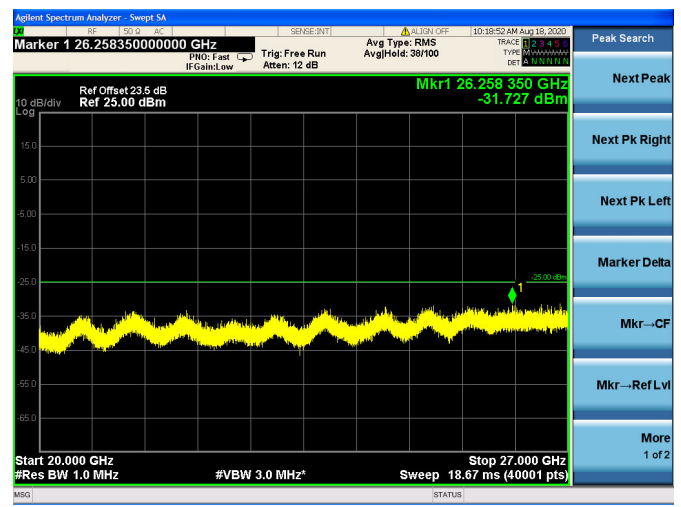
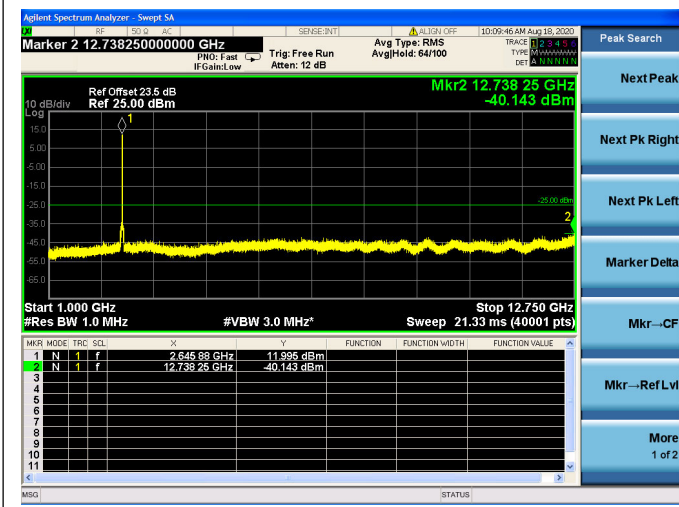
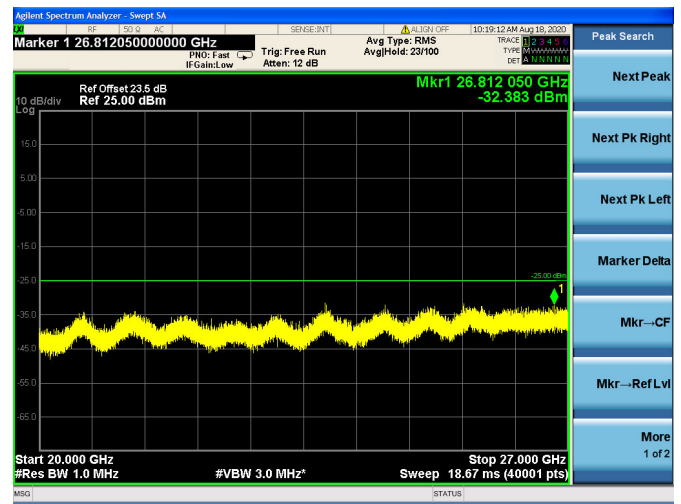
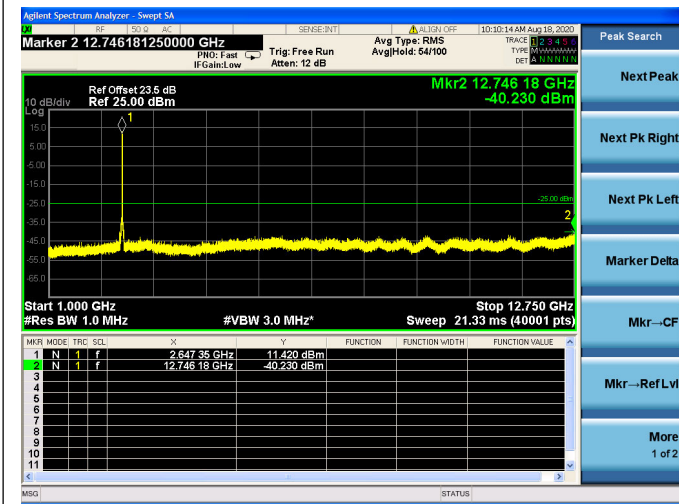




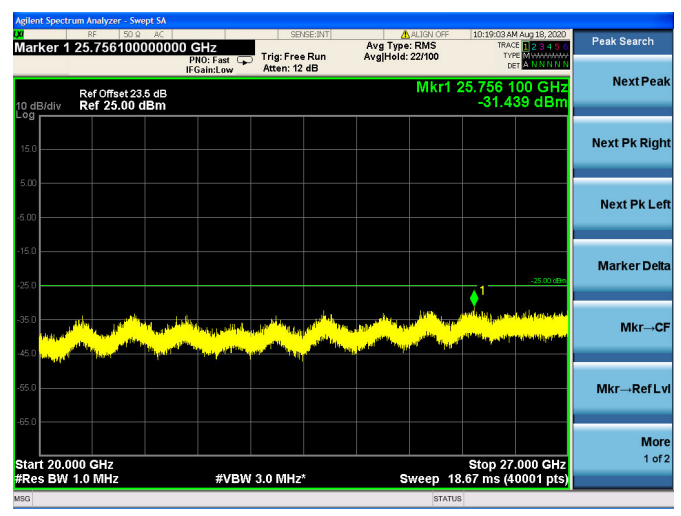
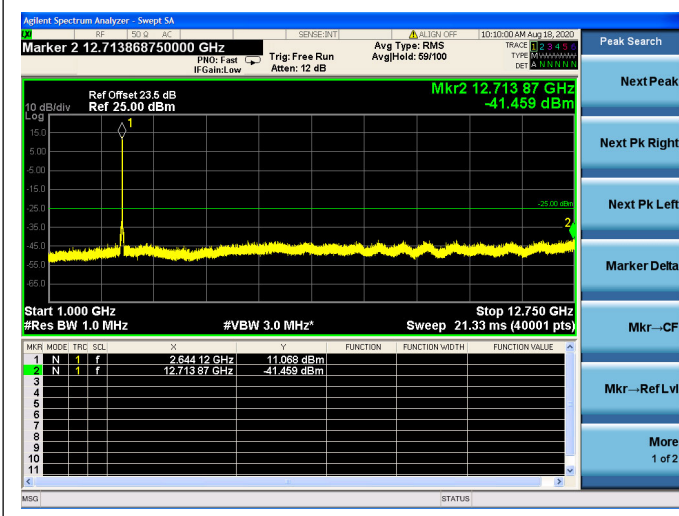
15MHz/QPSK/High CH



15MHz/16QAM/High CH

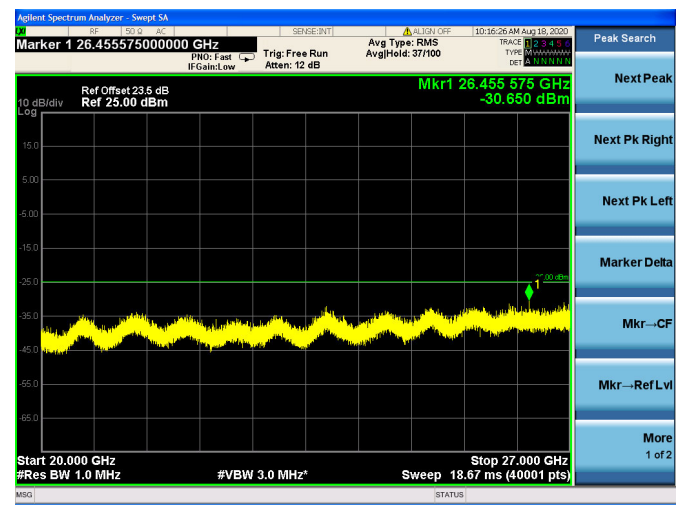
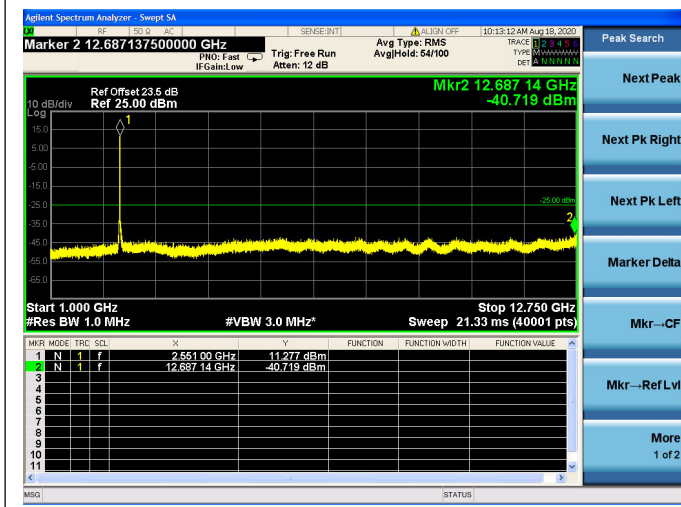


15MHz/64QAM/High CH

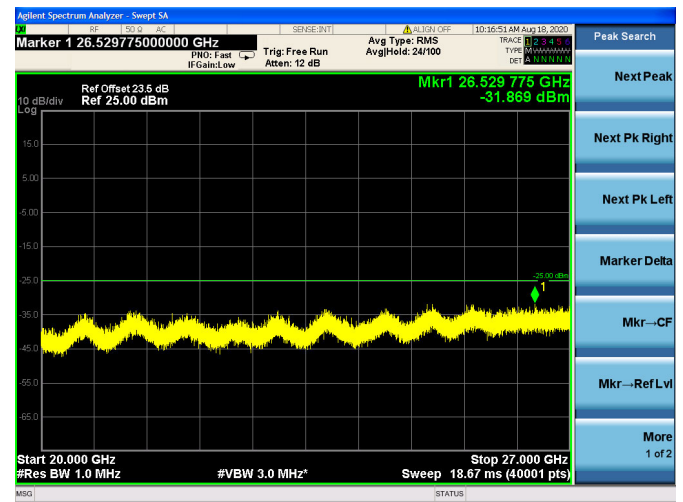
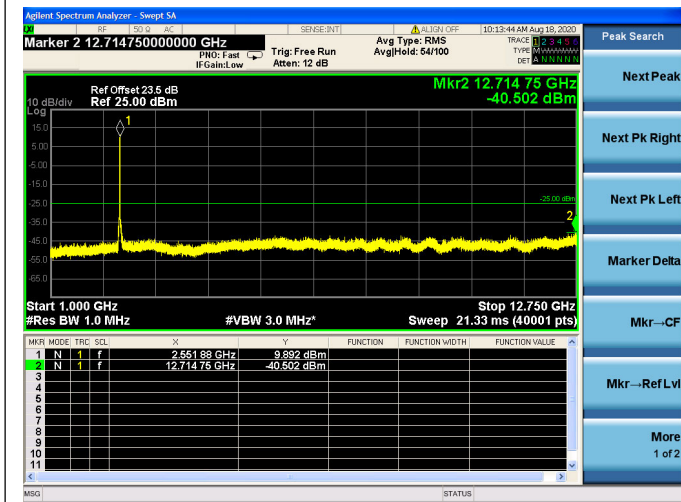




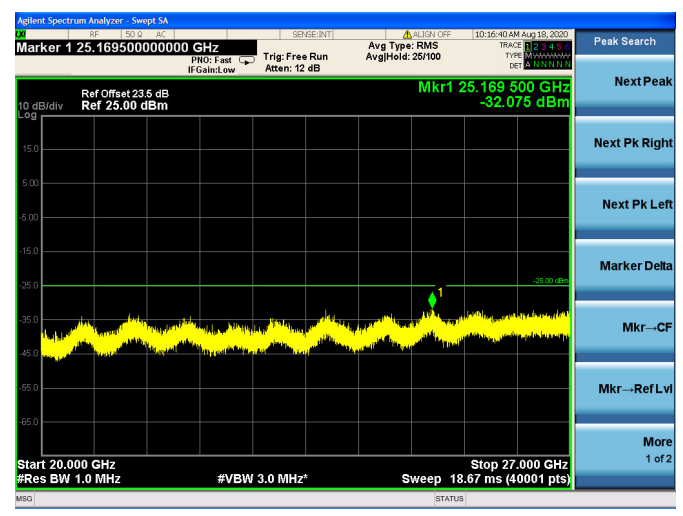
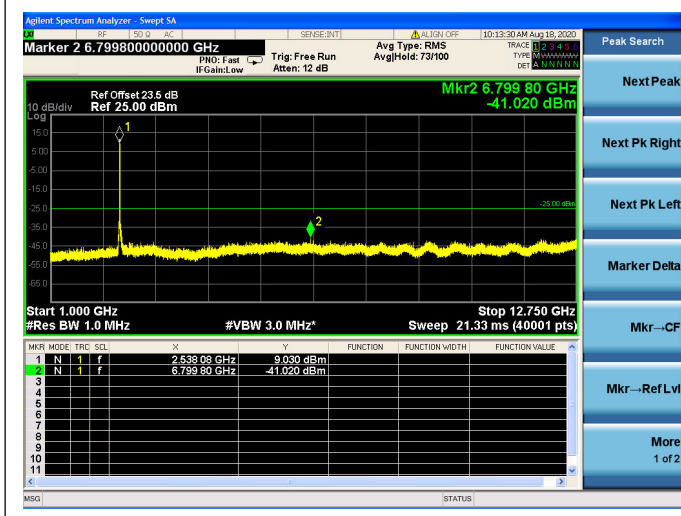
20MHz/QPSK/Low CH



20MHz/16QAM/Low CH

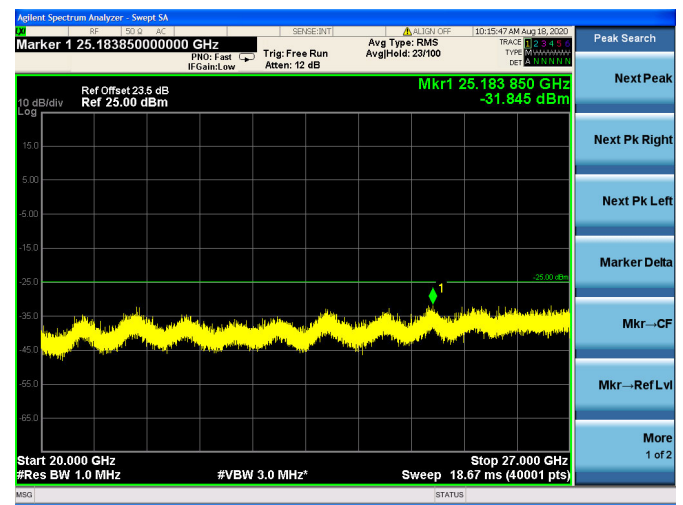
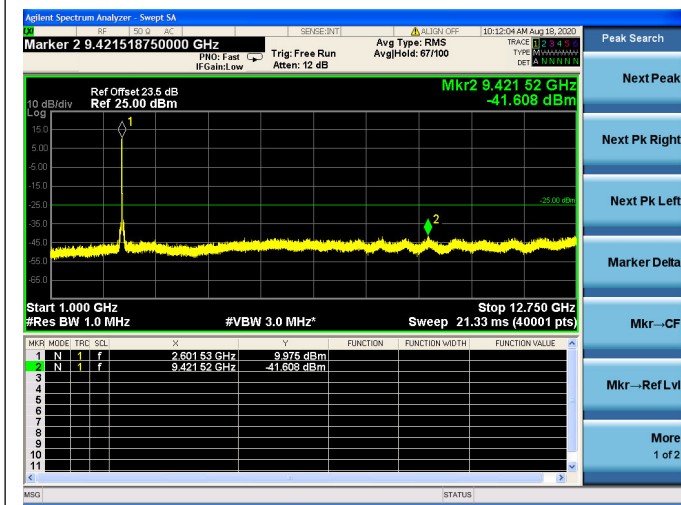


20MHz/64QAM/Low CH

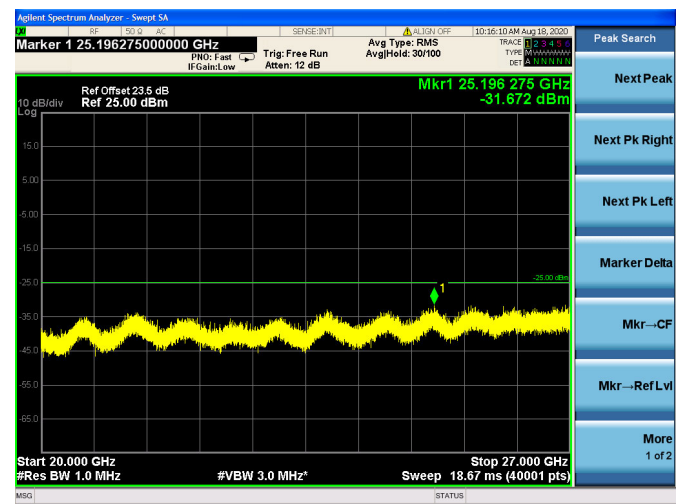
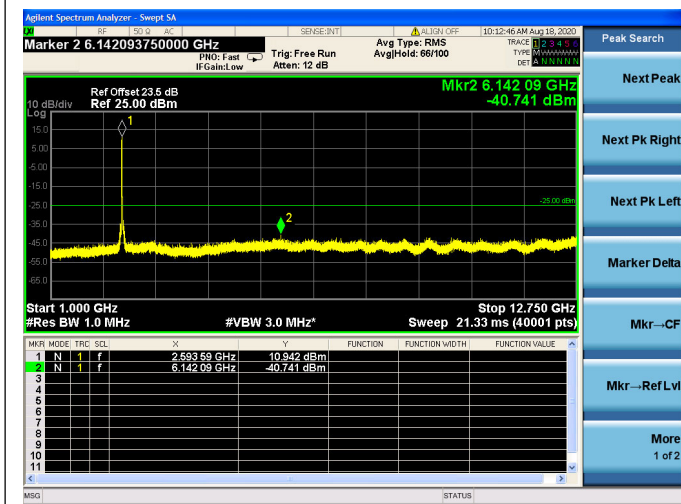




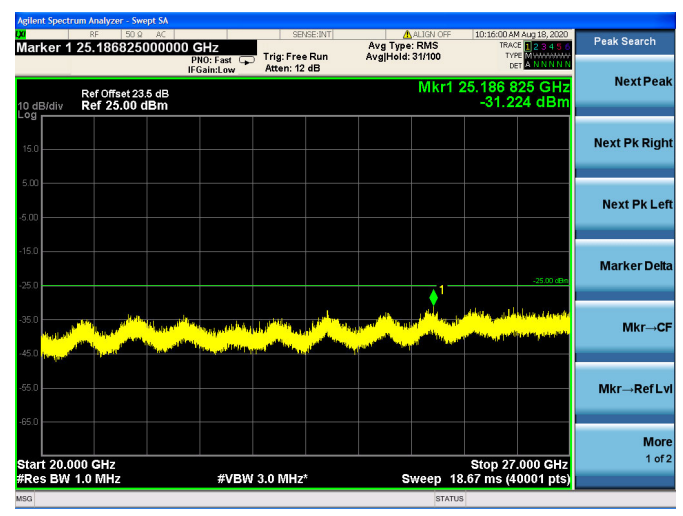
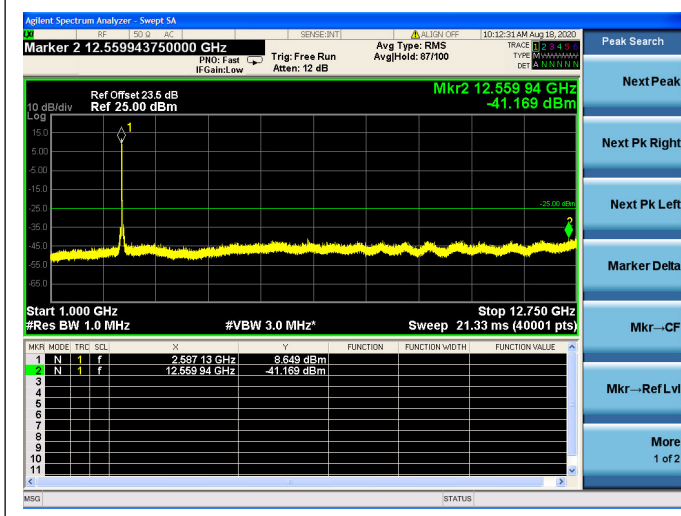
20MHz/QPSK/Mid CH



20MHz/16QAM/Mid CH

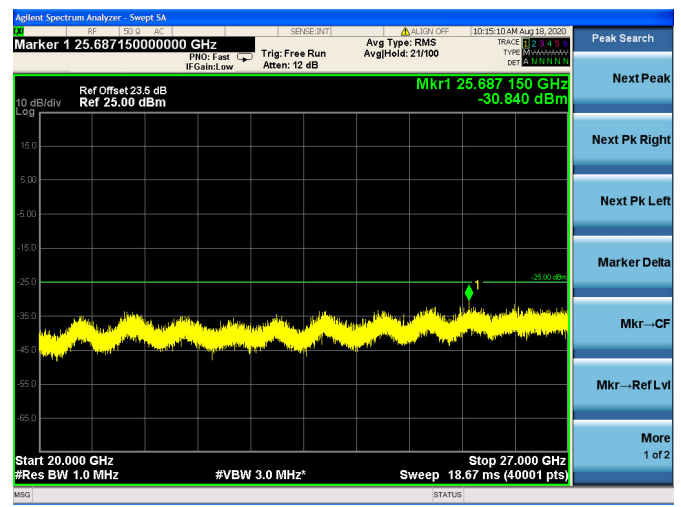
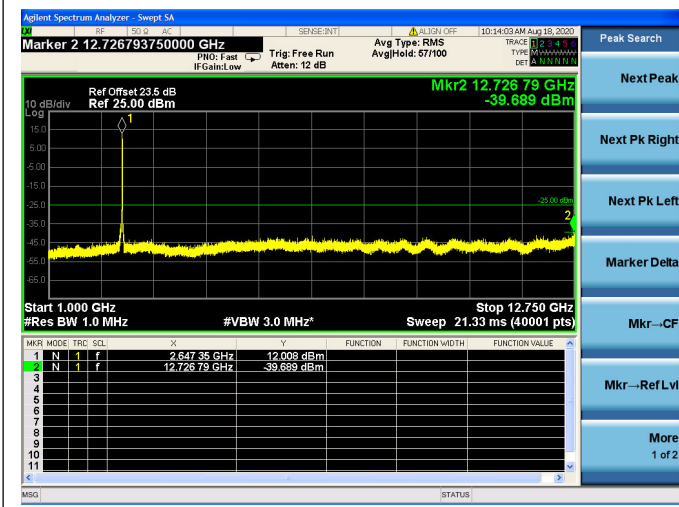


20MHz/64QAM/Mid CH

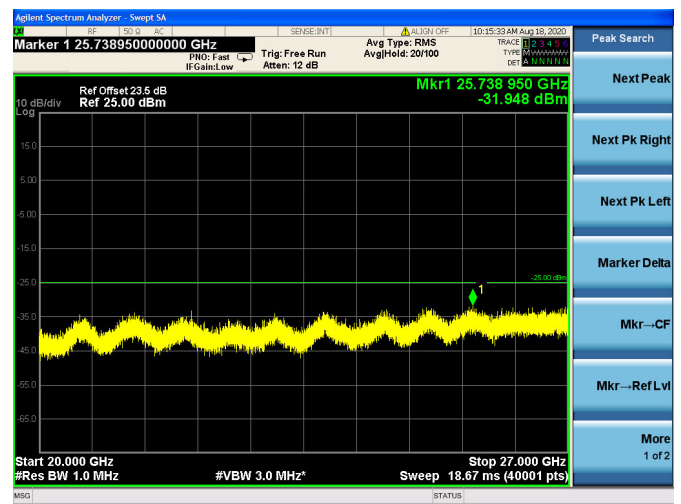
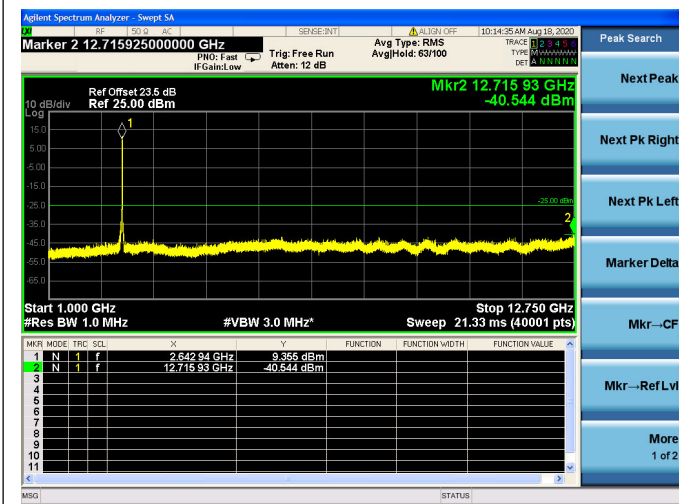




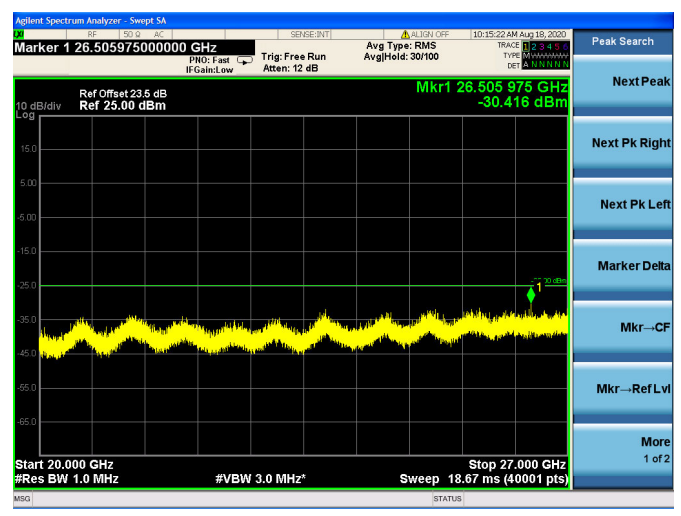
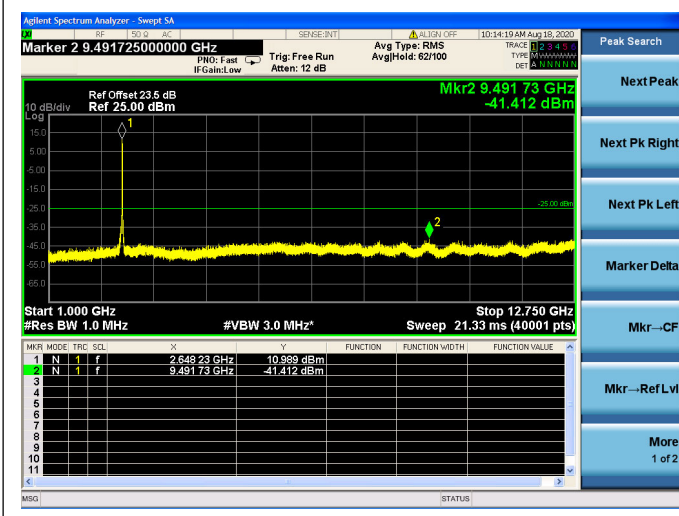
20MHz/QPSK/High CH



20MHz/16QAM/High CH



20MHz/64QAM/High CH



## 2.6. Band Edge

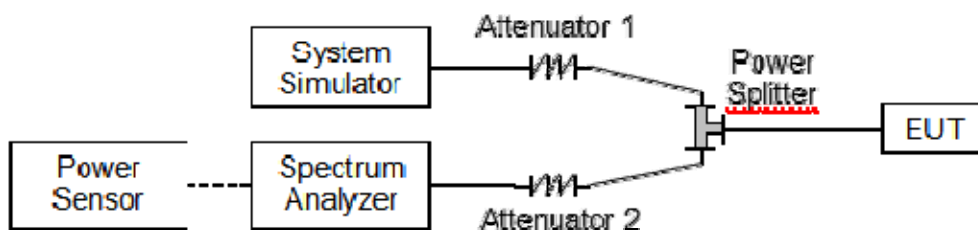
### 2.6.1. Requirement

According to FCC section 22.917(a), 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.

According to FCC section 27.53(g), For operations in the 698–746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least  $43 + 10 \log(P)$  dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

According to FCC section 27.53(m) (4), For mobile digital stations, the attenuation factor shall be not less than  $40 + 10 \log(P)$  dB on all frequencies between the channel edge and 5 megahertz from the channel edge,  $43 + 10 \log(P)$  dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and  $55 + 10 \log(P)$  dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than  $43 + 10 \log(P)$  dB on all frequencies between 2490.5 MHz and 2496 MHz and  $55 + 10 \log(P)$  dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

### 2.6.2. Test Description





The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

### **2.6.3. Test procedure**

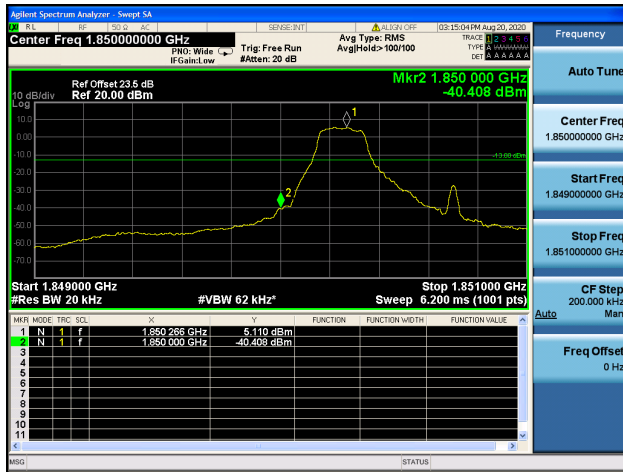
KDB 971168 D01v03 Section 6.0 and ANSI/TIA-603-E-2016.

### **2.6.4. Test Result**

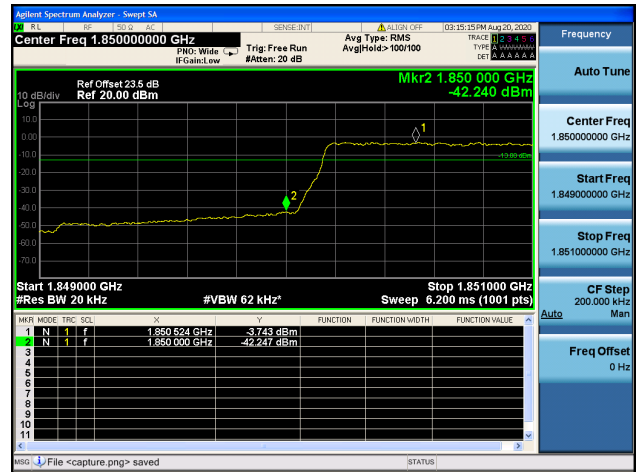
The center frequency of spectrum is the band edge frequency and span is 2MHz, Record the max trace into the test report.



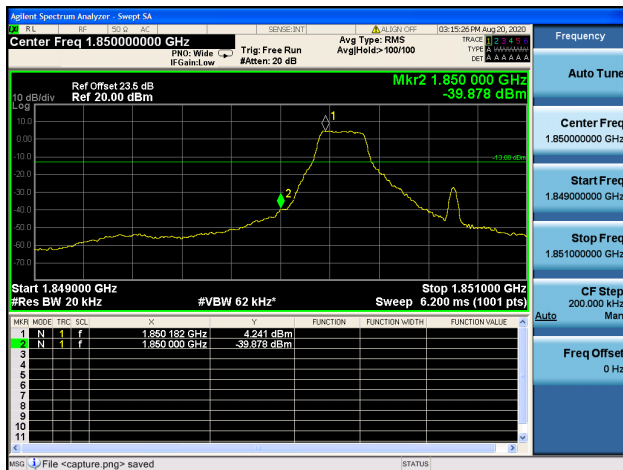
Band2 / 1.4MHz / Low CH / QPSK / 1  
RB



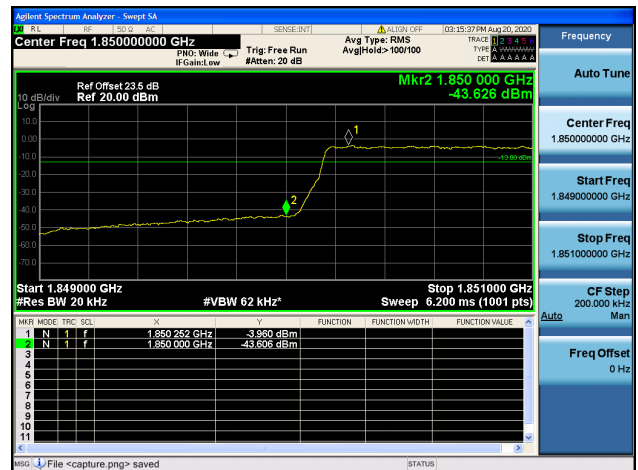
Band2 / 1.4MHz / Low CH / QPSK / FULL  
RB



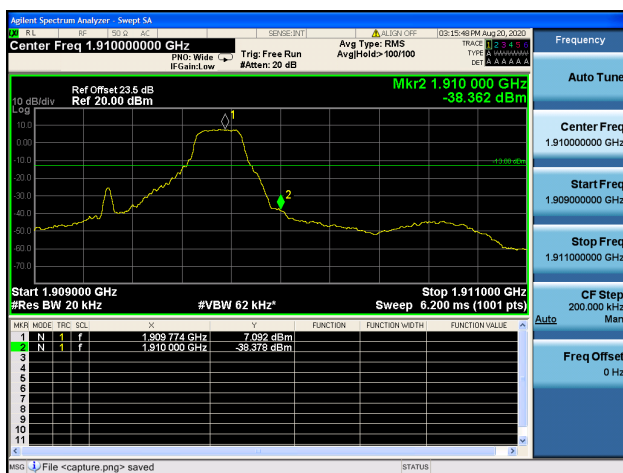
Band2 / 1.4MHz / Low CH / 16QAM / 1  
RB



Band2 / 1.4MHz / Low CH / 16QAM / FULL  
RB



Band2 / 1.4MHz / High CH / QPSK / 1  
RB



Band2 / 1.4MHz / High CH / QPSK / FULL  
RB

