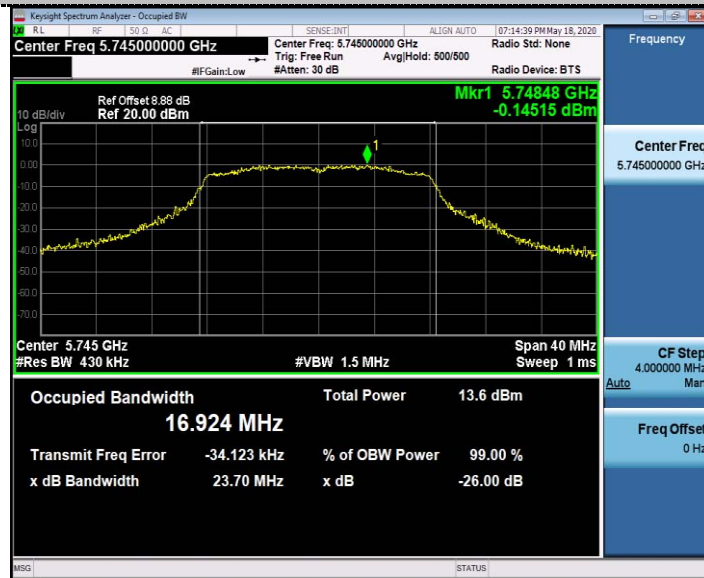


## 99%Bandwidth

## 802.11a



## 802.11n HT20



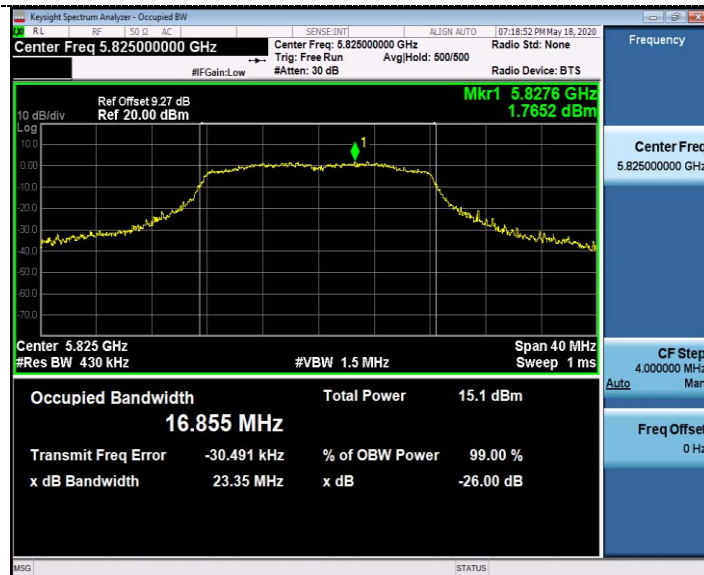
## CH149



## CH149



## CH157



## CH157

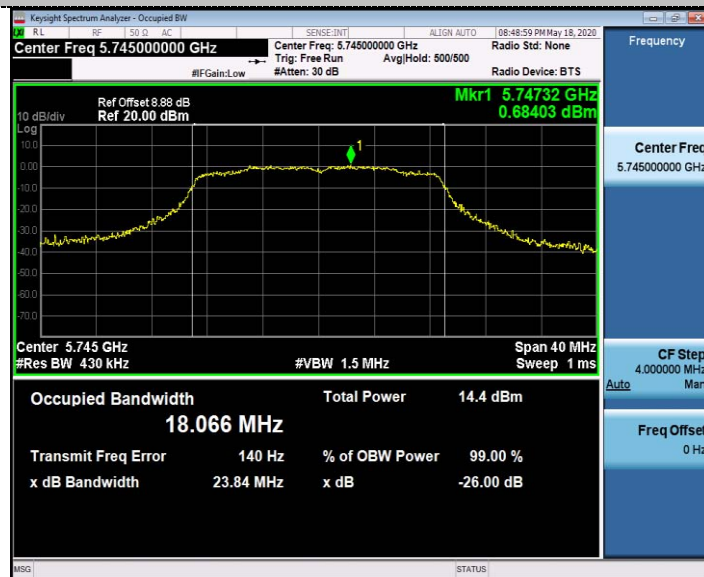


## CH165

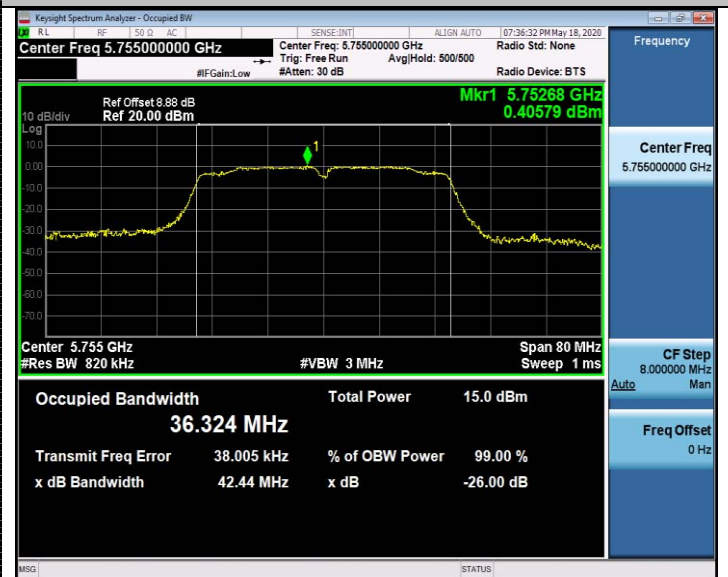
## CH165

## 99%Bandwidth

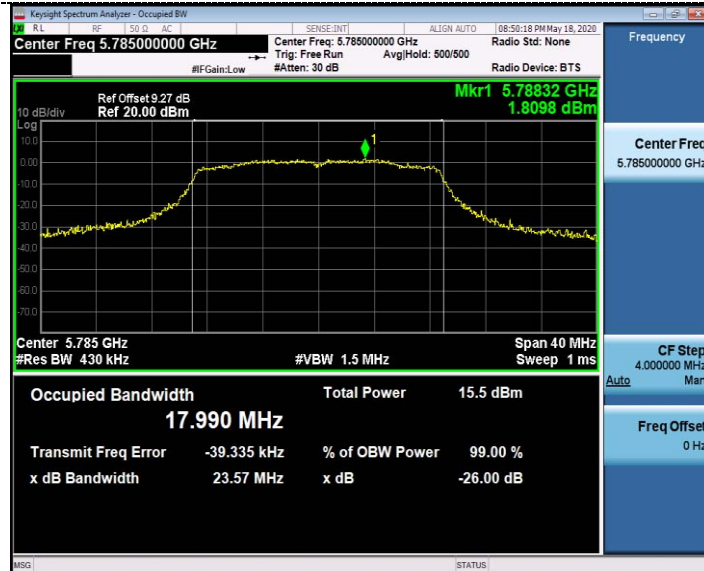
## 802.11ac20



## 802.11n HT40



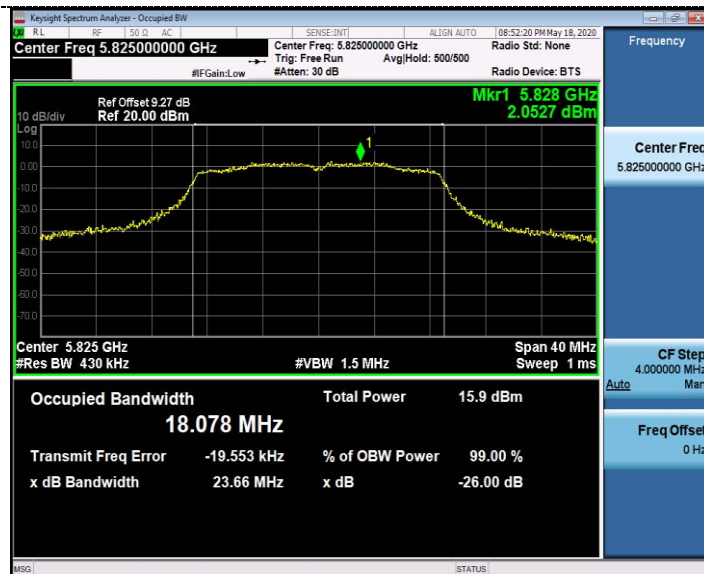
## CH149



## CH151



## CH157



## CH159



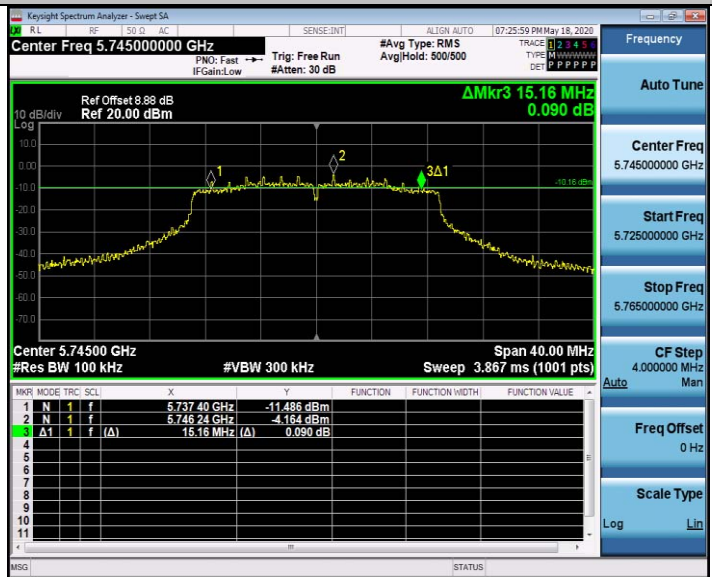
## CH165



6dB Bandwidth

802.11a

802.11n HT20



CH149

CH149



CH157

CH157



CH165

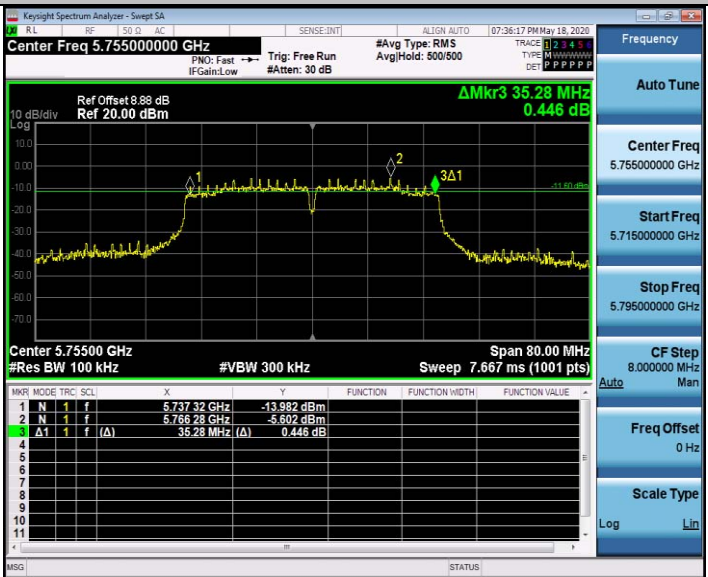
CH165

6dB Bandwidth

802.11ac20



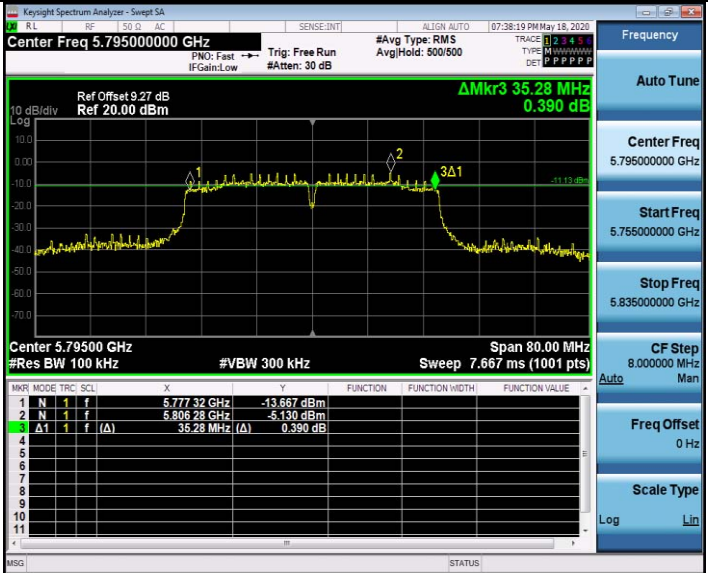
802.11n HT40



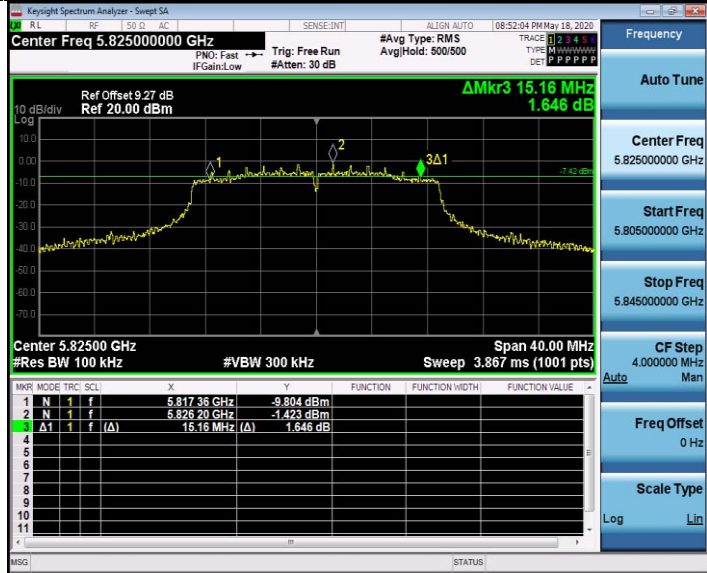
CH149



CH151



CH157



CH159

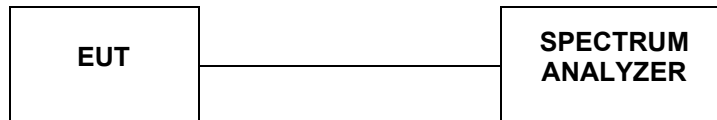


CH165



#### 4.7. 26dBc Bandwidth

##### TEST CONFIGURATION



##### TEST PROCEDURE

According to KDB789033 D02 General UNII Test Procedures New Rules v01 for one of the following procedures may be used for Emission Bandwidth (EBW) measurement:

- a. Set RBW = 300 kHz (approximately 1% of the emission bandwidth).
- b. Set the video bandwidth (VBW) = 1000 KHz (VBW > RBW)
- c. Detector = Peak.
- d. Trace mode = max hold.
- e. Sweep = auto couple.
- f. Allow the trace to stabilize
- g. Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

Note: The automatic bandwidth measurement capability of a spectrum analyzer or EMI receiver may be employed if it implements the functionality described above.

##### LIMIT

No Limits for 26dBc Bandwidth

##### TEST RESULTS

|               |          |                |                   |
|---------------|----------|----------------|-------------------|
| Temperature   | 23.8°C   | Humidity       | 52.3%             |
| Test Engineer | Moon Tan | Configurations | IEEE 802.11a/n/ac |

| Type        | Channel | 99%Bandwidth<br>(MHz) | 26dB Bandwidth<br>(MHz) | Limit (KHz) | Result |
|-------------|---------|-----------------------|-------------------------|-------------|--------|
| 802.11a     | 36      | 16.845                | 22.480                  | -           | Pass   |
|             | 40      | 16.924                | 21.720                  |             |        |
|             | 48      | 16.992                | 23.080                  |             |        |
| 802.11nHT20 | 36      | 18.024                | 22.640                  | -           | Pass   |
|             | 40      | 18.020                | 22.760                  |             |        |
|             | 48      | 18.047                | 24.680                  |             |        |
| 802.11ac20  | 36      | 17.993                | 23.040                  | -           | Pass   |
|             | 40      | 18.001                | 22.720                  |             |        |
|             | 48      | 18.056                | 23.800                  |             |        |
| 802.11n40   | 38      | 36.217                | 41.440                  | -           | Pass   |
|             | 46      | 36.274                | 43.520                  |             |        |
| 802.11ac40  | 38      | 36.215                | 41.840                  | -           | Pass   |
|             | 46      | 36.240                | 42.080                  |             |        |
| 802.11ac80  | 155     | 75.245                | 81.440                  | -           | Pass   |

## 99%Bandwidth

802.11a

802.11n HT20



CH36

CH36



CH40

CH40

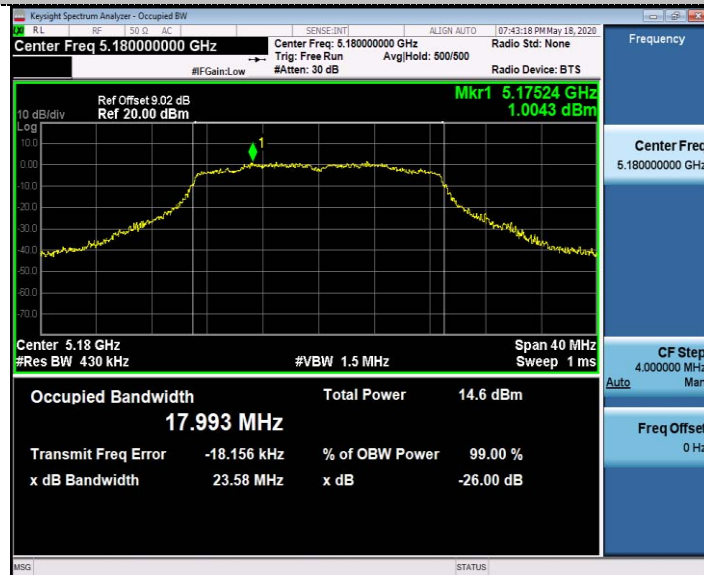


CH48

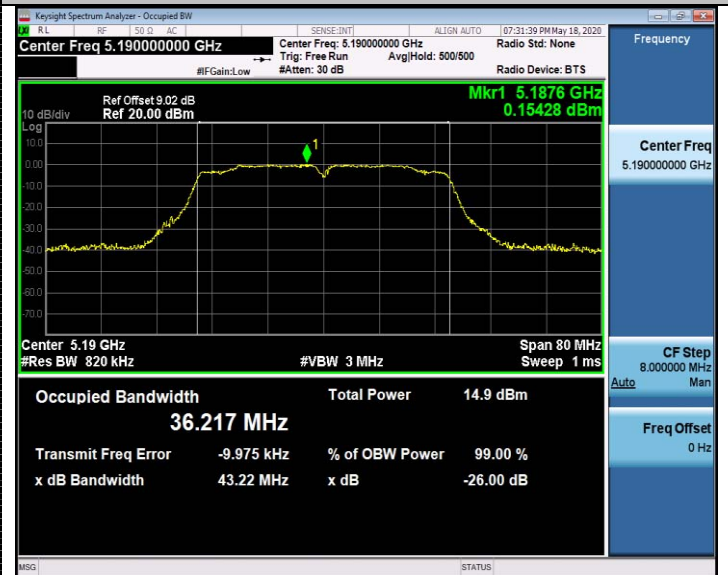
CH48

## 99%Bandwidth

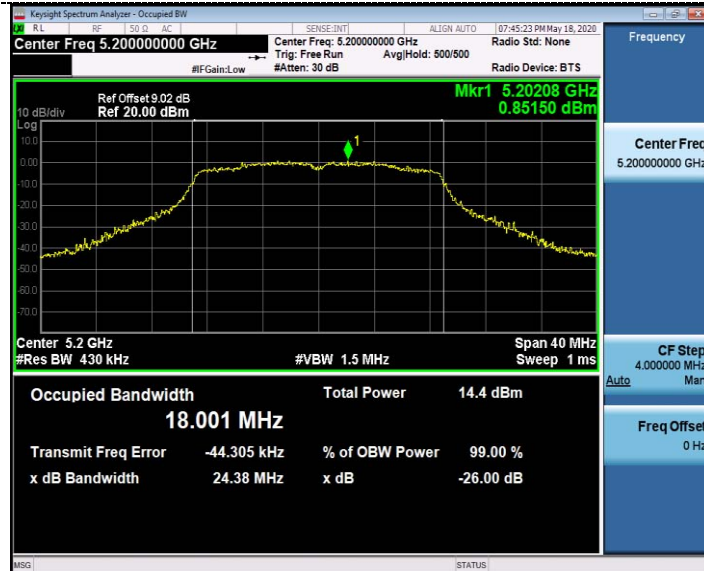
## 802.11ac20



## 802.11n HT40



## CH36



## CH38



## CH40



## CH46



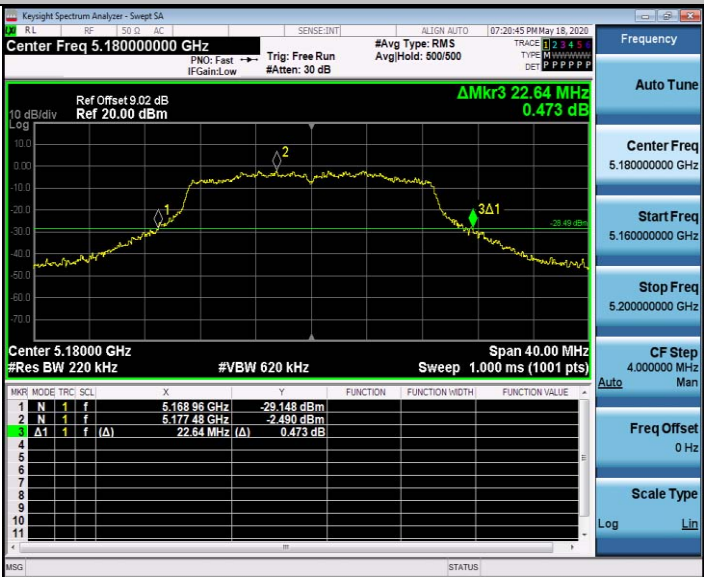
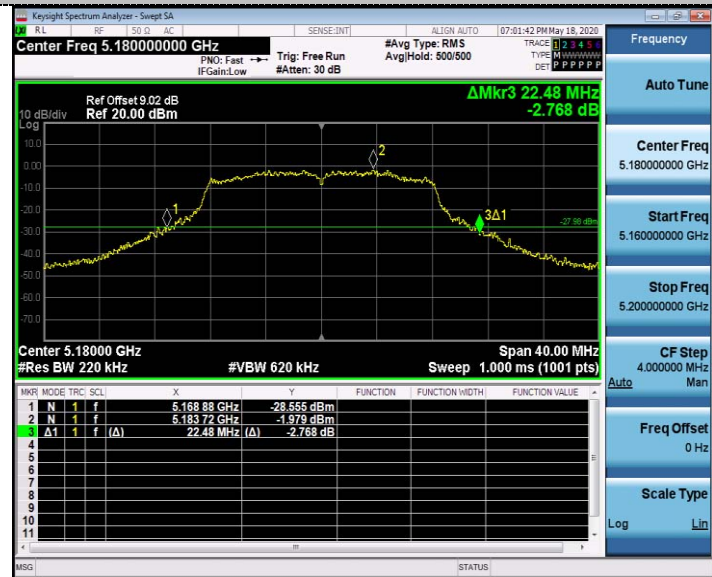
## CH48



26dB Bandwidth

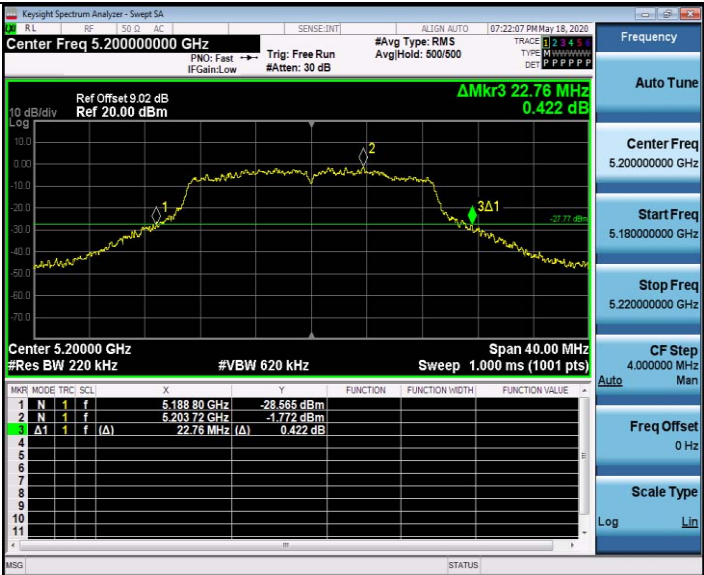
802.11a

802.11n HT20



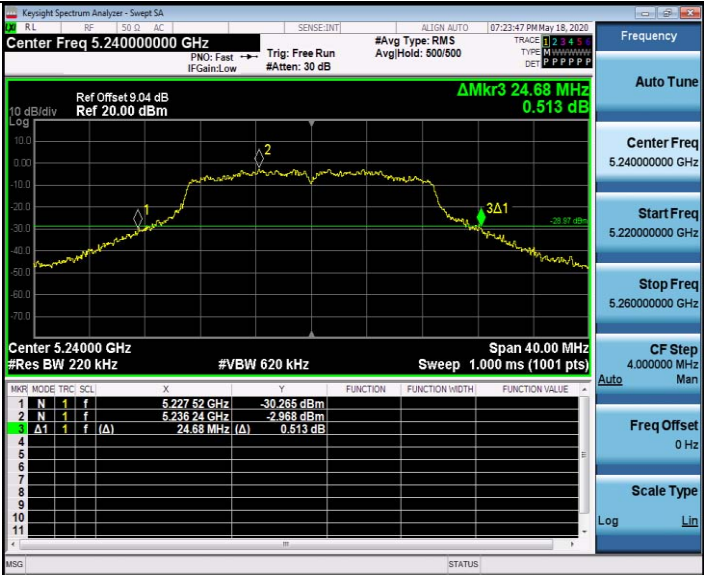
CH36

CH36



CH40

CH40



CH48

CH48