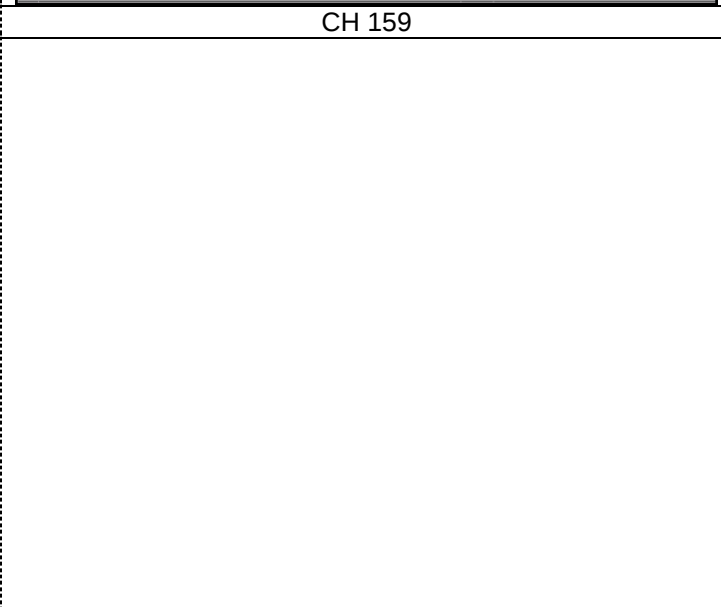
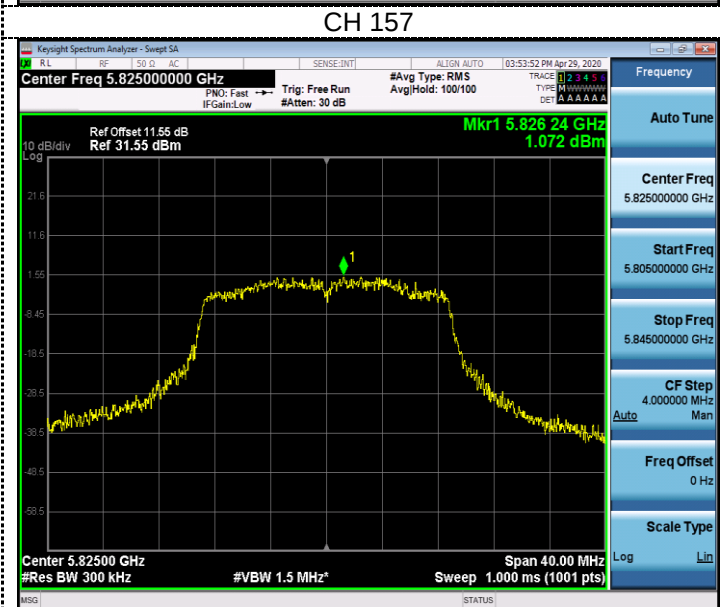
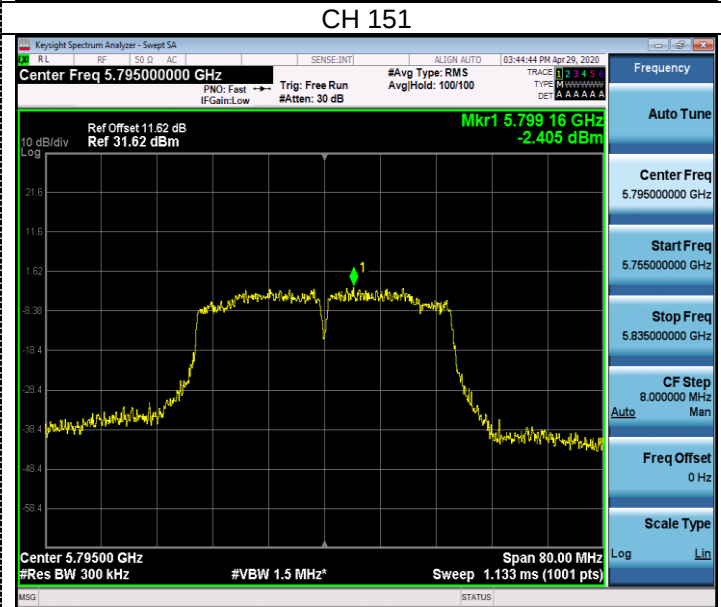
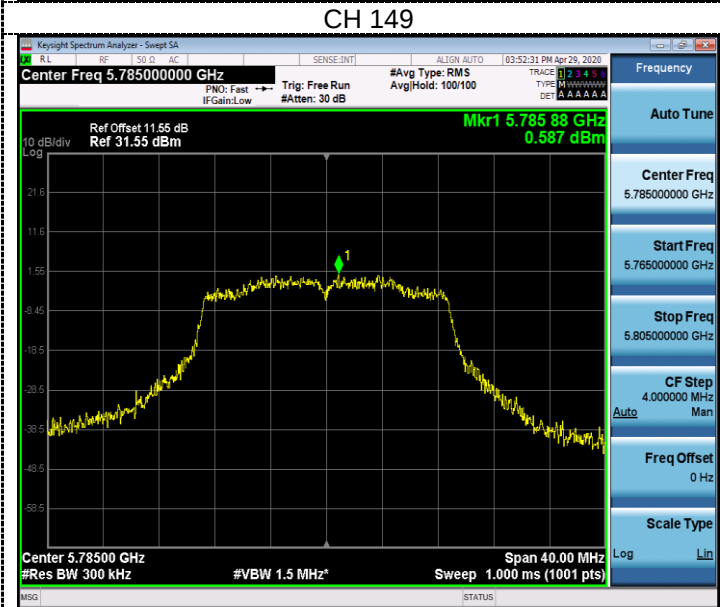
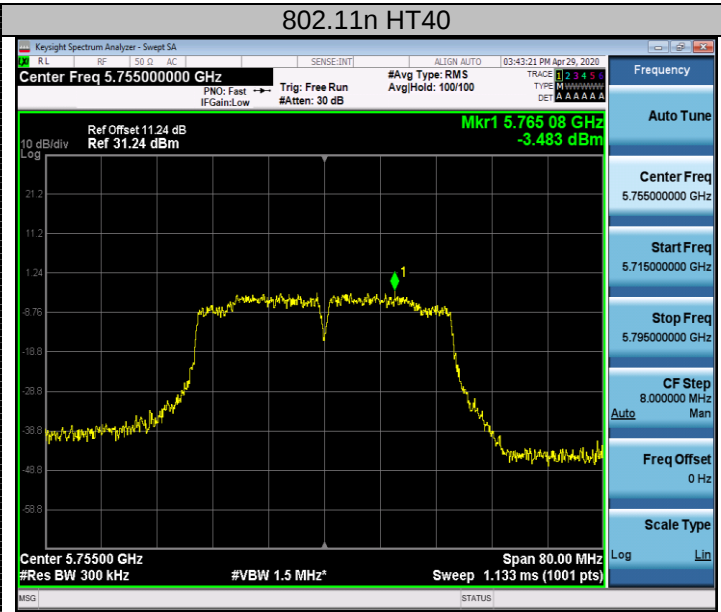
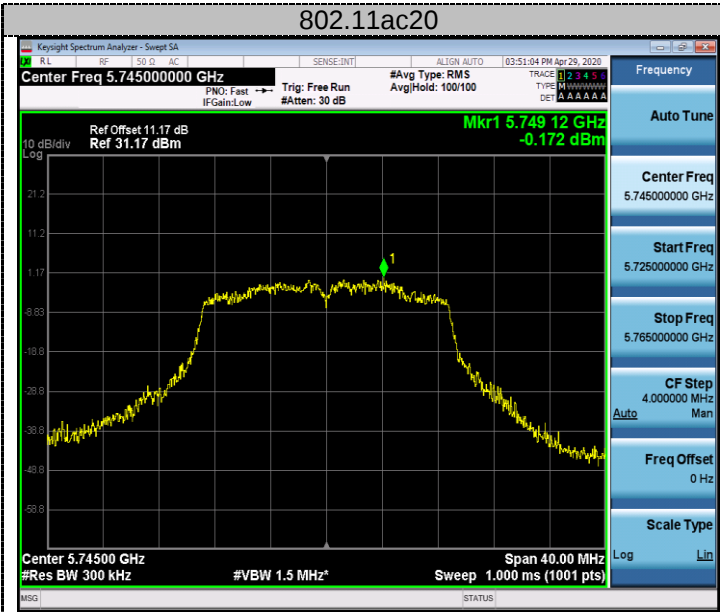
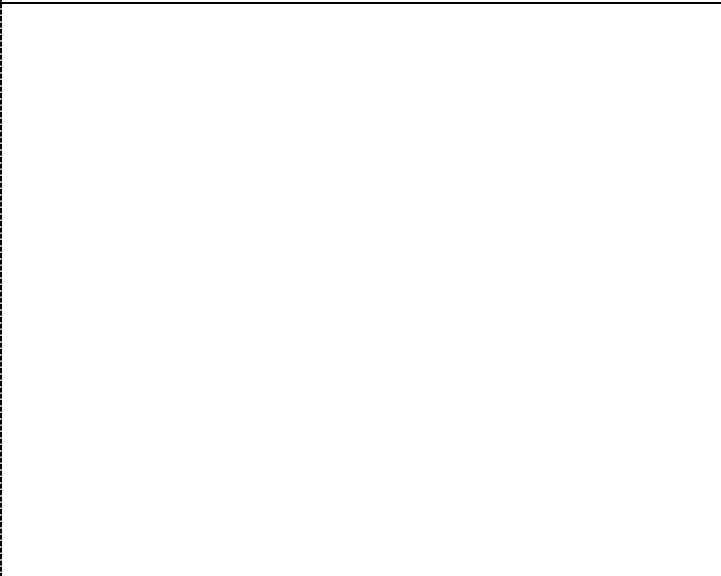
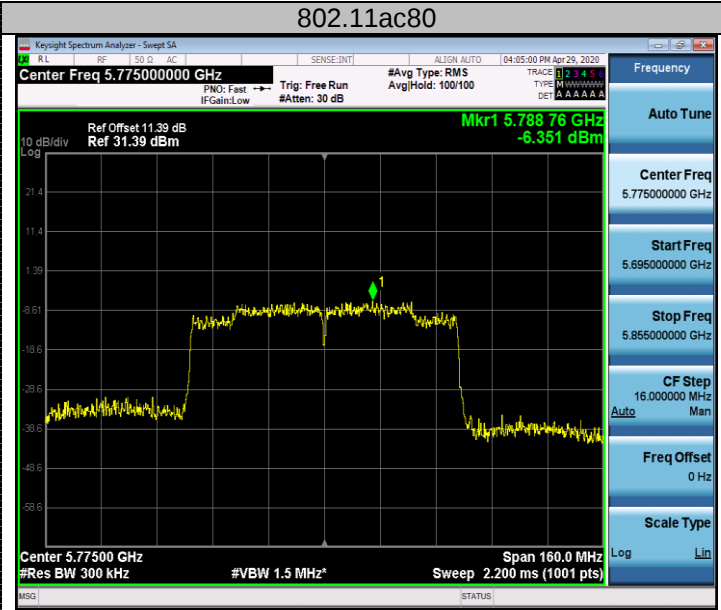
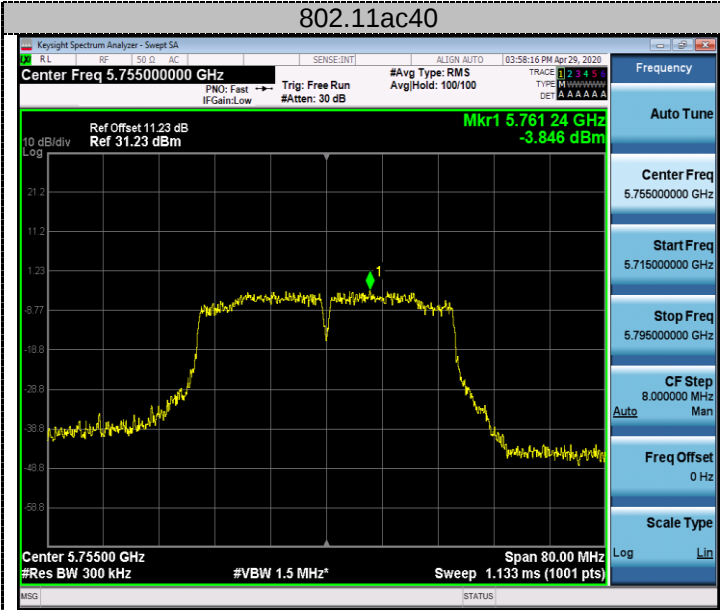
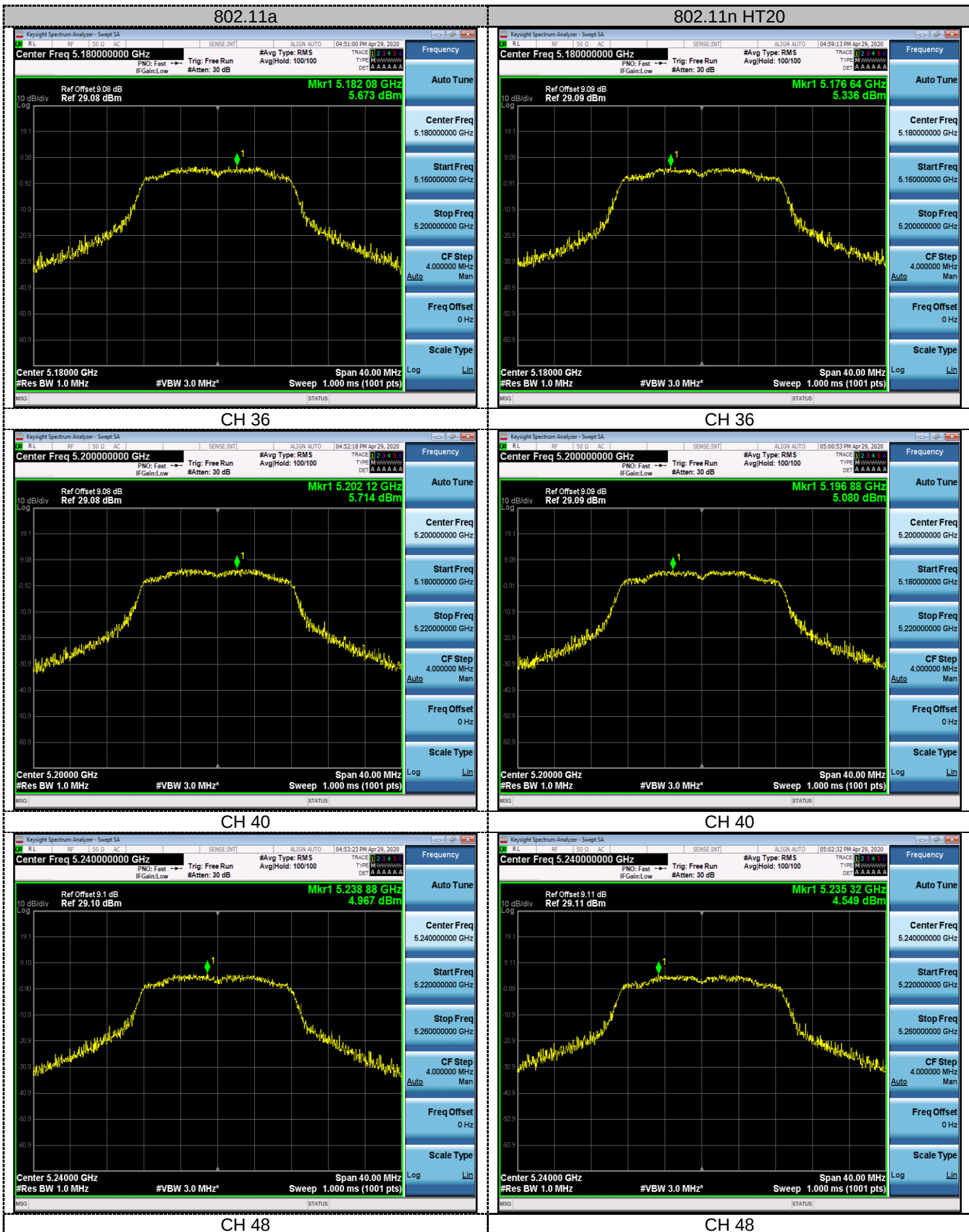
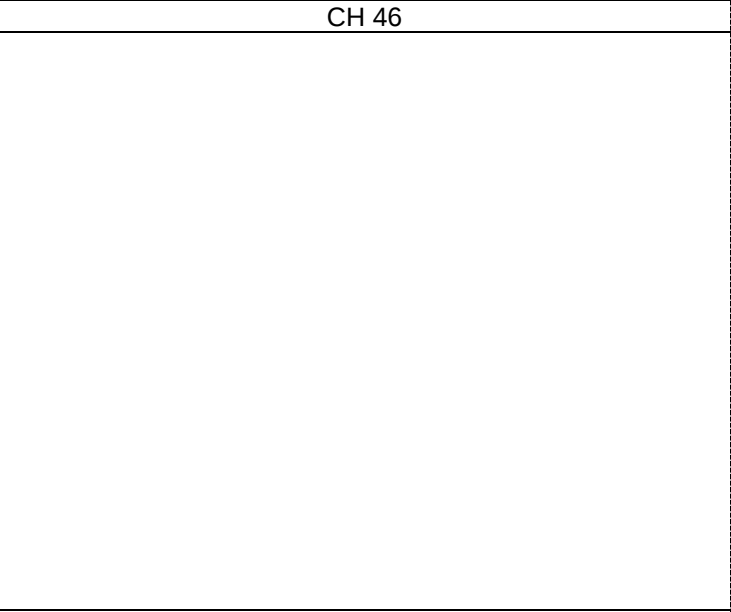
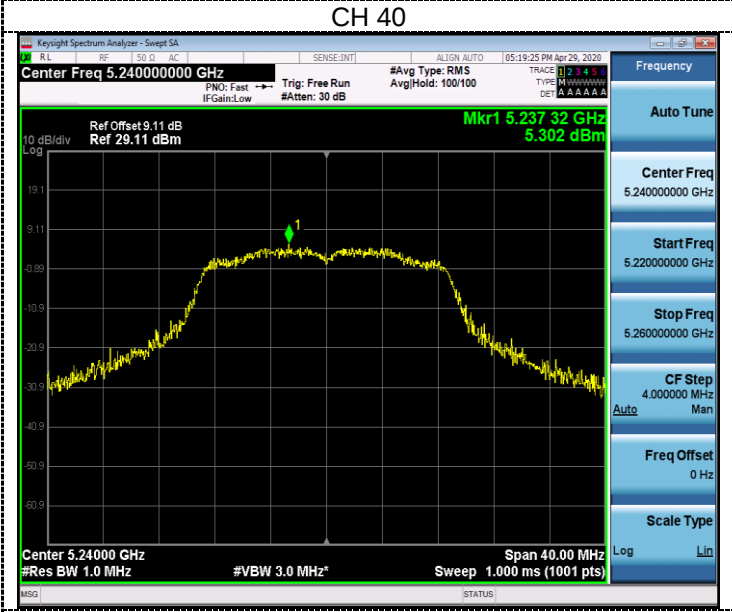
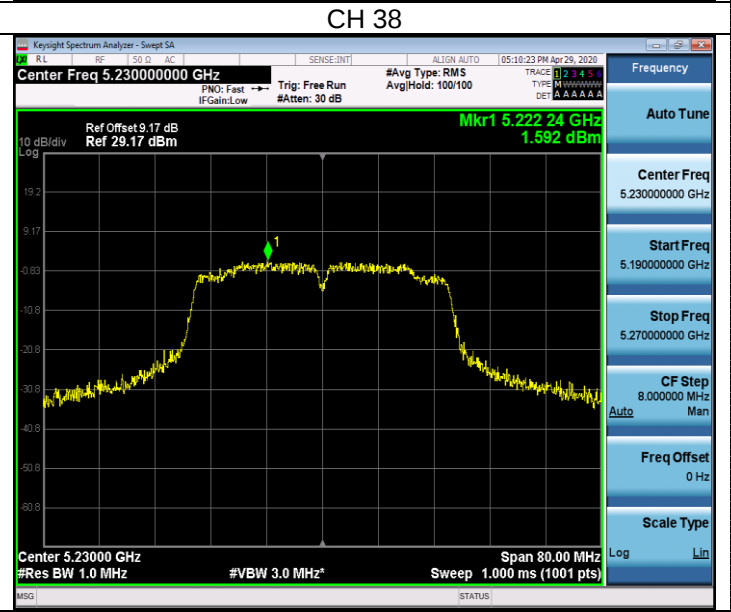
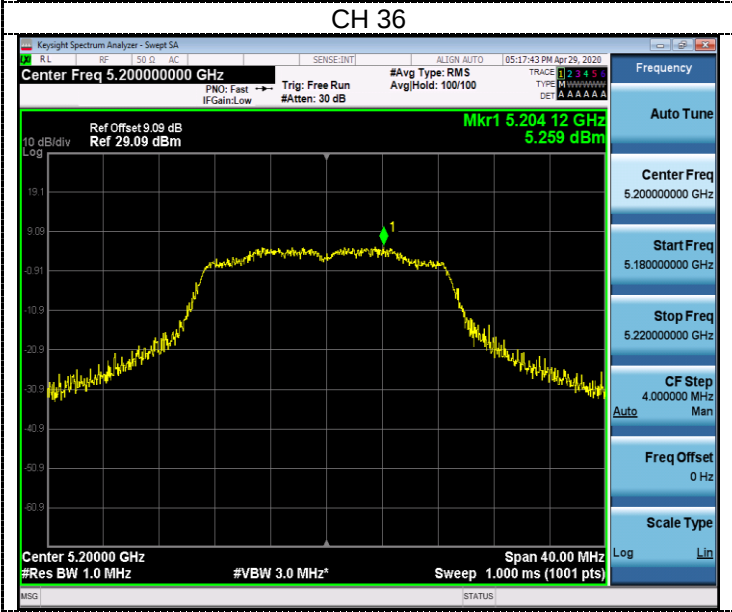
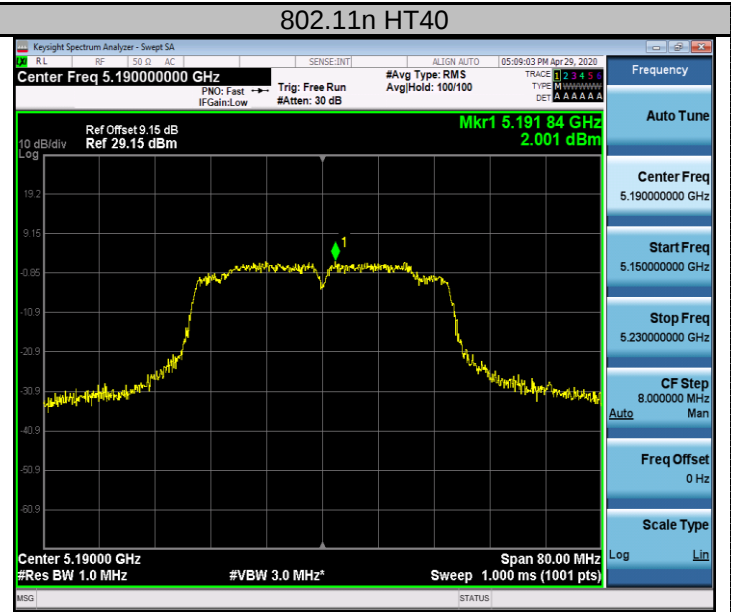
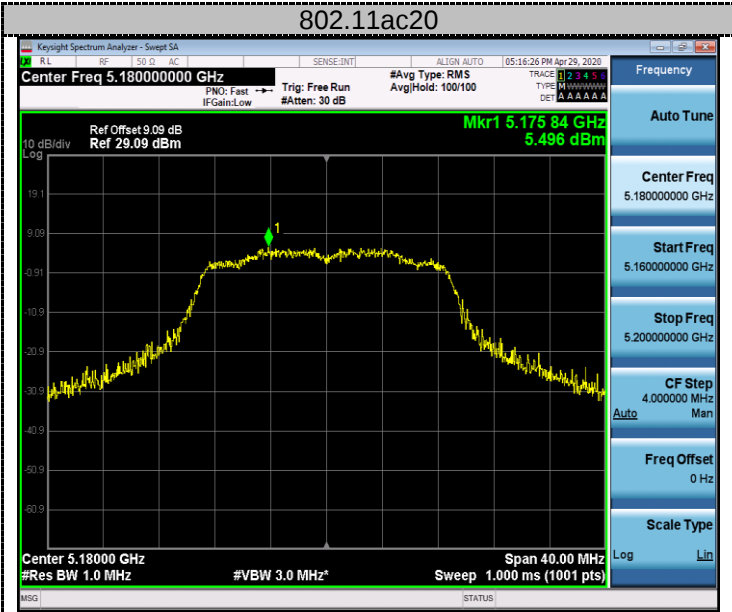
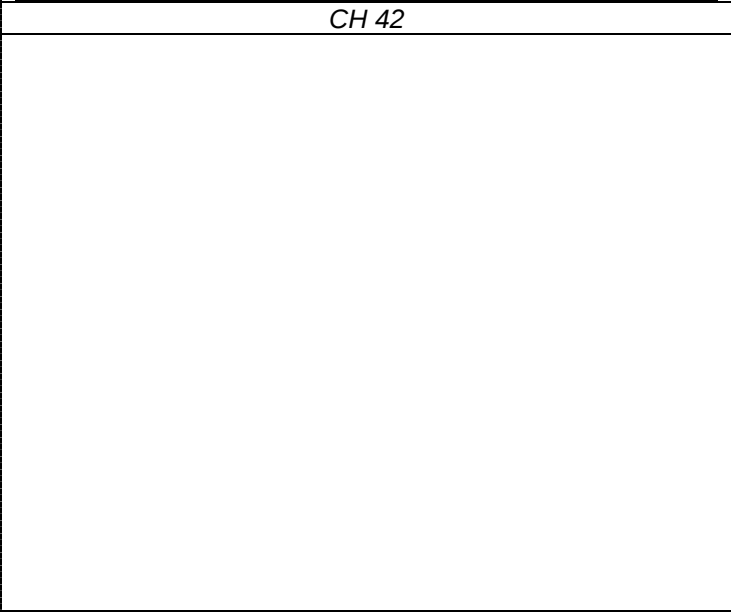
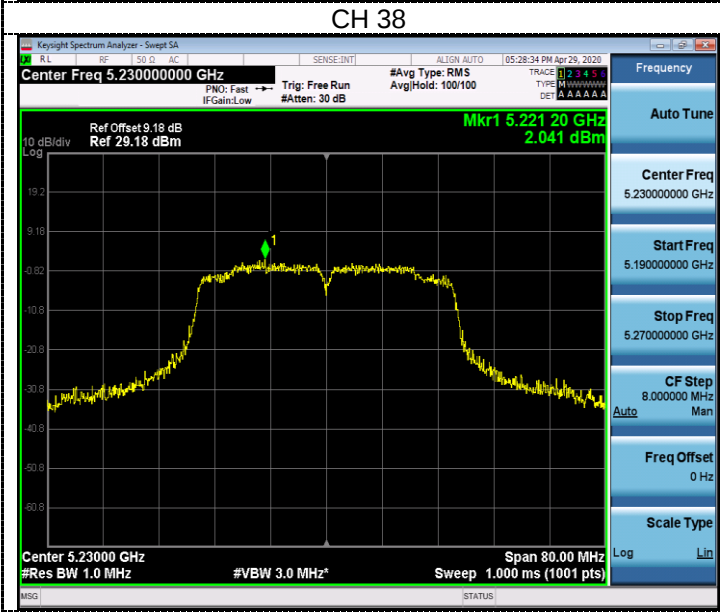
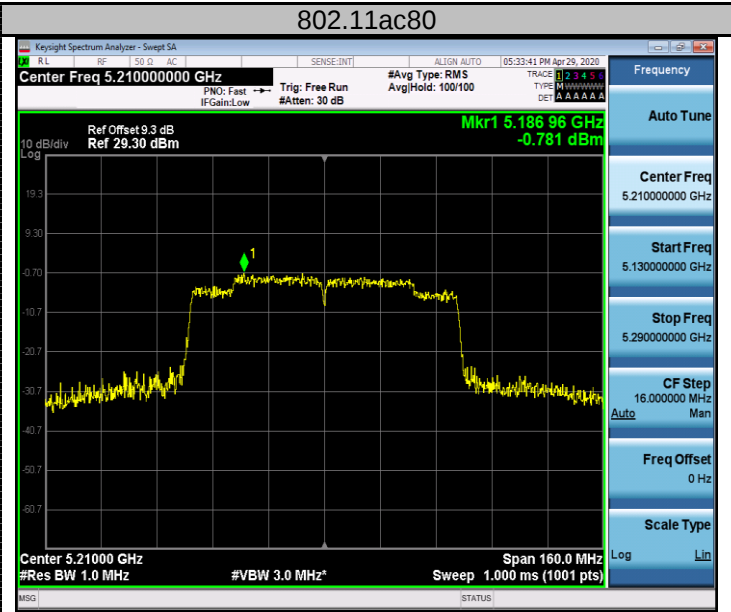
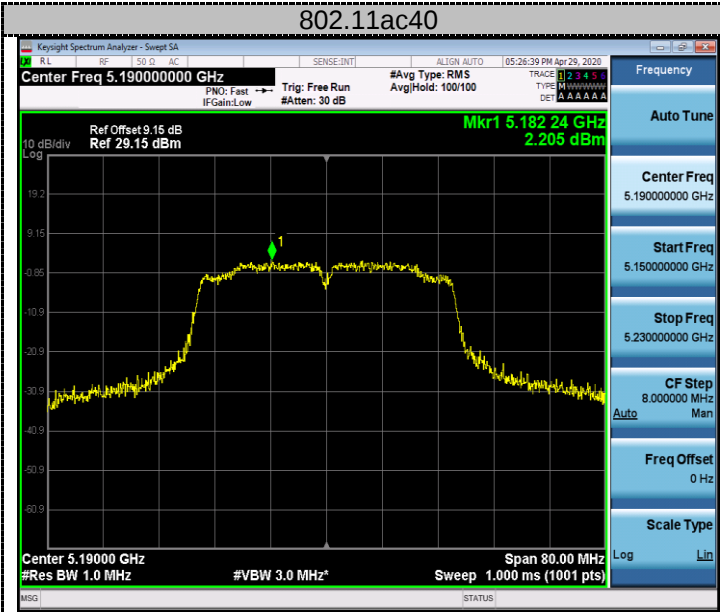




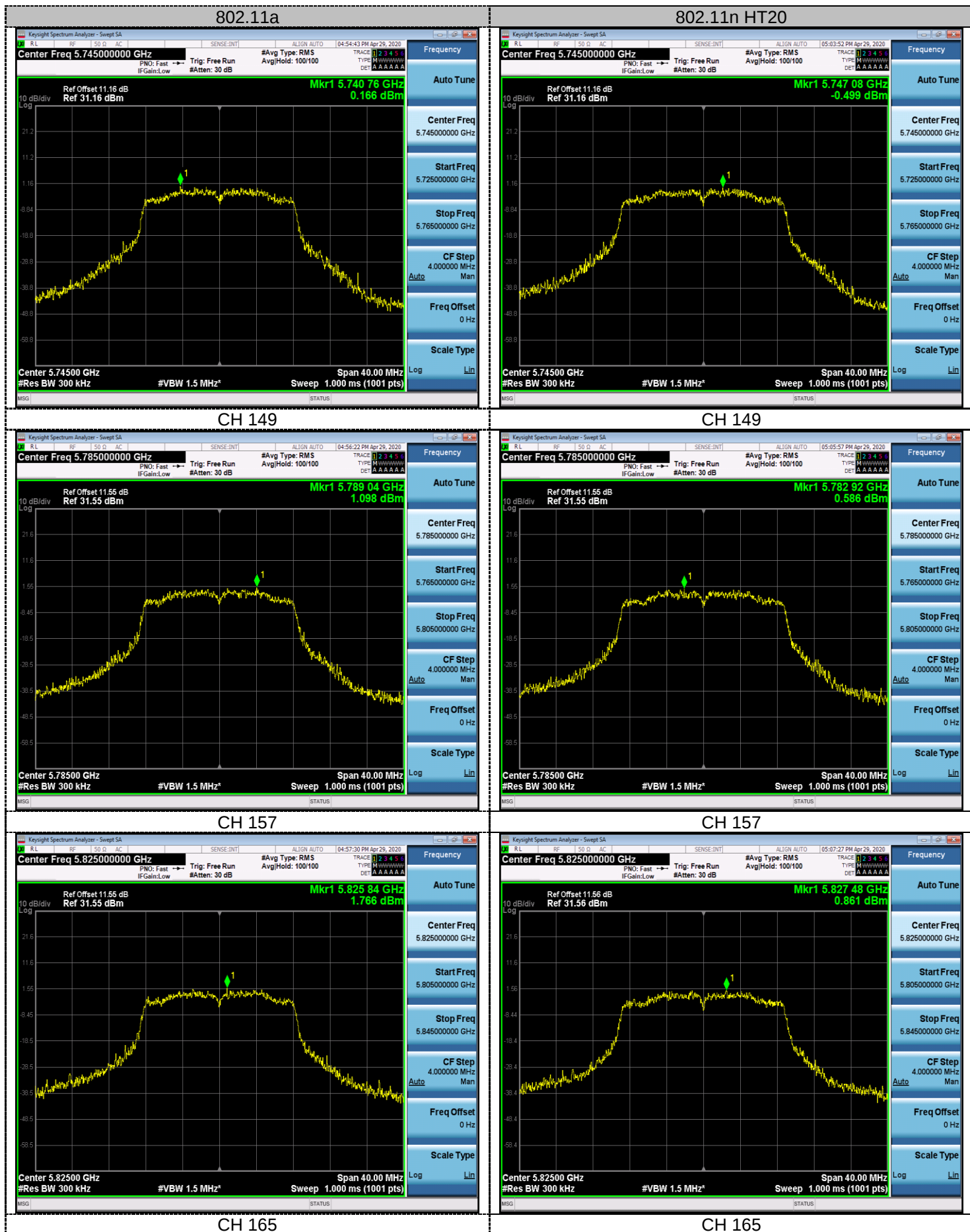
Antenna 1:  
5150-5250MHz:

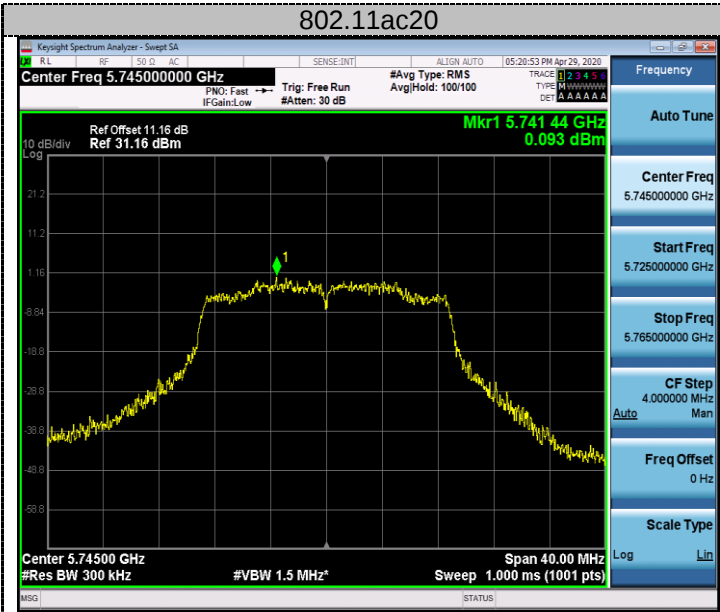




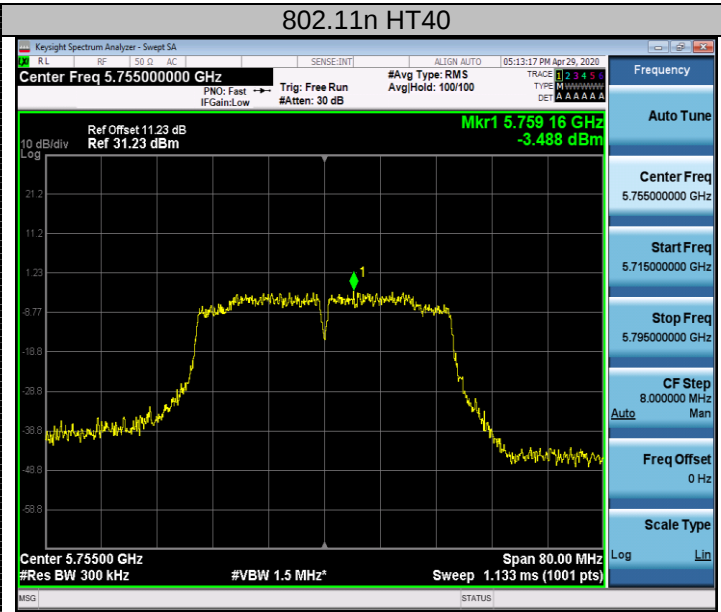


5725-5850MHz:





CH 149



CH 151



CH 157

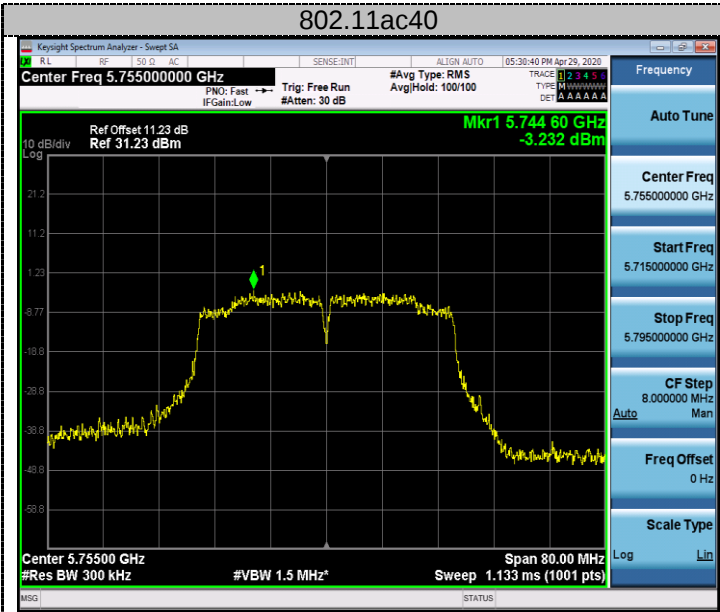


CH 159

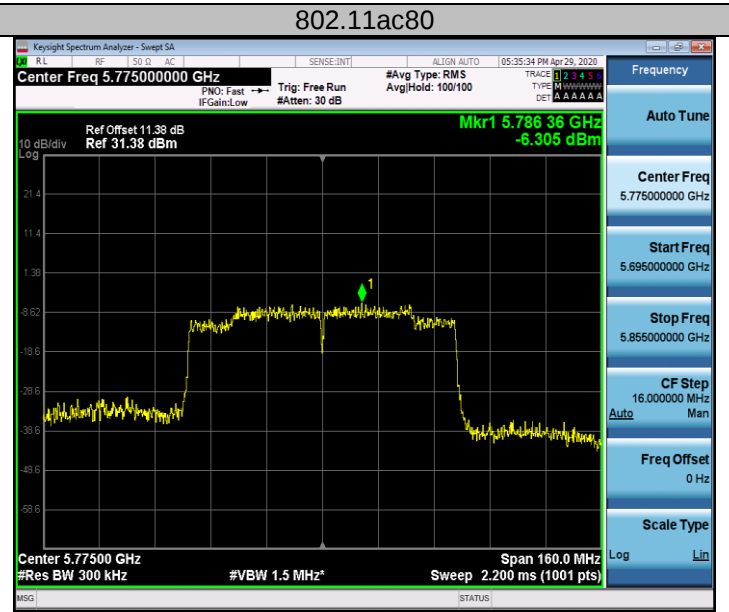


CH 165





CH 151



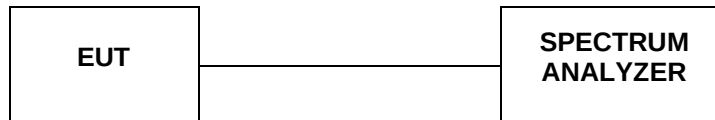
CH 155



CH 159

#### 4.6. 6dB 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 section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.715-5.85 GHz. The following procedure shall be used for measuring this bandwidth:

- Set RBW = 100 kHz.
- Set the video bandwidth (VBW)  $\geq 3 \times$  RBW
- Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Allow the trace to stabilize
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

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

##### LIMIT

For Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.715-5.85 GHz

##### TEST RESULTS

|               |          |                |                   |
|---------------|----------|----------------|-------------------|
| Temperature   | 23.6°C   | Humidity       | 55.7%             |
| Test Engineer | Moon Tan | Configurations | IEEE 802.11a/n/ac |

**Antenna 0:**

| Type        | Channel | 99%Bandwidth (MHz) | 6dB Bandwidth (MHz) | Limit (KHz) | Result |
|-------------|---------|--------------------|---------------------|-------------|--------|
| 802.11a     | 149     | 16.946             | 15.160              | ≥500        | Pass   |
|             | 157     | 16.915             | 13.920              |             |        |
|             | 165     | 16.862             | 15.120              |             |        |
| 802.11nHT20 | 149     | 18.039             | 15.200              | ≥500        | Pass   |
|             | 157     | 18.009             | 15.120              |             |        |
|             | 165     | 18.001             | 15.200              |             |        |
| 802.11ac20  | 149     | 18.072             | 15.120              | ≥500        | Pass   |
|             | 157     | 18.038             | 15.200              |             |        |
|             | 165     | 18.012             | 15.200              |             |        |
| 802.11n40   | 151     | 36.300             | 35.200              | ≥500        | Pass   |
|             | 159     | 36.267             | 35.280              |             |        |
| 802.11ac40  | 151     | 36.283             | 35.280              | ≥500        | Pass   |
|             | 159     | 36.310             | 35.280              |             |        |
| 802.11ac80  | 155     | 75.711             | 75.520              | ≥500        | Pass   |

**Antenna 1:**

| Type        | Channel | 99%Bandwidth (MHz) | 6dB Bandwidth (MHz) | Limit (KHz) | Result |
|-------------|---------|--------------------|---------------------|-------------|--------|
| 802.11a     | 149     | 16.898             | 15.200              | ≥500        | Pass   |
|             | 157     | 16.900             | 15.200              |             |        |
|             | 165     | 16.897             | 15.160              |             |        |
| 802.11nHT20 | 149     | 18.037             | 15.200              | ≥500        | Pass   |
|             | 157     | 18.027             | 15.160              |             |        |
|             | 165     | 18.007             | 15.160              |             |        |
| 802.11ac20  | 149     | 18.065             | 13.920              | ≥500        | Pass   |
|             | 157     | 17.976             | 15.080              |             |        |
|             | 165     | 18.021             | 15.200              |             |        |
| 802.11n40   | 151     | 36.325             | 35.280              | ≥500        | Pass   |
|             | 159     | 36.309             | 35.280              |             |        |
| 802.11ac40  | 151     | 36.260             | 35.280              | ≥500        | Pass   |
|             | 159     | 36.251             | 35.280              |             |        |
| 802.11ac80  | 155     | 75.638             | 75.520              | ≥500        | Pass   |

## Antenna 0:

## 99%Bandwidth

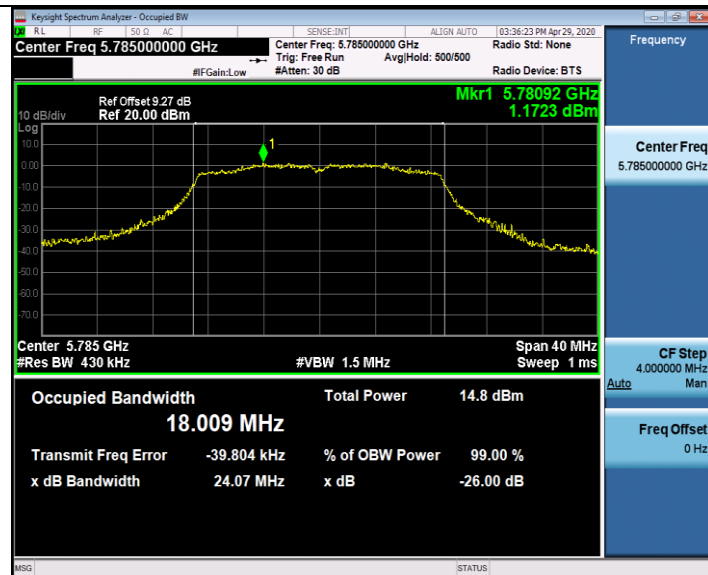
## 802.11a

## 802.11n HT20



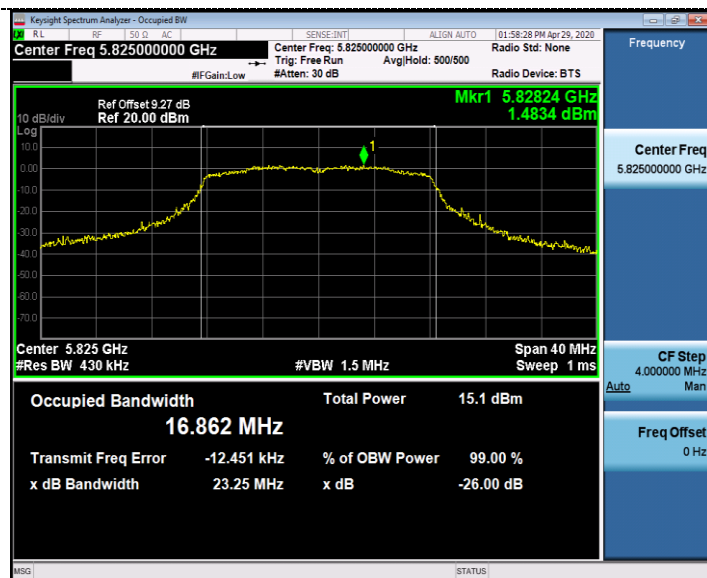
## CH149

## CH149



## CH157

## CH157



## CH165

## CH165

## 99%Bandwidth

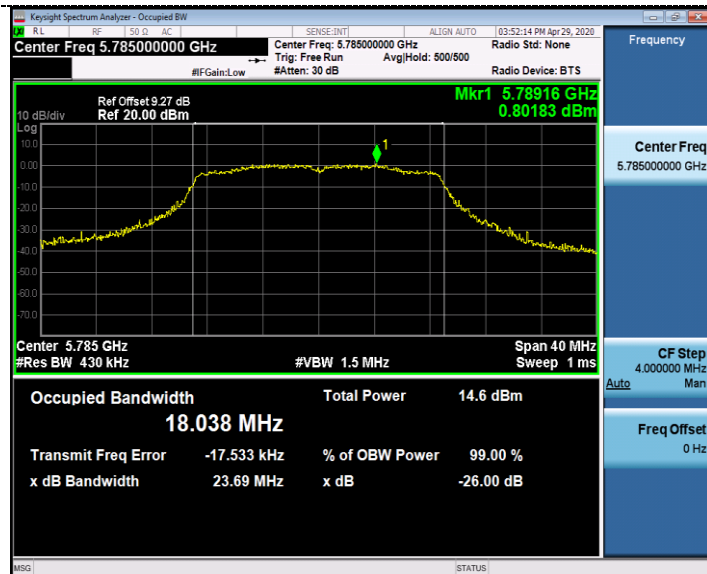
## 802.11ac20



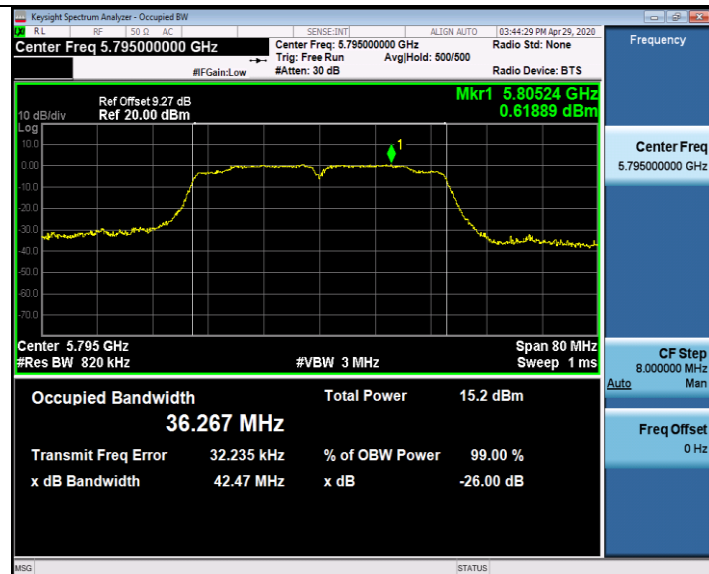
## 802.11n HT40



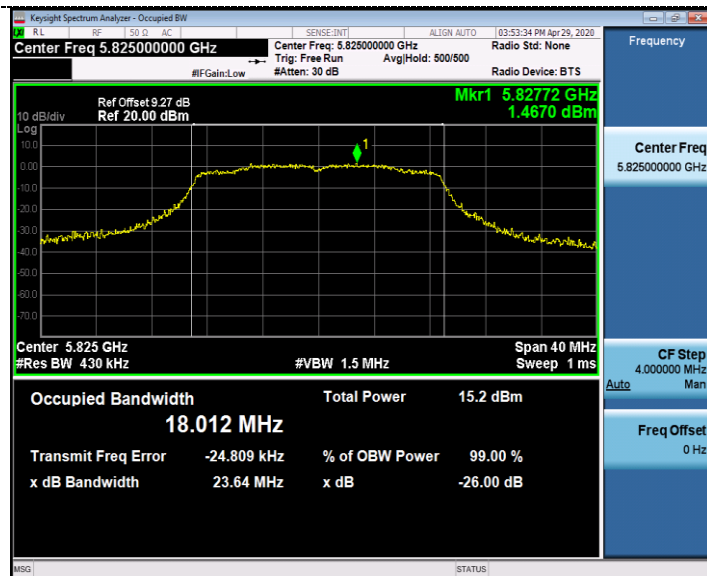
## CH149



## CH151



## CH157



## CH159



## CH165

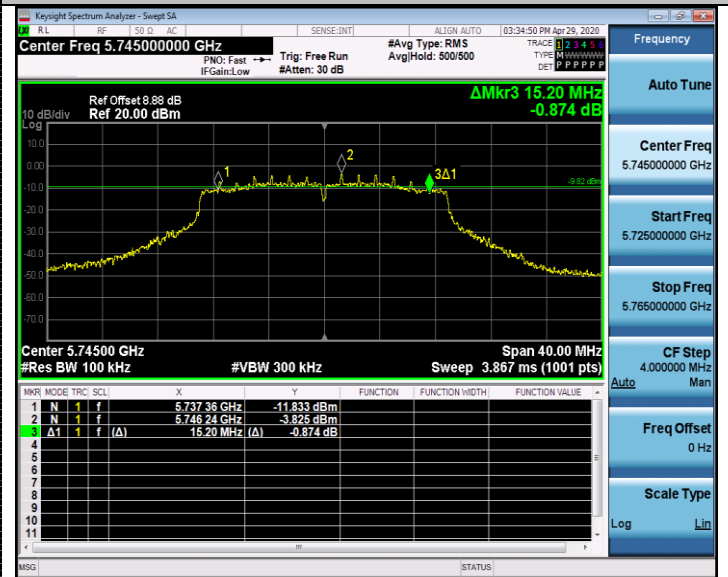


## 6dB Bandwidth

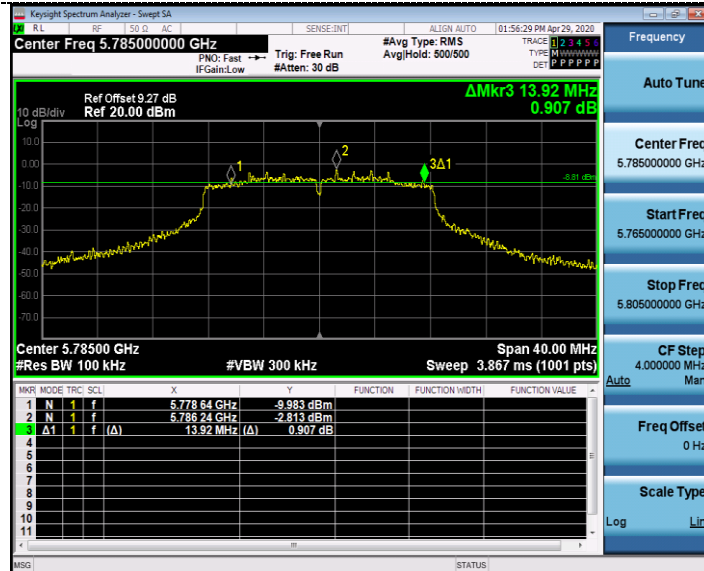
## 802.11a



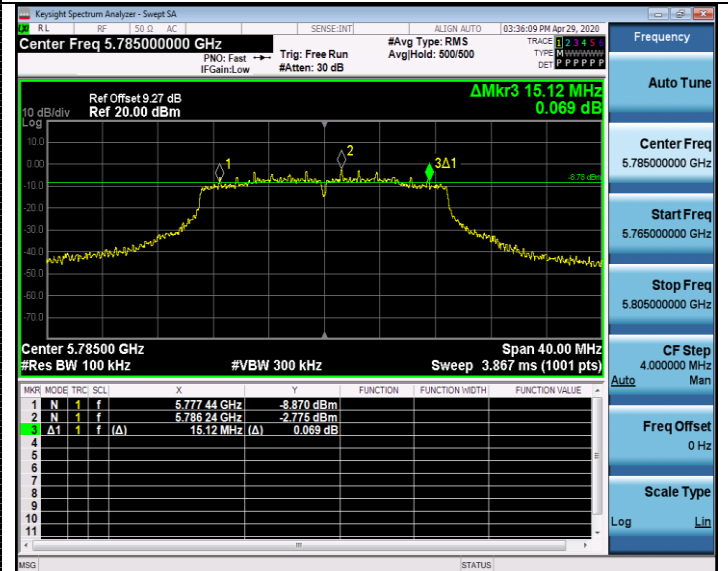
## 802.11n HT20



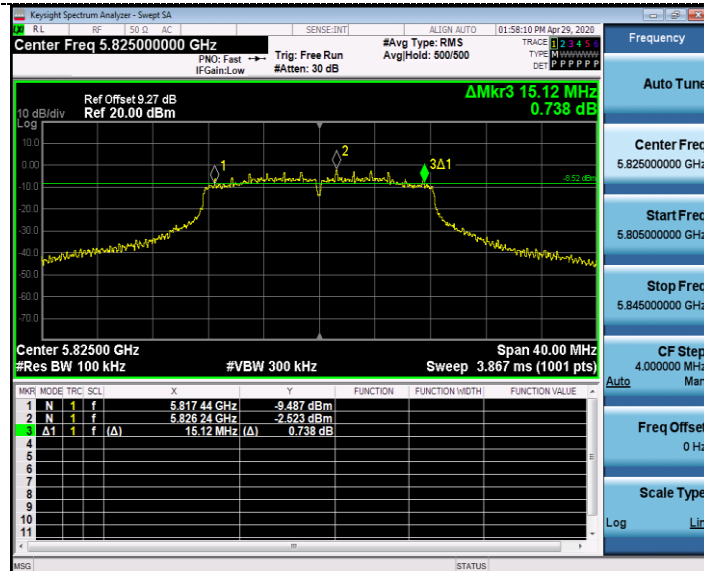
## CH149



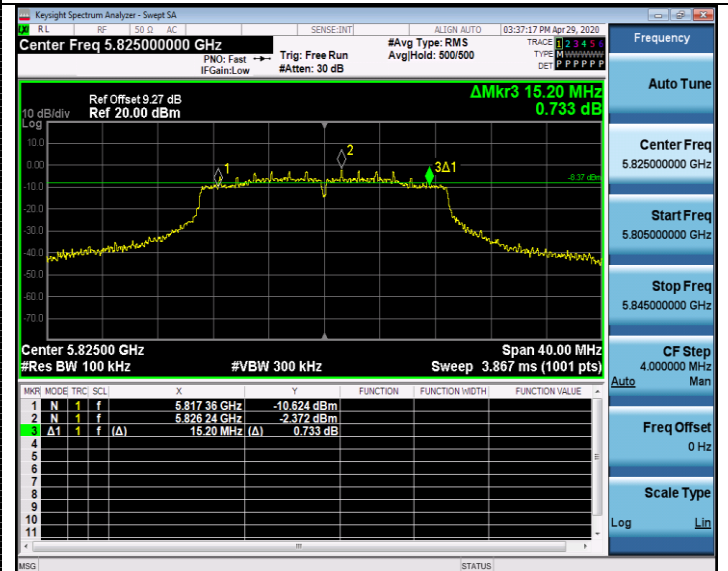
## CH149



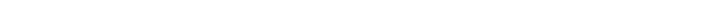
## CH157



## CH157



## CH165



## CH165

