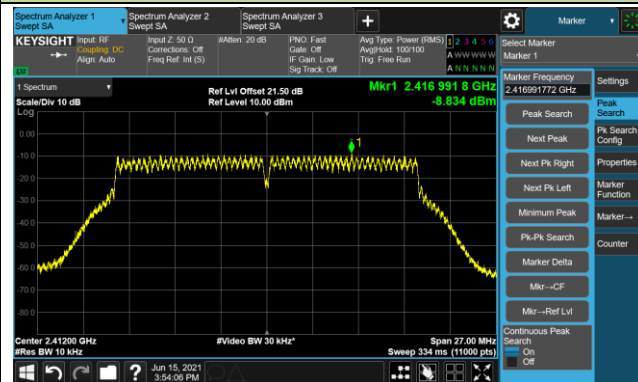
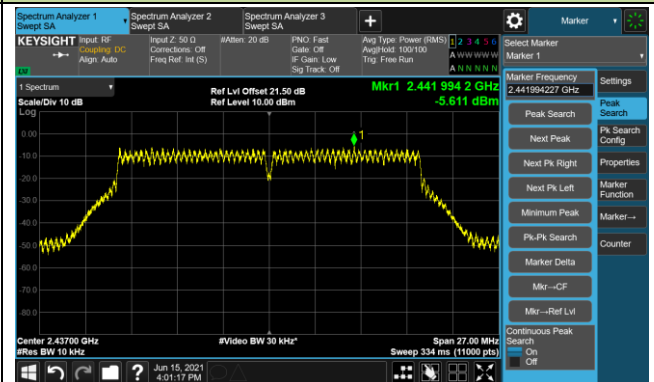


## 802.11n-HT20 AVGPSPD - Ant 2 / Ant 0 + 1 + 2 + 3 - CDD Mode

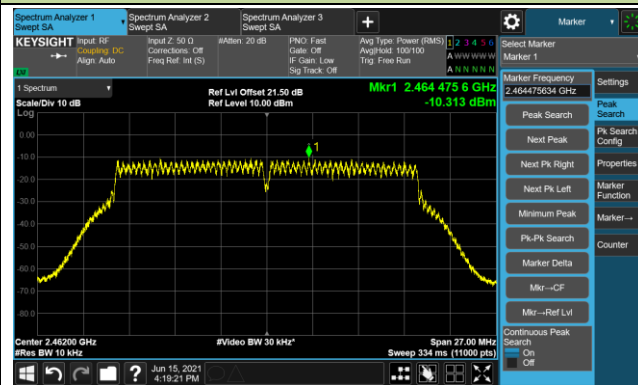
## Channel 01 (2412MHz)



## Channel 06 (2437MHz)

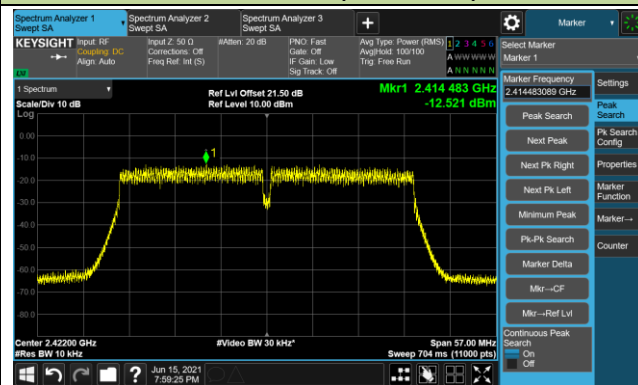


## Channel 11 (2462MHz)

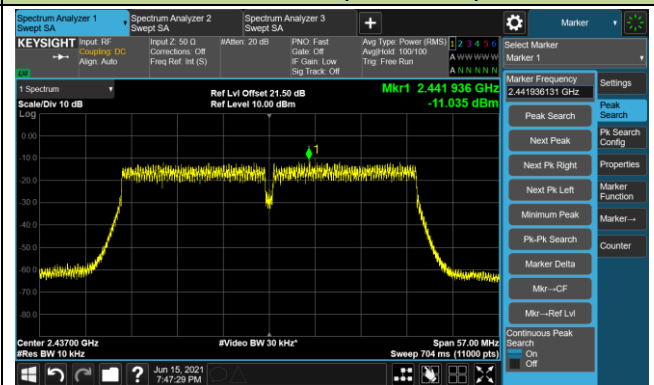


## 802.11n-HT40 AVGPSPD - Ant 2 / Ant 0 + 1 + 2 + 3 - CDD Mode

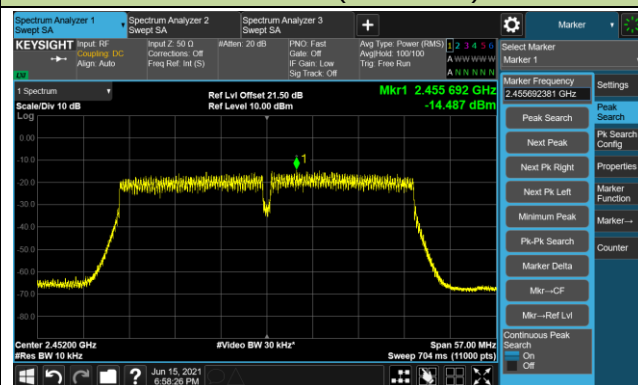
## Channel 03 (2422MHz)



## Channel 06 (2437MHz)

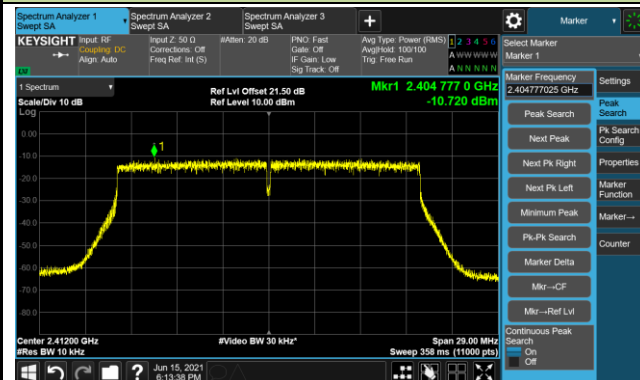


## Channel 09 (2452MHz)

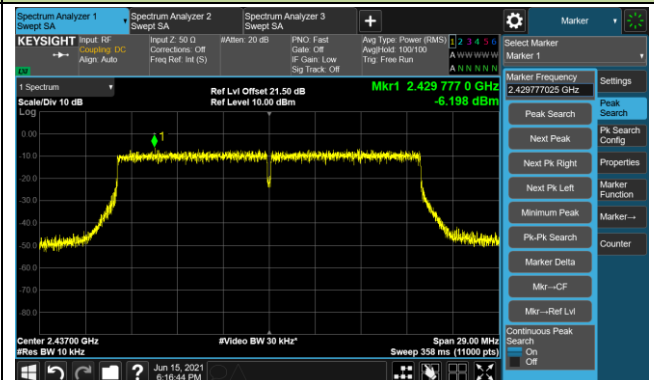


## 802.11ax-HE20 AVGPSPD - Ant 2 / Ant 0 + 1 + 2 + 3 - CDD Mode

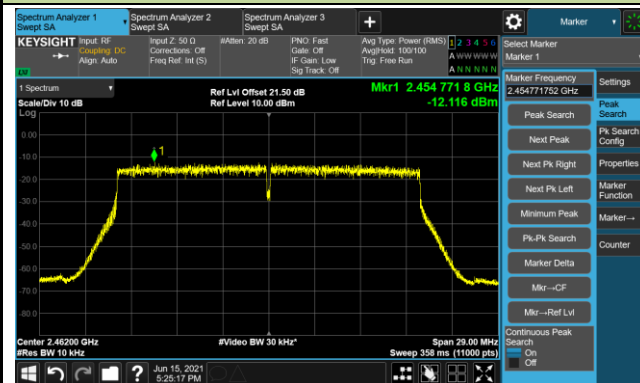
## Channel 01 (2412MHz)



## Channel 06 (2437MHz)

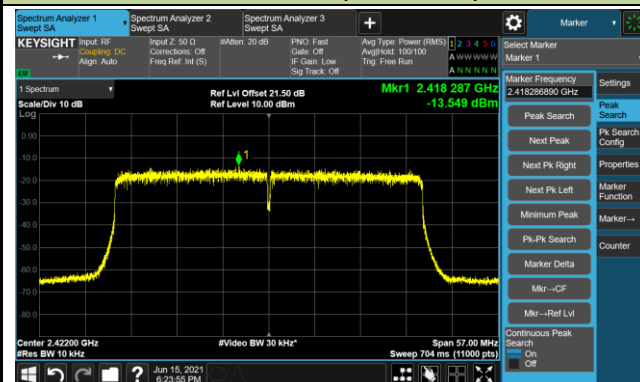


## Channel 11 (2462MHz)

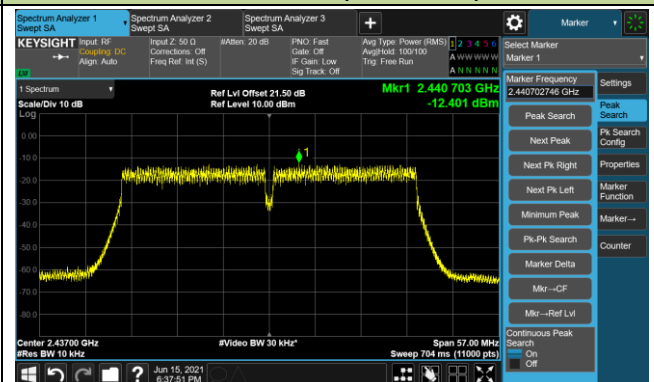


## 802.11ax-HE40 AVGPSPD - Ant 2 / Ant 0 + 1 + 2 + 3 - CDD Mode

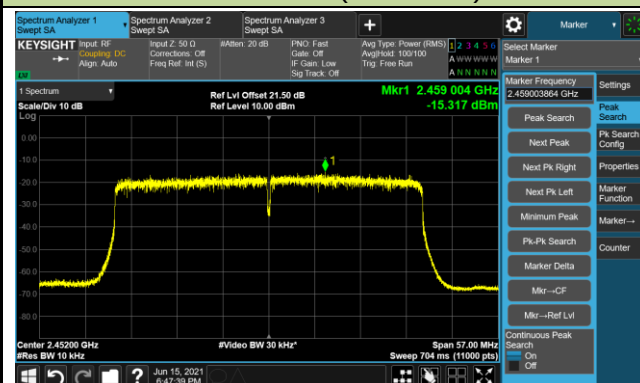
## Channel 03 (2422MHz)



## Channel 06 (2437MHz)

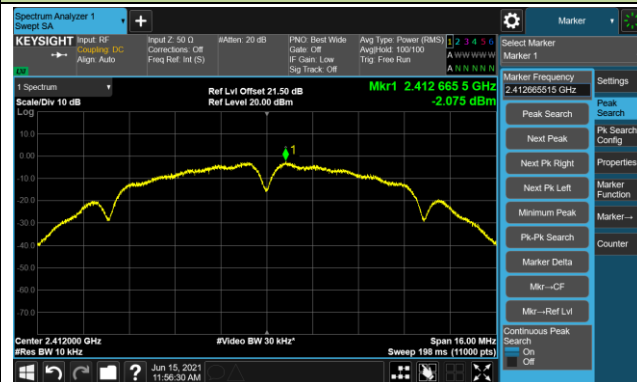


## Channel 09 (2452MHz)



## 802.11b AVGPSPD - Ant 3 / Ant 0 + 1 + 2 + 3 - CDD Mode

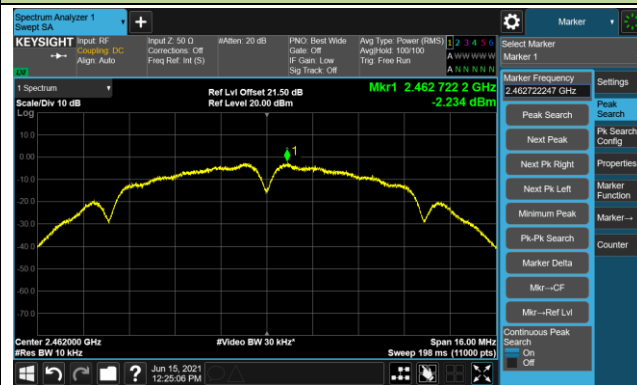
## Channel 01 (2412MHz)



## Channel 06 (2437MHz)

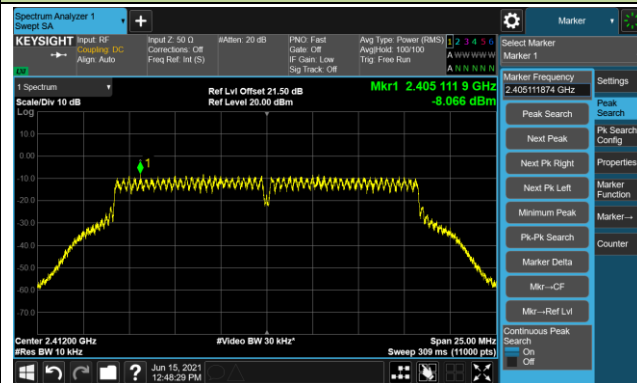


## Channel 11 (2462MHz)

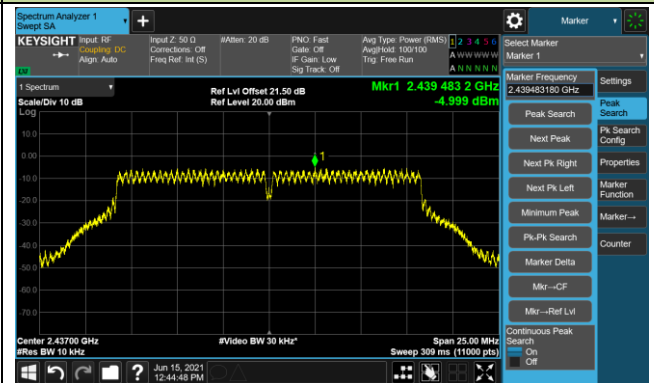


## 802.11g AVGPSPD - Ant 3 / Ant 0 + 1 + 2 + 3 - CDD Mode

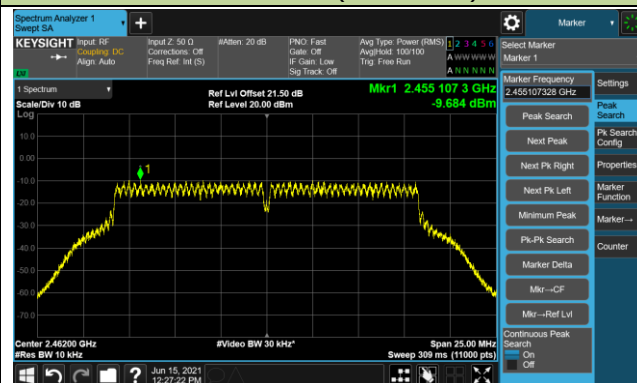
## Channel 01 (2412MHz)



## Channel 06 (2437MHz)

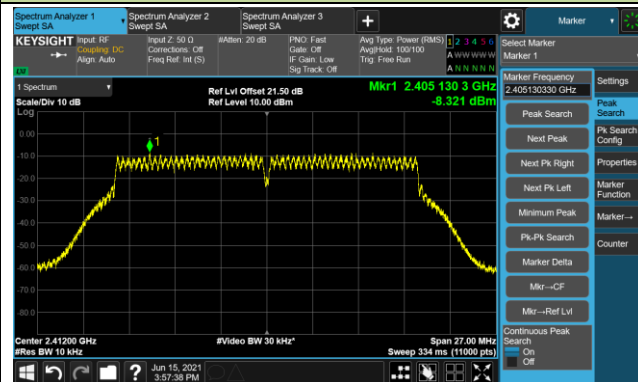


## Channel 11 (2462MHz)

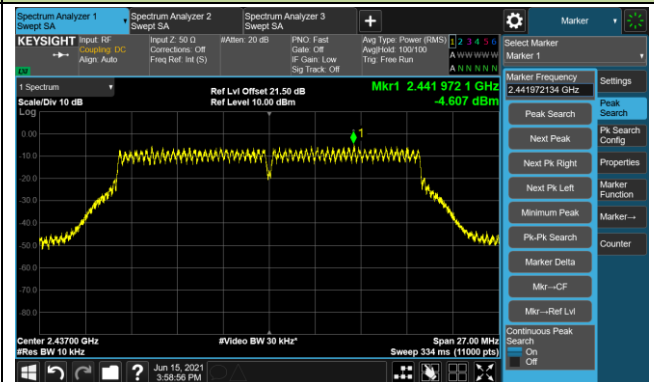


## 802.11n-HT20 AVGPDS - Ant 3 / Ant 0 + 1 + 2 + 3 - CDD Mode

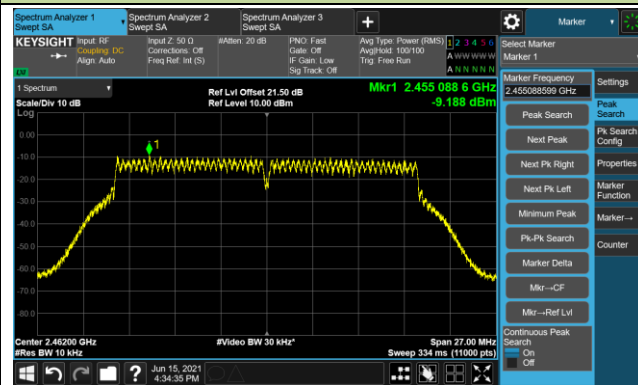
## Channel 01 (2412MHz)



## Channel 06 (2437MHz)

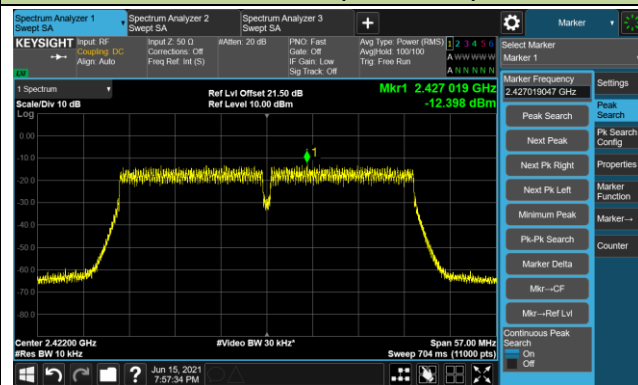


## Channel 11 (2462MHz)

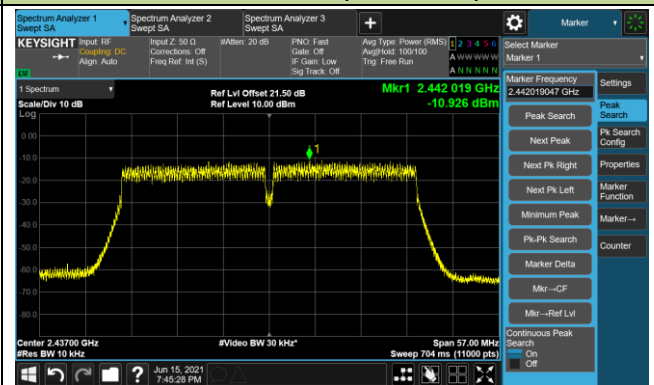


## 802.11n-HT40 AVGPDS - Ant 3 / Ant 0 + 1 + 2 + 3 - CDD Mode

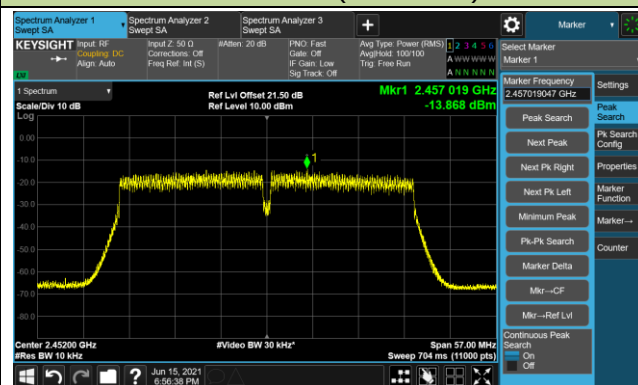
## Channel 03 (2422MHz)



## Channel 06 (2437MHz)

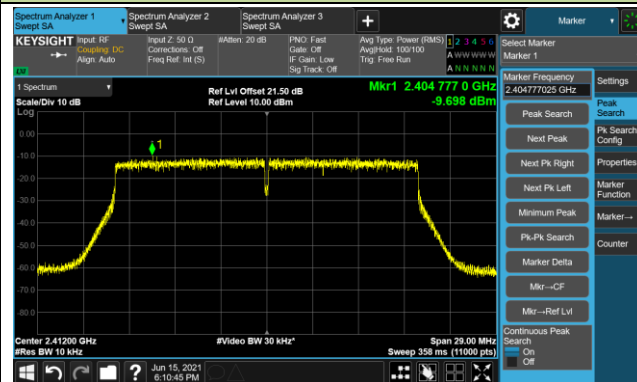


## Channel 09 (2452MHz)

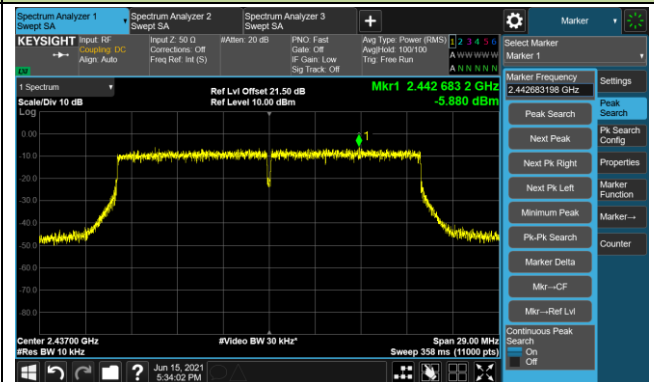


## 802.11ax-HE20 AVGPSPD - Ant 3 / Ant 0 + 1 + 2 + 3 - CDD Mode

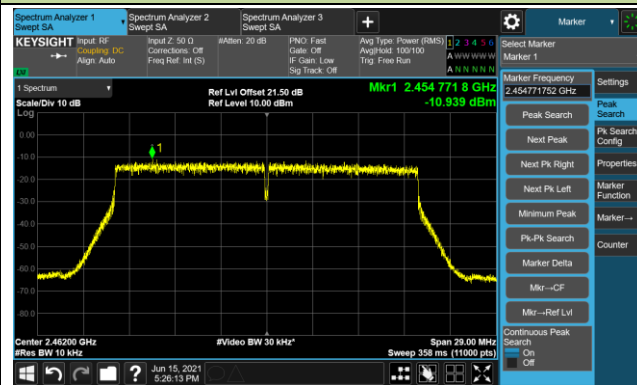
## Channel 01 (2412MHz)



## Channel 06 (2437MHz)

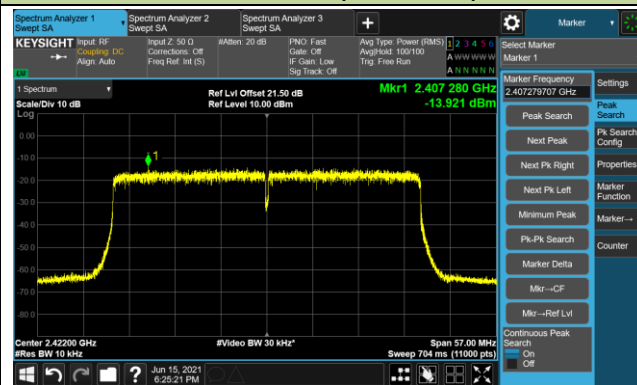


## Channel 11 (2462MHz)

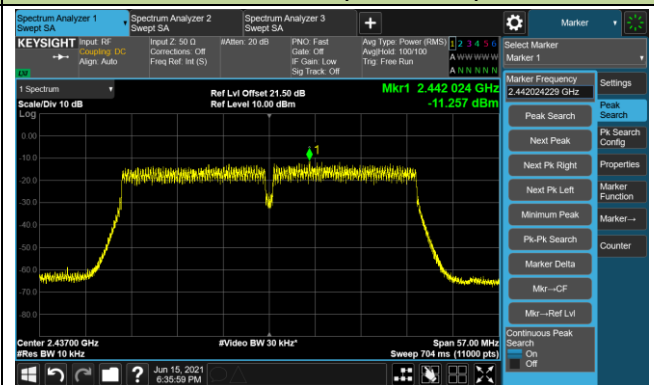


## 802.11ax-HE40 AVGPSPD - Ant 3 / Ant 0 + 1 + 2 + 3 - CDD Mode

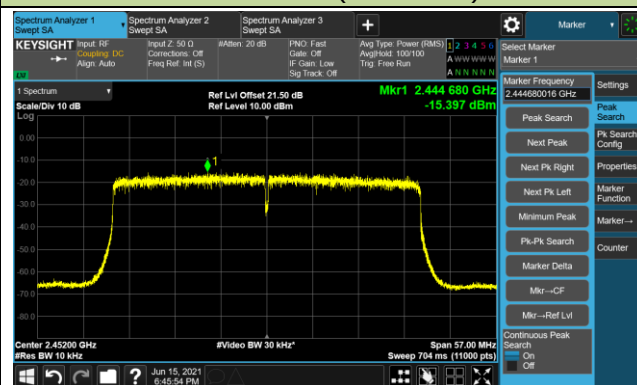
## Channel 03 (2422MHz)



## Channel 06 (2437MHz)



## Channel 09 (2452MHz)



## **7.5. Conducted Band Edge and Out-of-Band Emissions**

### **7.5.1. Test Limit**

The limit for out-of-band spurious emissions at the band edge is 30dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100 kHz bandwidth per the PSD procedure.

### **7.5.2. Test Procedure Used**

ANSI C63.10 Section 11.11

### **7.5.3. Test Setting**

#### **Reference level measurement**

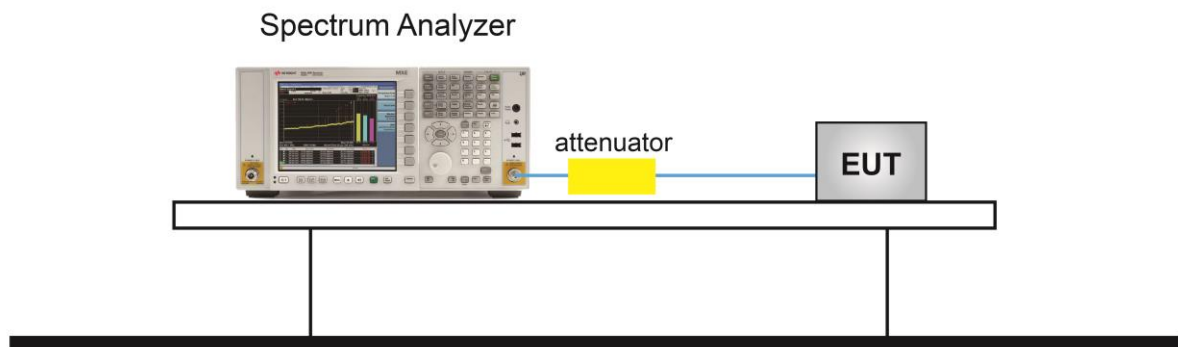
1. Set instrument center frequency to DTS channel center frequency
2. Set the span to  $\geq 1.5$  times the DTS bandwidth
3. Set the RBW = 100 kHz
4. Set the VBW  $\geq 3 \times$  RBW
5. Detector = peak
6. Sweep time = auto couple
7. Trace mode = max hold
8. Allow trace to fully stabilize

#### **Emission level measurement**

1. Set the center frequency and span to encompass frequency range to be measured
2. RBW = 100Hz
3. VBW = 300Hz
4. Detector = Peak
5. Trace mode = max hold
6. Sweep time = auto couple
7. The trace was allowed to stabilize



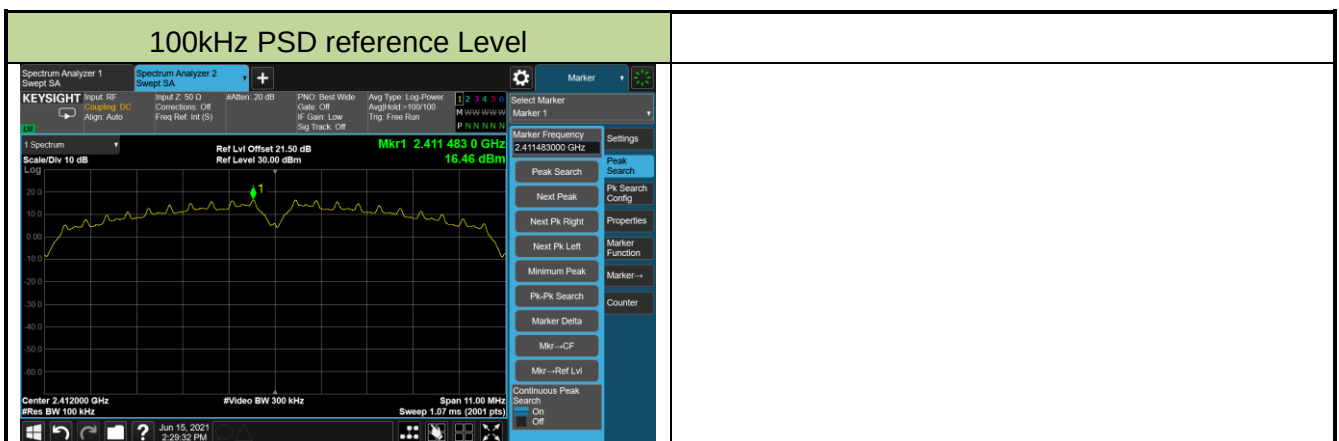
#### 7.5.4. Test Setup



### 7.5.5. Test Result

|               |                                        |                   |            |
|---------------|----------------------------------------|-------------------|------------|
| Product       | AX11000 Tri-Band Wi-Fi 6 Gaming Router | Temperature       | 23°C       |
| Test Engineer | Eric Lin                               | Relative Humidity | 54%        |
| Test Site     | SR2                                    | Test Date         | 2021/06/15 |

| Test Mode     | Data Rate / MCS | Channel No. | Frequency (MHz) | Limit (dBc) | Result |
|---------------|-----------------|-------------|-----------------|-------------|--------|
| 802.11b       | 1Mbps           | 01          | 2412            | 30          | Pass   |
| 802.11b       | 1Mbps           | 06          | 2437            | 30          | Pass   |
| 802.11b       | 1Mbps           | 11          | 2462            | 30          | Pass   |
| 802.11g       | 6Mbps           | 01          | 2412            | 30          | Pass   |
| 802.11g       | 6Mbps           | 06          | 2437            | 30          | Pass   |
| 802.11g       | 6Mbps           | 11          | 2462            | 30          | Pass   |
| 802.11n-HT20  | MCS0            | 01          | 2412            | 30          | Pass   |
| 802.11n-HT20  | MCS0            | 06          | 2437            | 30          | Pass   |
| 802.11n-HT20  | MCS0            | 11          | 2462            | 30          | Pass   |
| 802.11n-HT40  | MCS0            | 03          | 2422            | 30          | Pass   |
| 802.11n-HT40  | MCS0            | 06          | 2437            | 30          | Pass   |
| 802.11n-HT40  | MCS0            | 09          | 2452            | 30          | Pass   |
| 802.11ax-HE20 | MCS0            | 01          | 2412            | 30          | Pass   |
| 802.11ax-HE20 | MCS0            | 06          | 2437            | 30          | Pass   |
| 802.11ax-HE20 | MCS0            | 11          | 2462            | 30          | Pass   |
| 802.11ax-HE40 | MCS0            | 03          | 2422            | 30          | Pass   |
| 802.11ax-HE40 | MCS0            | 06          | 2437            | 30          | Pass   |
| 802.11ax-HE40 | MCS0            | 09          | 2452            | 30          | Pass   |

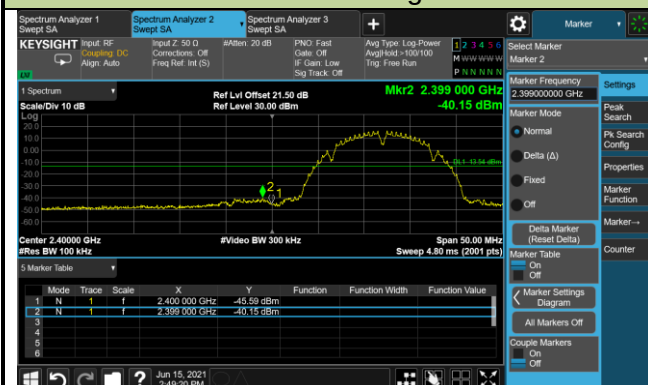




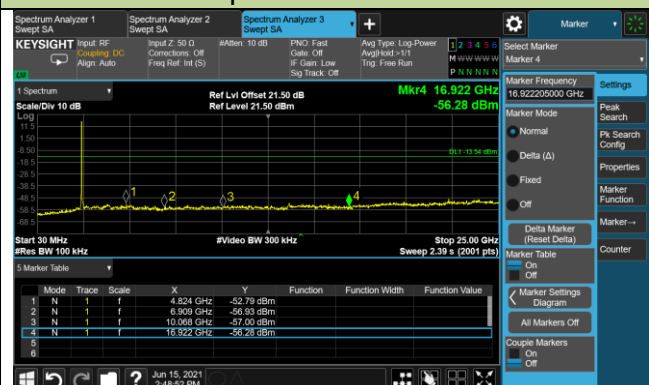
## 802.11b Out-of-Band Emissions - Ant 0 / Ant 0 + 1 + 2 + 3

### Channel 01 (2412MHz)

#### Low Band Edge

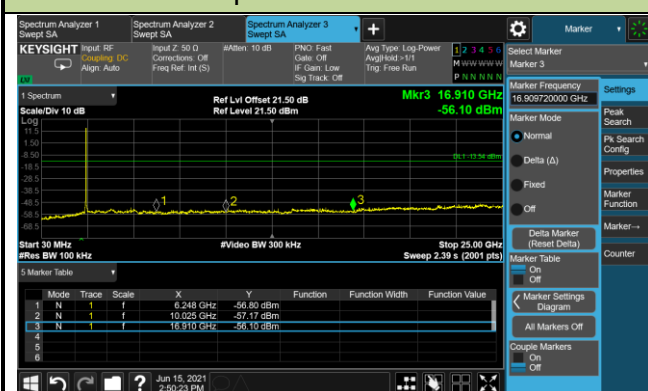


#### Spurious Emission



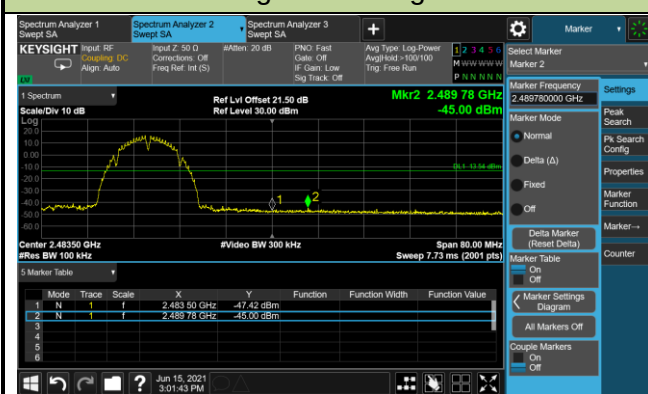
### Channel 06 (2437MHz)

#### Spurious Emission

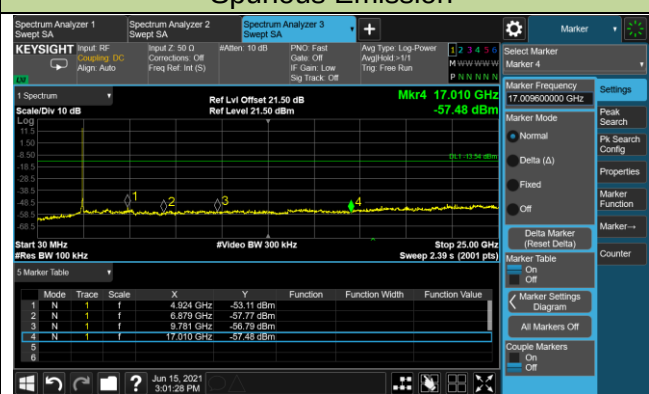


### Channel 11 (2462MHz)

#### High Band Edge



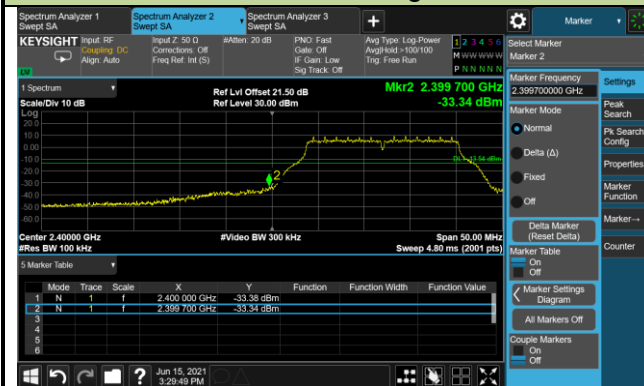
#### Spurious Emission



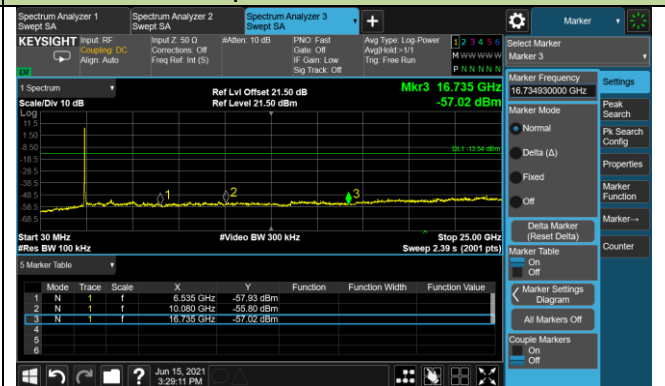
# 802.11g Out-of-Band Emissions- Ant 0 / Ant 0 + 1 + 2 + 3

## Channel 01 (2412MHz)

### Low Band Edge

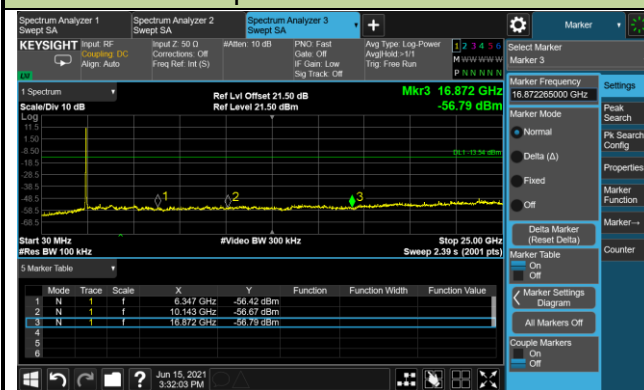


### Spurious Emission



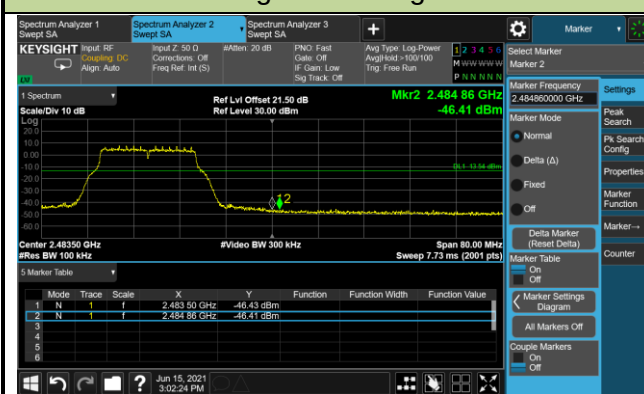
## Channel 06 (2437MHz)

### Spurious Emission

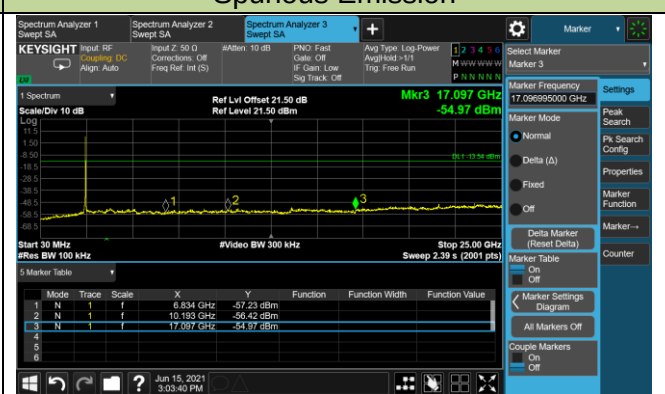


## Channel 11 (2462MHz)

### High Band Edge



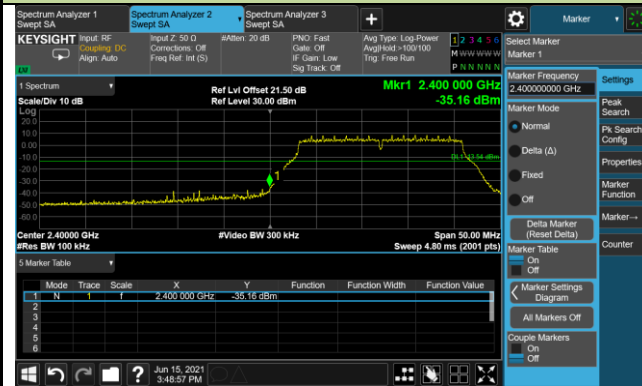
### Spurious Emission



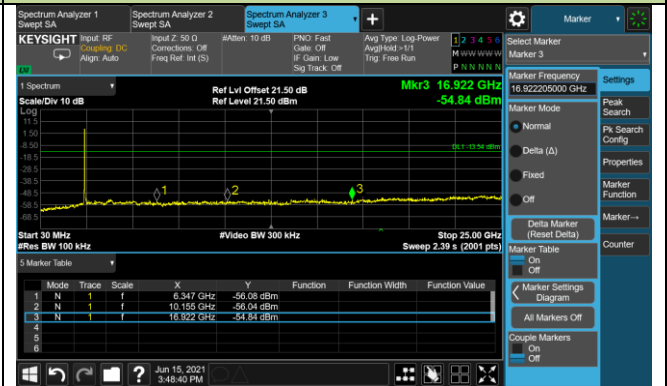
## 802.11n-HT20 Out-of-Band Emissions- Ant 0 / Ant 0 + 1 + 2 + 3

## Channel 01 (2412MHz)

## Low Band Edge

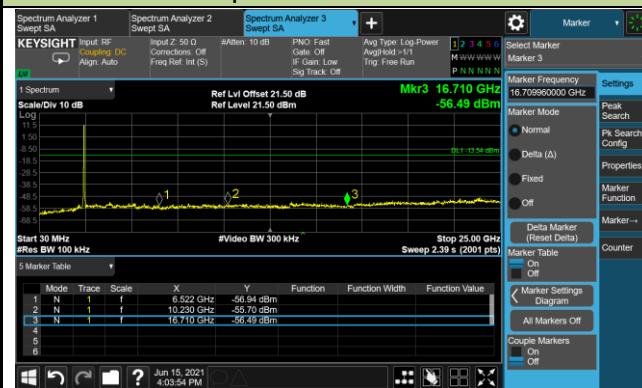


## Spurious Emission



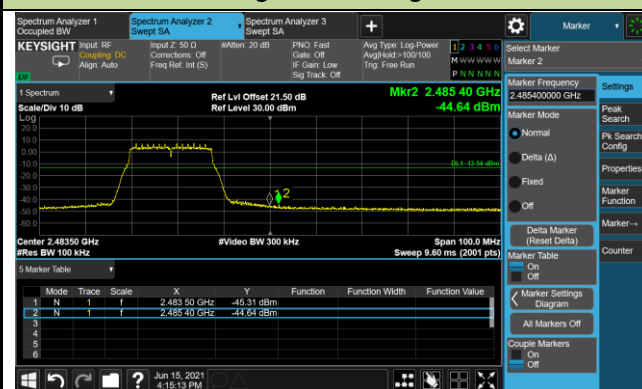
## Channel 06 (2437MHz)

## Spurious Emission

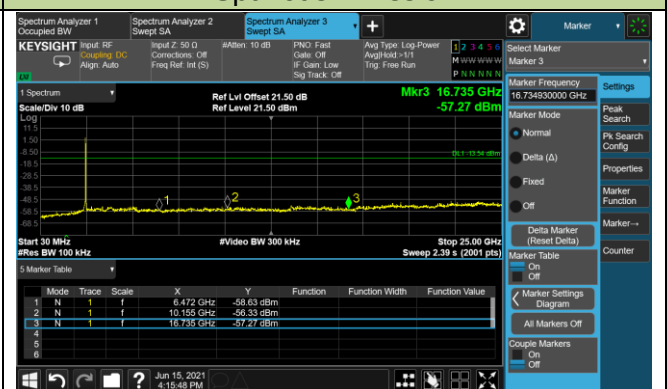


## Channel 11 (2462MHz)

## High Band Edge



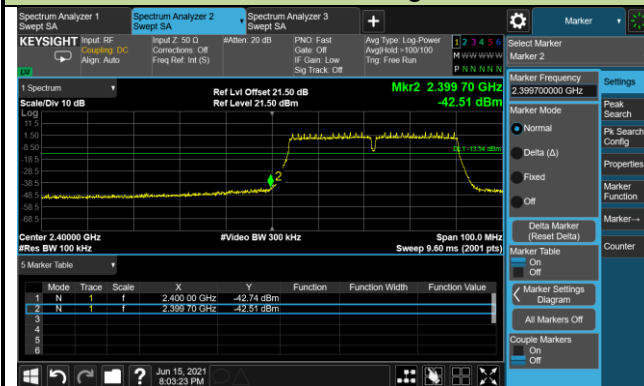
## Spurious Emission



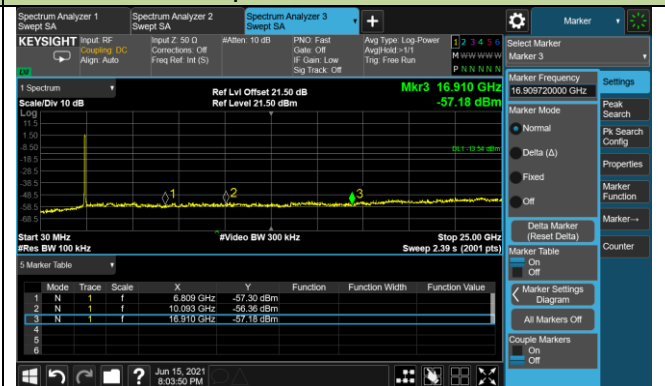
# 802.11n-HT40 Out-of-Band Emissions- Ant 0 / Ant 0 + 1 + 2 + 3

## Channel 03 (2422MHz)

### Low Band Edge

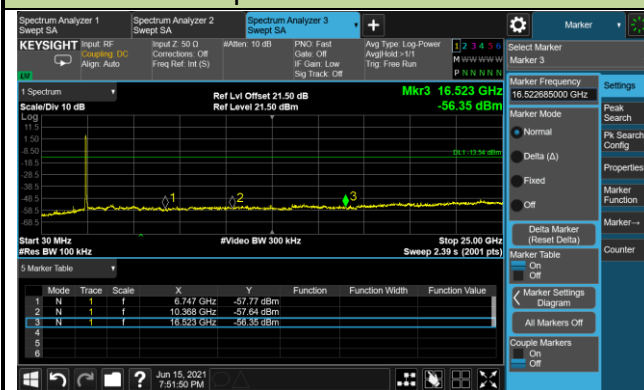


### Spurious Emission



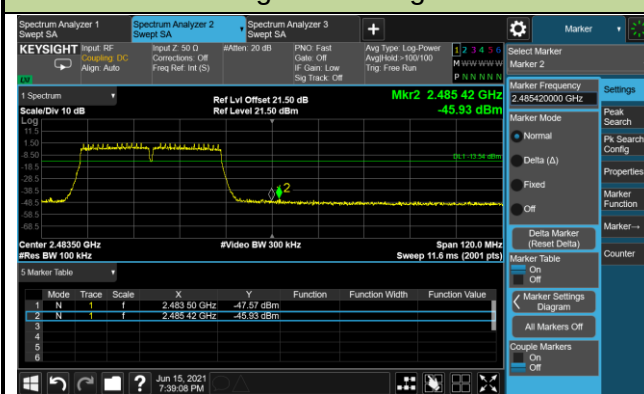
## Channel 06 (2437MHz)

### Spurious Emission



## Channel 09 (2452MHz)

### High Band Edge



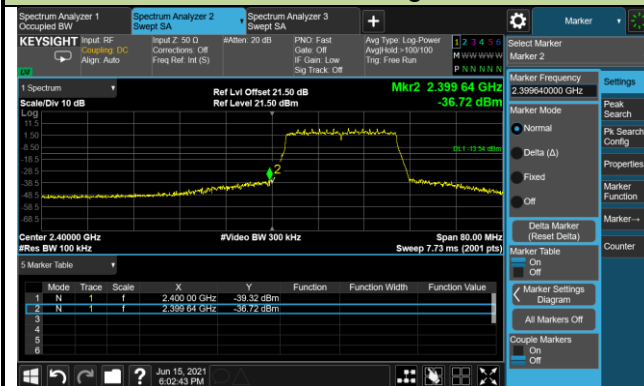
### Spurious Emission



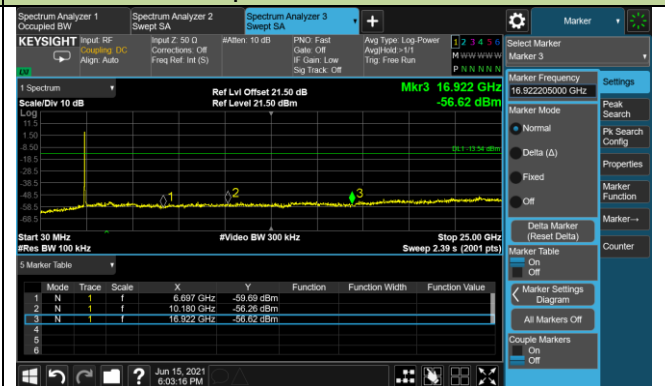
## 802.11ax-HE20 Out-of-Band Emissions- Ant 0 / Ant 0 + 1 + 2 + 3

## Channel 01 (2412MHz)

## Low Band Edge

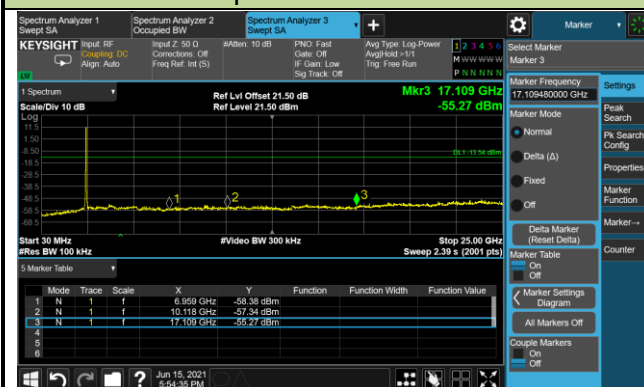


## Spurious Emission



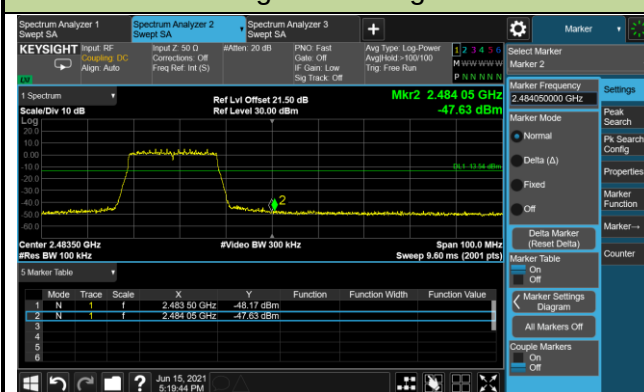
## Channel 06 (2437MHz)

## Spurious Emission



## Channel 11 (2462MHz)

## High Band Edge



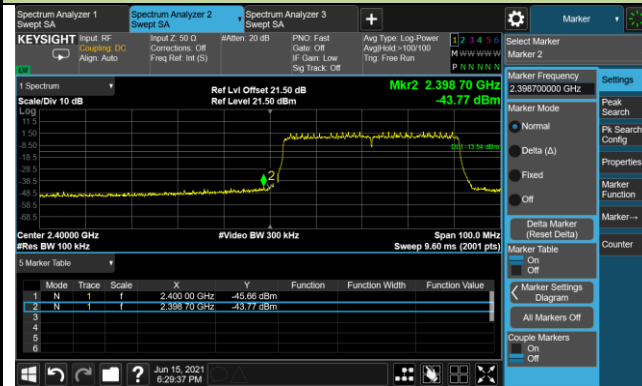
## Spurious Emission



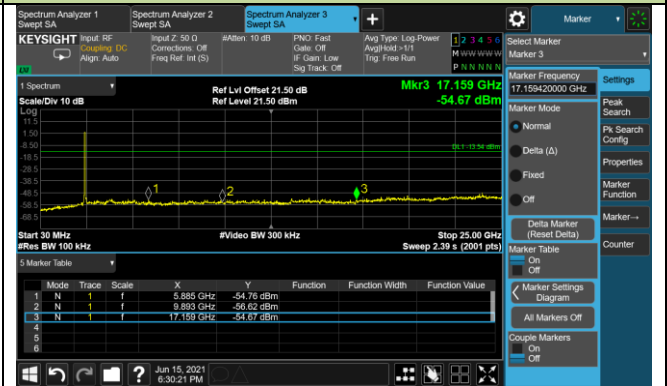
## 802.11ax-HE40 Out-of-Band Emissions- Ant 0 / Ant 0 + 1 + 2 + 3

## Channel 03 (2422MHz)

## Low Band Edge

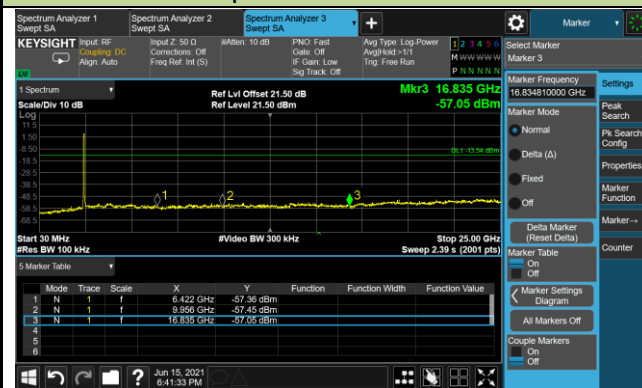


## Spurious Emission



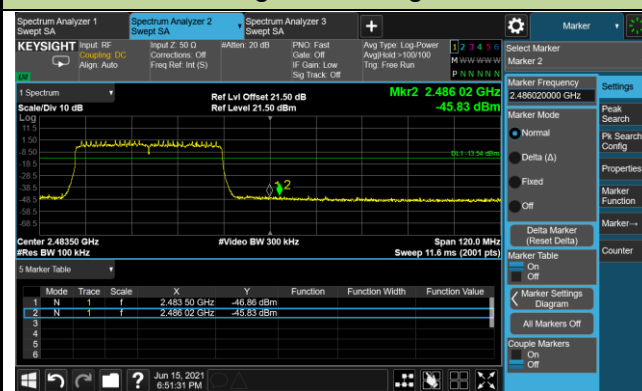
## Channel 06 (2437MHz)

## Spurious Emission

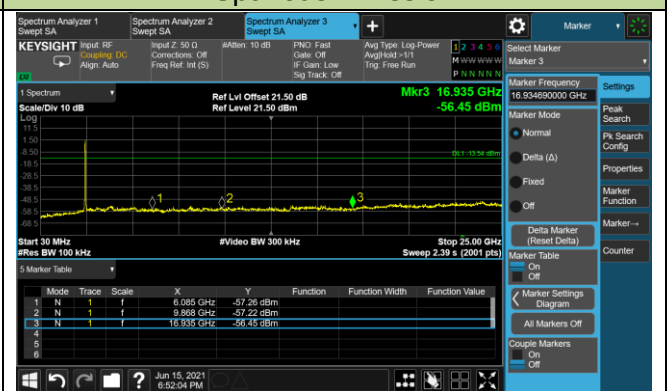


## Channel 09 (2452MHz)

## High Band Edge



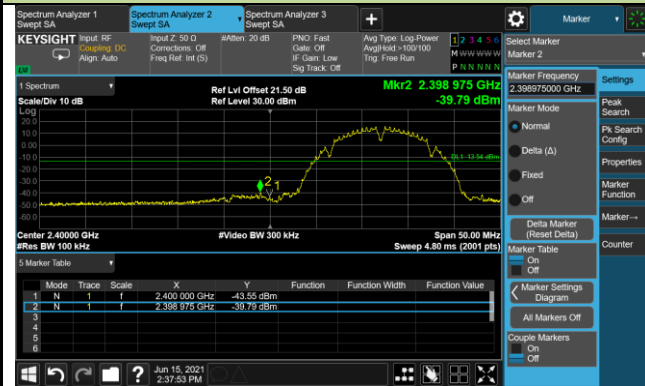
## Spurious Emission



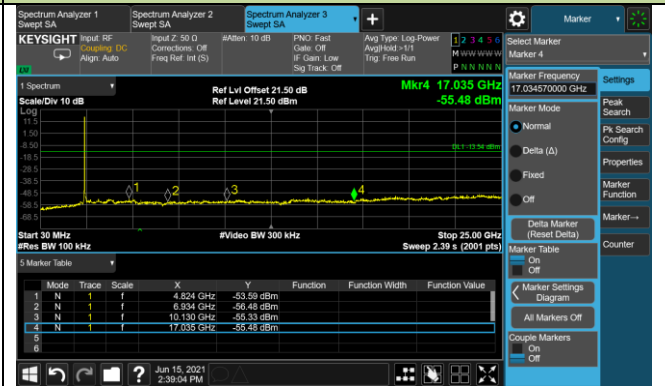
## 802.11b Out-of-Band Emissions - Ant 1 / Ant 0 + 1 + 2 + 3

### Channel 01 (2412MHz)

#### Low Band Edge

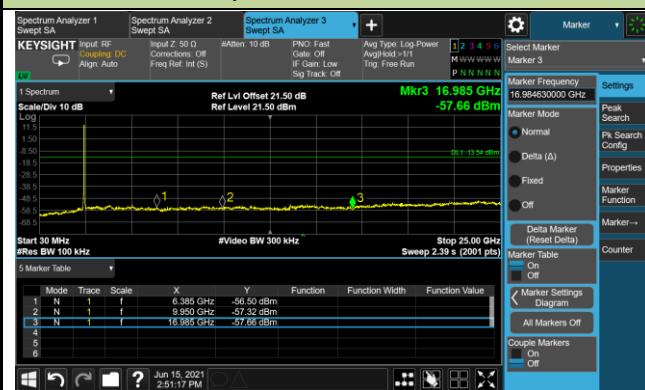


#### Spurious Emission



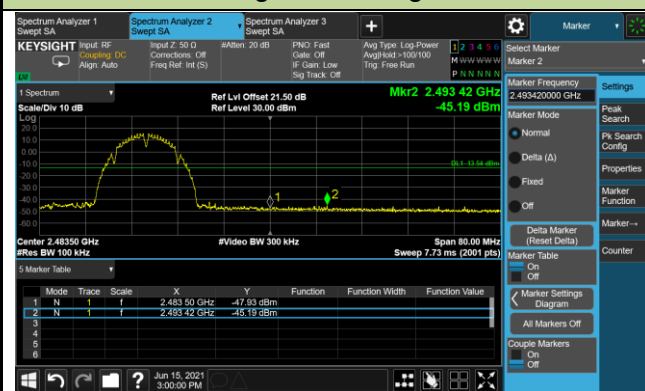
### Channel 06 (2437MHz)

#### Spurious Emission



### Channel 11 (2462MHz)

#### High Band Edge



#### Spurious Emission

