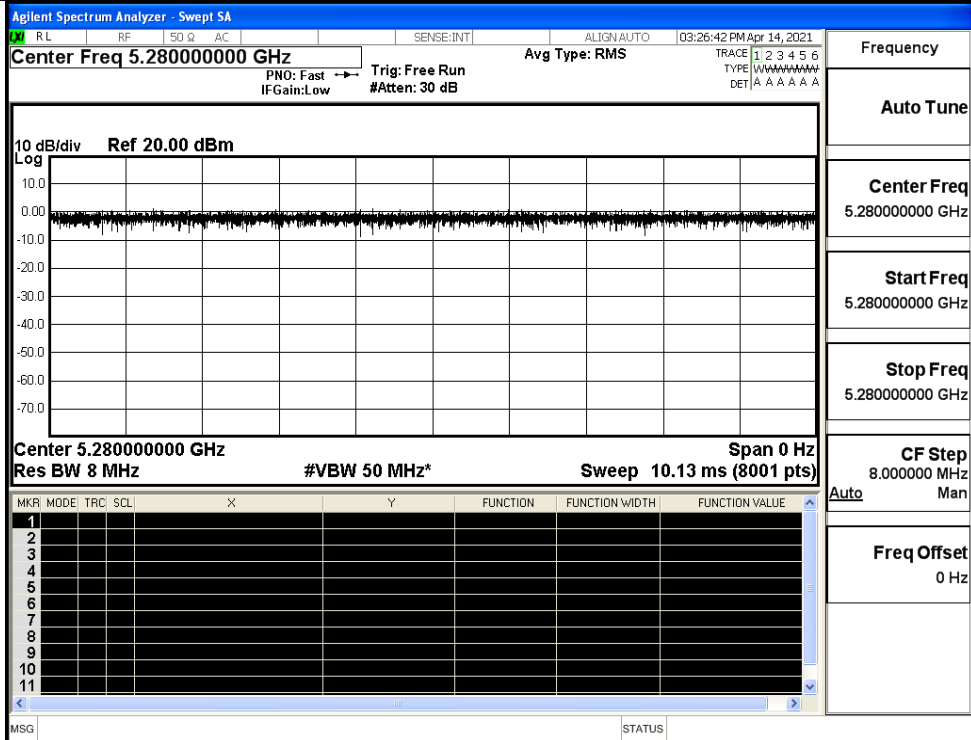
#### Environmental Conditions

|                    |            |
|--------------------|------------|
| Temperature:       | 22.3° C    |
| Relative Humidity: | 53.6%      |
| ATM Pressure:      | 100.0 kPa  |
| Test Engineer:     | Diamond Lu |
| Supervised by:     | Li Huan    |

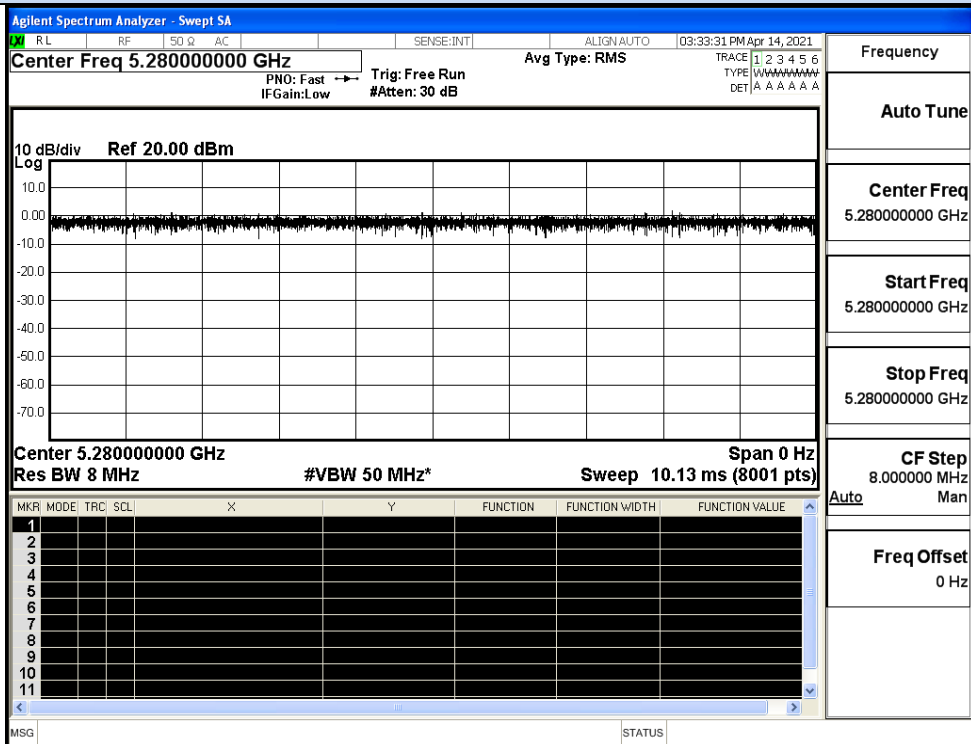
#### C.1 Duty Cycle

| Test Mode   | Test Frequency (MHz) | Duty Cycle (%) | 10log(1/x) Factor (dB) | 1/B Minimum VBW(KHz) |
|-------------|----------------------|----------------|------------------------|----------------------|
| 11A         | 5280                 | 100            | 0.00                   | 0.01                 |
| 11N20 SISO  | 5280                 | 100            | 0.00                   | 0.01                 |
| 11N40 SISO  | 5270                 | 100            | 0.00                   | 0.01                 |
| 11AC20 SISO | 5280                 | 100            | 0.00                   | 0.01                 |
| 11AC40 SISO | 5270                 | 100            | 0.00                   | 0.01                 |
| 11AC80 SISO | 5290                 | 100            | 0.00                   | 0.01                 |

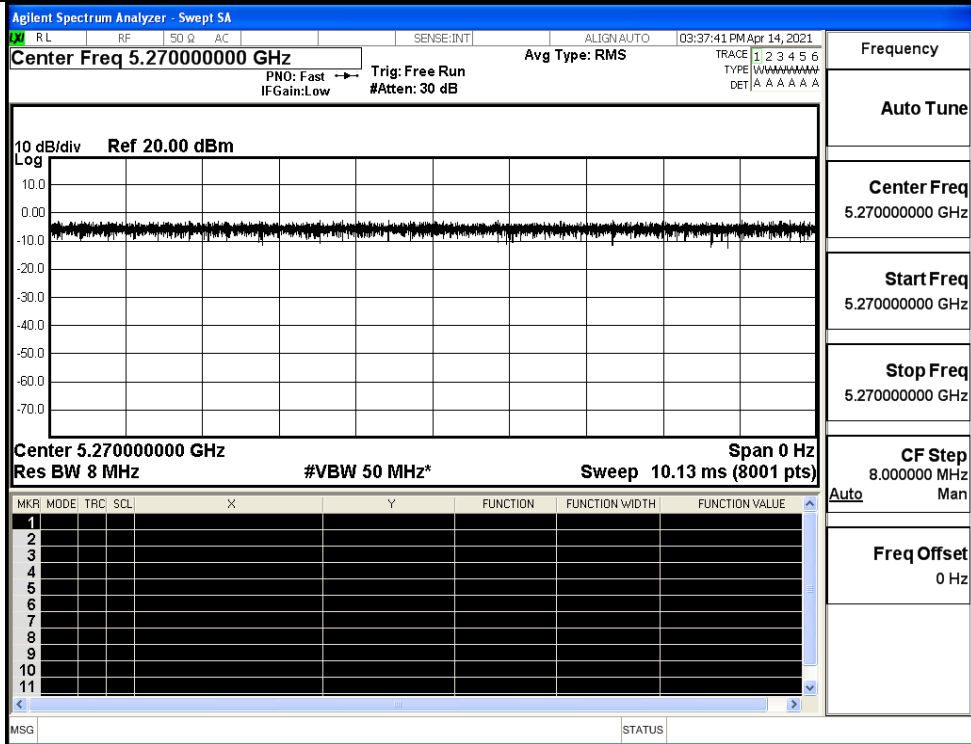
### On Time and Duty Cycle



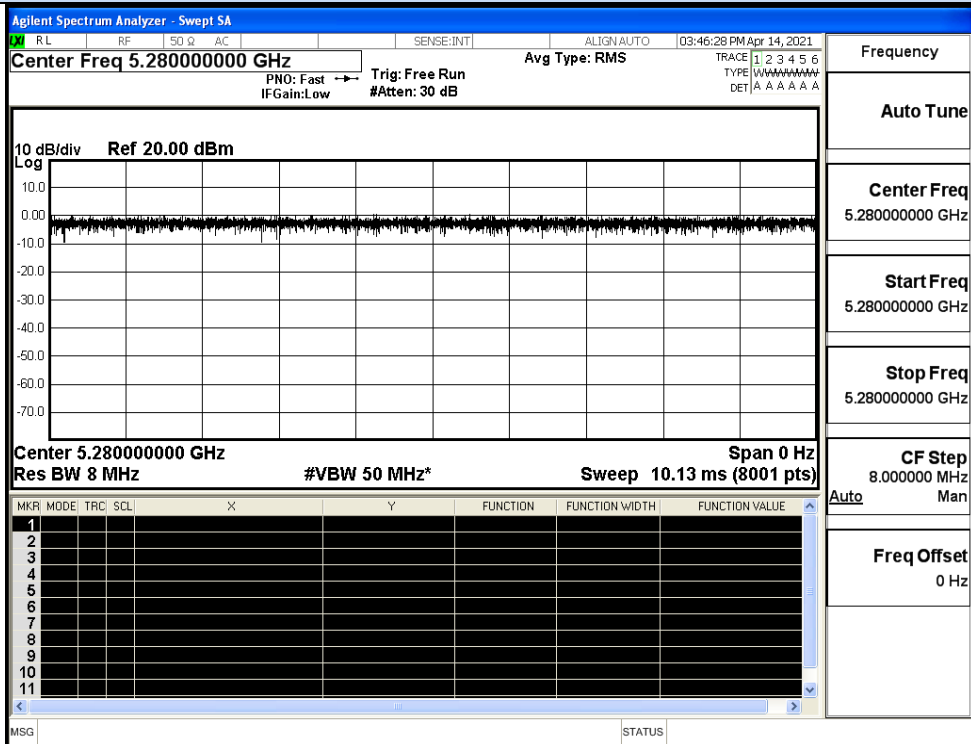
### IEEE 802.11a



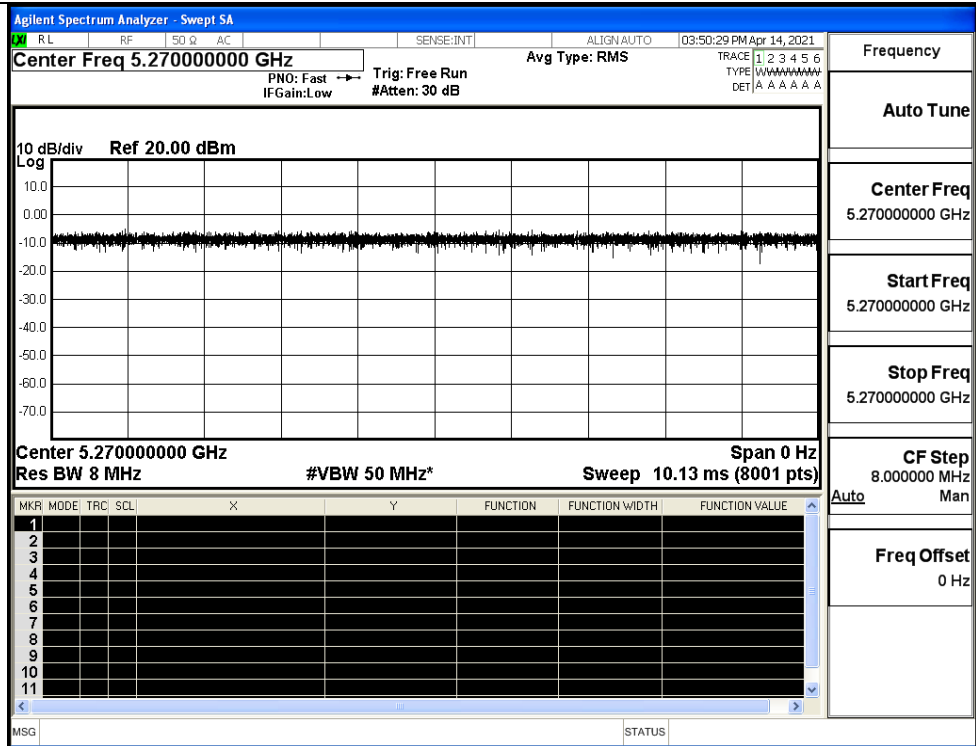
### IEEE 802.11n HT20



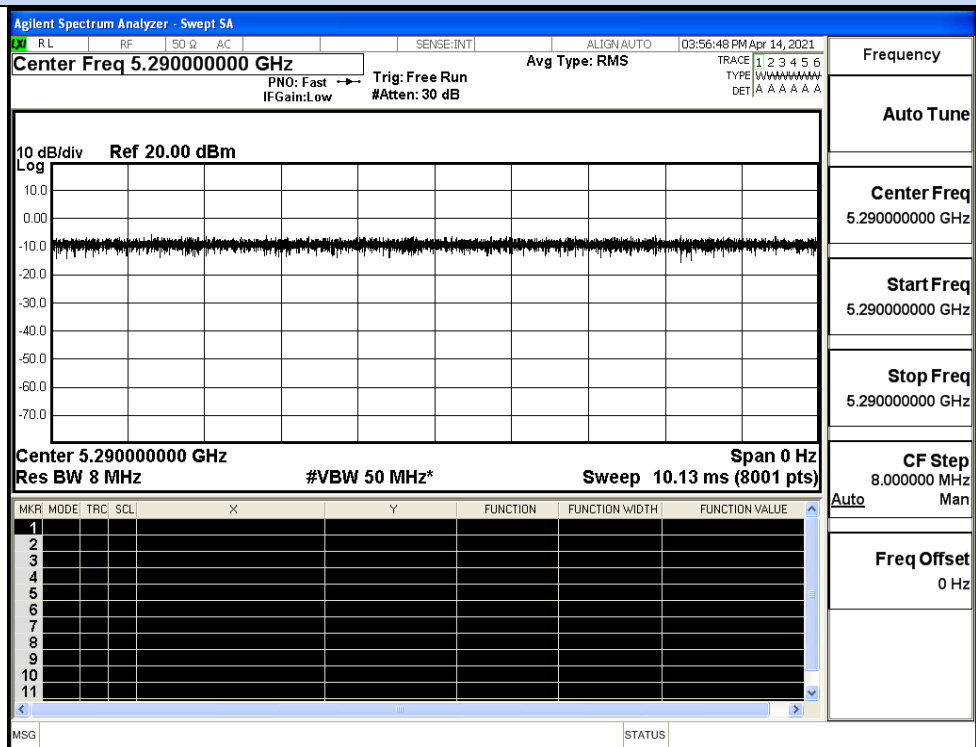
IEEE 802.11n HT40



IEEE 802.11AC20



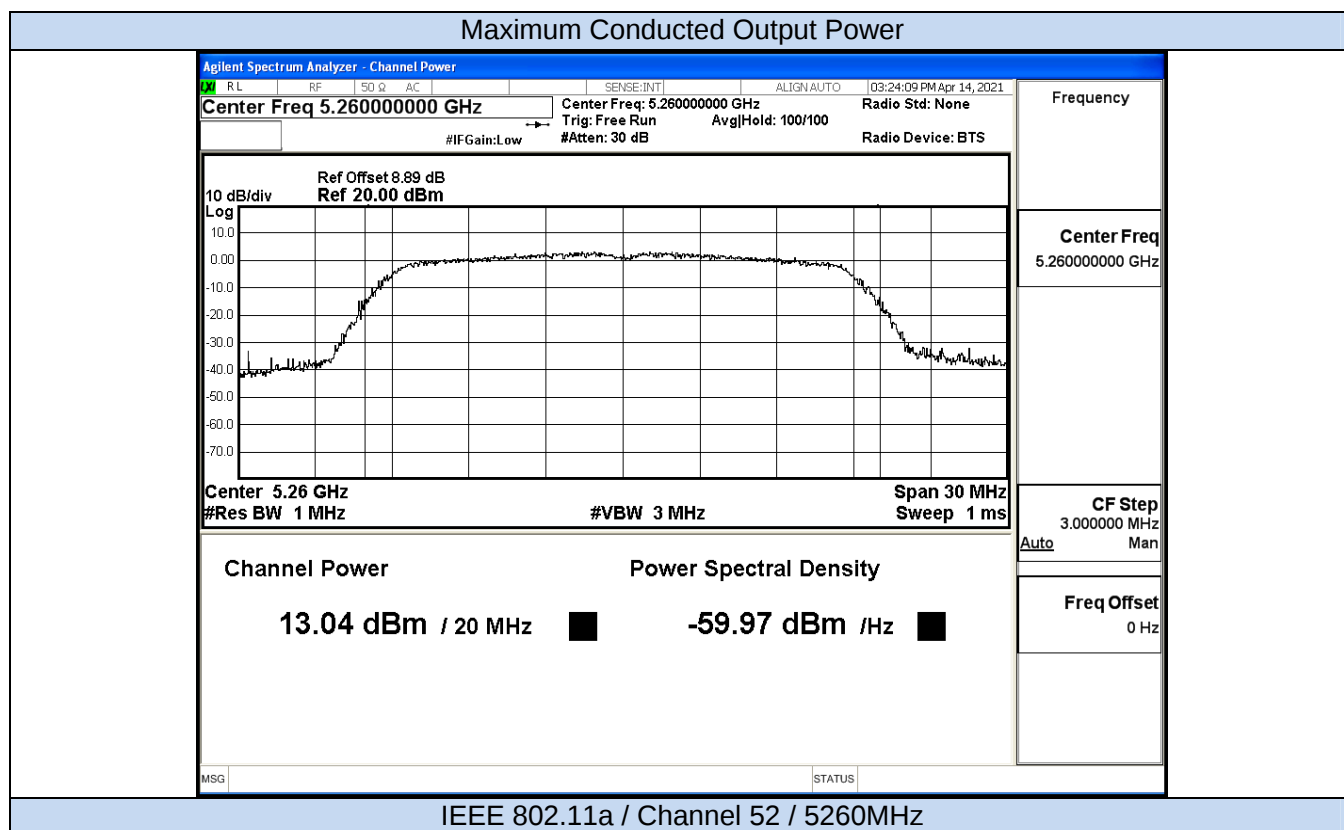
IEEE 802.11 AC40

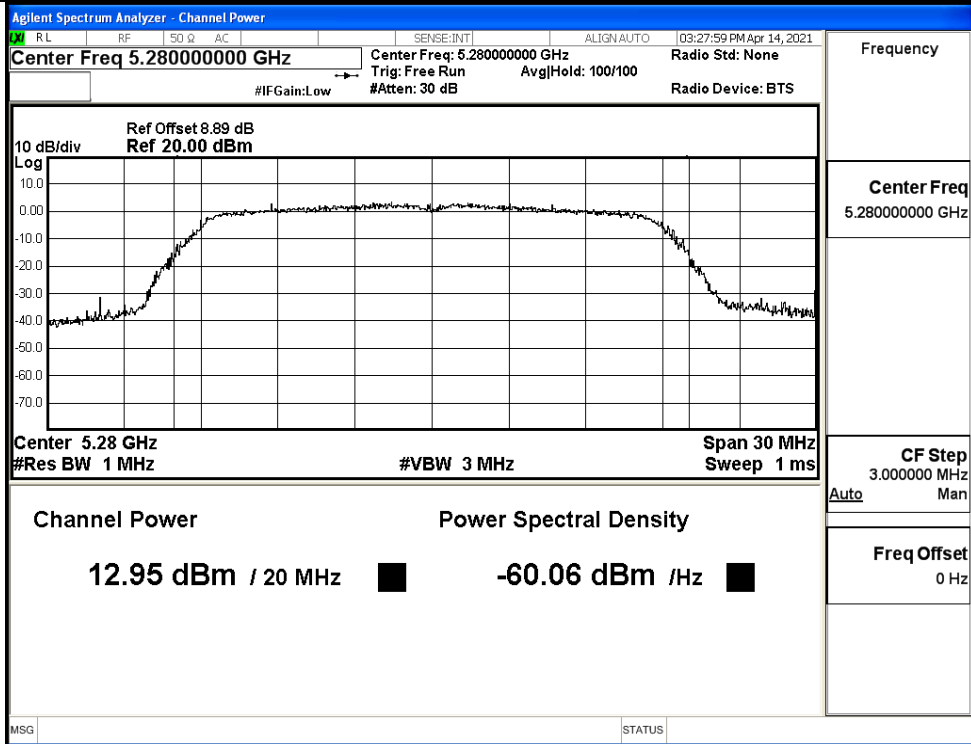


IEEE 802.11AC80

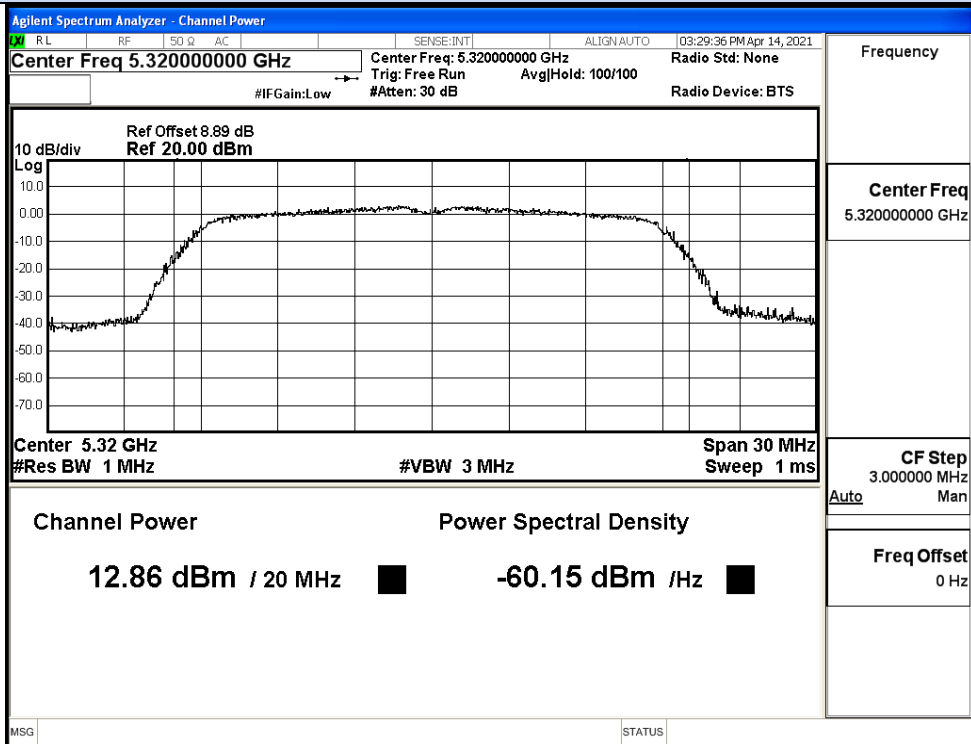
## C.2 Maximum Conduct Output Power

| Test Mode   | Channel | Frequency (MHz) | AVG Conducted Power (dBm) | Duty Cycle Factor(dB) | Report Conducted Power(dBm) | Limit (dBm) | Verdict |
|-------------|---------|-----------------|---------------------------|-----------------------|-----------------------------|-------------|---------|
| 11A         | 52      | 5260            | 13.04                     | 0                     | 13.04                       | 24          | Pass    |
|             | 56      | 5280            | 12.95                     | 0                     | 12.95                       |             | Pass    |
|             | 64      | 5320            | 12.86                     | 0                     | 12.86                       |             | Pass    |
| 11N20 SISO  | 52      | 5260            | 14.36                     | 0                     | 14.36                       | 24          | Pass    |
|             | 56      | 5280            | 13.94                     | 0                     | 13.94                       |             | Pass    |
|             | 64      | 5320            | 13.63                     | 0                     | 13.63                       |             | Pass    |
| 11N40 SISO  | 54      | 5270            | 13.61                     | 0                     | 13.61                       | 24          | Pass    |
|             | 62      | 5310            | 13.6                      | 0                     | 13.6                        |             | Pass    |
| 11AC20 SISO | 52      | 5260            | 13.66                     | 0                     | 13.66                       | 24          | Pass    |
|             | 56      | 5280            | 13.52                     | 0                     | 13.52                       |             | Pass    |
|             | 64      | 5320            | 13.55                     | 0                     | 13.55                       |             | Pass    |
| 11AC40 SISO | 54      | 5270            | 10.66                     | 0                     | 10.66                       | 24          | Pass    |
|             | 62      | 5310            | 10.52                     | 0                     | 10.52                       |             | Pass    |
| 11AC80 SISO | 58      | 5290            | 13.61                     | 0                     | 13.61                       | 24          | Pass    |



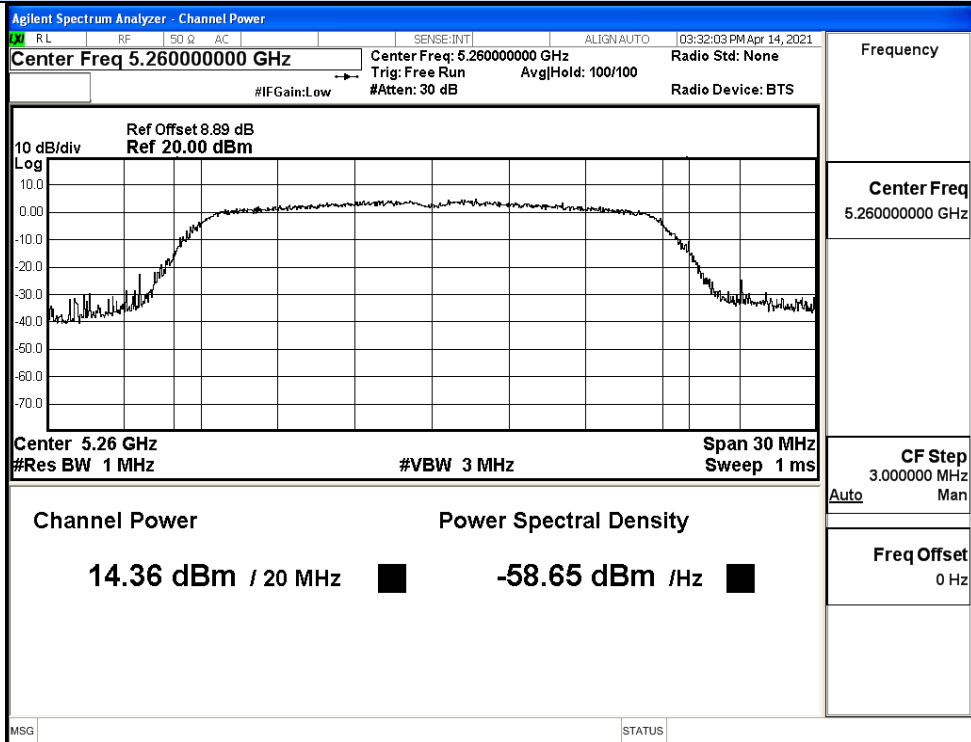


IEEE 802.11a / Channel 56 / 5280MHz

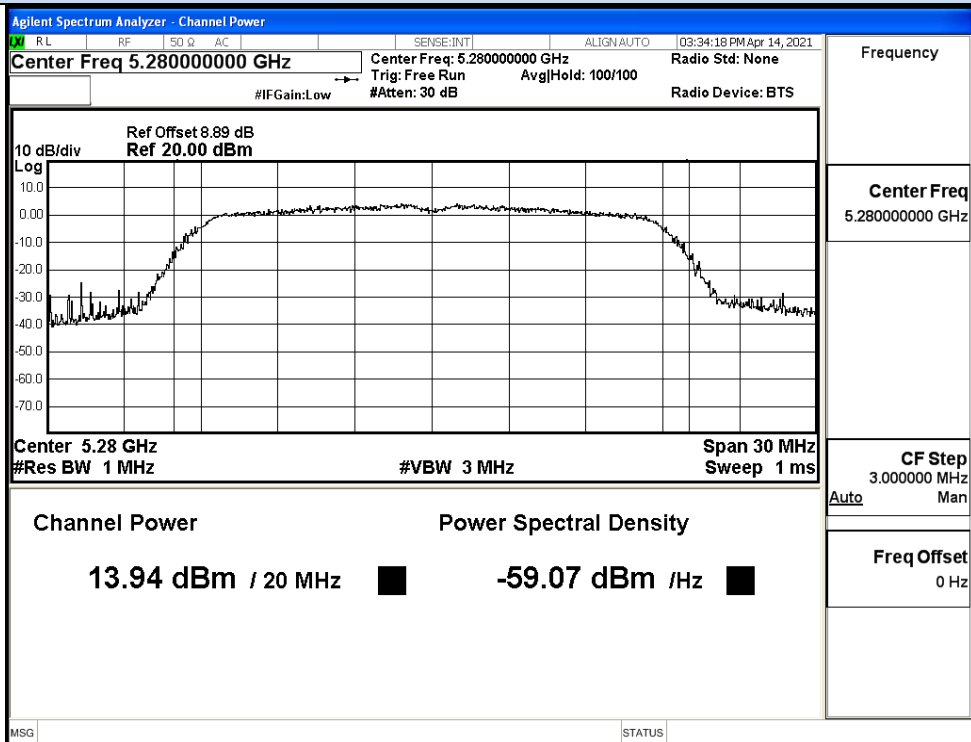


IEEE 802.11a / Channel 64 / 5320MHz

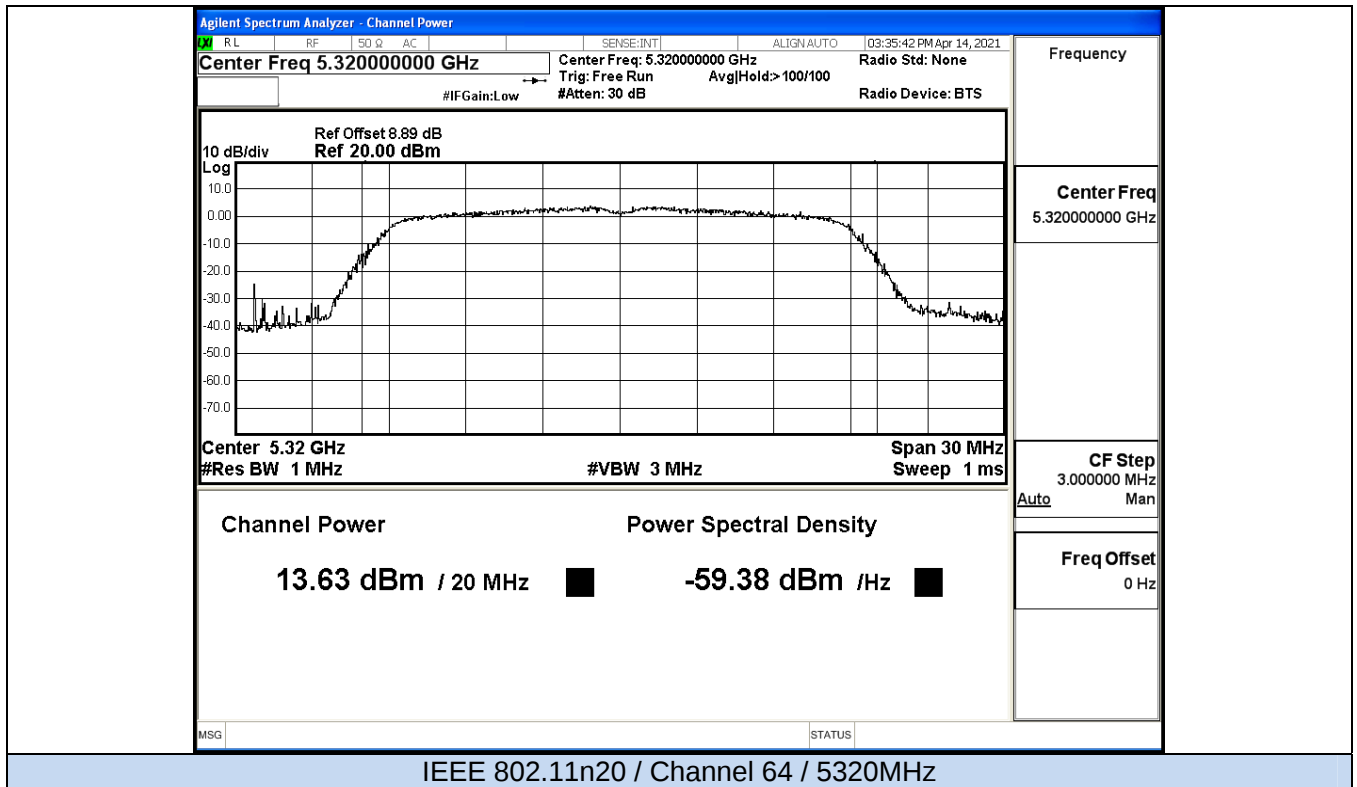
### Maximum Conducted Output Power



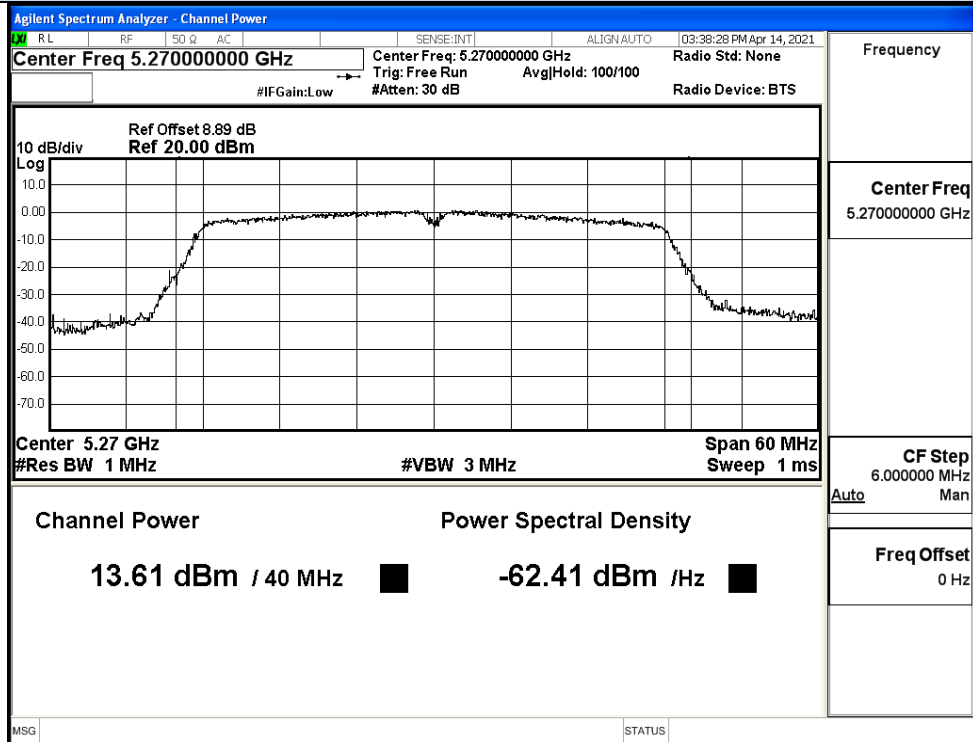
### IEEE 802.11n20 / Channel 52 / 5260MHz



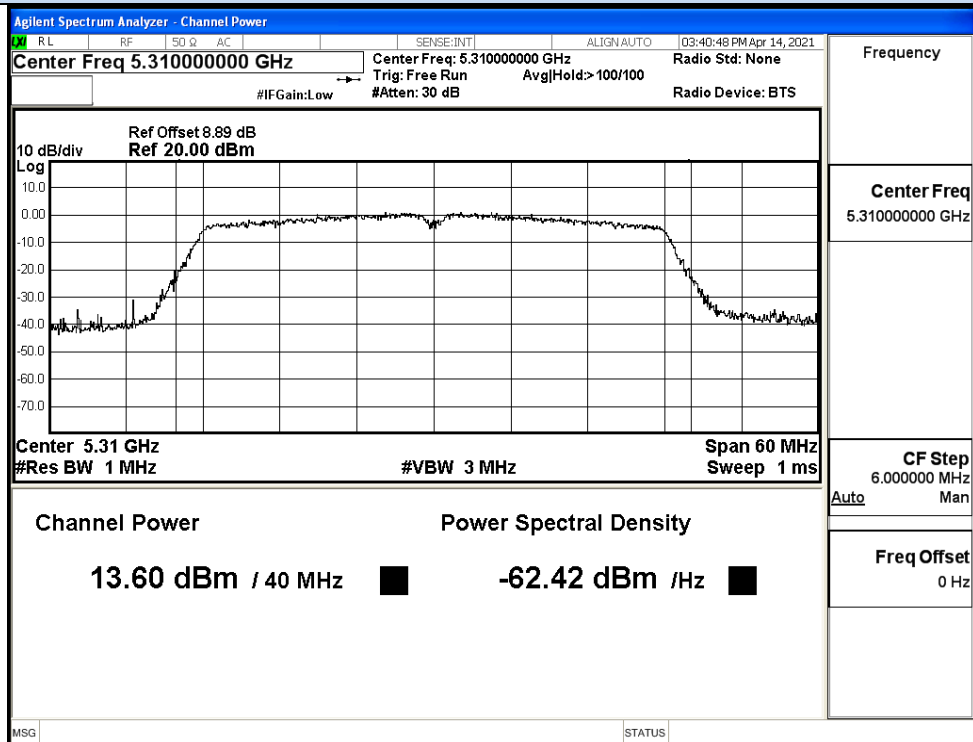
### IEEE 802.11n20 / Channel 56 / 5280MHz



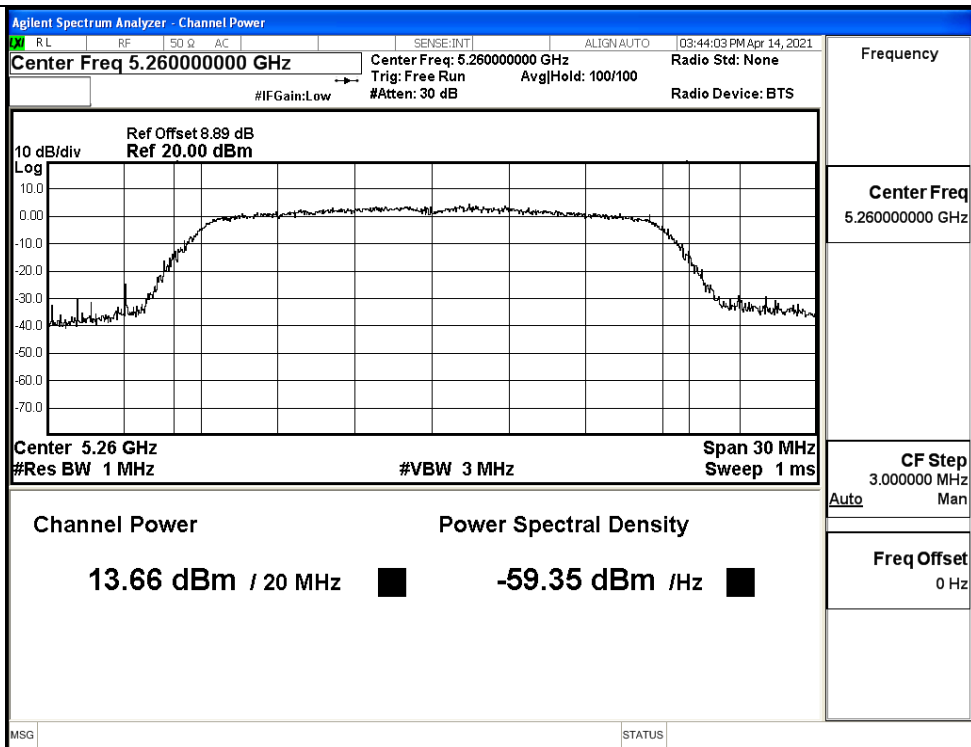
### Maximum Conducted Output Power



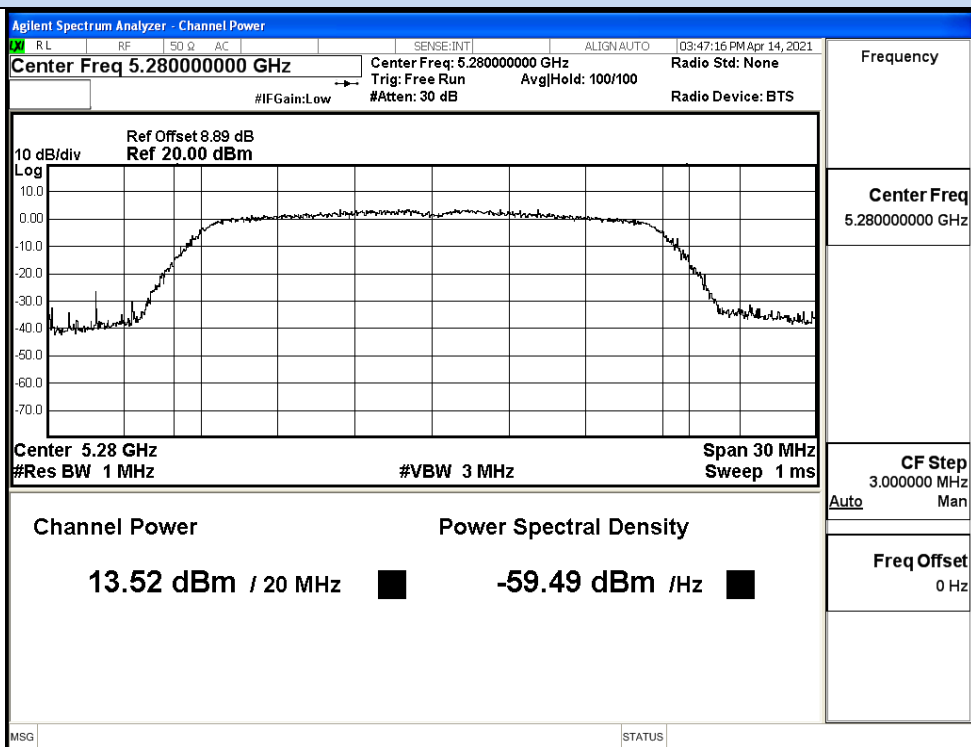
### IEEE 802.11n40 / Channel 54 / 5270MHz



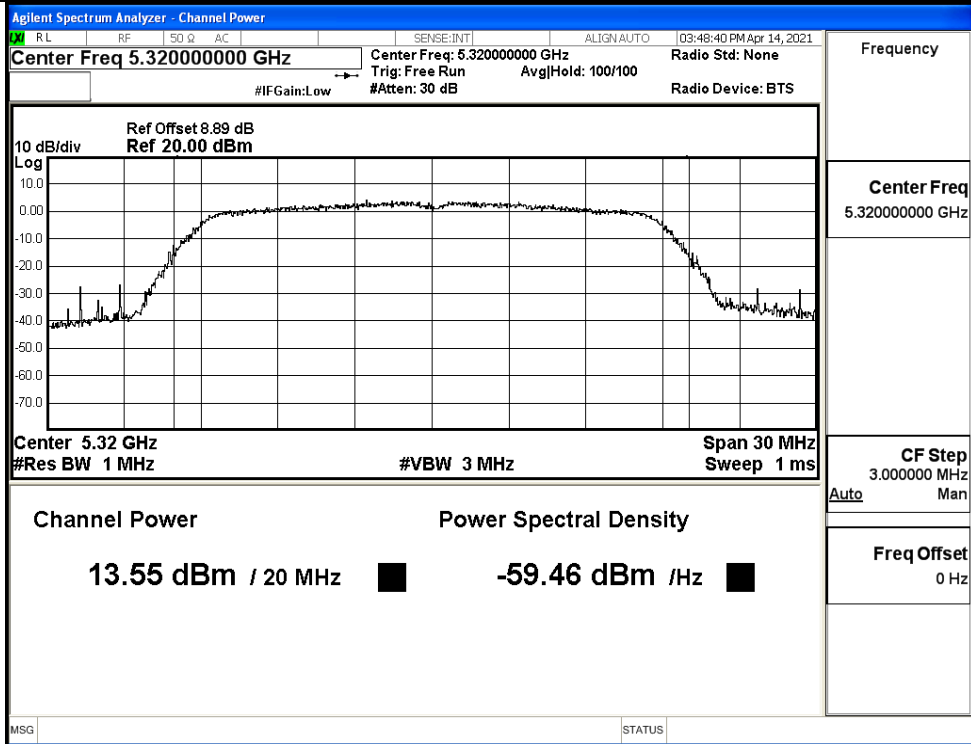
### IEEE 802.11n40 / Channel 62 / 5310MHz



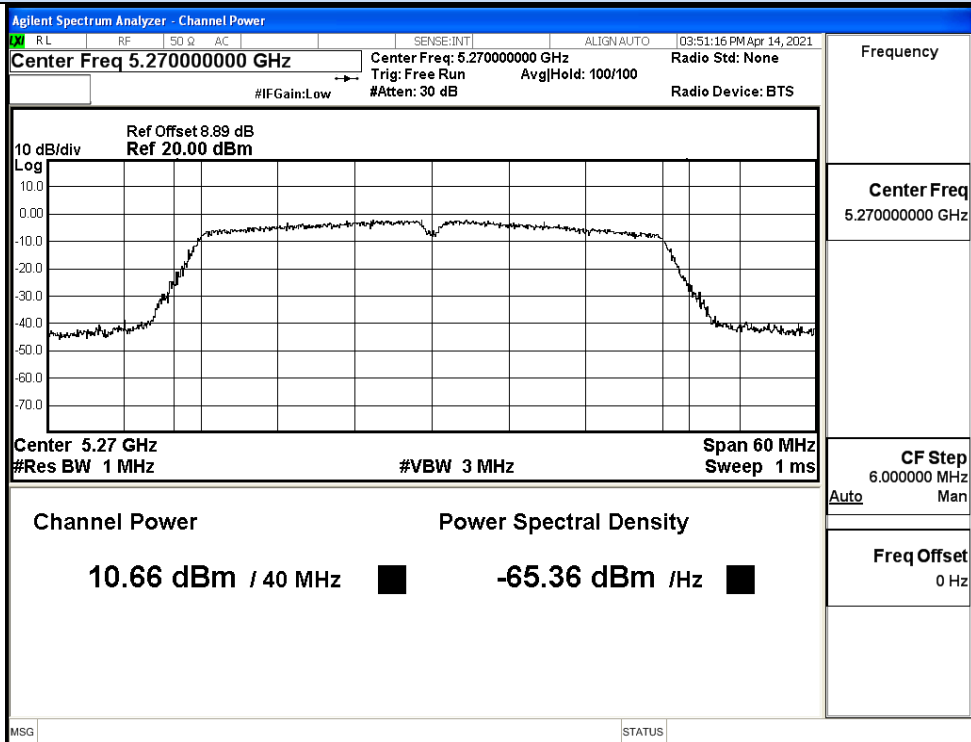
IEEE 802.11ac20 / Channel 52 / 5260MHz



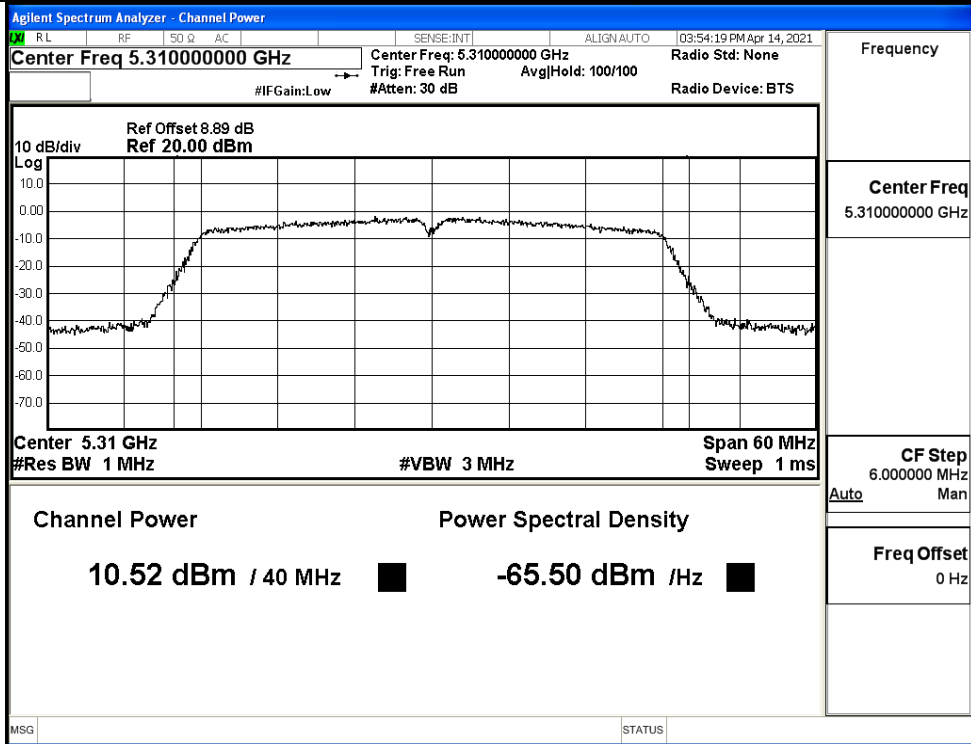
IEEE 802.11ac20 / Channel 56 / 5280MHz



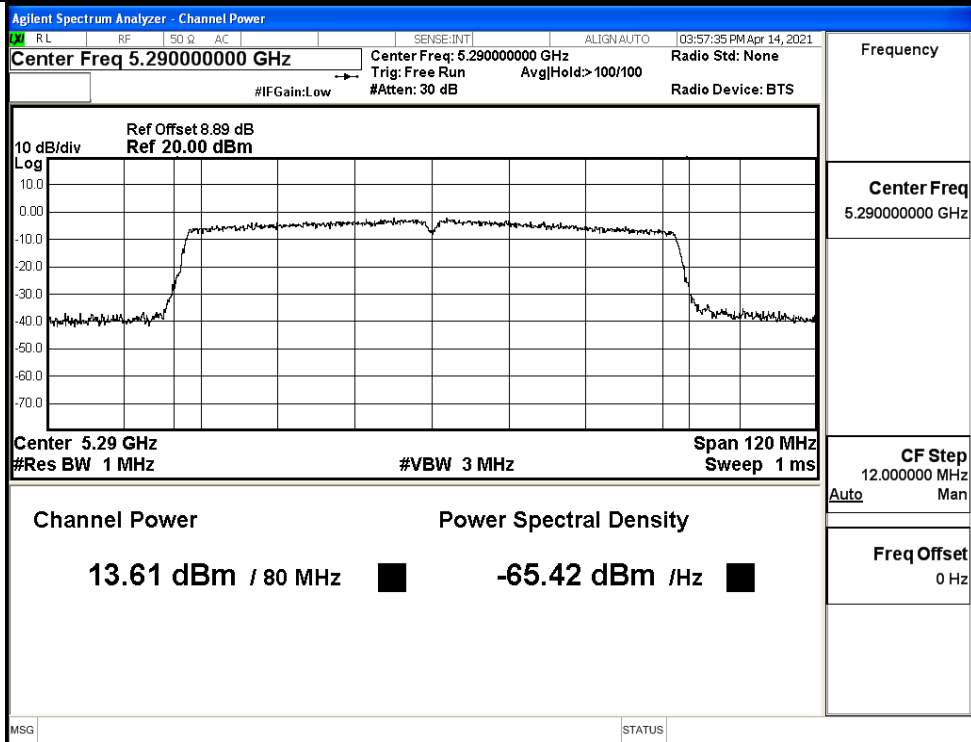
IEEE 802.11ac20 / Channel 64 / 5320MHz



IEEE 802.11ac40 / Channel 54 / 5270MHz



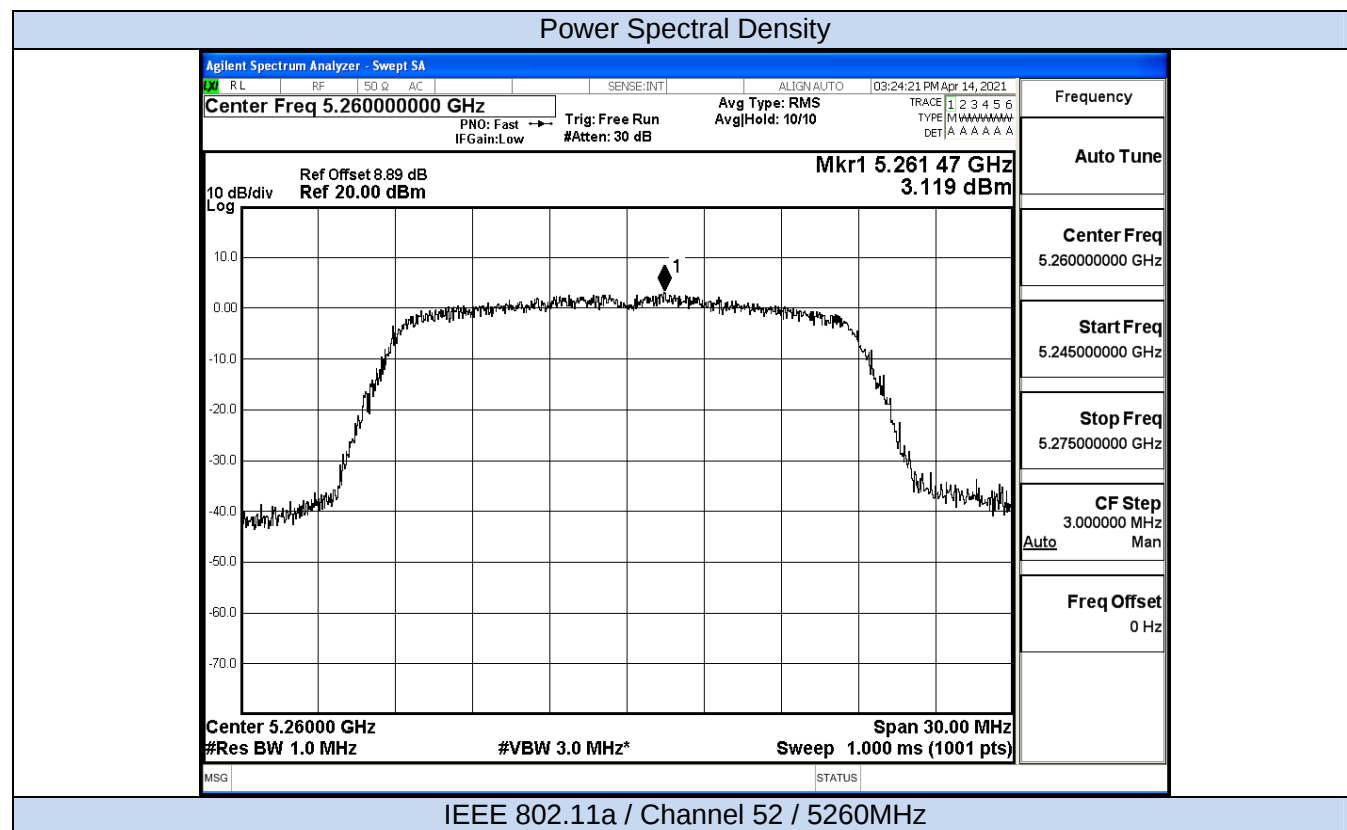
IEEE 802.11ac40 / Channel 62 / 5310MHz

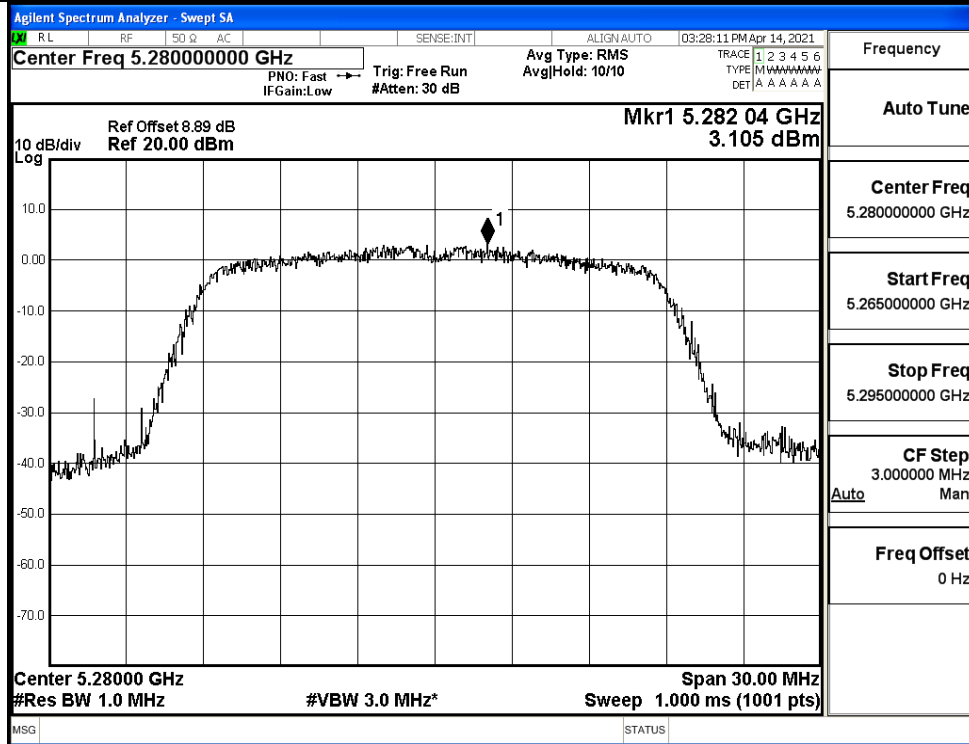


IEEE 802.11ac80 / Channel 58 / 5290MHz

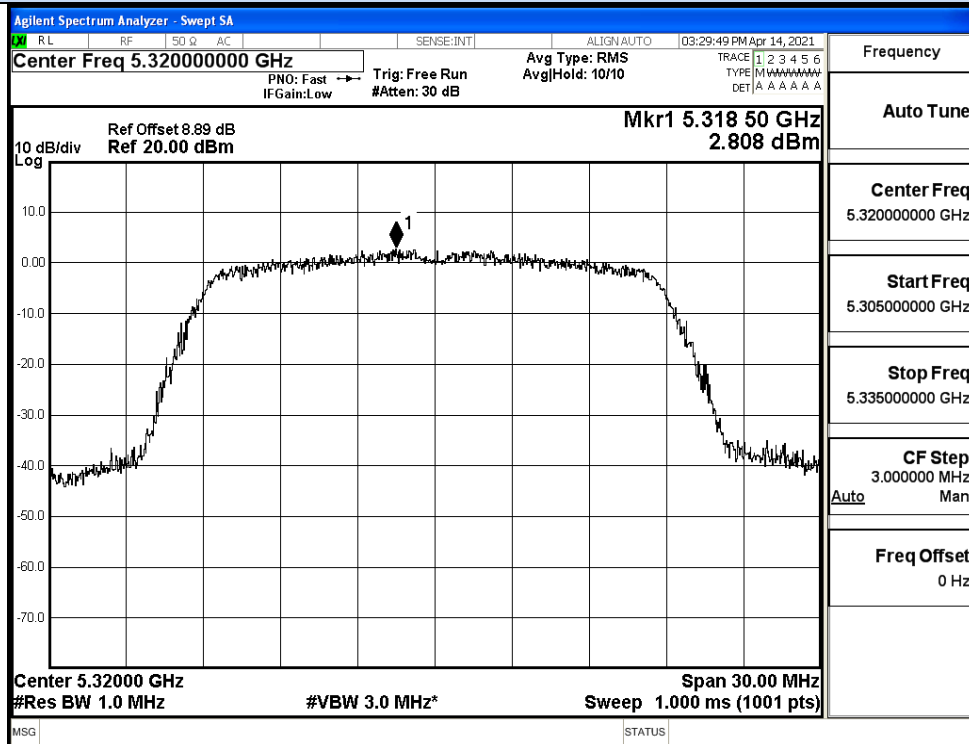
## C.3 Power Spectral Density

| Test Mode   | Channel | Frequency (MHz) | Power Density (dBm/MHz) | Duty Cycle Factor (dB) | Report Power Density (dBm/MHz) | Limit (dBm/MHz) | Verdict |
|-------------|---------|-----------------|-------------------------|------------------------|--------------------------------|-----------------|---------|
| 11A         | 52      | 5260            | 3.12                    | 0                      | 3.12                           | 11              | Pass    |
|             | 56      | 5280            | 3.11                    | 0                      | 3.11                           |                 | Pass    |
|             | 64      | 5320            | 2.81                    | 0                      | 2.81                           |                 | Pass    |
| 11N20 SISO  | 52      | 5260            | 4.38                    | 0                      | 4.38                           | 11              | Pass    |
|             | 56      | 5280            | 3.71                    | 0                      | 3.71                           |                 | Pass    |
|             | 64      | 5320            | 4.18                    | 0                      | 4.18                           |                 | Pass    |
| 11N40 SISO  | 54      | 5270            | 0.74                    | 0                      | 0.74                           | 11              | Pass    |
|             | 62      | 5310            | 1.37                    | 0                      | 1.37                           |                 | Pass    |
| 11AC20 SISO | 52      | 5260            | 4.31                    | 0                      | 4.31                           | 11              | Pass    |
|             | 56      | 5280            | 3.58                    | 0                      | 3.58                           |                 | Pass    |
|             | 64      | 5320            | 3.71                    | 0                      | 3.71                           |                 | Pass    |
| 11AC40 SISO | 54      | 5270            | -2.21                   | 0                      | -2.21                          | 11              | Pass    |
|             | 62      | 5310            | -2.56                   | 0                      | -2.56                          |                 | Pass    |
| 11AC80 SISO | 58      | 5290            | -1.68                   | 0                      | -1.68                          | 11              | Pass    |



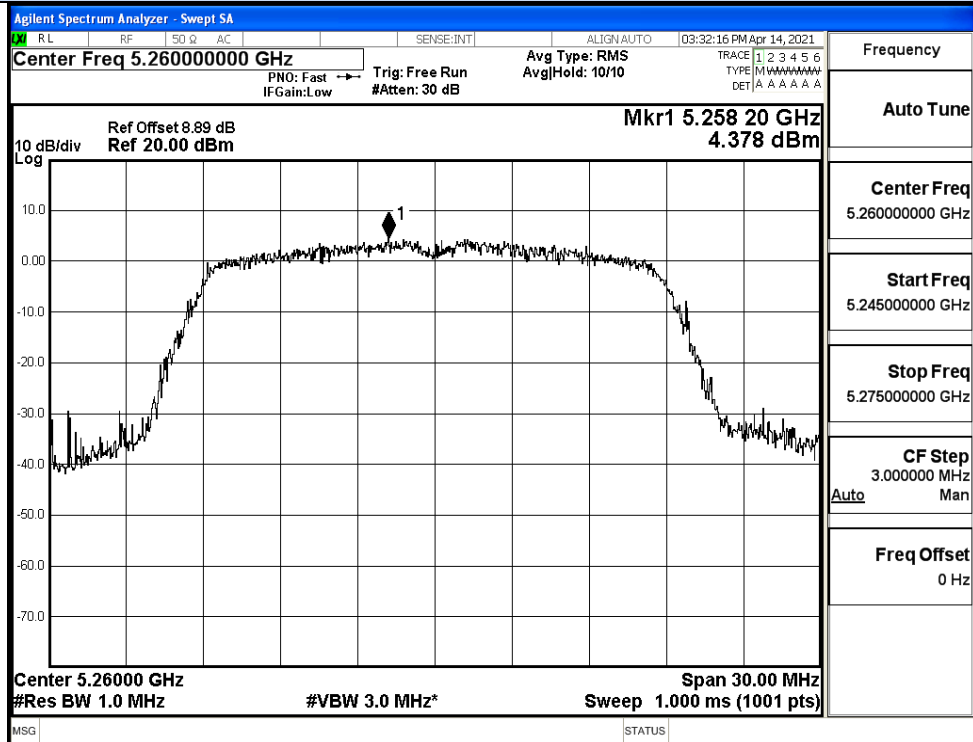


IEEE 802.11na / Channel 56 / 5280MHz

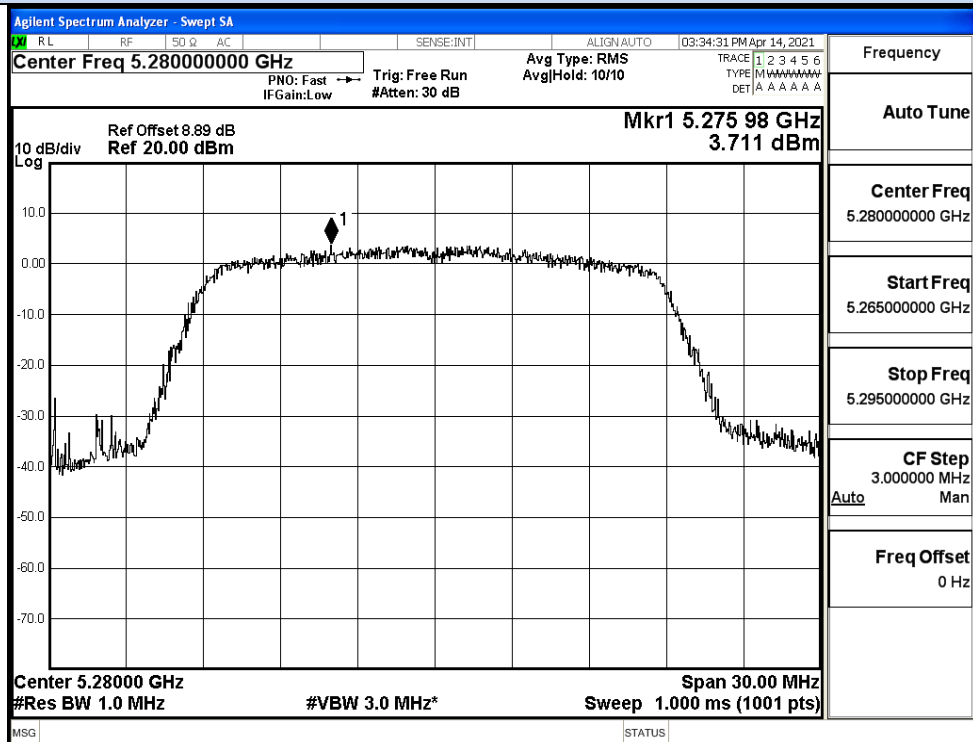


IEEE 802.11na / Channel 64 / 5320MHz

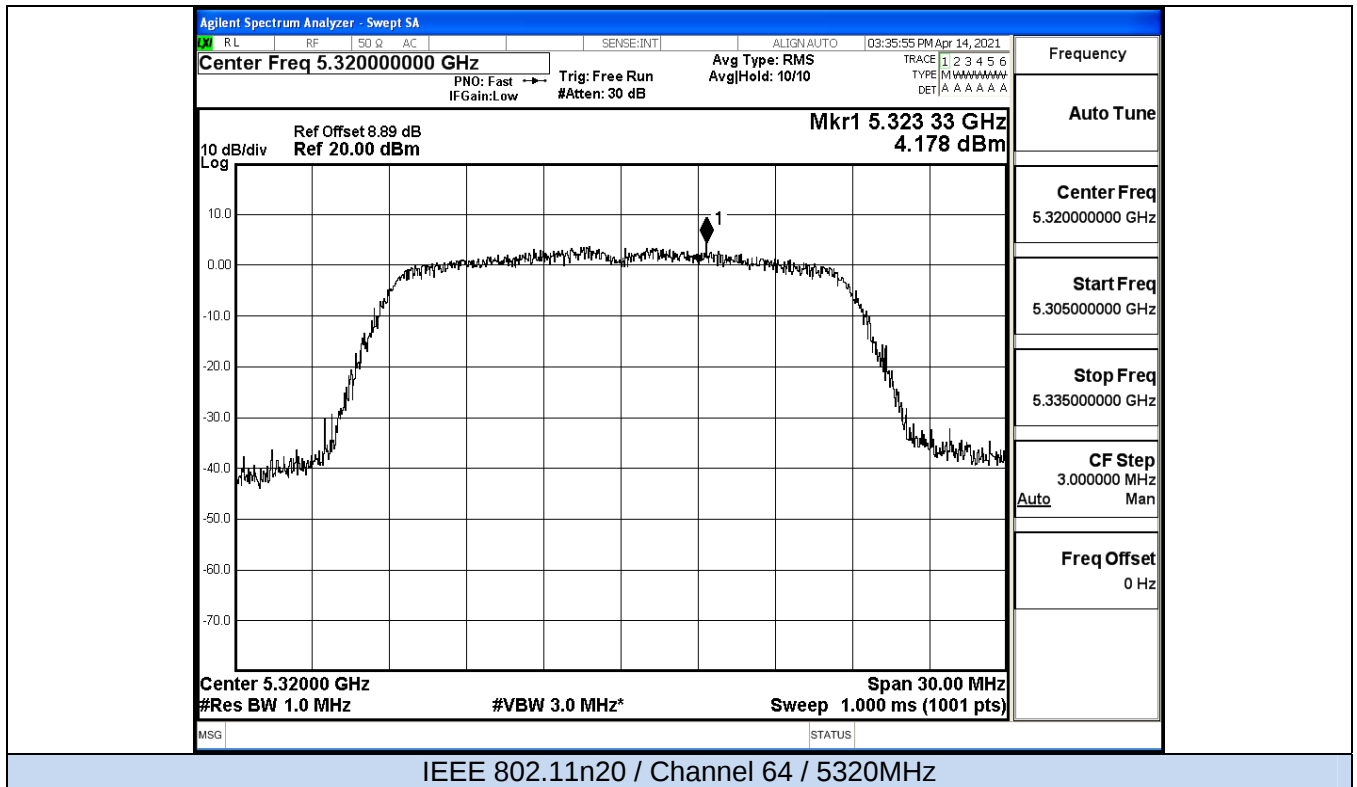
### Power Spectral Density



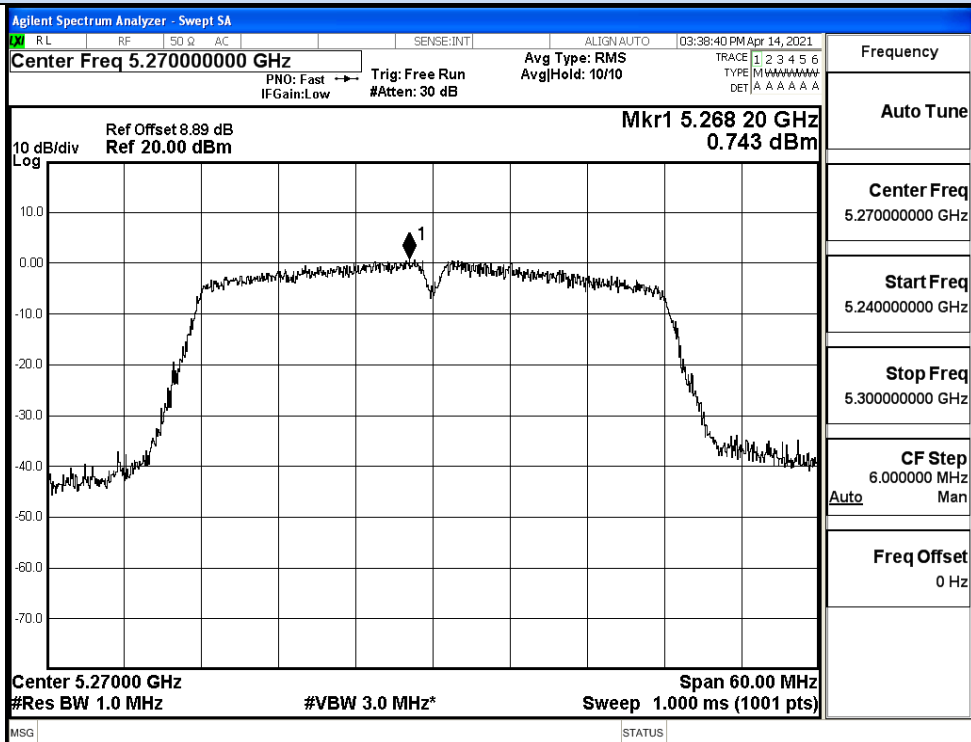
### IEEE 802.11n20 / Channel 52 / 5260MHz



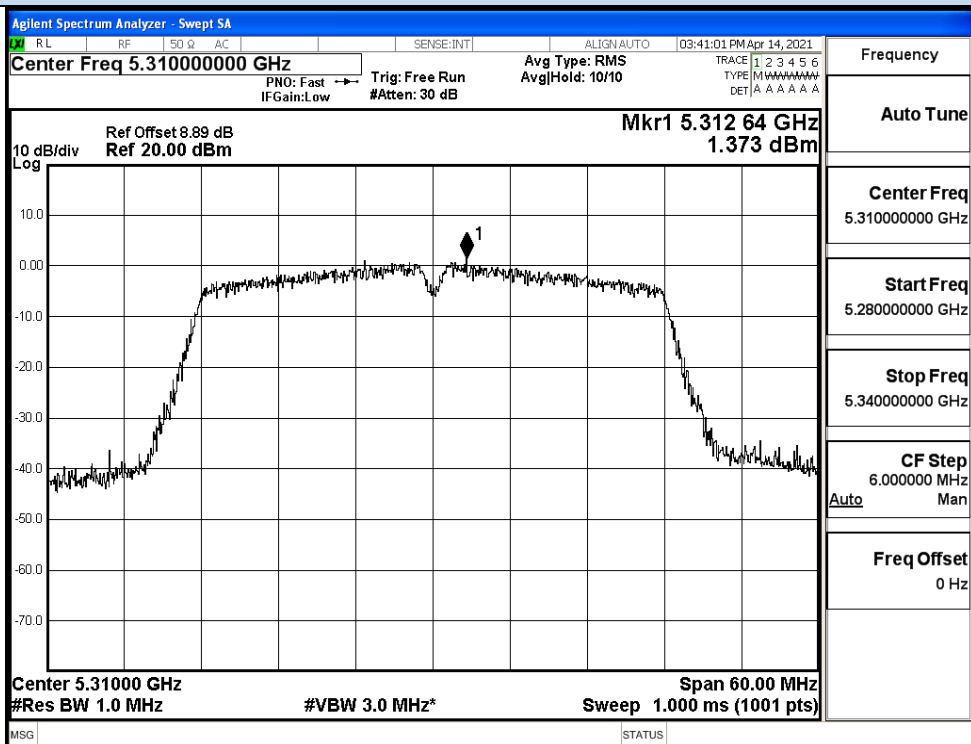
### IEEE 802.11n20 / Channel 56 / 5280MHz



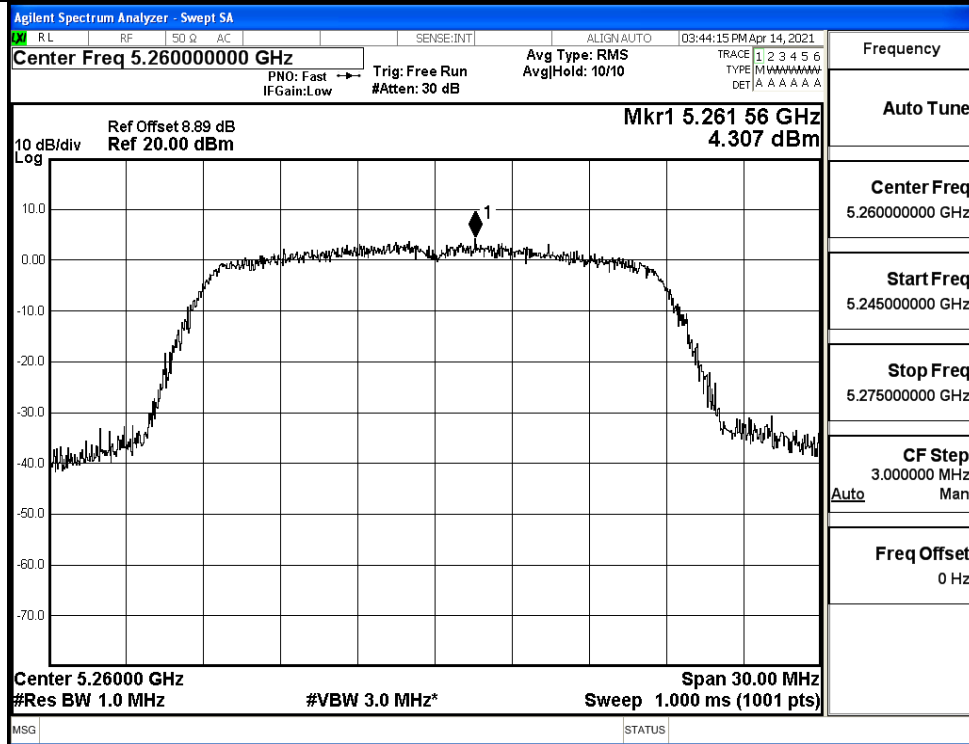
## Power Spectral Density



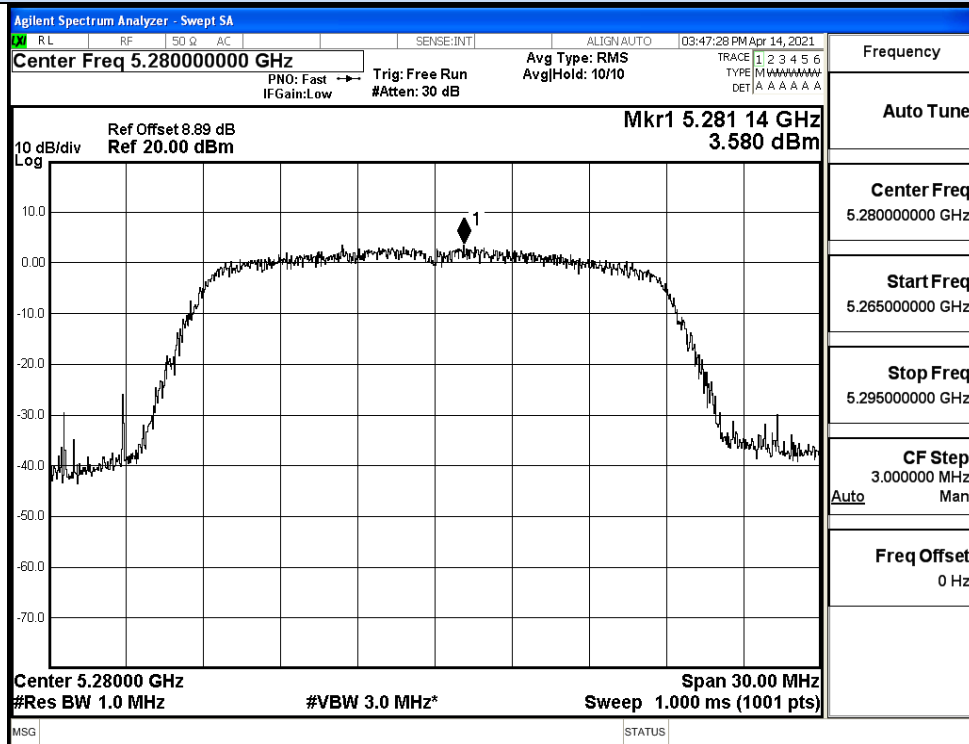
## IEEE 802.11n40 / Channel 54 / 5270MHz



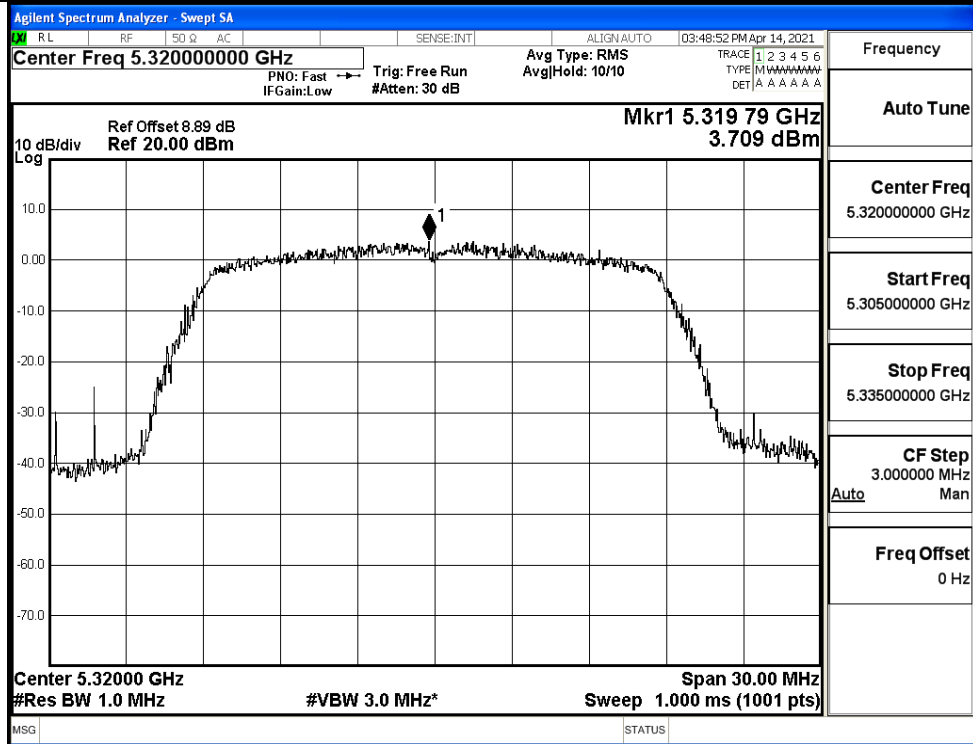
## IEEE 802.11n40 / Channel 62 / 5310MHz



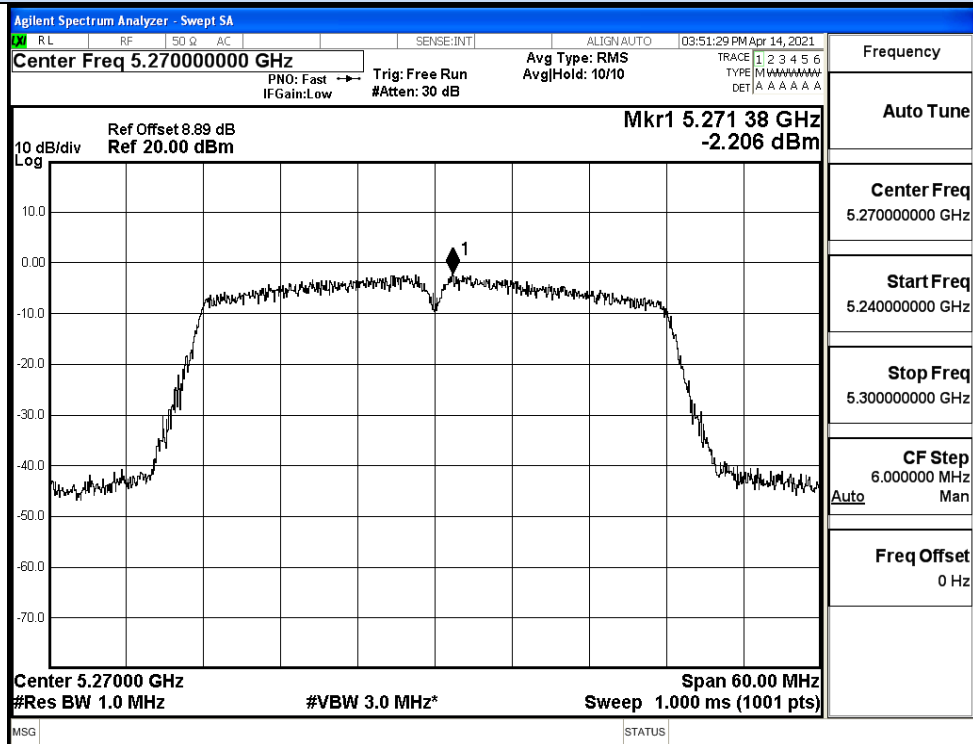
IEEE 802.11ac20 / Channel 52 / 5260MHz



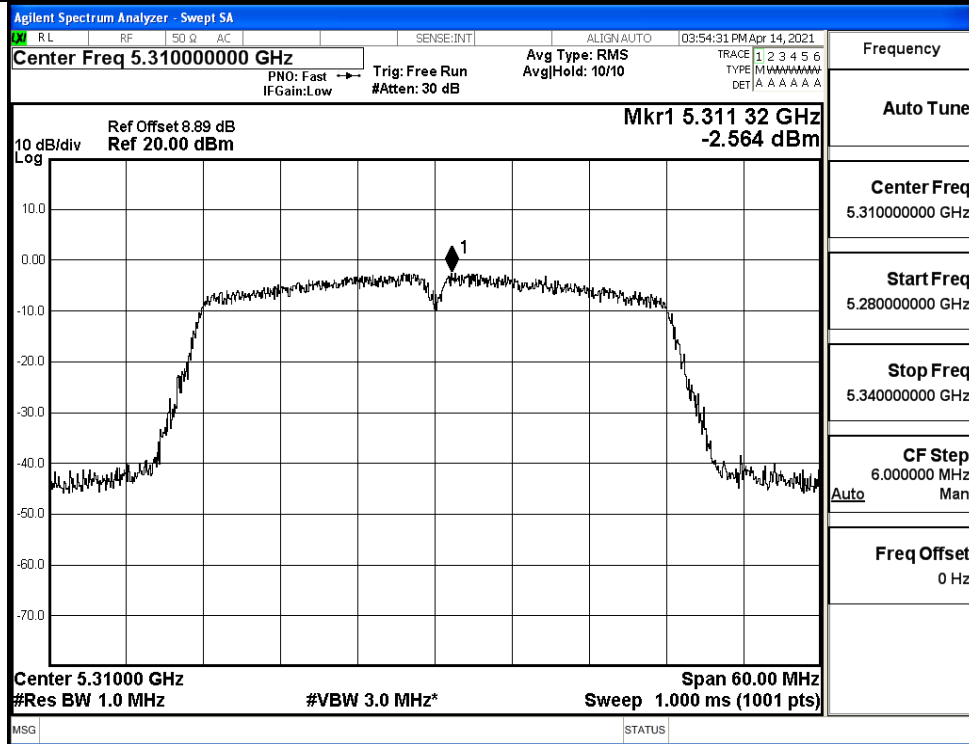
IEEE 802.11ac20 / Channel 56 / 5280MHz



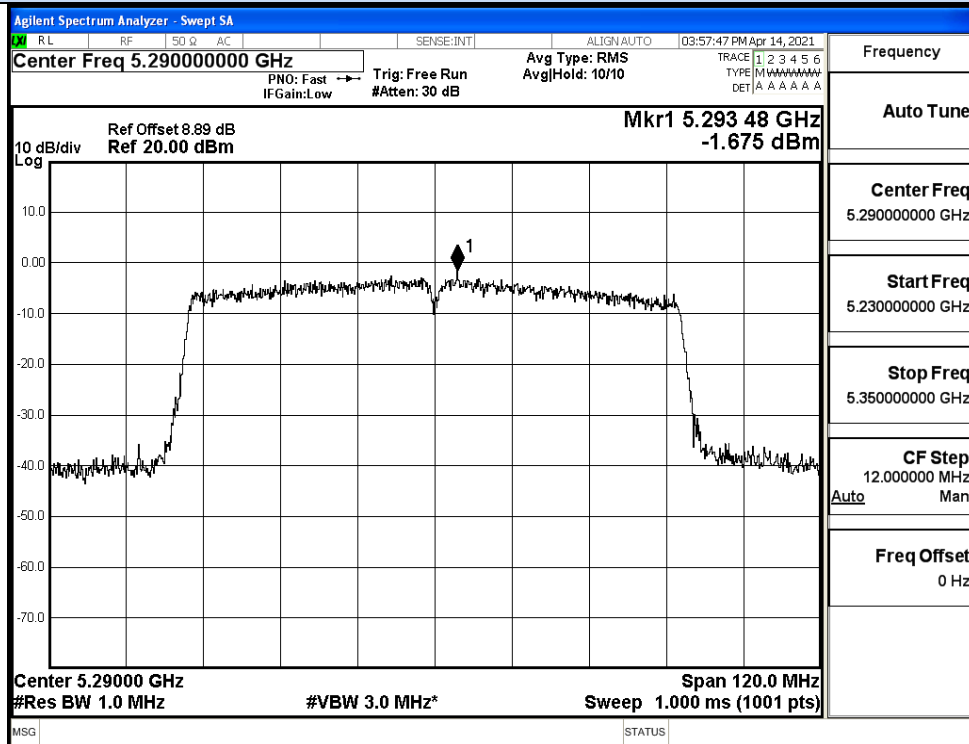
IEEE 802.11ac20 / Channel 64 / 5320MHz



IEEE 802.11ac40 / Channel 54 / 5270MHz



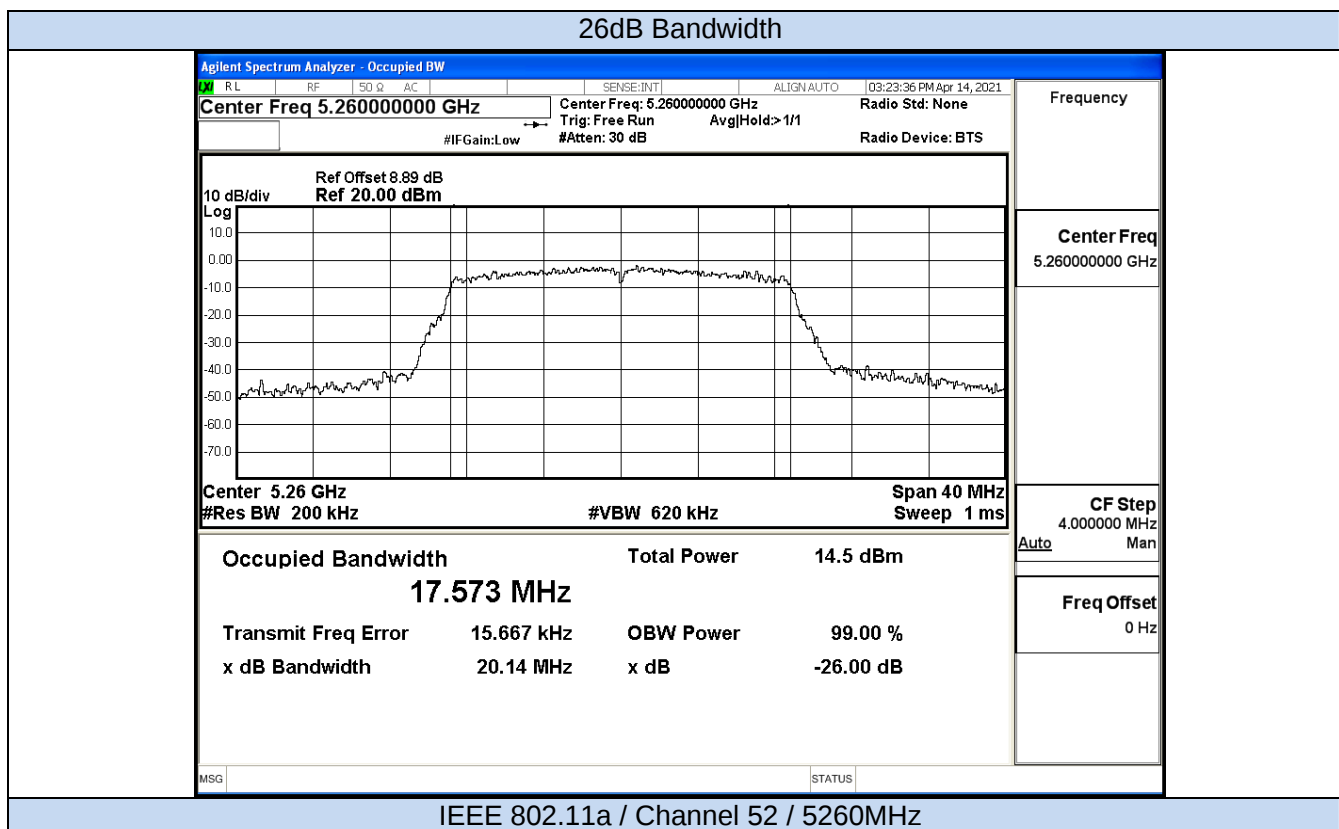
IEEE 802.11ac40 / Channel 62 / 5310MHz

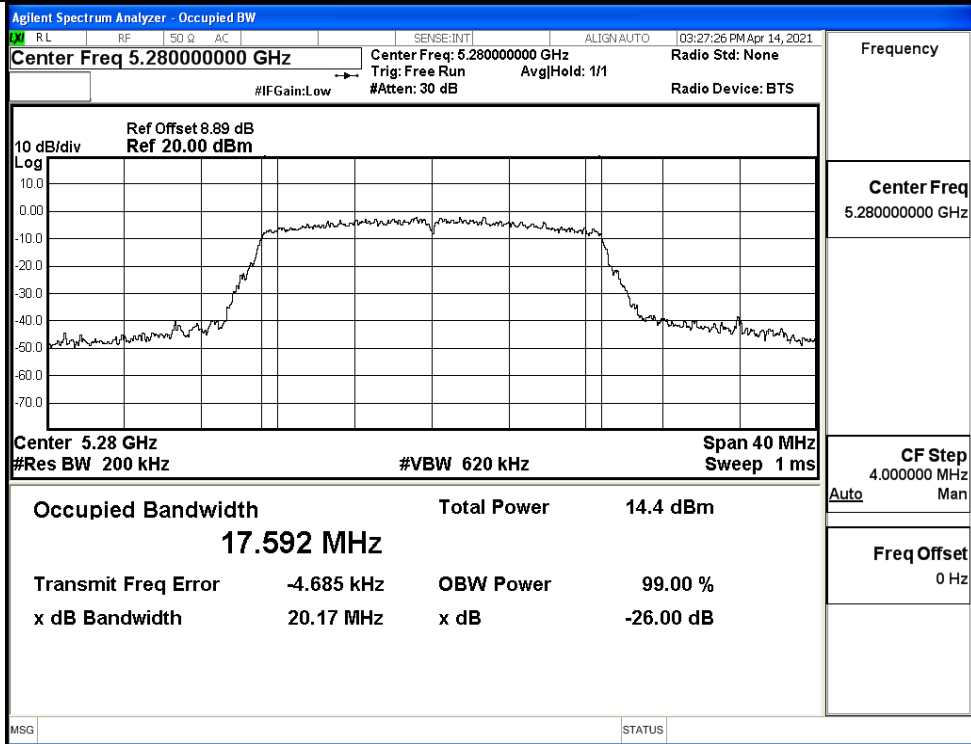


IEEE 802.11ac80 / Channel 58 / 5290MHz

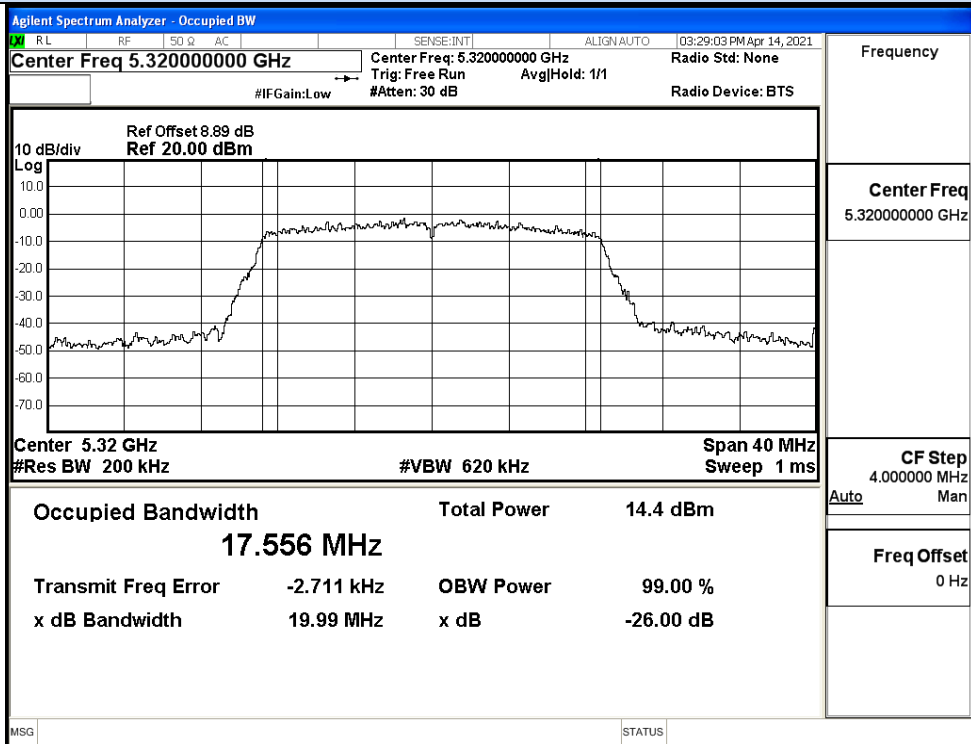
## C.4 Emission Bandwidth

| Test Mode   | Channel | Frequency (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |
|-------------|---------|-----------------|----------------------|-------------|---------|
| 11A         | 52      | 5260            | 20.14                | No Limit    | Pass    |
|             | 56      | 5280            | 20.17                |             | Pass    |
|             | 64      | 5320            | 19.99                |             | Pass    |
| 11N20 SISO  | 52      | 5260            | 20.20                | No Limit    | Pass    |
|             | 56      | 5280            | 19.96                |             | Pass    |
|             | 64      | 5320            | 20.16                |             | Pass    |
| 11N40 SISO  | 54      | 5270            | 39.91                | No Limit    | Pass    |
|             | 62      | 5310            | 40.20                |             | Pass    |
| 11AC20 SISO | 52      | 5260            | 20.29                | No Limi     | Pass    |
|             | 56      | 5280            | 20.30                |             | Pass    |
|             | 64      | 5320            | 20.25                |             | Pass    |
| 11AC40 SISO | 54      | 5270            | 40.03                | No Limi     | Pass    |
|             | 62      | 5310            | 39.88                |             | Pass    |
| 11AC80 SISO | 58      | 5290            | 80.70                | No Limi     | Pass    |



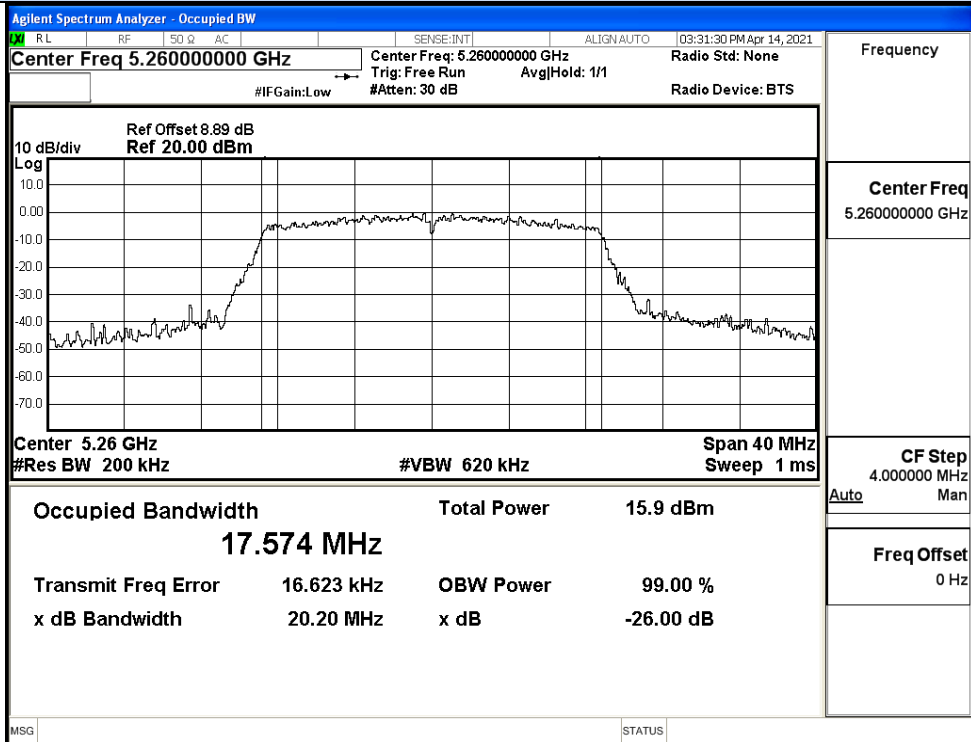


IEEE 802.11a / Channel 56 / 5280MHz

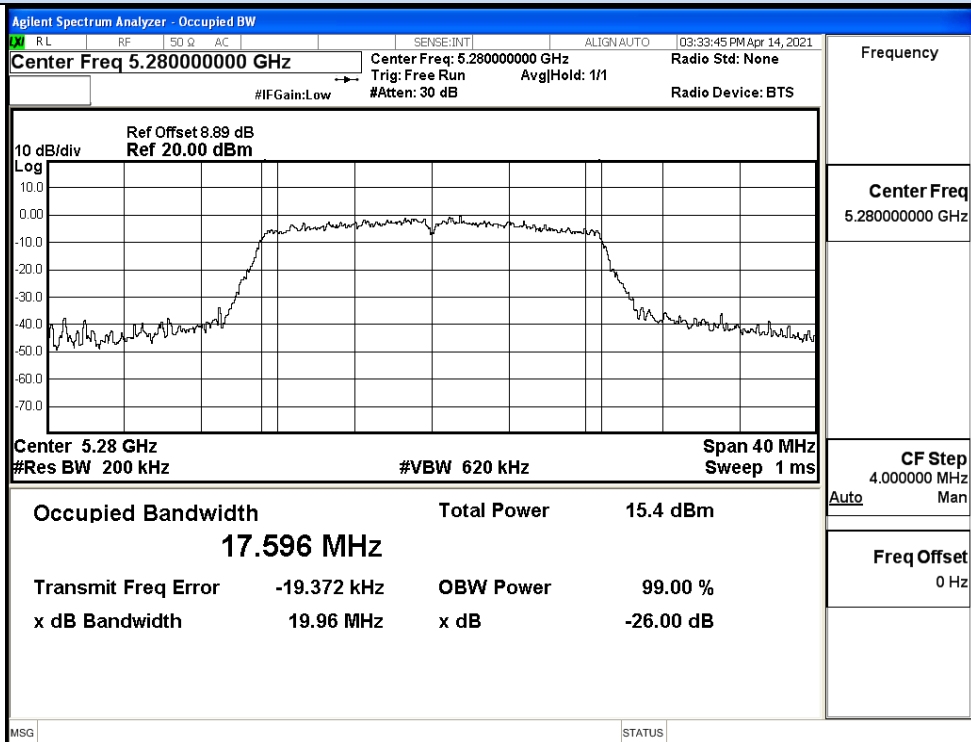


IEEE 802.11a / Channel 64 / 5320MHz

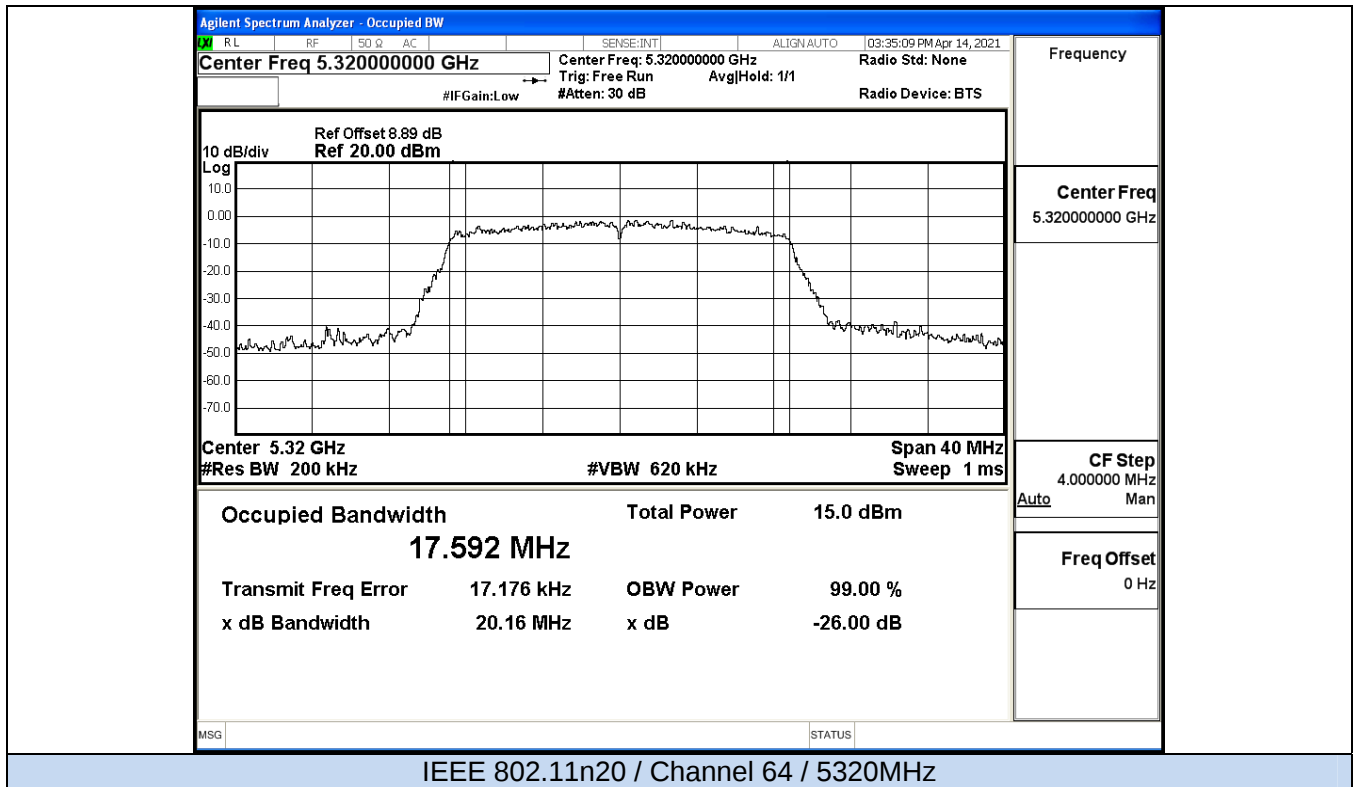
## 26dB Bandwidth



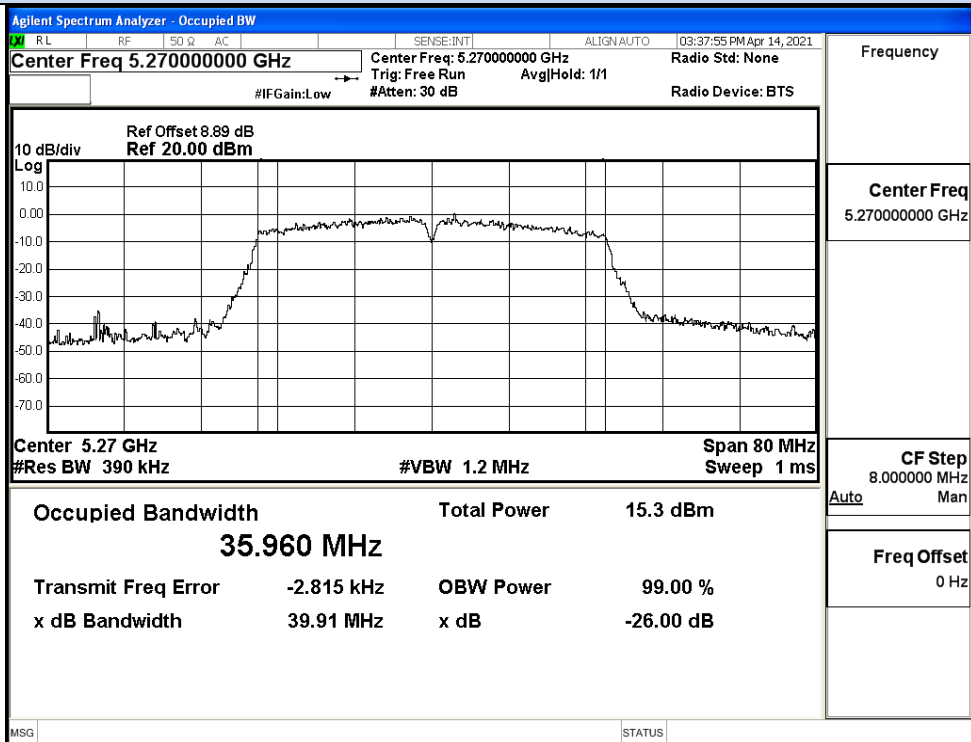
## IEEE 802.11n20 / Channel 52 / 5260MHz



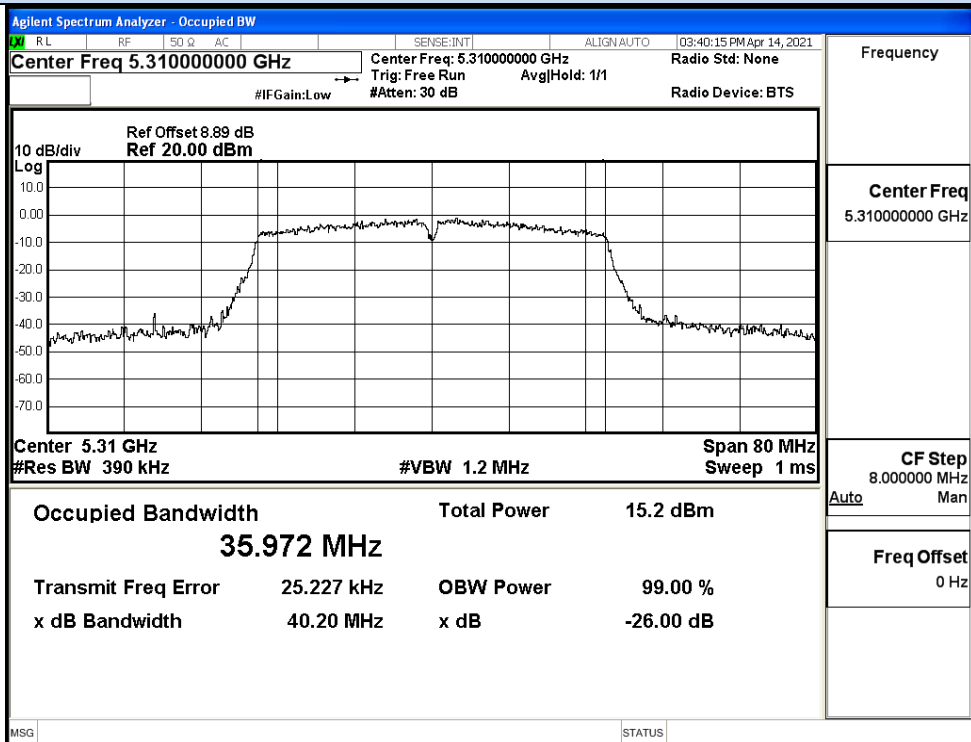
## IEEE 802.11n20 / Channel 56 / 5280MHz



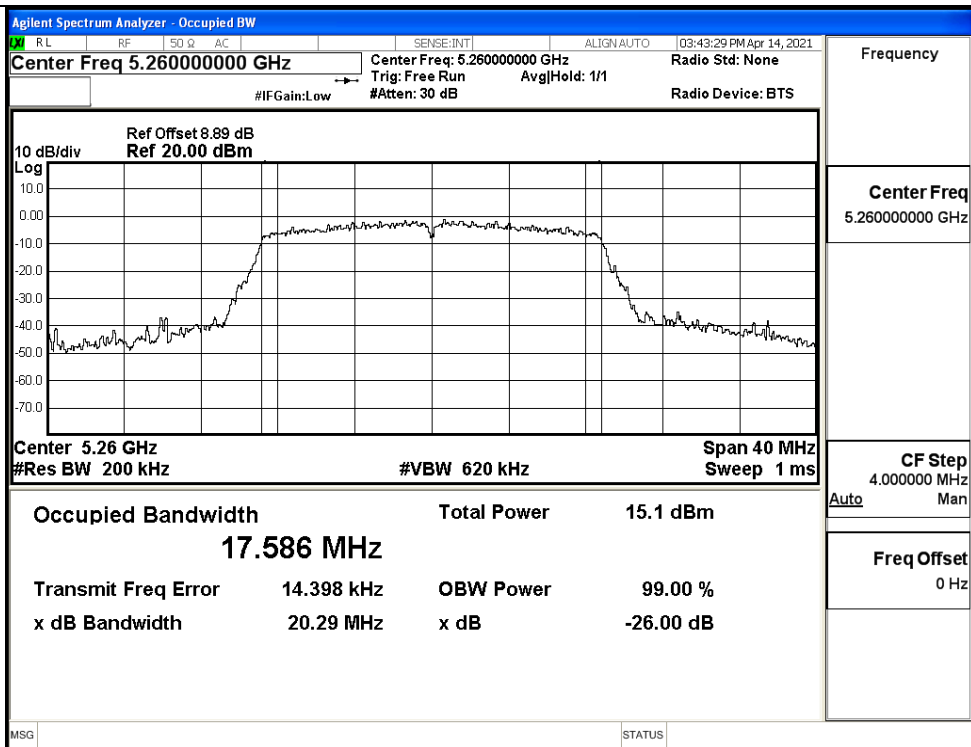
## 26dB Bandwidth



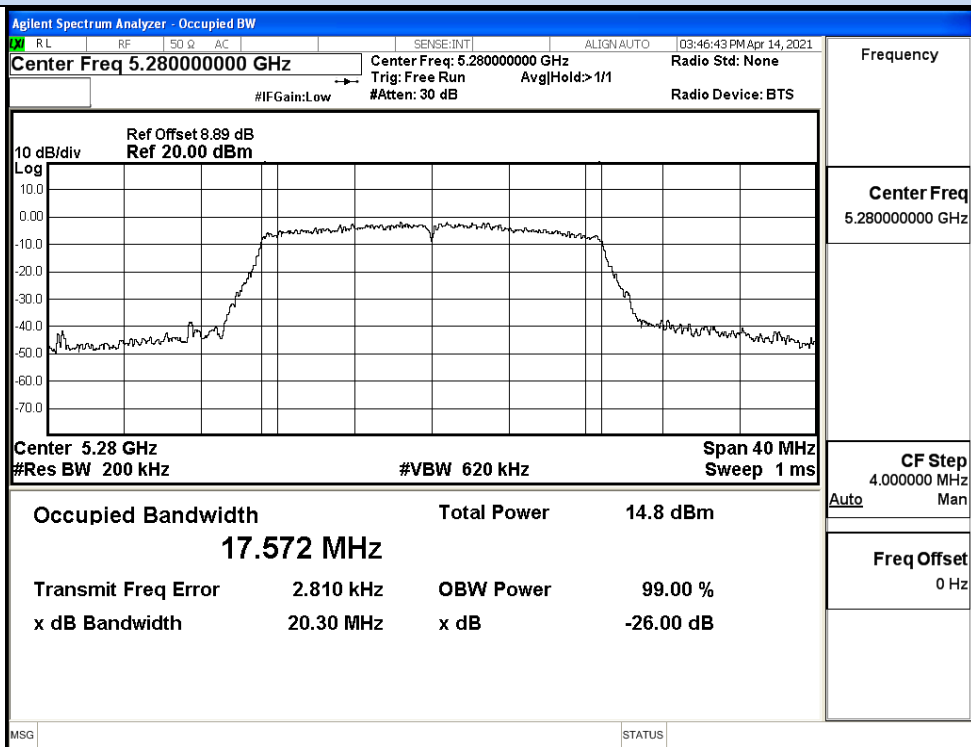
## IEEE 802.11n40 / Channel 54 / 5270MHz



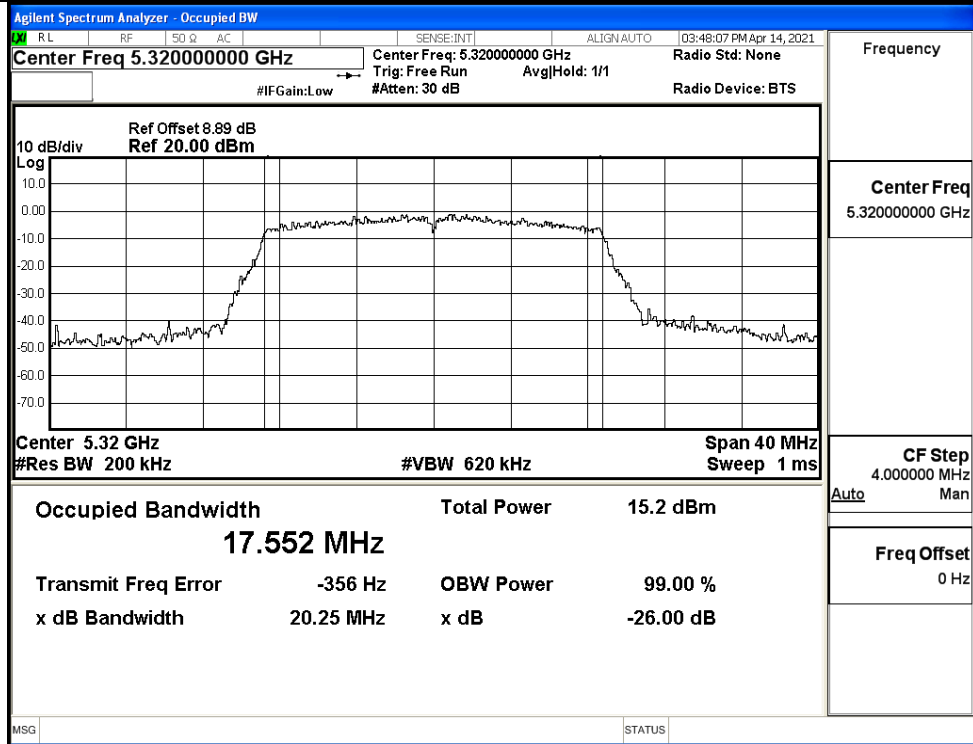
## IEEE 802.11n40 / Channel 62 / 5310MHz



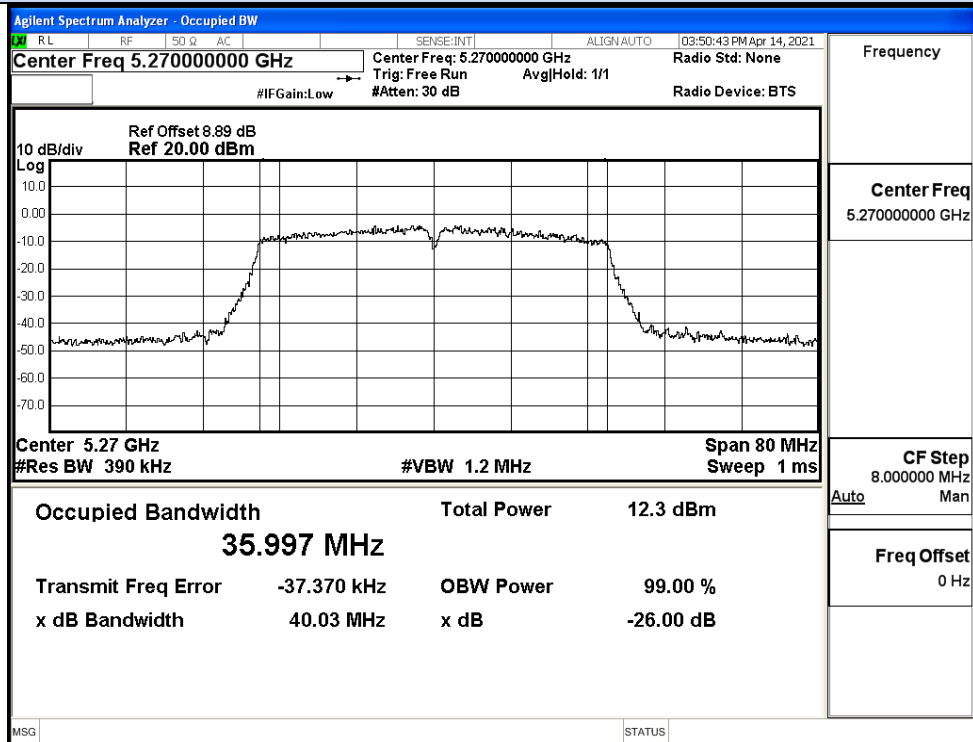
IEEE 802.11ac20 / Channel 52 / 5260MHz



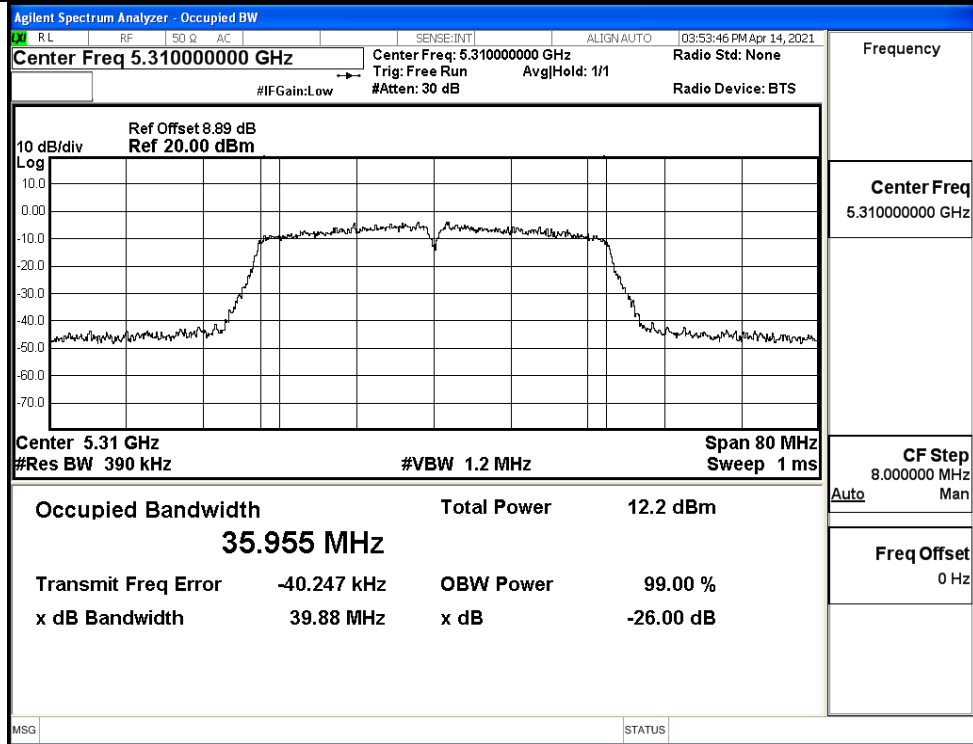
IEEE 802.11ac20 / Channel 56 / 5280MHz



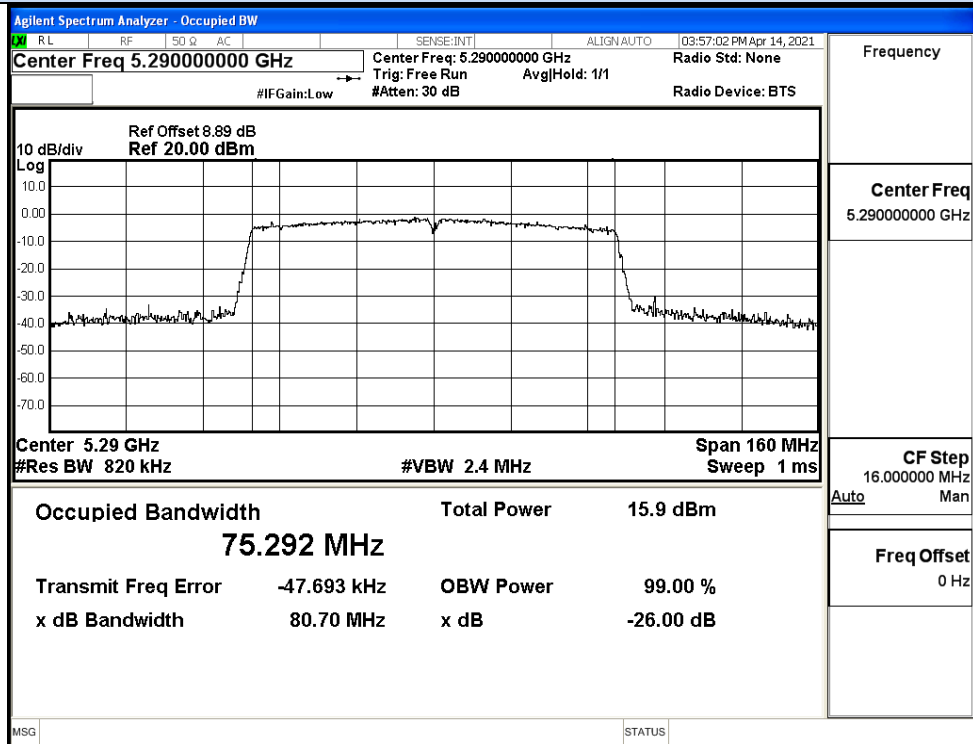
IEEE 802.11ac20 / Channel 64 / 5320MHz



IEEE 802.11ac40 / Channel 54 / 5270MHz



IEEE 802.11ac40 / Channel 62 / 5310MHz

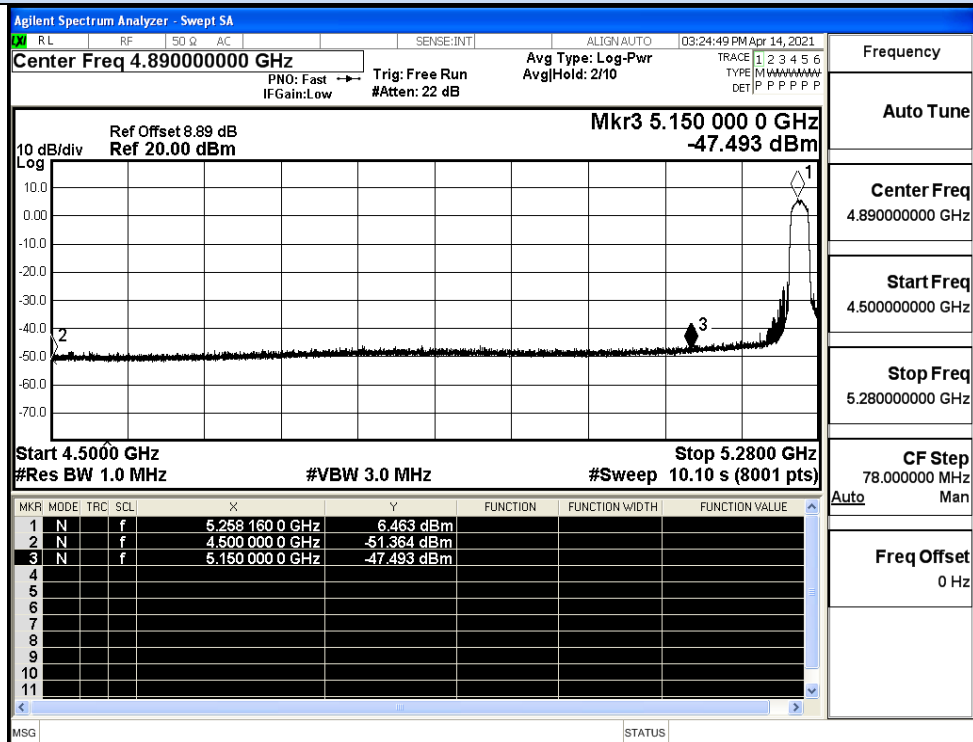


IEEE 802.11ac80 / Channel 58 / 5290MHz

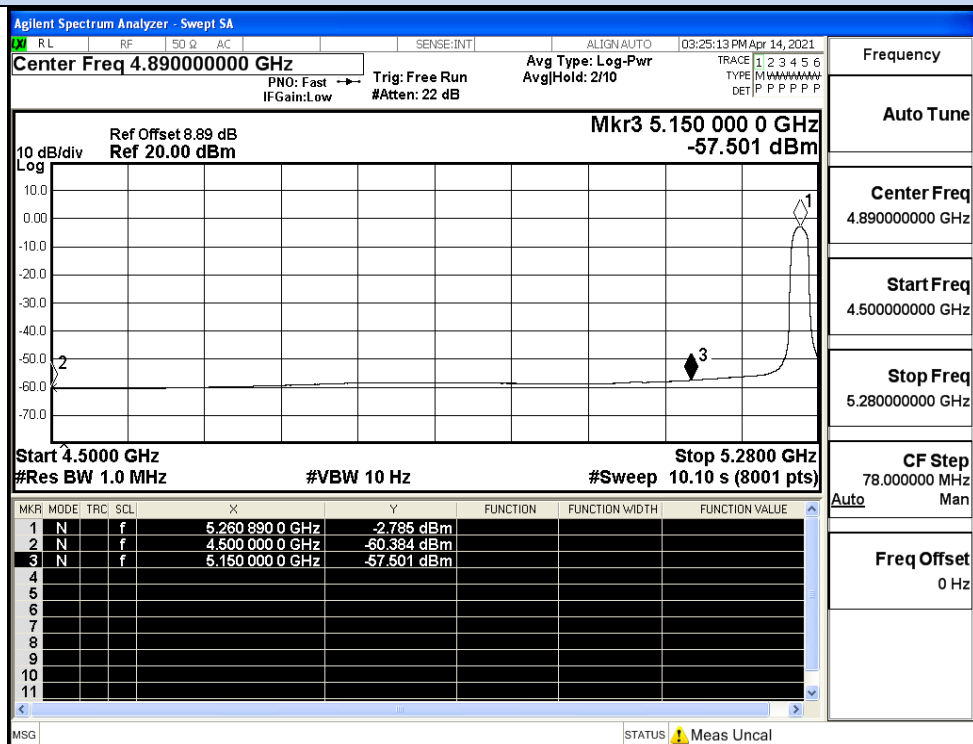
## C.5 Undesirable Emissions Measurement

| 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                    | 52      | 4500.0          | -51.36                | 2.81               | 0                             | 46.68                                  | Peak     | 68.20          | Pass    |
|                        |         | 4500.0          | -60.38                | 2.81               | 0                             | 37.66                                  | Average  | 54.00          | Pass    |
|                        |         | 5150.0          | -47.49                | 2.81               | 0                             | 50.55                                  | Peak     | 68.20          | Pass    |
|                        |         | 5150.0          | -57.50                | 2.81               | 0                             | 40.54                                  | Average  | 54.00          | Pass    |
|                        | 64      | 5350.0          | -45.68                | 2.81               | 0                             | 52.36                                  | Peak     | 68.20          | Pass    |
|                        |         | 5350.0          | -57.08                | 2.81               | 0                             | 40.96                                  | Average  | 54.00          | Pass    |
|                        |         | 5460.0          | -48.52                | 2.81               | 0                             | 49.52                                  | Peak     | 68.20          | Pass    |
|                        |         | 5460.0          | -59.84                | 2.81               | 0                             | 38.20                                  | Average  | 54.00          | Pass    |
| 11N2<br>O<br>SISO      | 52      | 4500.0          | -49.23                | 2.81               | 0                             | 48.81                                  | Peak     | 68.20          | Pass    |
|                        |         | 4500.0          | -60.42                | 2.81               | 0                             | 37.62                                  | Average  | 54.00          | Pass    |
|                        |         | 5150.0          | -47.54                | 2.81               | 0                             | 50.50                                  | Peak     | 68.20          | Pass    |
|                        |         | 5150.0          | -57.51                | 2.81               | 0                             | 40.53                                  | Average  | 54.00          | Pass    |
|                        | 64      | 5350.0          | -40.33                | 2.81               | 0                             | 57.71                                  | Peak     | 68.20          | Pass    |
|                        |         | 5350.0          | -57.00                | 2.81               | 0                             | 41.04                                  | Average  | 54.00          | Pass    |
|                        |         | 5460.0          | -48.59                | 2.81               | 0                             | 49.45                                  | Peak     | 68.20          | Pass    |
|                        |         | 5460.0          | -59.81                | 2.81               | 0                             | 38.23                                  | Average  | 54.00          | Pass    |
| 11N4<br>O<br>SISO      | 54      | 4500.0          | -51.10                | 2.81               | 0                             | 46.94                                  | Peak     | 68.20          | Pass    |
|                        |         | 4500.0          | -60.39                | 2.81               | 0                             | 37.65                                  | Average  | 54.00          | Pass    |
|                        |         | 5150.0          | -48.11                | 2.81               | 0                             | 49.93                                  | Peak     | 68.20          | Pass    |
|                        |         | 5150.0          | -57.65                | 2.81               | 0                             | 40.39                                  | Average  | 54.00          | Pass    |
|                        | 62      | 5350.0          | -39.75                | 2.81               | 0                             | 58.29                                  | Peak     | 68.20          | Pass    |
|                        |         | 5350.0          | -53.25                | 2.81               | 0                             | 44.79                                  | Average  | 54.00          | Pass    |
|                        |         | 5460.0          | -48.80                | 2.81               | 0                             | 49.24                                  | Peak     | 68.20          | Pass    |
|                        |         | 5460.0          | -59.55                | 2.81               | 0                             | 38.49                                  | Average  | 54.00          | Pass    |
| 11A<br>C20<br>SIS<br>O | 52      | 4500.0          | -50.62                | 2.81               | 0                             | 47.42                                  | Peak     | 68.20          | Pass    |
|                        |         | 4500.0          | -60.38                | 2.81               | 0                             | 37.66                                  | Average  | 54.00          | Pass    |
|                        |         | 5150.0          | -47.78                | 2.81               | 0                             | 50.26                                  | Peak     | 68.20          | Pass    |
|                        |         | 5150.0          | -57.55                | 2.81               | 0                             | 40.49                                  | Average  | 54.00          | Pass    |
|                        | 64      | 4500.0          | -50.62                | 2.81               | 0                             | 47.42                                  | Peak     | 68.20          | Pass    |
|                        |         | 4500.0          | -60.38                | 2.81               | 0                             | 37.66                                  | Average  | 54.00          | Pass    |
|                        |         | 5150.0          | -47.78                | 2.81               | 0                             | 50.26                                  | Peak     | 68.20          | Pass    |
|                        |         | 5150.0          | -57.55                | 2.81               | 0                             | 40.49                                  | Average  | 54.00          | Pass    |
| 11A<br>C40<br>SIS<br>O | 54      | 4500.0          | -51.29                | 2.81               | 0                             | 46.75                                  | Peak     | 68.20          | Pass    |
|                        |         | 4500.0          | -60.40                | 2.81               | 0                             | 37.64                                  | Average  | 54.00          | Pass    |
|                        |         | 5150.0          | -47.85                | 2.81               | 0                             | 50.19                                  | Peak     | 68.20          | Pass    |
|                        |         | 5150.0          | -57.90                | 2.81               | 0                             | 40.14                                  | Average  | 54.00          | Pass    |
|                        | 62      | 5350.0          | -44.89                | 2.81               | 0                             | 53.15                                  | Peak     | 68.20          | Pass    |
|                        |         | 5350.0          | -57.07                | 2.81               | 0                             | 40.97                                  | Average  | 54.00          | Pass    |
|                        |         | 5460.0          | -48.38                | 2.81               | 0                             | 49.66                                  | Peak     | 68.20          | Pass    |
|                        |         | 5460.0          | -59.81                | 2.81               | 0                             | 38.23                                  | Average  | 54.00          | Pass    |
| 11A<br>C80<br>SIS<br>O | 58      | 4500.0          | -35.92                | 2.81               | 0                             | 62.12                                  | Peak     | 68.20          | Pass    |
|                        |         | 5150.0          | -48.36                | 2.81               | 0                             | 49.68                                  | Average  | 54.00          | Pass    |
|                        |         | 4500.0          | -48.24                | 2.81               | 0                             | 49.80                                  | Peak     | 68.20          | Pass    |
|                        |         | 5150.0          | -59.20                | 2.81               | 0                             | 38.84                                  | Average  | 54.00          | Pass    |
|                        |         | 5350.0          | -35.92                | 2.81               | 0                             | 62.12                                  | Peak     | 68.20          | Pass    |
|                        |         | 5460.0          | -48.36                | 2.81               | 0                             | 49.68                                  | Average  | 54.00          | Pass    |
|                        |         | 5350.0          | -48.24                | 2.81               | 0                             | 49.80                                  | Peak     | 68.20          | Pass    |
|                        |         | 5460.0          | -59.20                | 2.81               | 0                             | 38.84                                  | Average  | 54.00          | Pass    |

### Undesirable Emissions Measurement

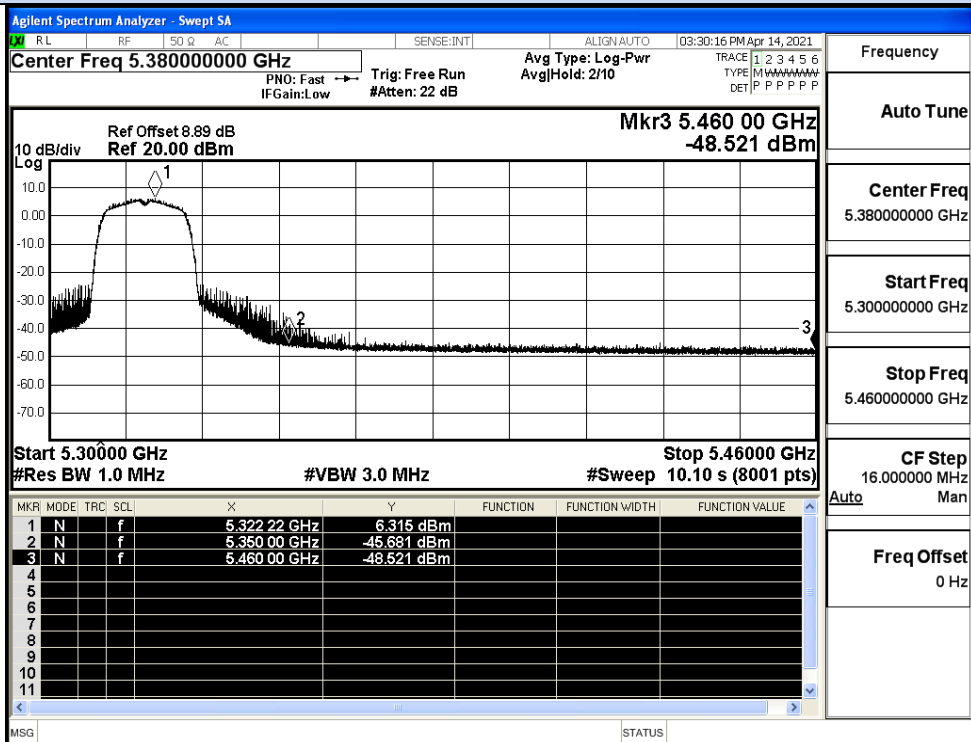


### IEEE 802.11a / Channel 36 / 5260MHz / Peak

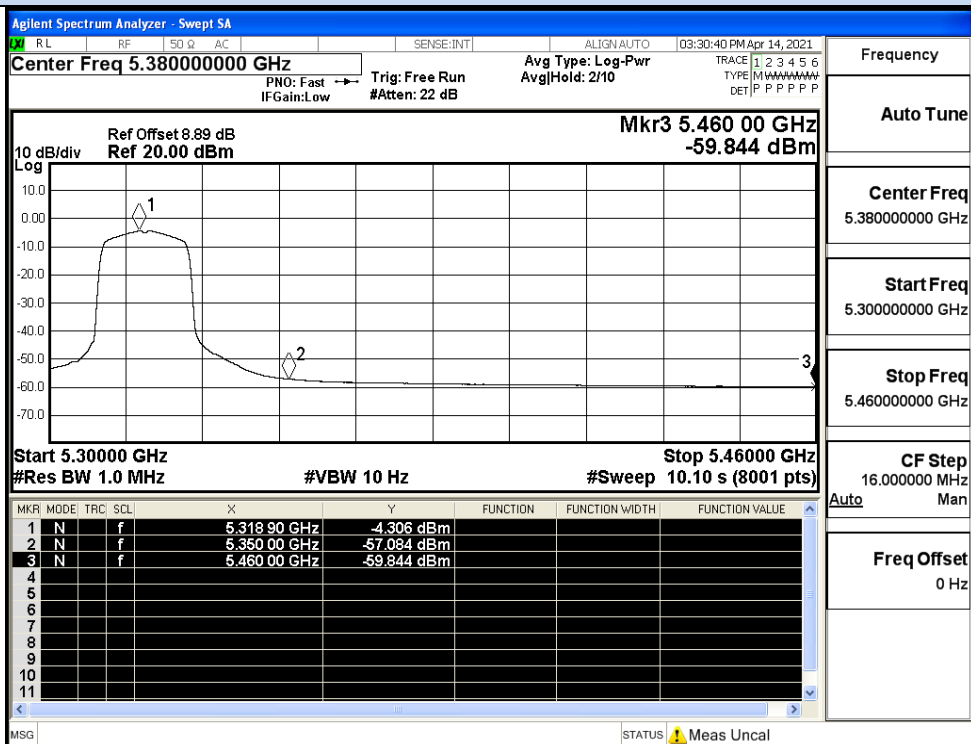


### IEEE 802.11a / Channel 36 / 5260MHz / Average

### Undesirable Emissions Measurement

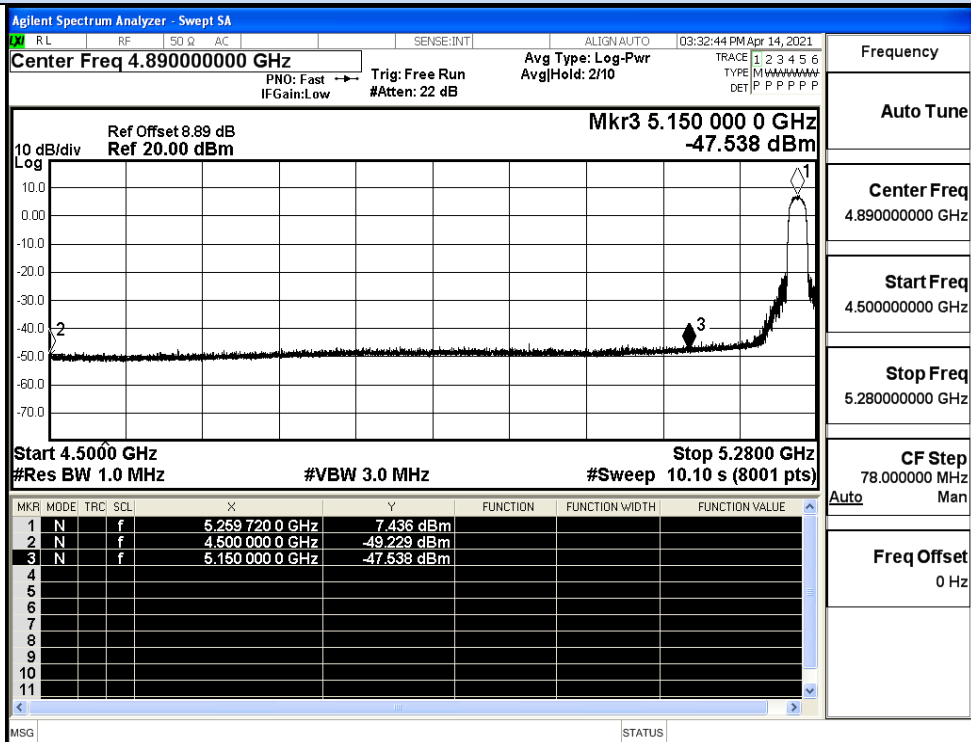


### IEEE 802.11a / Channel 48 / 5320MHz / Peak

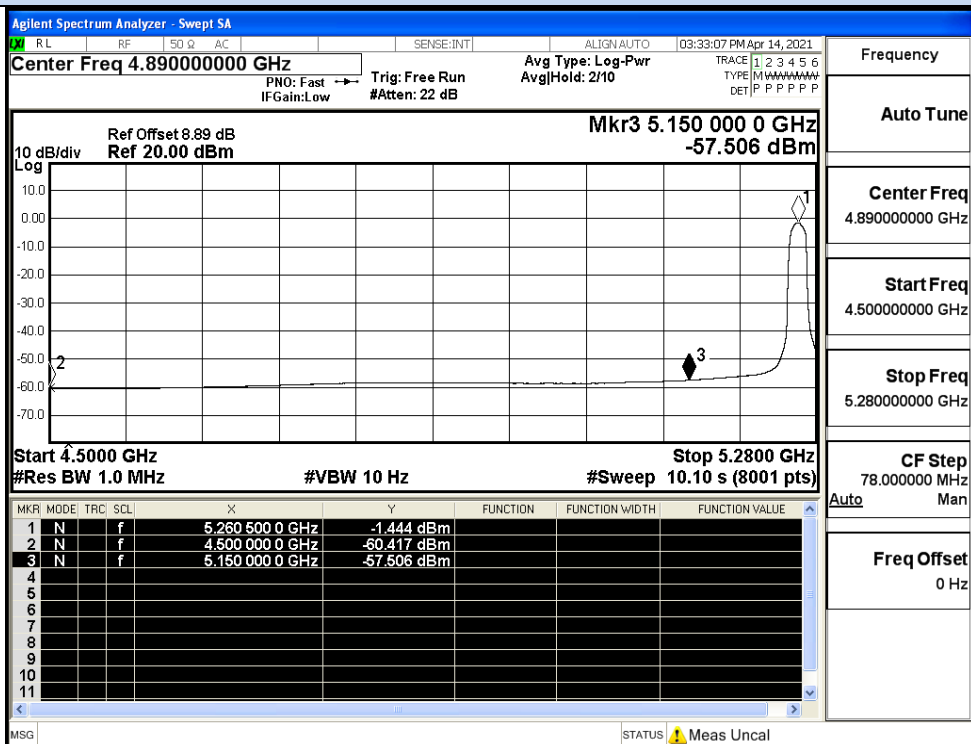


### IEEE 802.11a / Channel 48 / 5320MHz / Average

### Undesirable Emissions Measurement

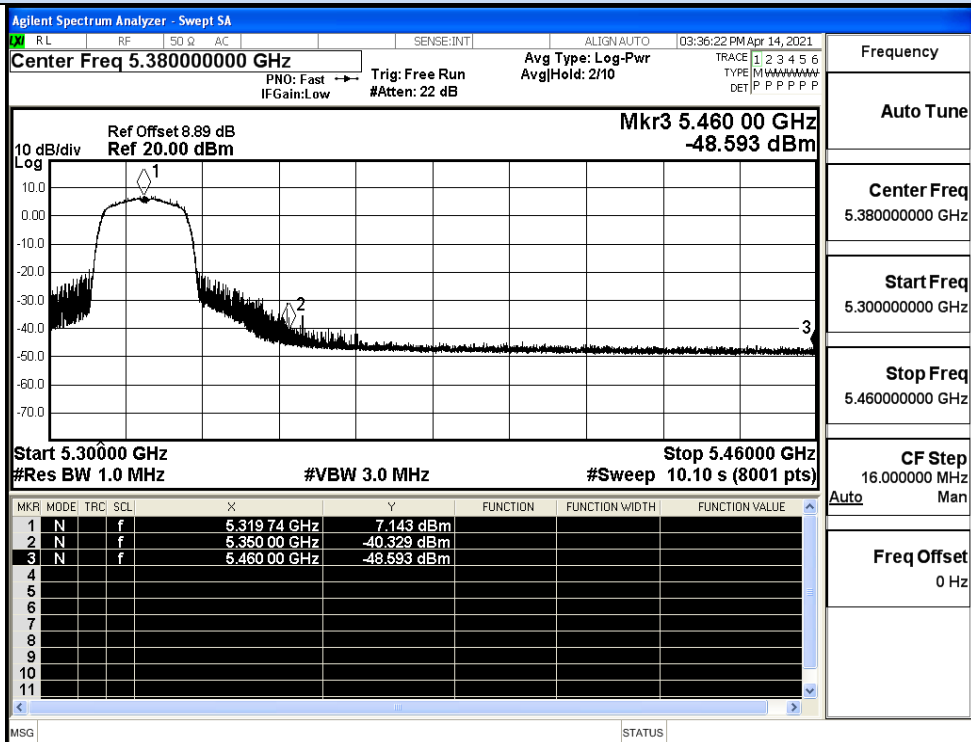


### IEEE 802.11n20 / Channel 36 / 5260MHz / Peak

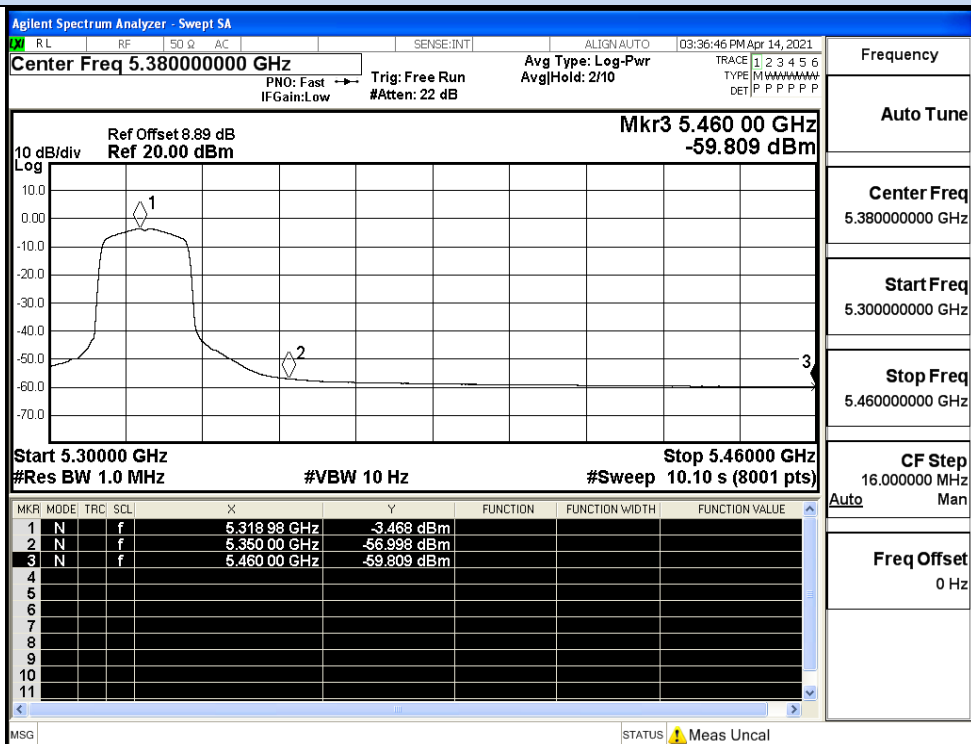


### IEEE 802.11n20 / Channel 36 / 5260MHz / Average

### Undesirable Emissions Measurement

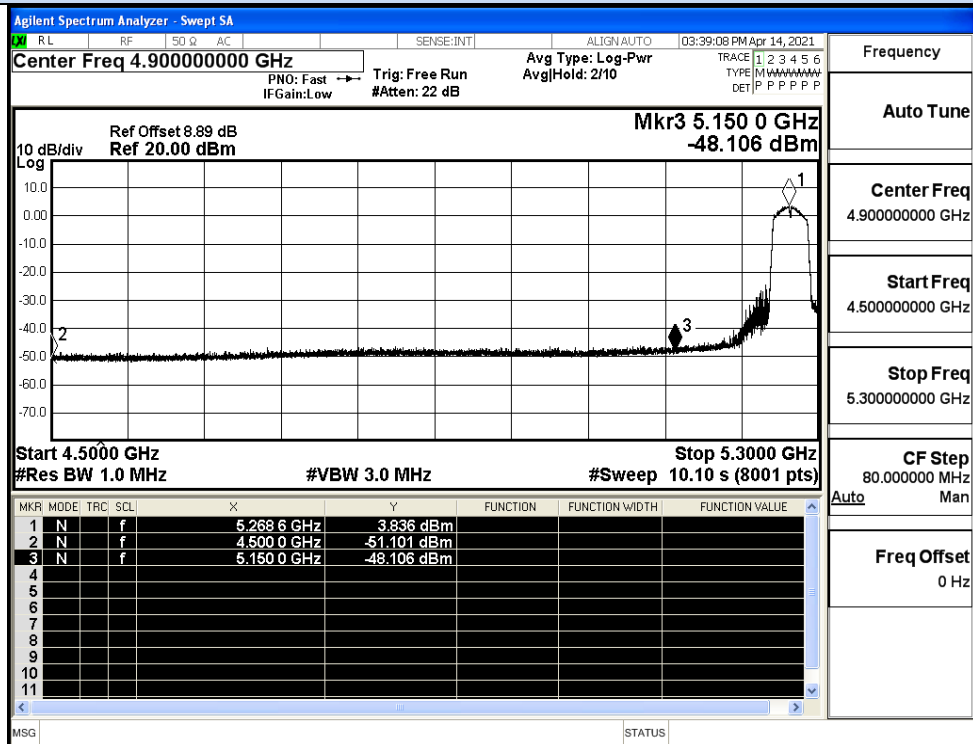


### IEEE 802.11n20 / Channel 48 / 5320MHz / Peak

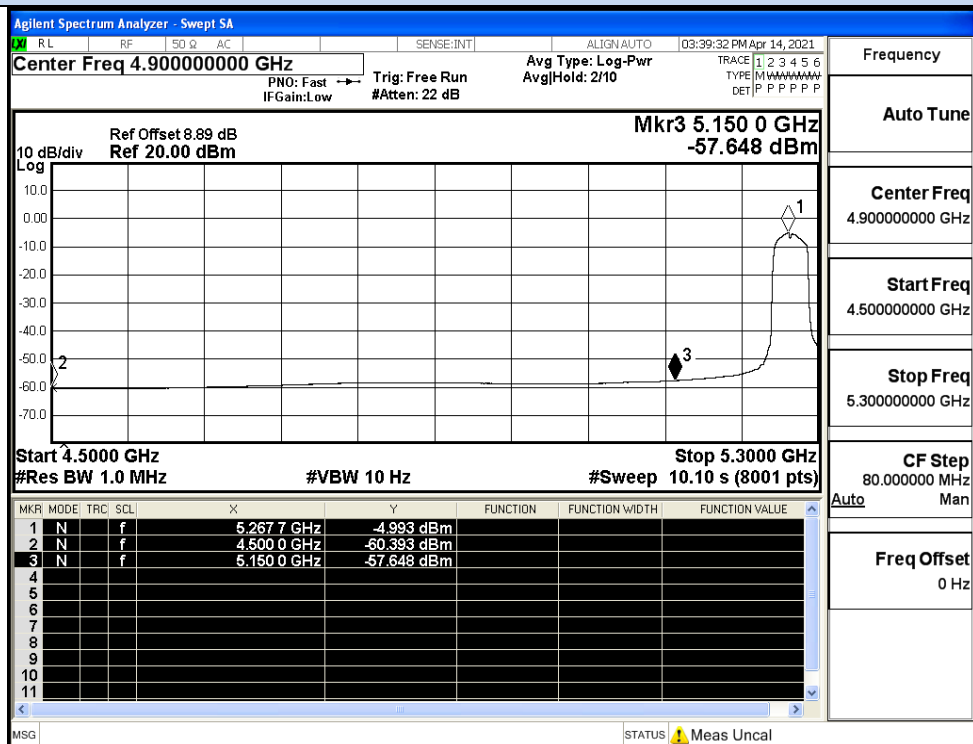


### IEEE 802.11n20 / Channel 48 / 5320MHz / Average

### Undesirable Emissions Measurement

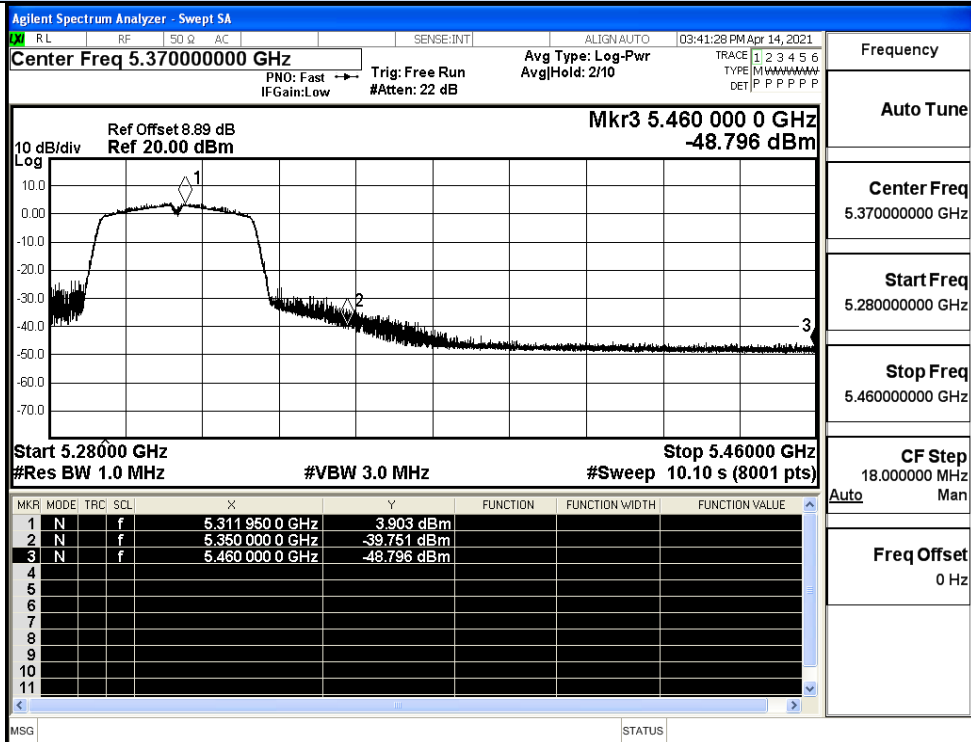


### IEEE 802.11n40 / Channel 38 / 5270MHz / Peak

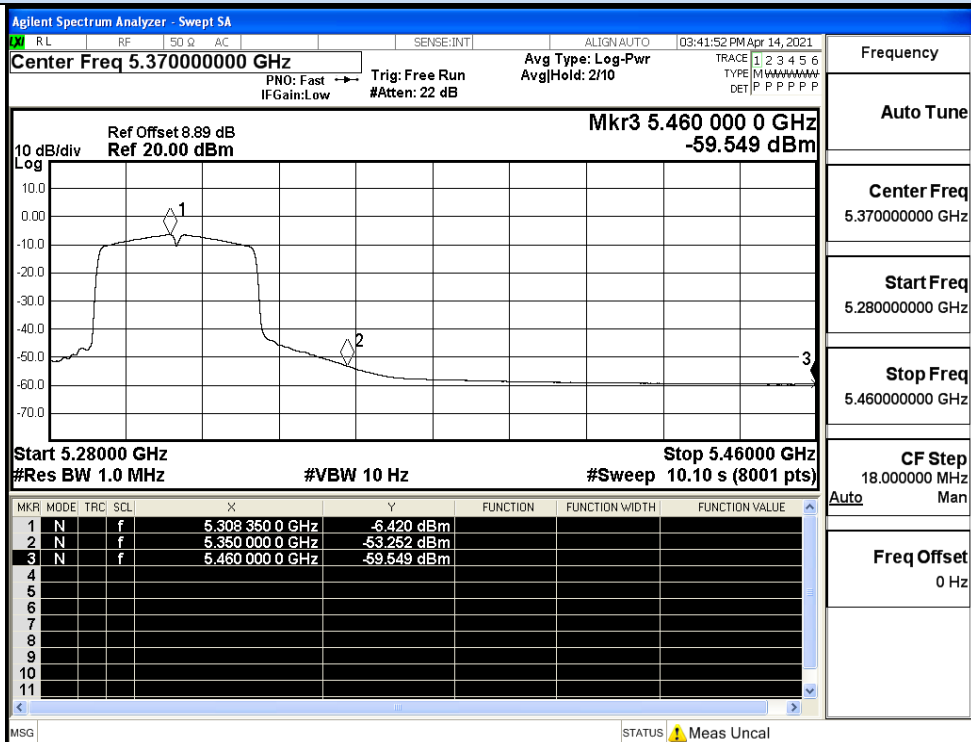


### IEEE 802.11n40 / Channel 38 / 5270MHz / Average

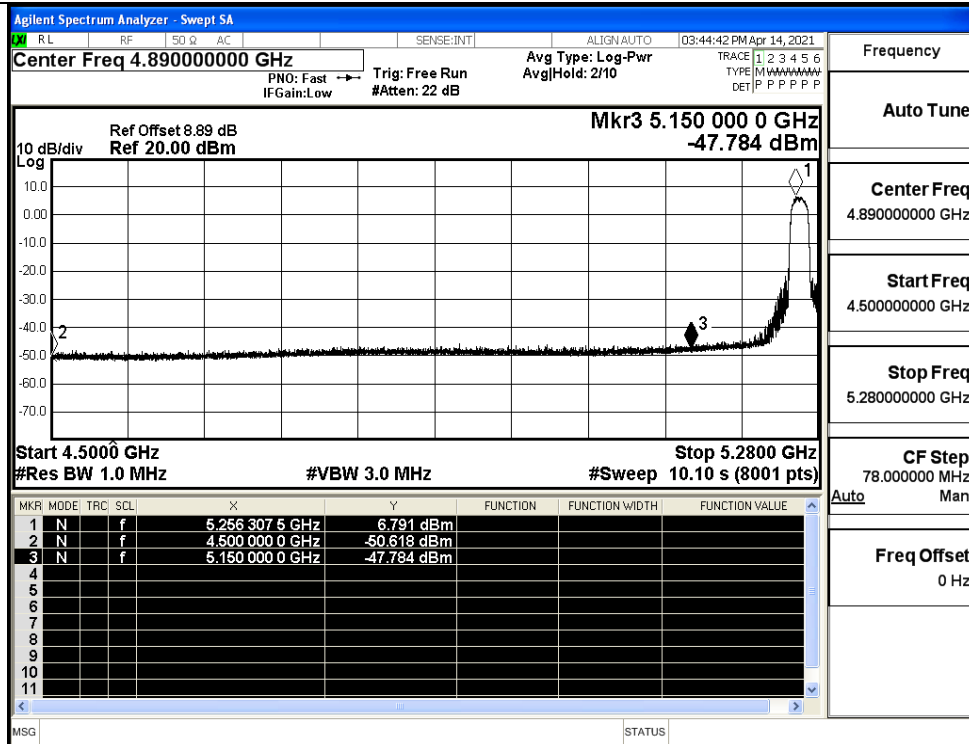
### Undesirable Emissions Measurement



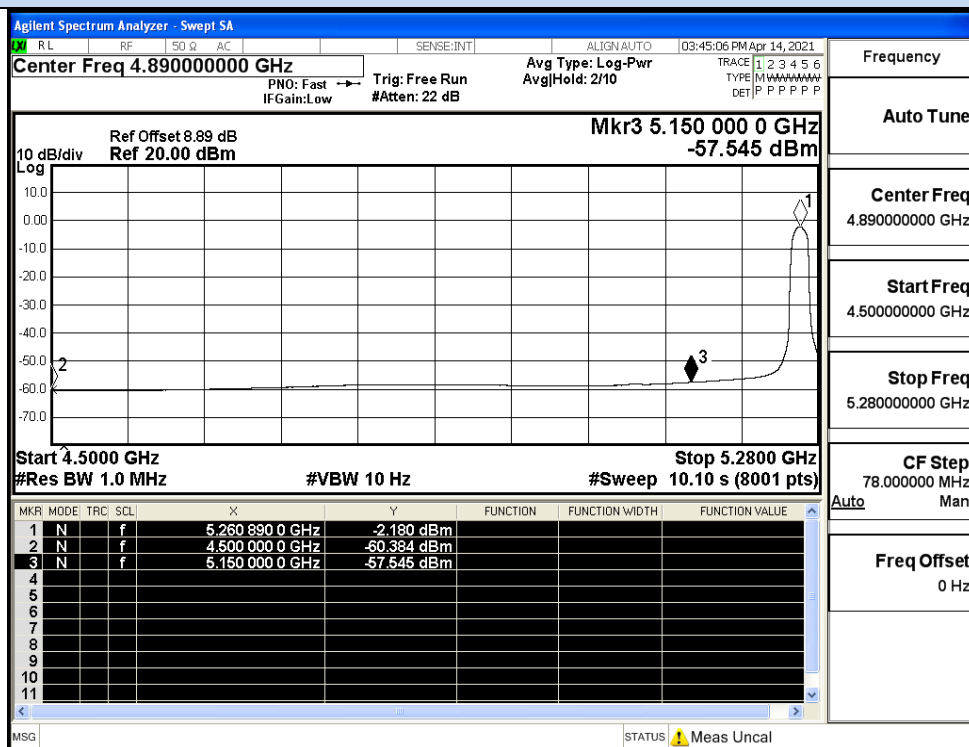
### IEEE 802.11n40 / Channel 46 / 5310MHz / Peak



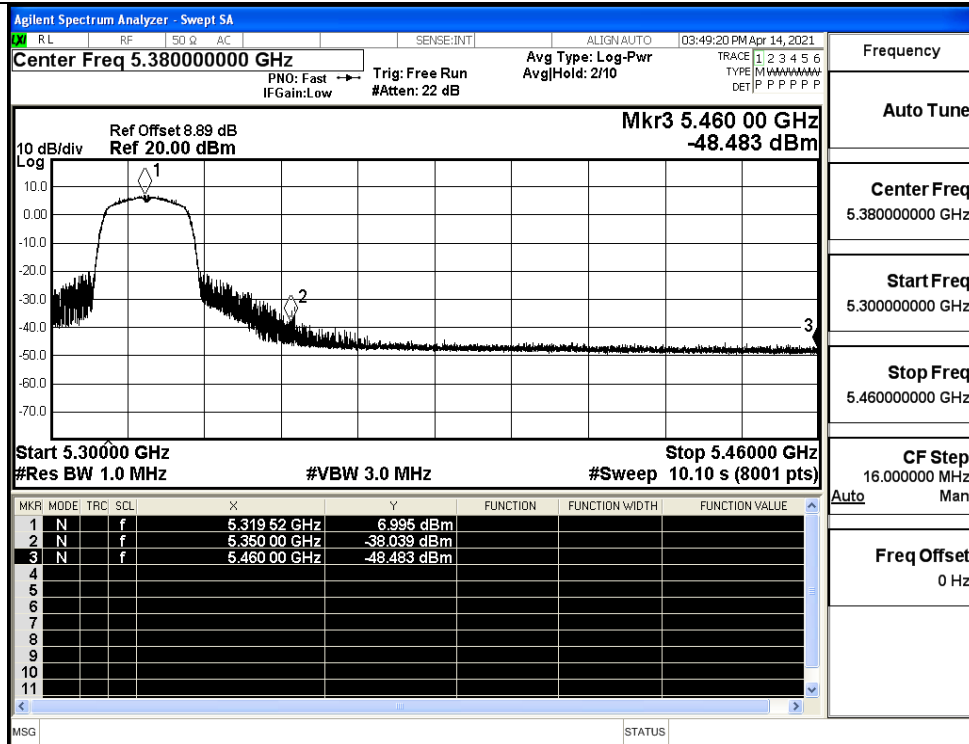
### IEEE 802.11n40 / Channel 46 / 5310MHz / Average



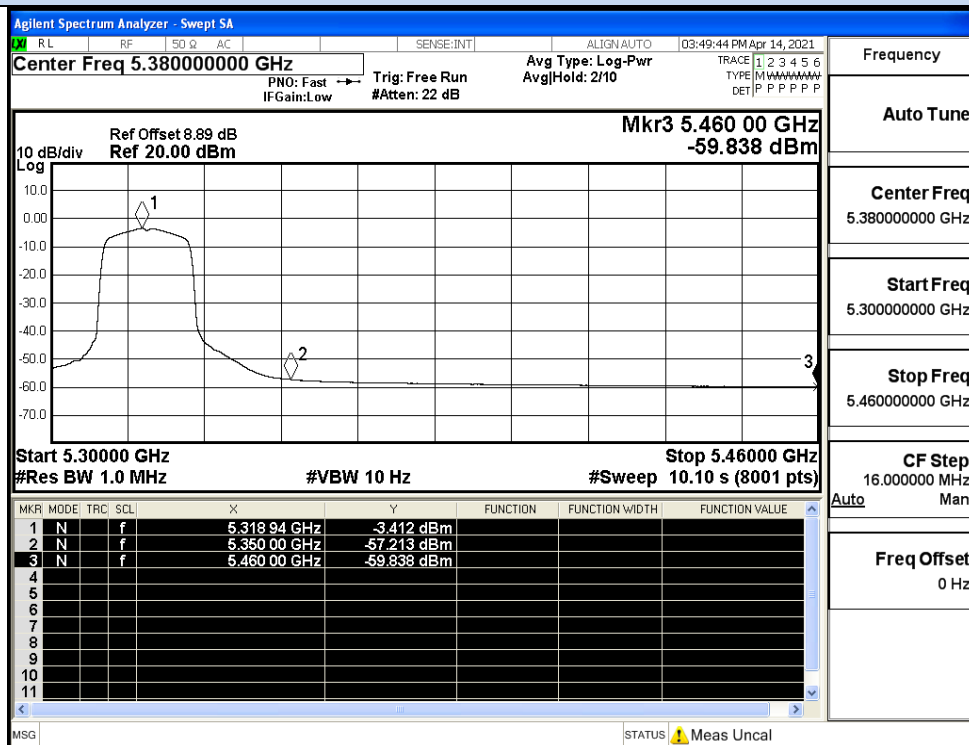
IEEE 802.11ac20 / Channel 36 / 5260MHz / Peak



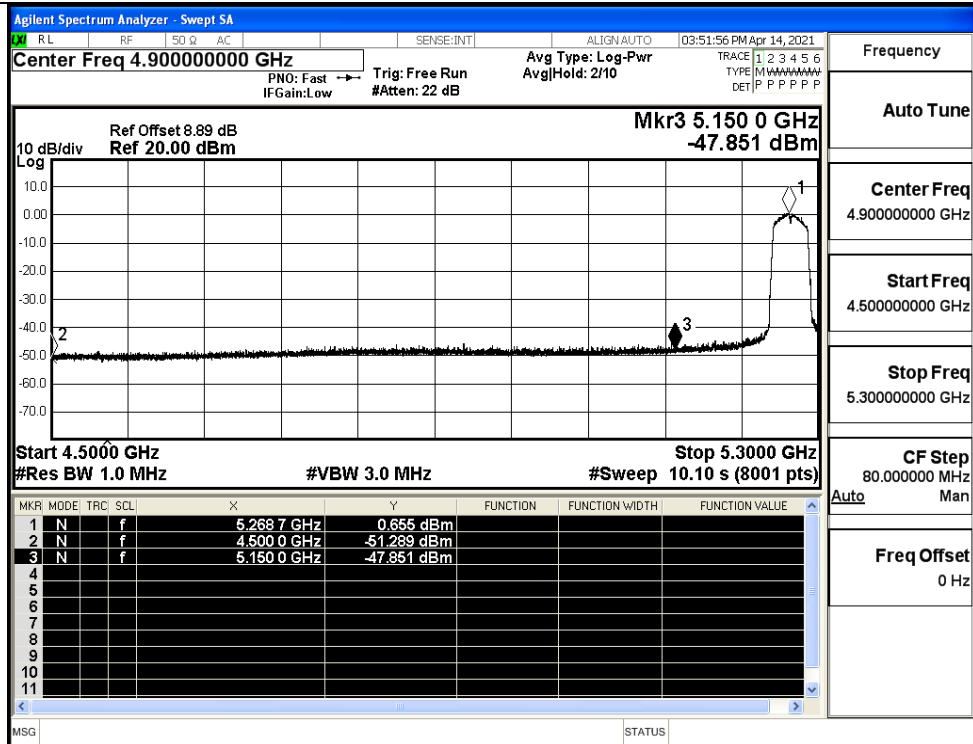
IEEE 802.11ac20 / Channel 36 / 5260MHz / Average



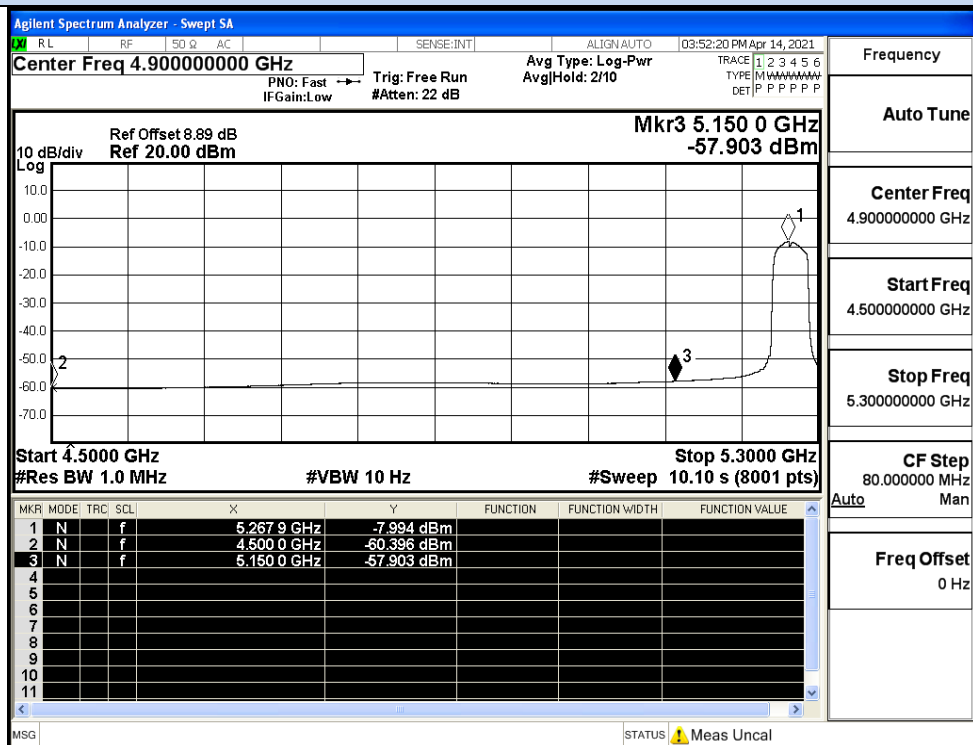
IEEE 802.11ac20 / Channel 48 / 5320MHz / Peak



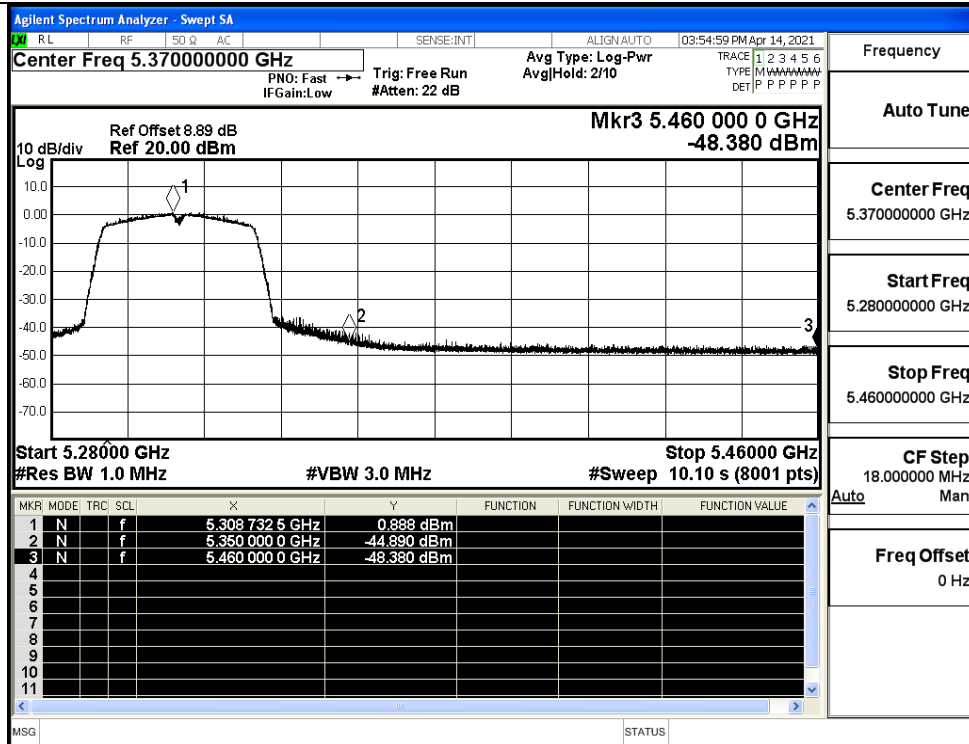
IEEE 802.11ac20 / Channel 48 / 5320MHz / Average



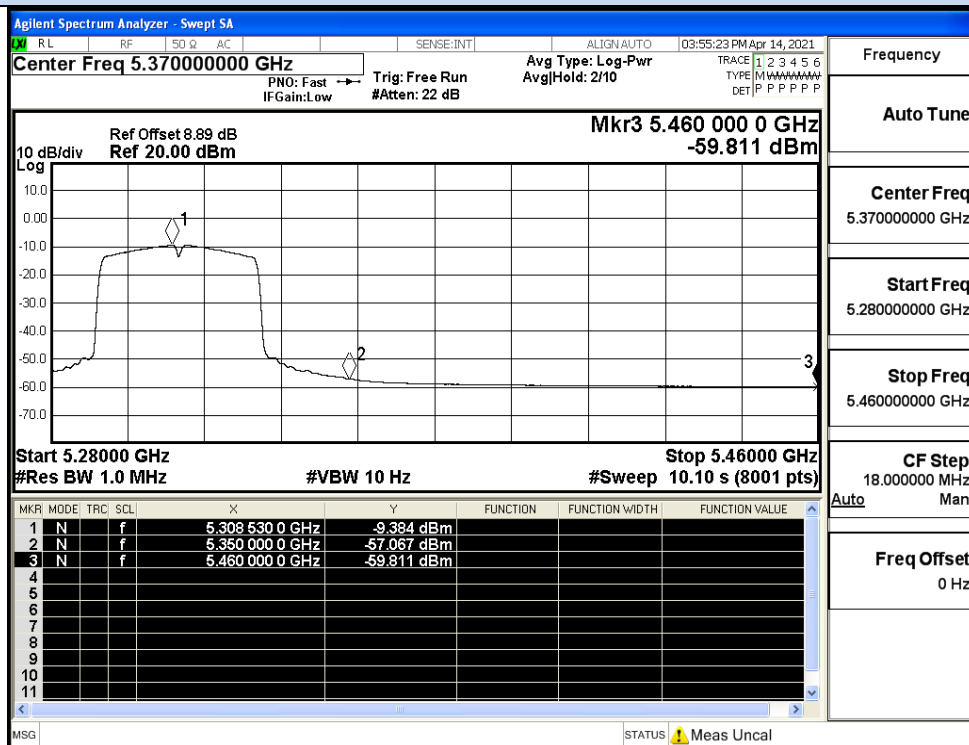
IEEE 802.11ac40 / Channel 38/ 5270MHz / Peak



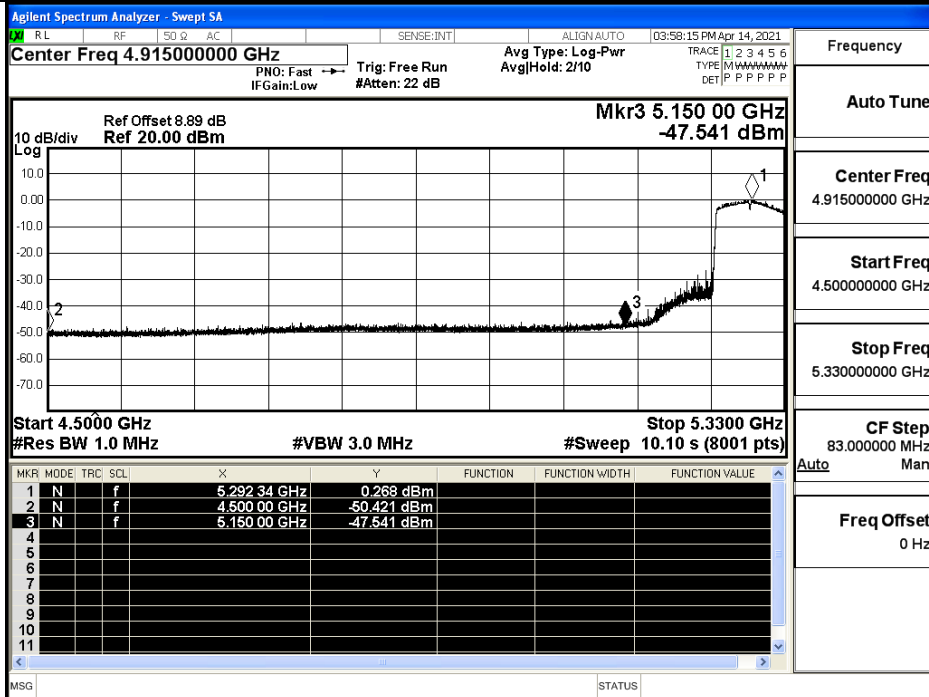
IEEE 802.11ac40 / Channel 38 / 5270MHz / Average



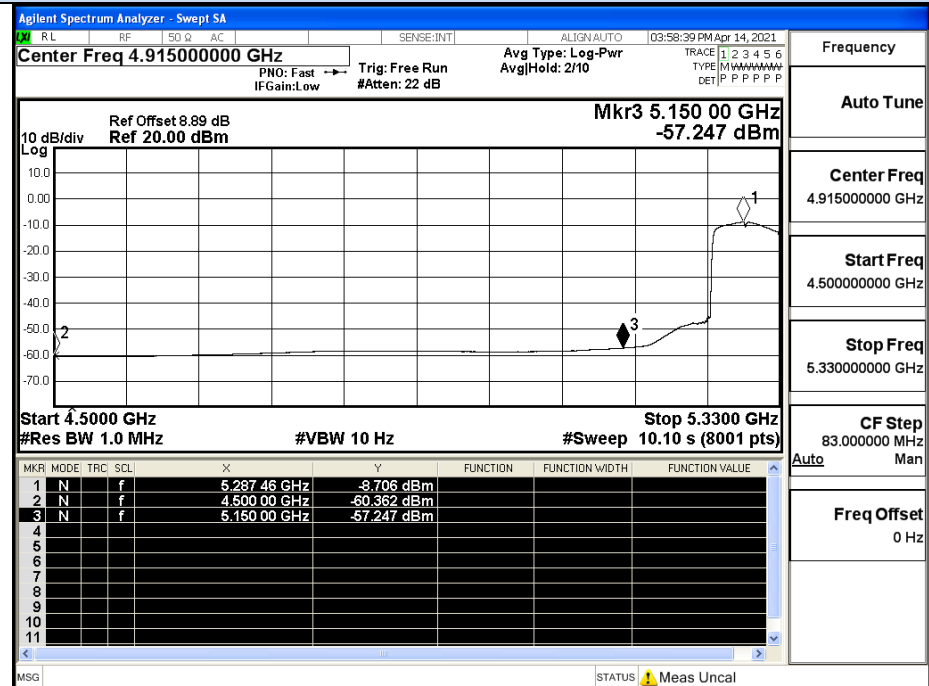
IEEE 802.11ac40 / Channel 46/ 5310MHz / Peak



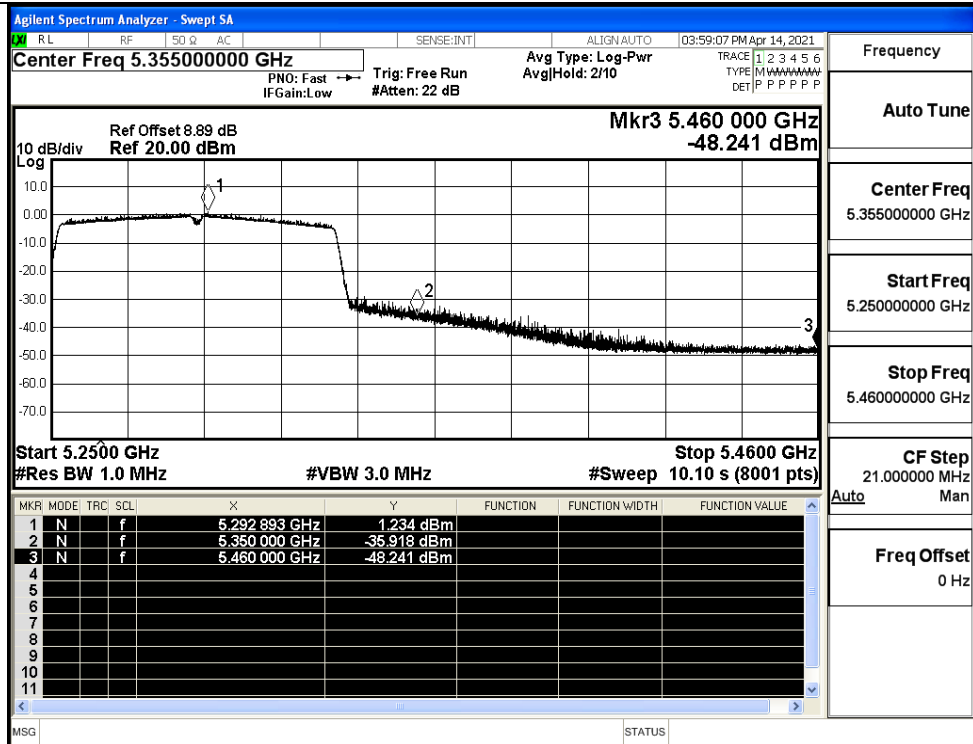
IEEE 802.11ac40 / Channel 46 / 5310MHz / Average



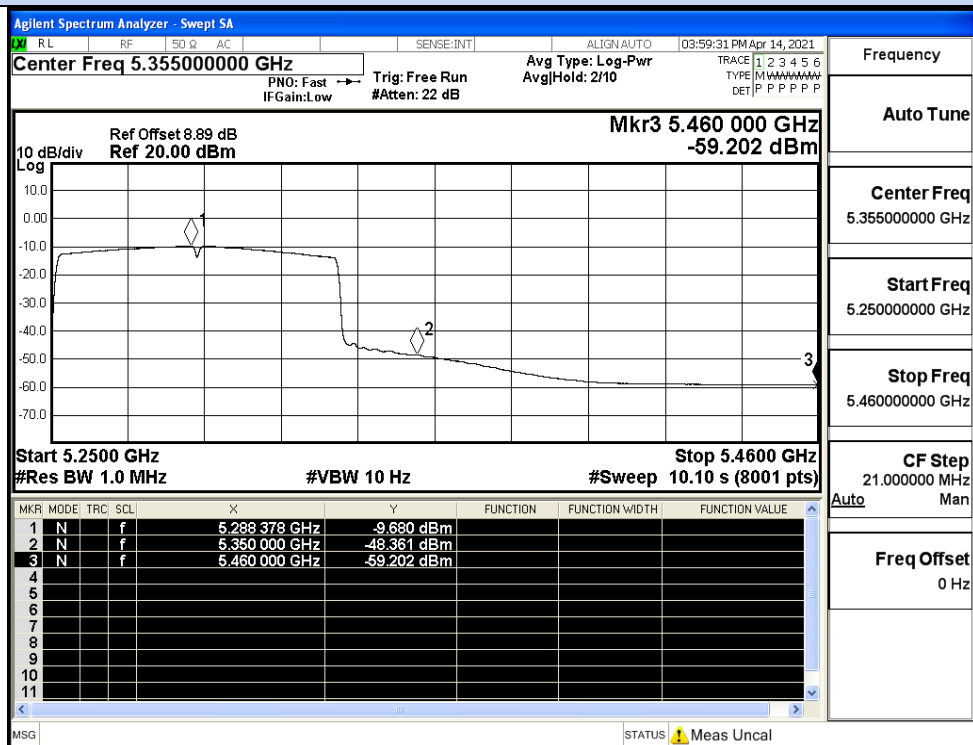
IEEE 802.11ac80 / Channel 42 / 5290MHz / Peak



IEEE 802.11ac80 / Channel 42 / 5290MHz / Average



IEEE 802.11ac80 / Channel 42 / 5290MHz / Peak



IEEE 802.11ac80 / Channel 42 / 5290MHz / Average