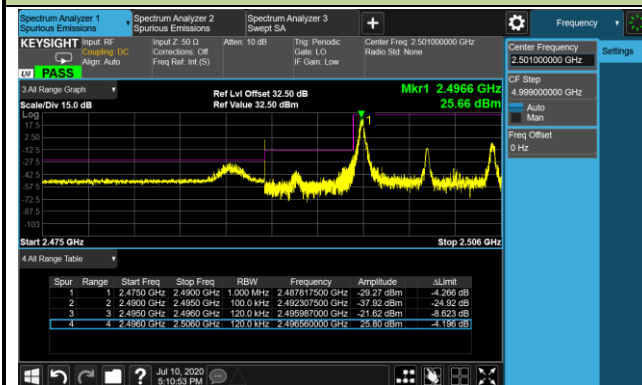
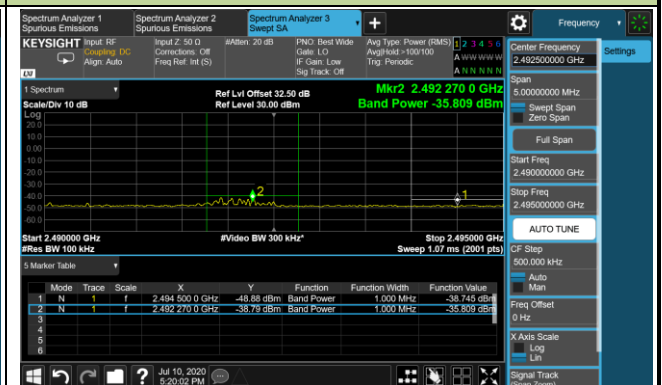


# 10MHz Channel Bandwidth - 1RB

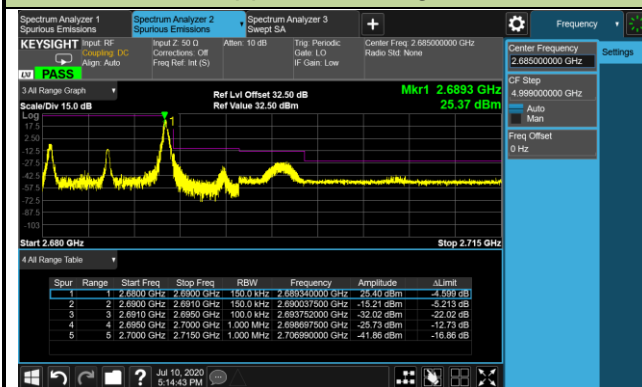
## Lower Band Edge



## Lower Extended Band Edge



## Upper Band Edge

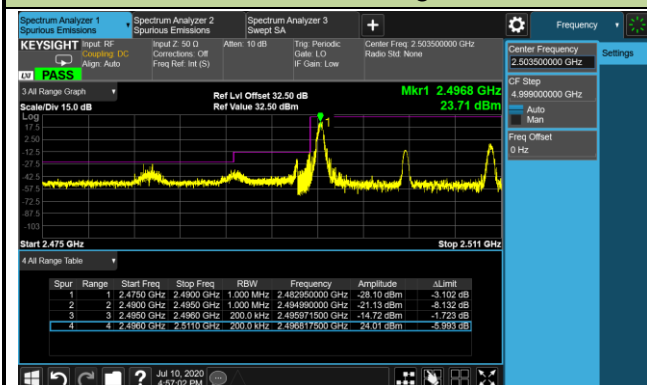


## Upper Extended Band Edge

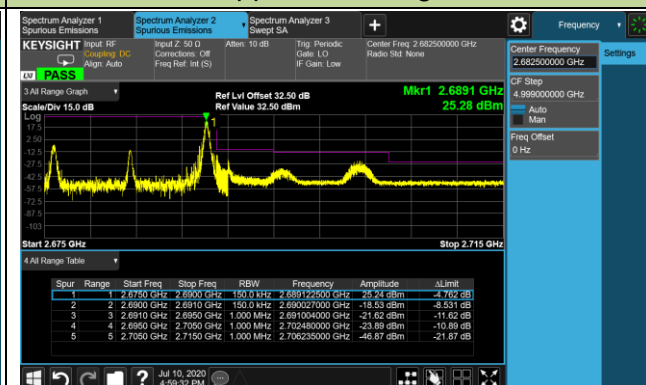


## 15MHz Channel Bandwidth - 1RB

### Lower Band Edge

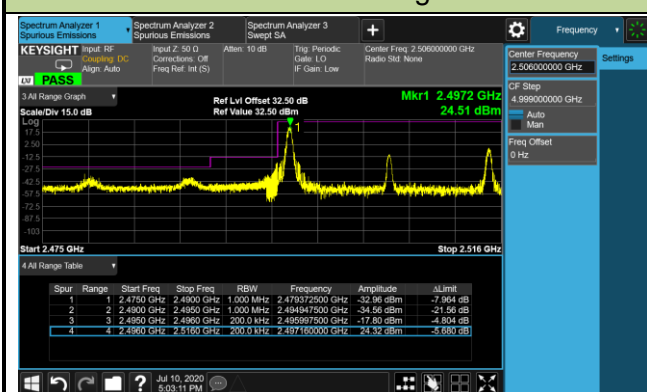


### Upper Band Edge

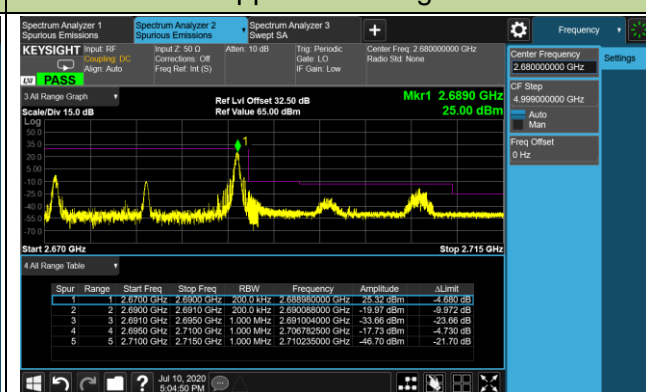


## 20MHz Channel Bandwidth - 1RB

### Lower Band Edge

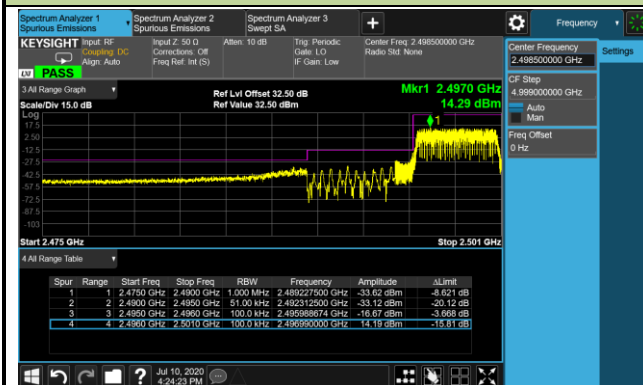


### Upper Band Edge

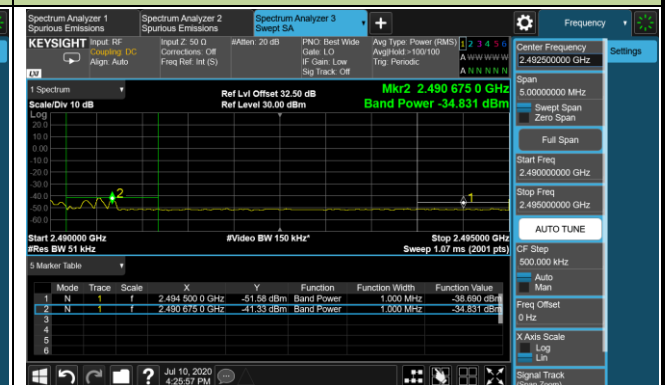


## 5MHz Channel Bandwidth - FULL RB

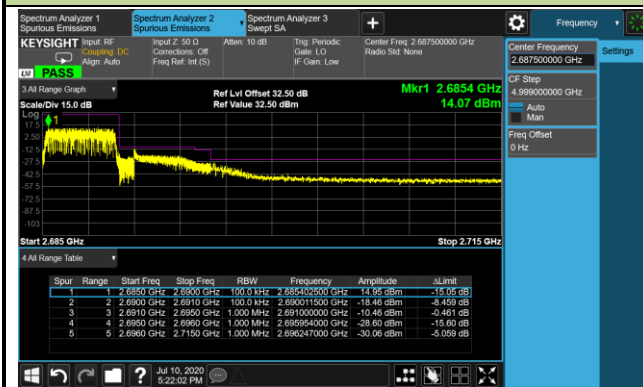
### Lower Band Edge



### Lower Extended Band Edge

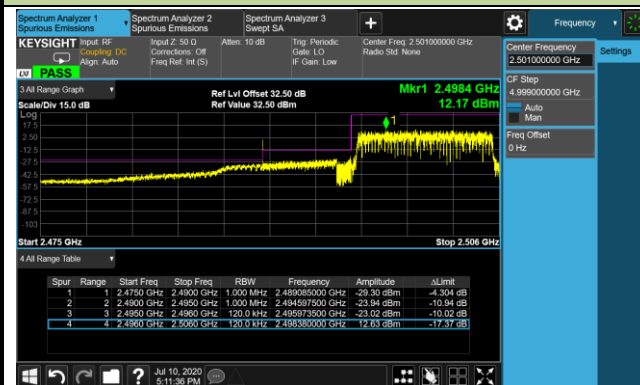


### Upper Band Edge

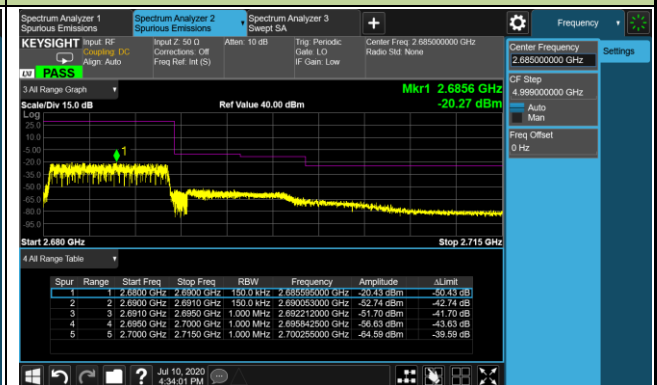


### 10MHz Channel Bandwidth - FULL RB

#### Lower Band Edge

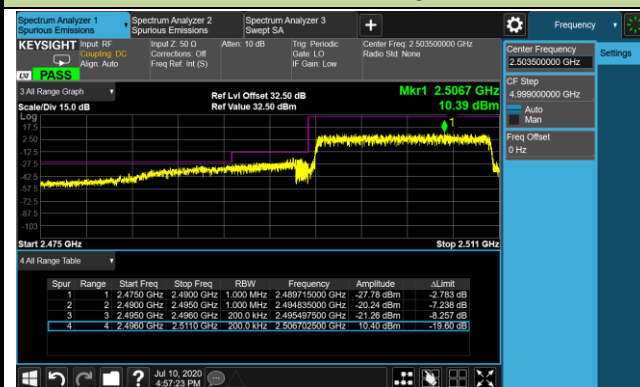


#### Upper Band Edge

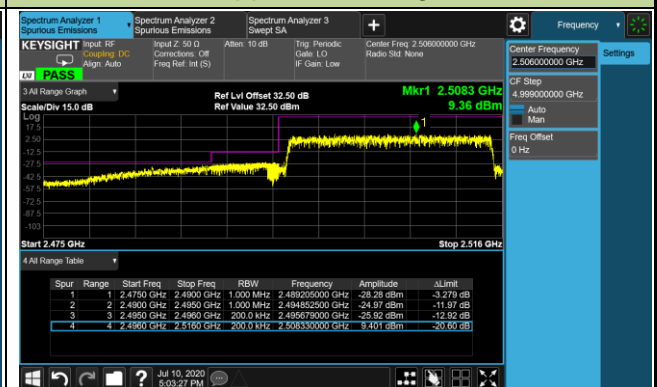


### 15MHz Channel Bandwidth - FULL RB

#### Lower Band Edge



#### Upper Band Edge

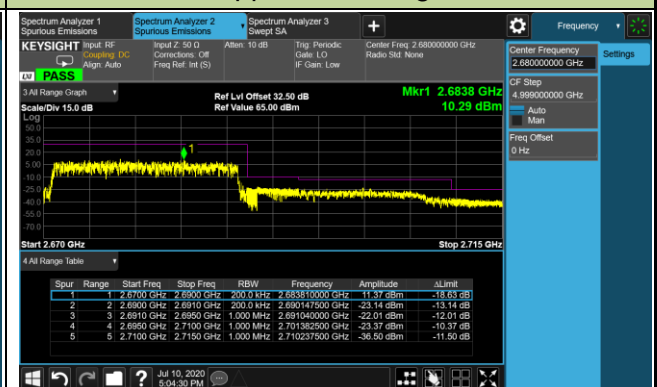


### 20MHz Channel Bandwidth - FULL RB

#### Lower Band Edge



#### Upper Band Edge



## **5.4. Spurious and Harmonic Emissions at Antenna Terminal**

### **5.4.1. Test Limit**

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10<sup>th</sup> harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB. For Band 7, 38, 41 the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $55 + 10 \log(P)$  dB.

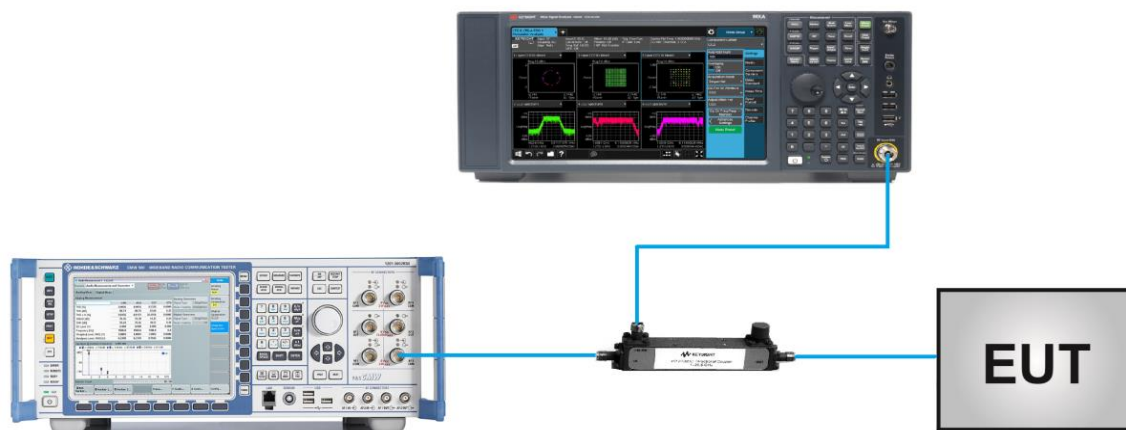
### **5.4.2. Test Procedure Used**

ANSI C63.26-2015 - Section 5.7

### **5.4.3. Test Setting**

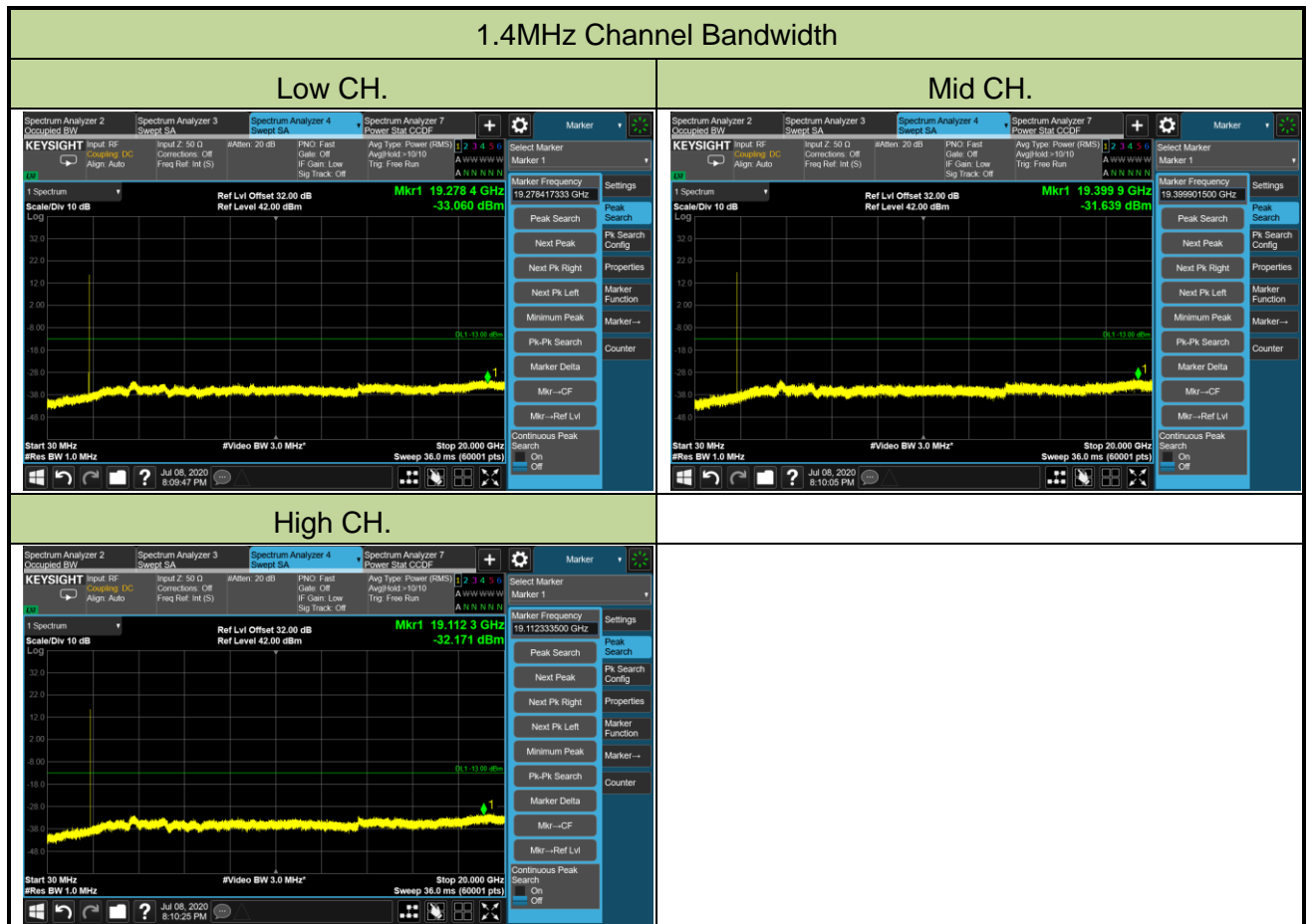
1. Set the analyzer frequency to low, mid, high channel.
2. RBW = 1MHz
3. VBW  $\geq 3 \times$  RBW
4. Sweep time = auto
5. Detector = power averaging (rms)
6. Set sweep trigger to "free run."
7. User gate triggered such that the analyzer only sweeps when the device is transmitting at full power.
8. Trace average at least 100 traces in power averaging (rms) mode if sweep is set to auto-couple.  
To accurately determine the average power over the on and off time of the transmitter, it can be necessary to increase the number of traces to be averaged above 100, or if using a manually configured sweep time, increase the sweep time.

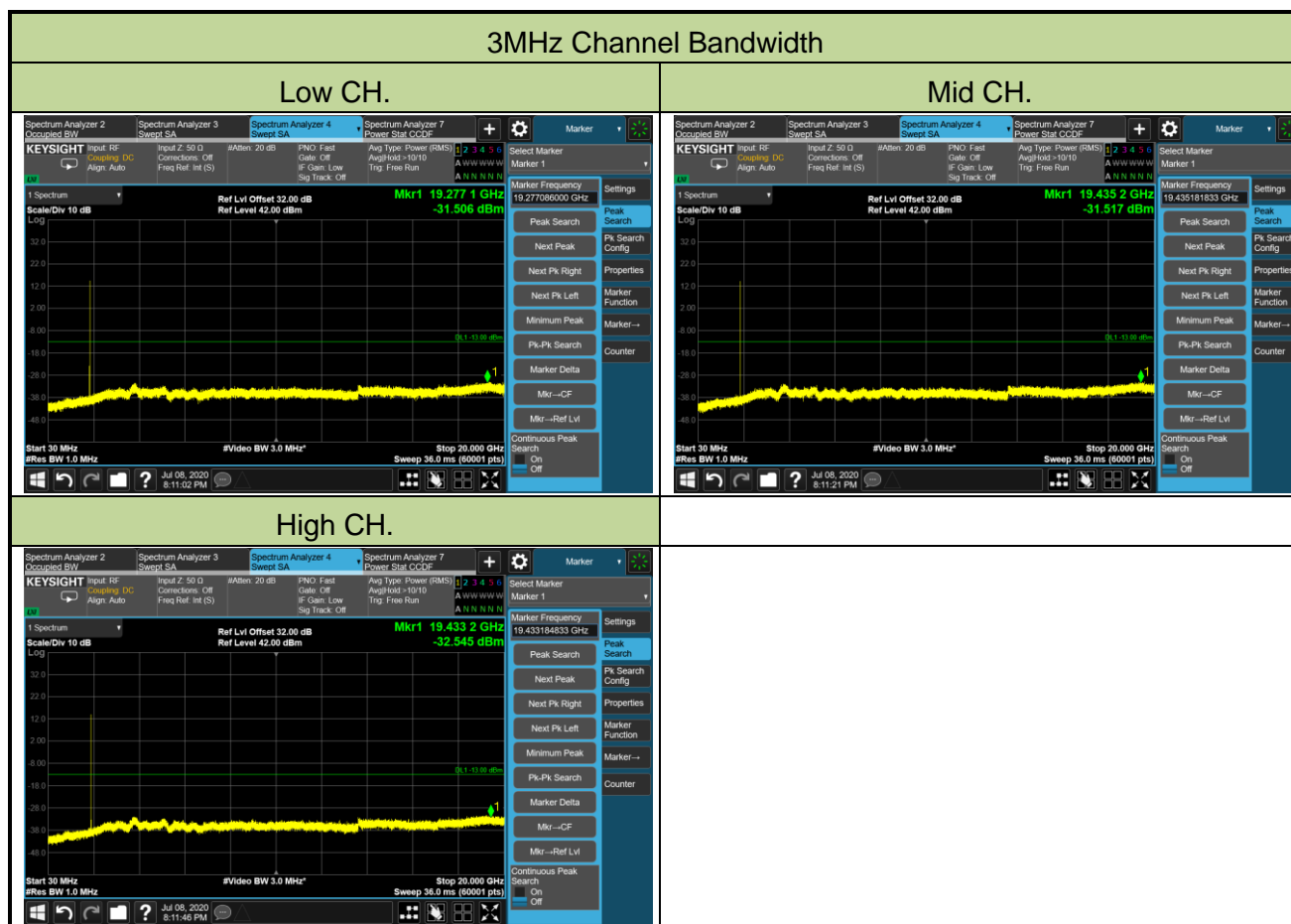
#### 5.4.4. Test Setup



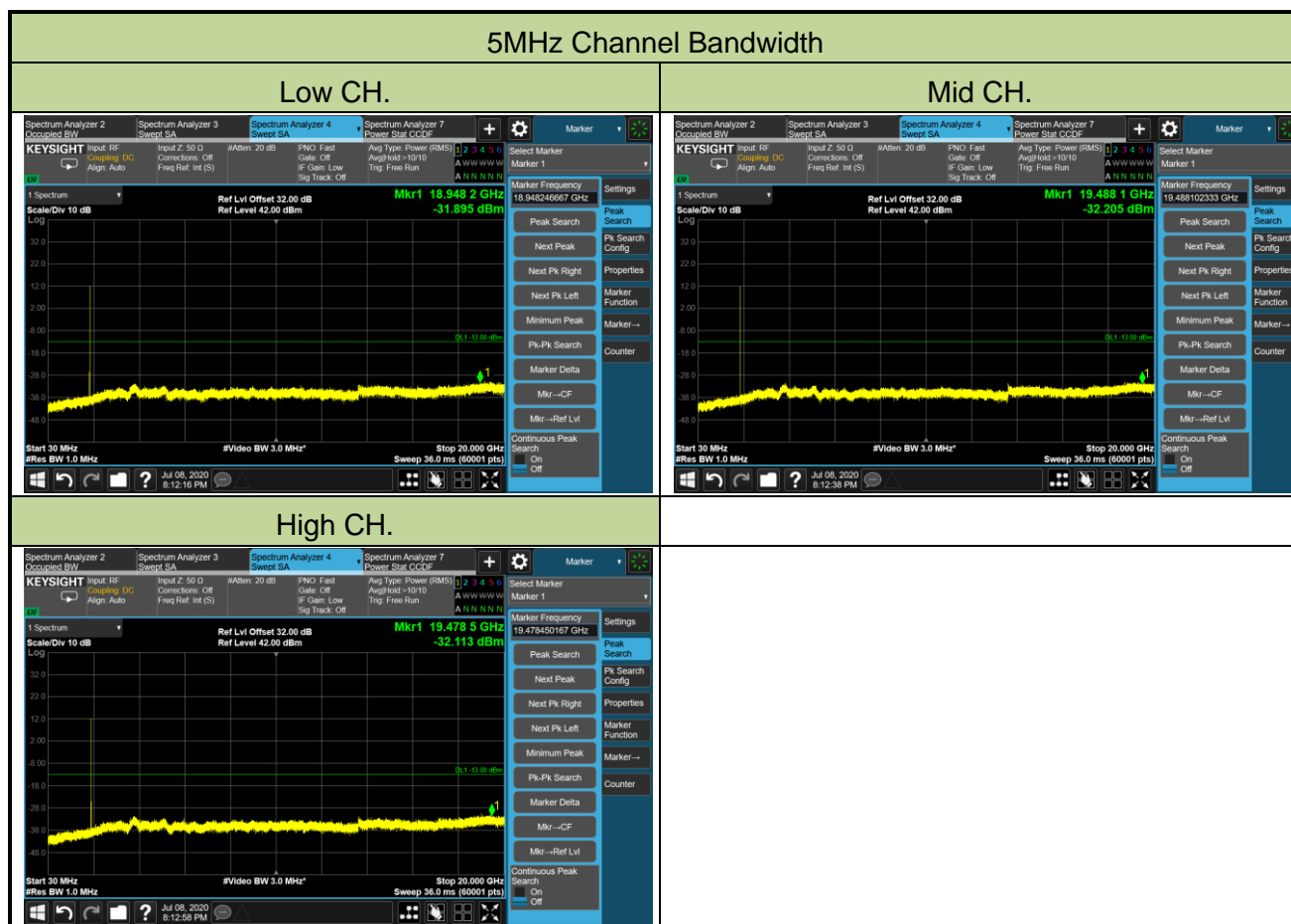
### 5.4.5. Test Result

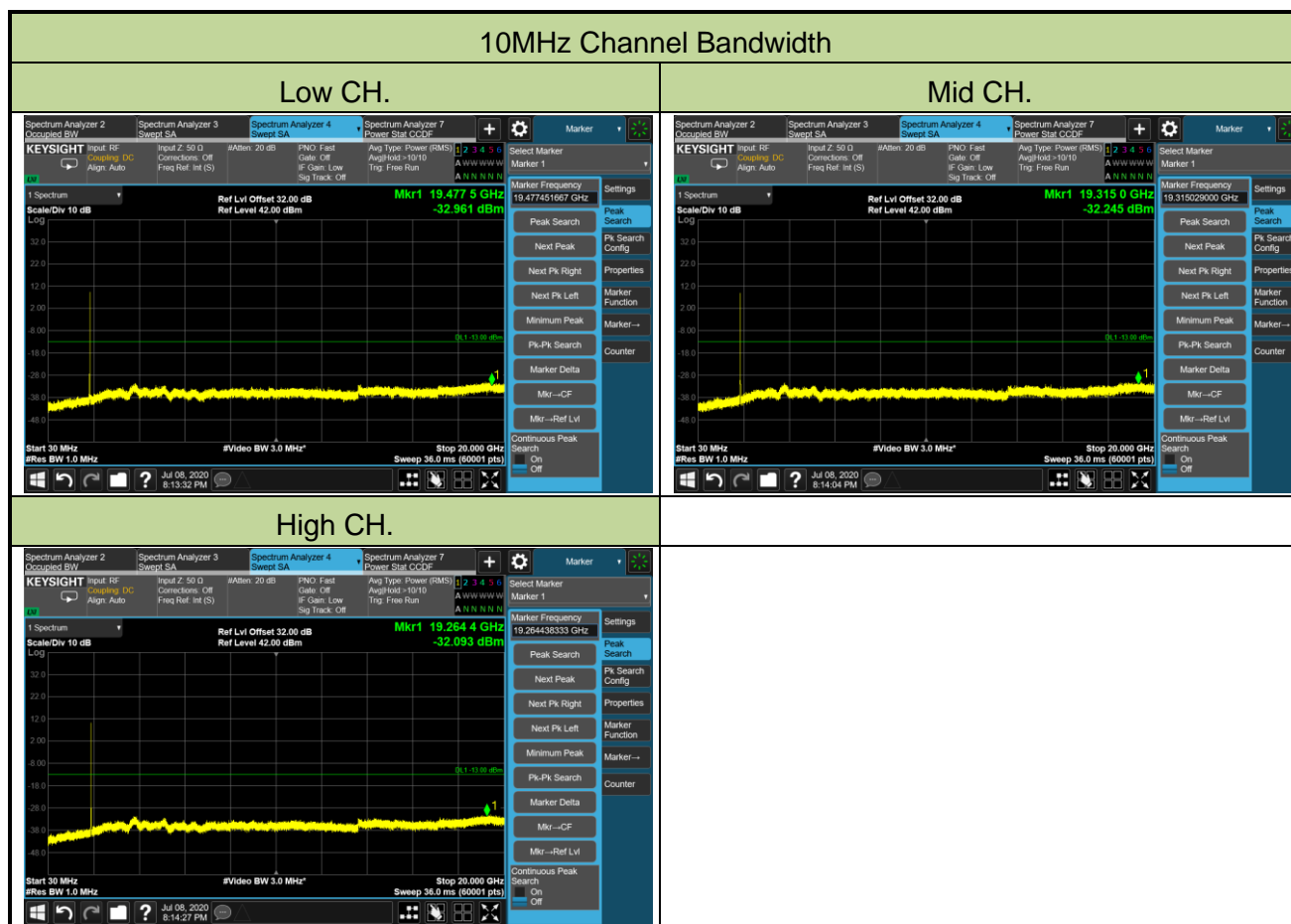
Product	Tablet	Test Site	SR5
Test Engineer	Candy Luo	Test Date	2020/07/08
Test Band	Band 2		
Test Result	Pass		

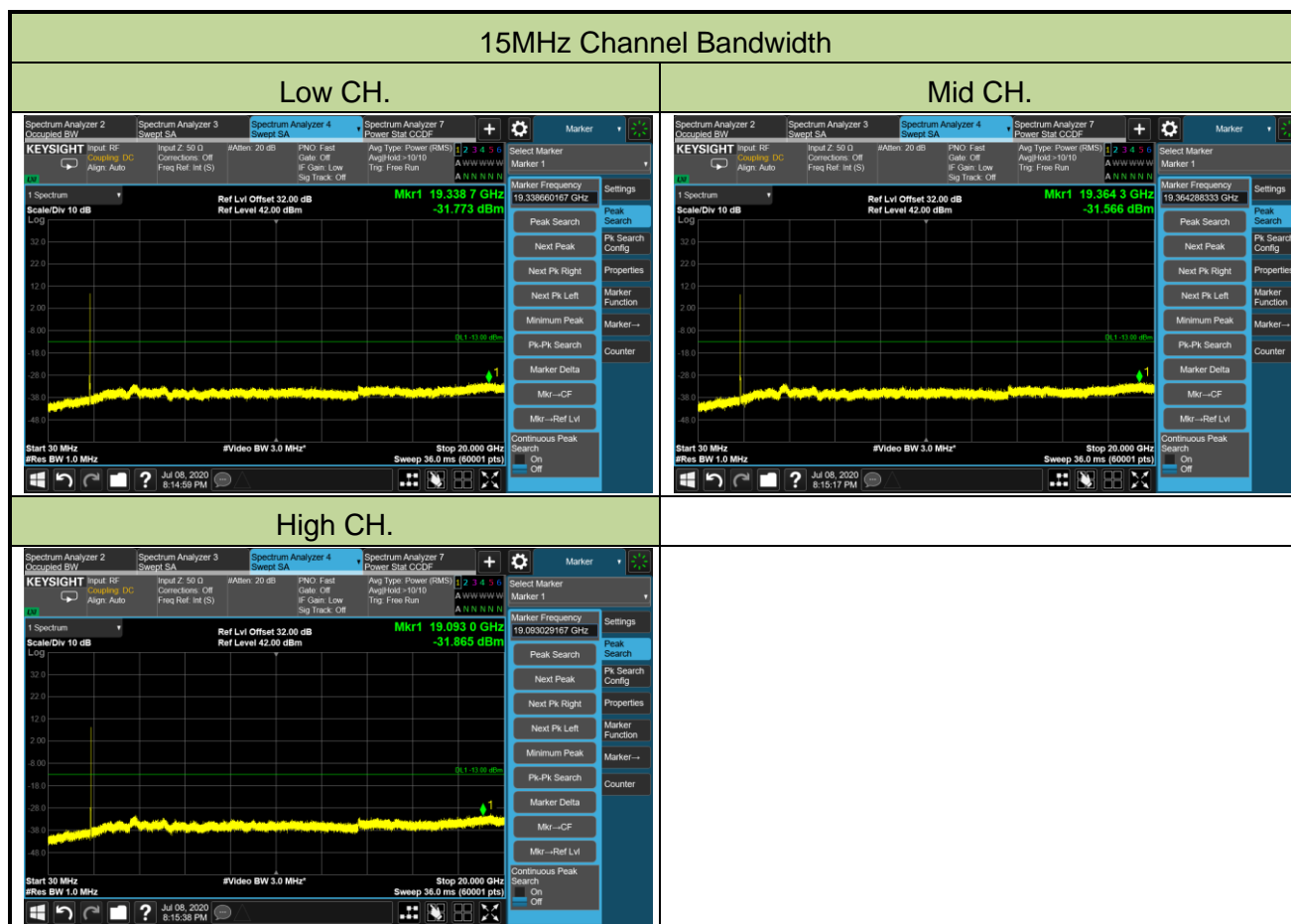


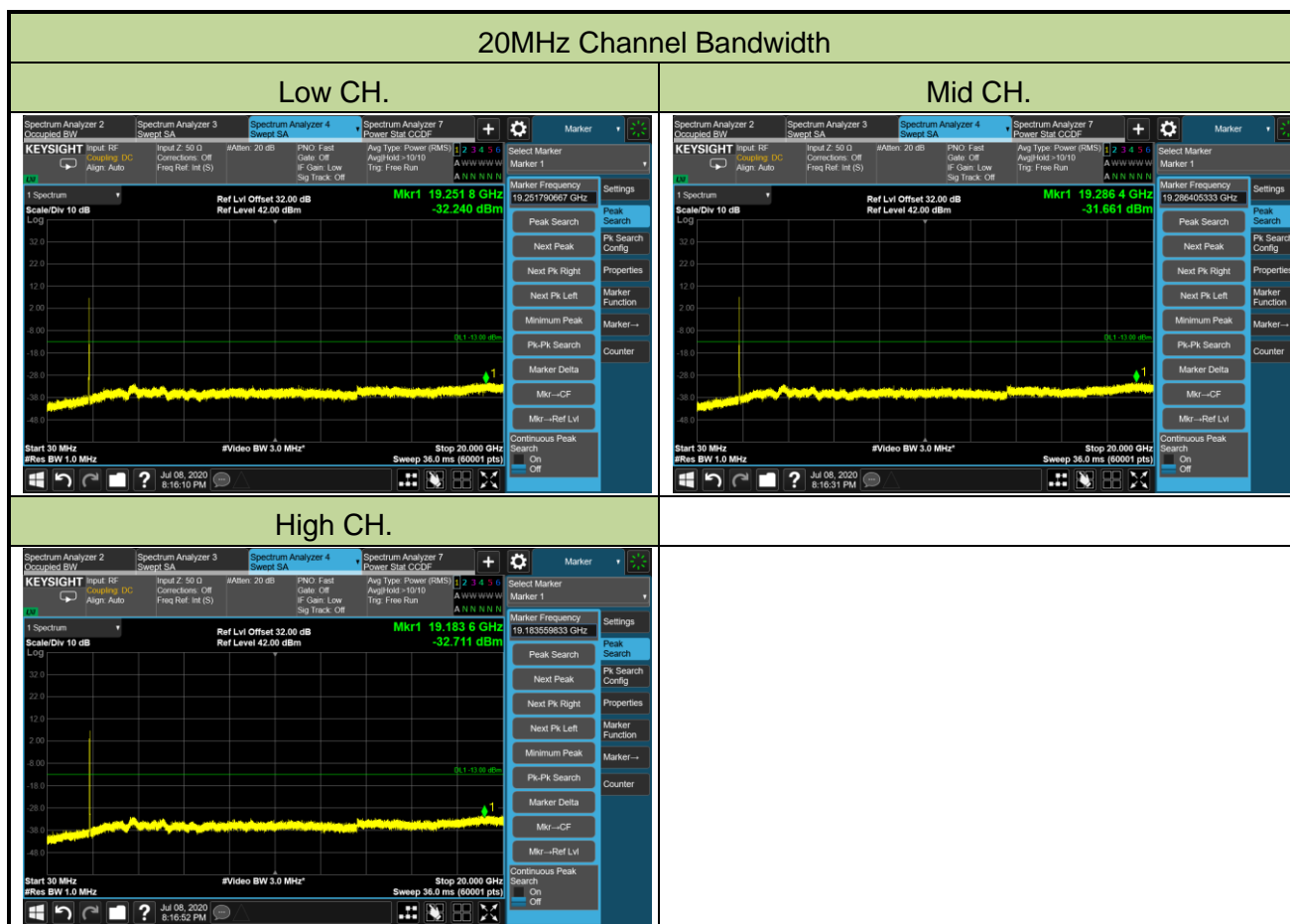




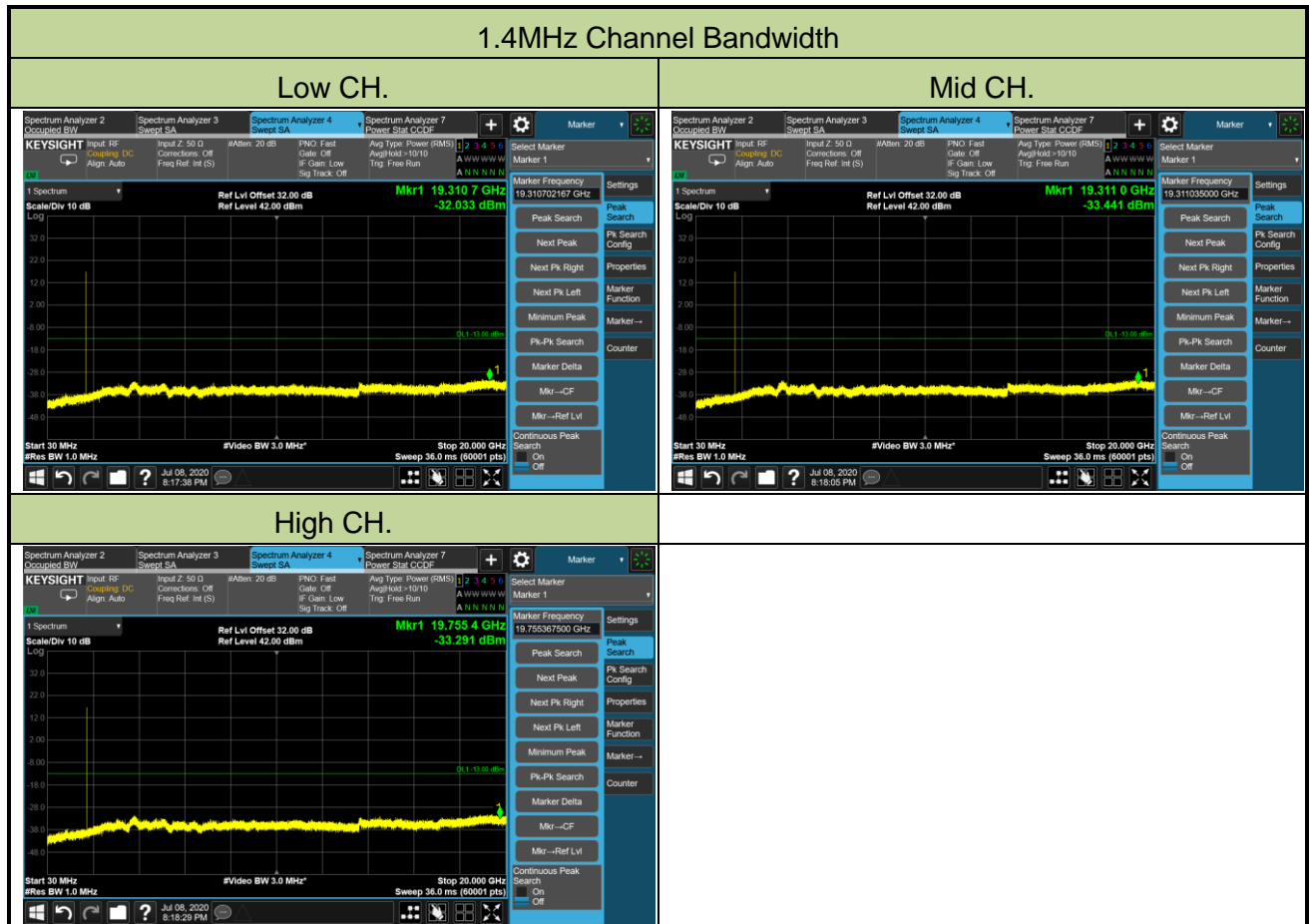






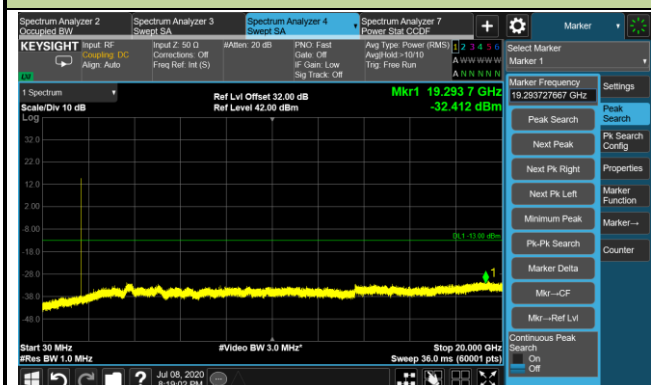


Product	Tablet	Test Site	SR5
Test Engineer	Candy Luo	Test Date	2020/07/8
Test Band	Band 4		
Test Result	Pass		

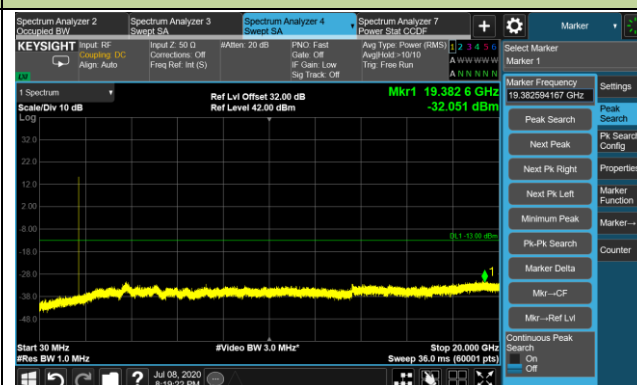


### 3MHz Channel Bandwidth

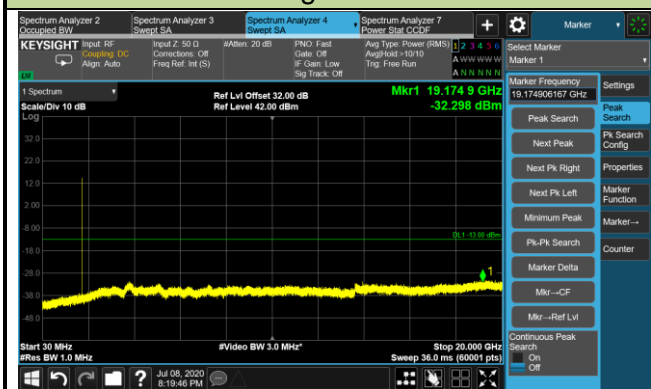
#### Low CH.



#### Mid CH.

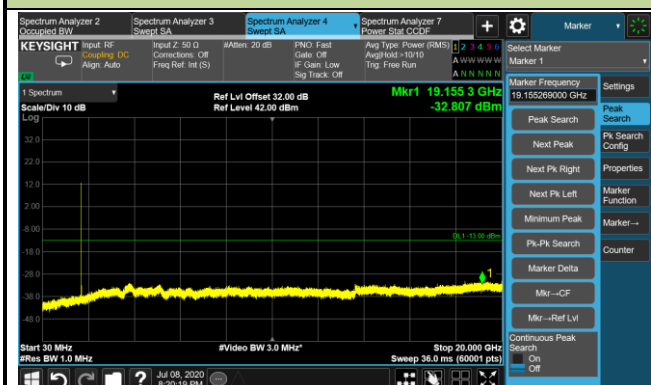


#### High CH.

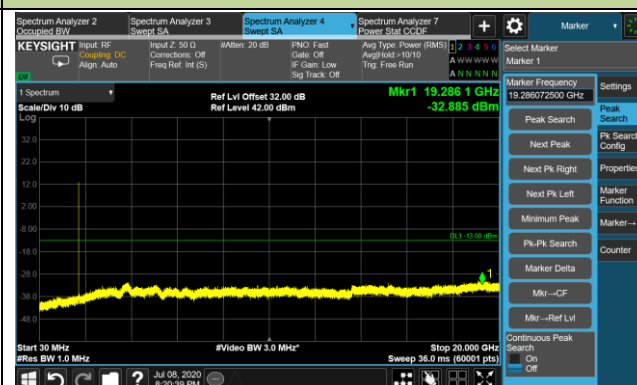


## 5MHz Channel Bandwidth

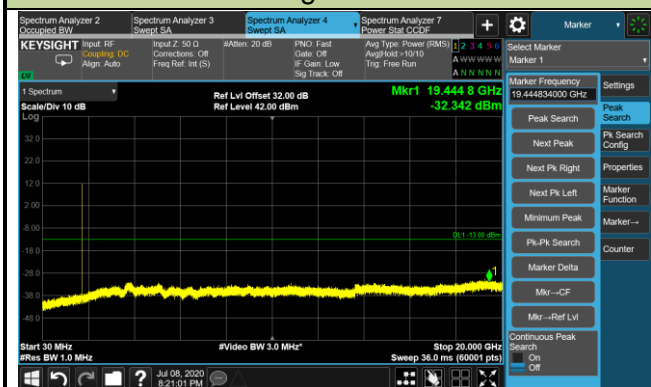
### Low CH.

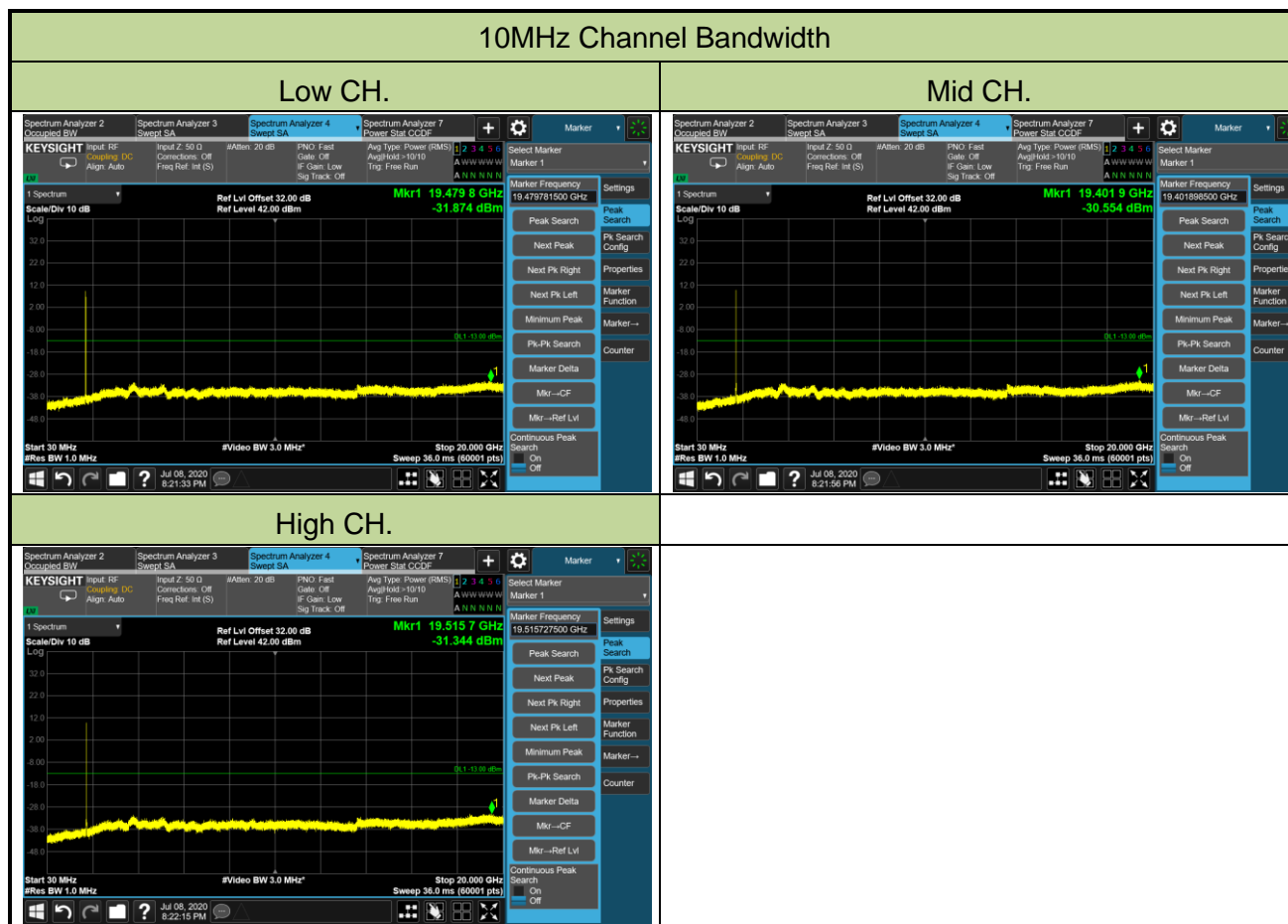


### Mid CH.



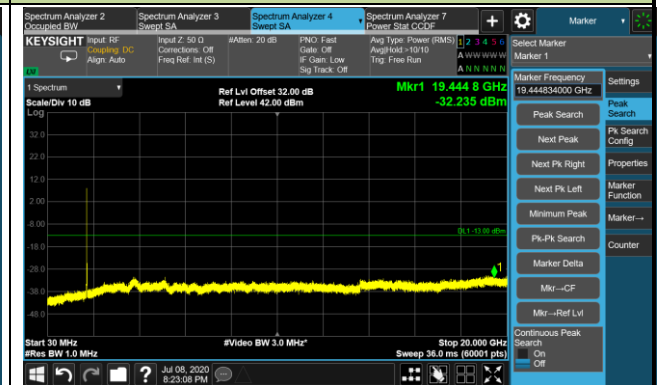
### High CH.







Mid CH.



The screenshot displays the Keysight Spectrum Analyzer software interface. The main window shows a spectrum plot with a yellow trace. A green marker is placed at 19.7933 GHz with a level of -32.449 dBm. The plot has a scale of 10 dB and a bandwidth of 3.0 MHz. The interface includes various control panels for input, settings, and markers.

**Top Panel:** Shows four analyzer tabs: Spectrum Analyzer 2 (Occupied BW), Spectrum Analyzer 3 (Sweep SA), Spectrum Analyzer 4 (Sweep SA), and Spectrum Analyzer 7 (Power Stat CCDF). The 'Marker' button is highlighted in red.

**Left Panel (KEYSIGHT):** Contains input settings (Input RF, Align Auto), input parameters (Input Z: 50  $\Omega$ , Corrections: Off, Freq Ref: 1st), and PNO settings (PNO Fast, Gate: Off, Span: Low, Seg Track: Off).

**Top Right Panel:** Displays 'Avg Type Power (RMS)', 'Averaging: 1010', and 'Top: Free-Run'. It also shows a 'Select Marker' dropdown menu with 'Marker 1' selected.

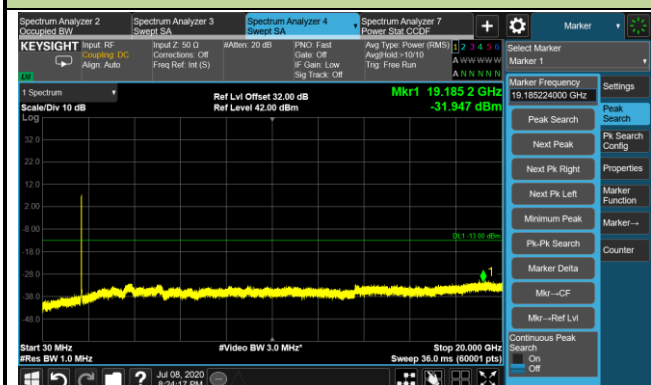
**Right Panel (Marker Frequency):** Shows the marker frequency as 19.793310600 GHz and settings for Peak Search, Next Peak, Next Pk Right, Next Pk Left, Minimum Peak, Pk-Pk Search, Marker Delta, Mkr -Ref Lvl, and Continuous Peak Search (On/Off).

**Main Plot Area:** Displays the spectrum plot with a yellow trace. The x-axis is labeled 'MHz' and the y-axis is labeled 'dBm'. A green marker is placed at 19.7933 GHz with a level of -32.449 dBm. The plot has a scale of 10 dB and a bandwidth of 3.0 MHz.

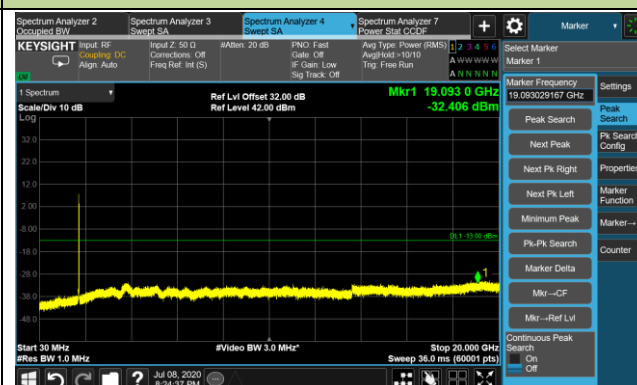
**Bottom Panel:** Shows the start frequency (Start 30 MHz), resolution bandwidth (res BW 1.0 MHz), video bandwidth (#Video BW 3.0 MHz), and stop frequency (Stop 20.000 GHz). It also displays the sweep time (Sweep 24.0 ms) and the date and time (Jul 08, 2020 8:23:27 PM).

## 20MHz Channel Bandwidth

### Low CH.



### Mid CH.



### High CH.



Product	Tablet	Test Site	SR5
Test Engineer	Candy Luo	Test Date	2020/07/08
Test Band	Band 7		
Test Result	Pass		

