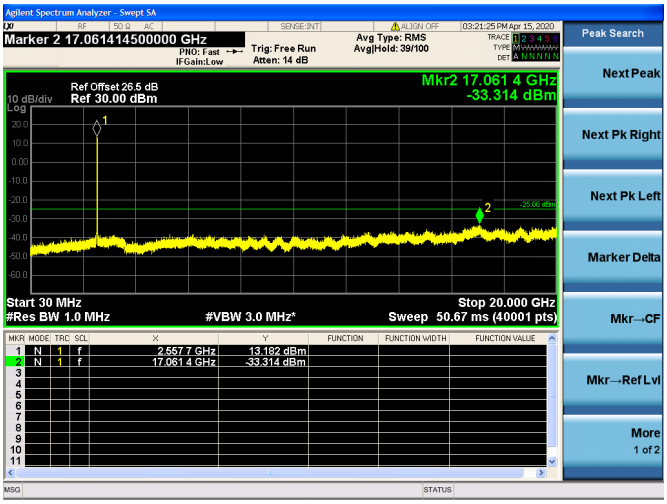
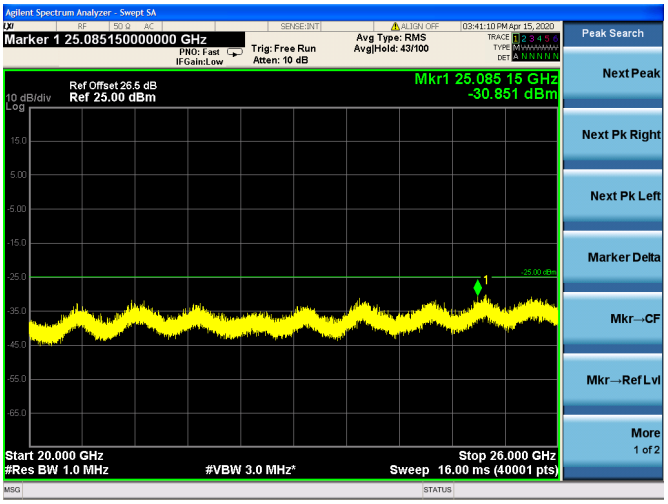
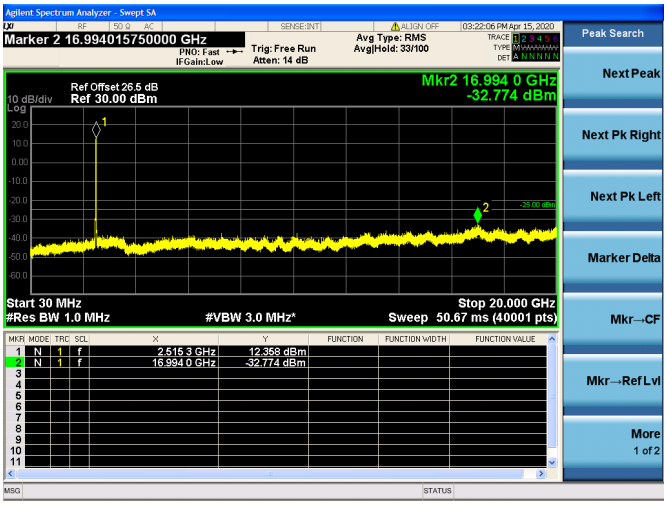
15MHz/64QAM/High CH

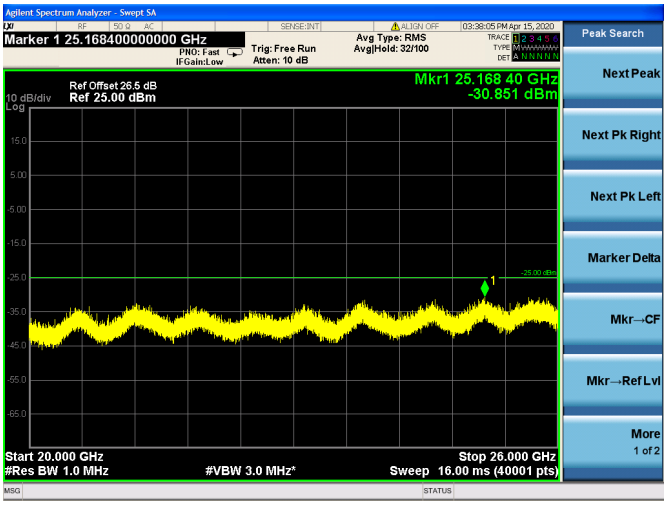




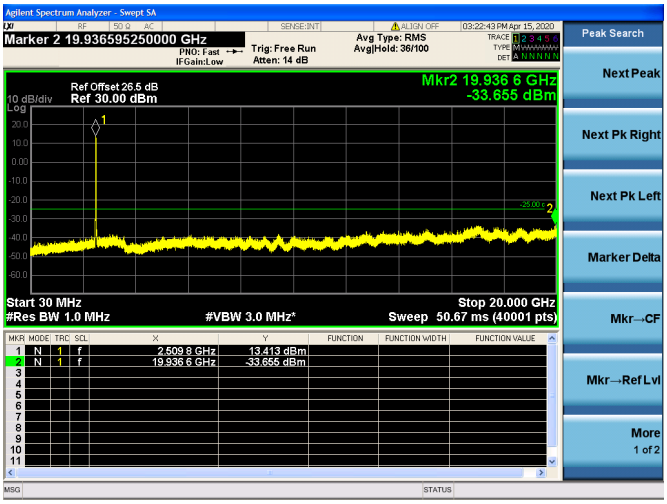
LTE Band 7 CSE

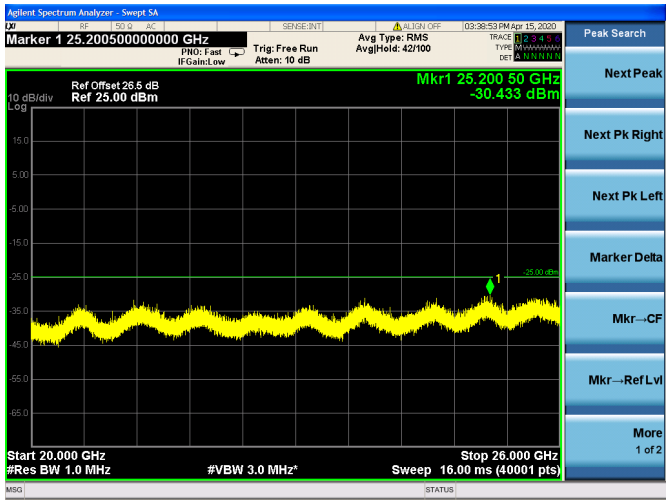
20MHz/QPSK /Low CH



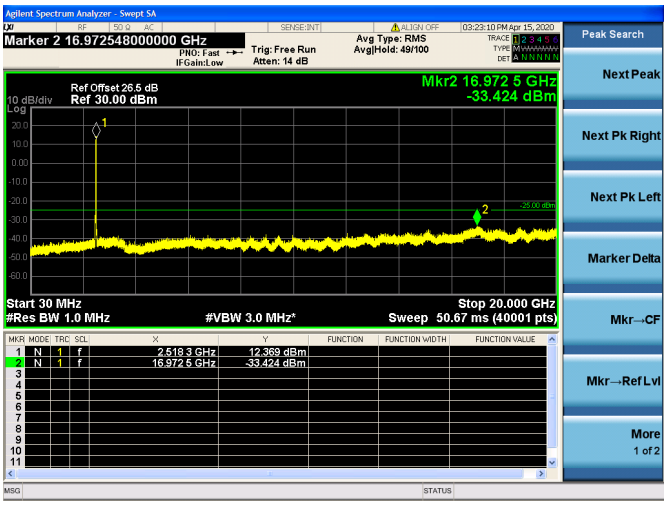


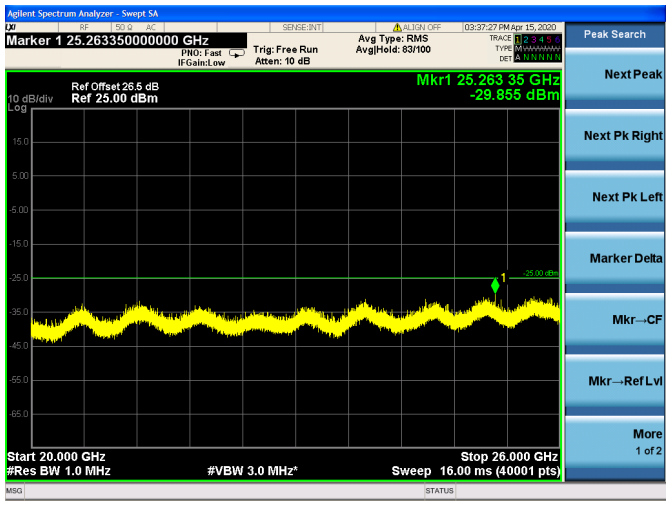
20MHz/16QAM/Low CH





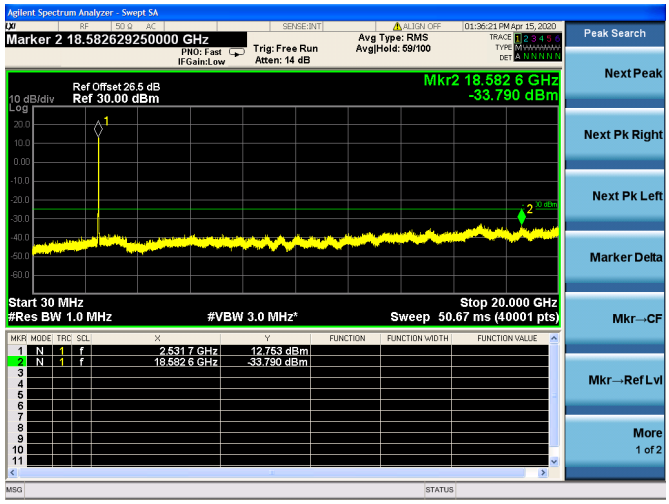
20MHz/64QAM/Low CH

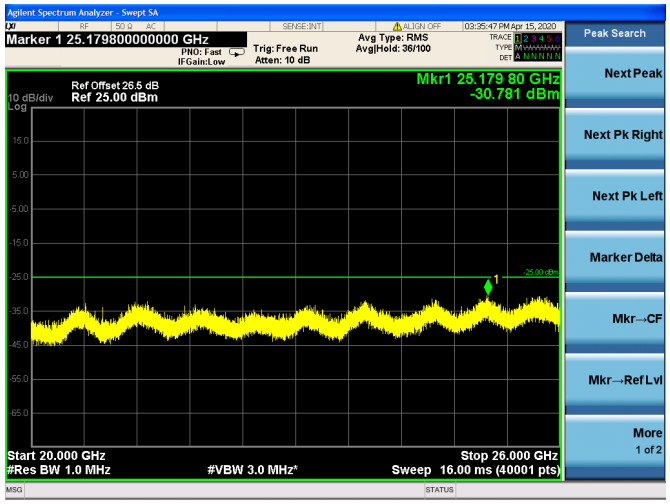




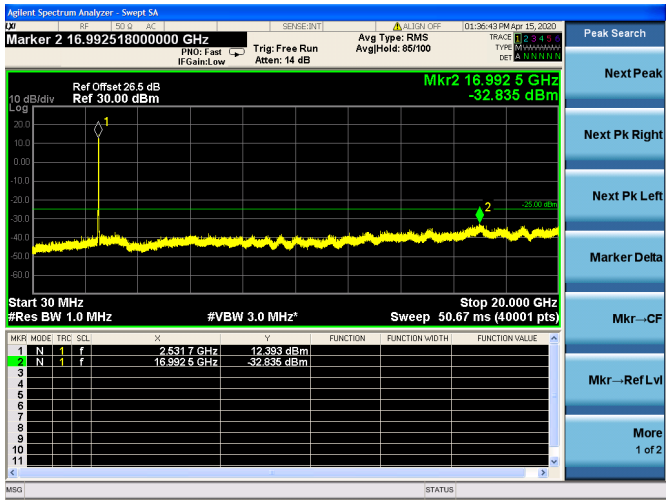
LTE Band 7 CSE

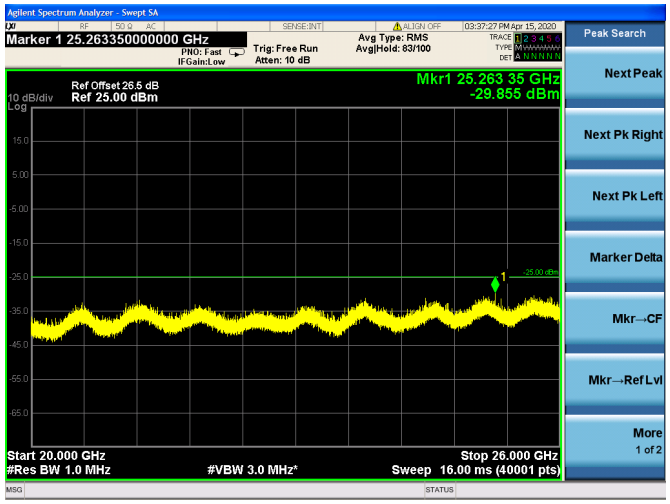
20MHz/QPSK /Mid CH



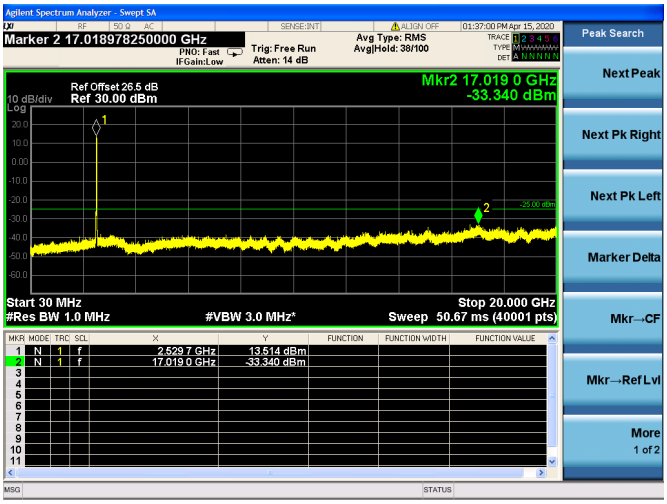


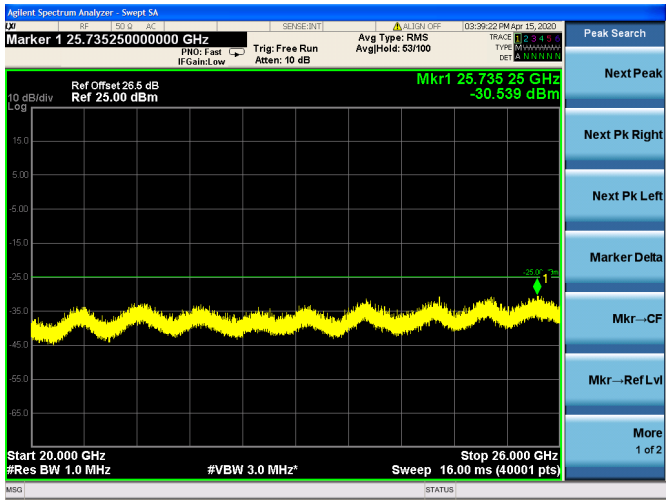
20MHz/16QAM/Mid CH





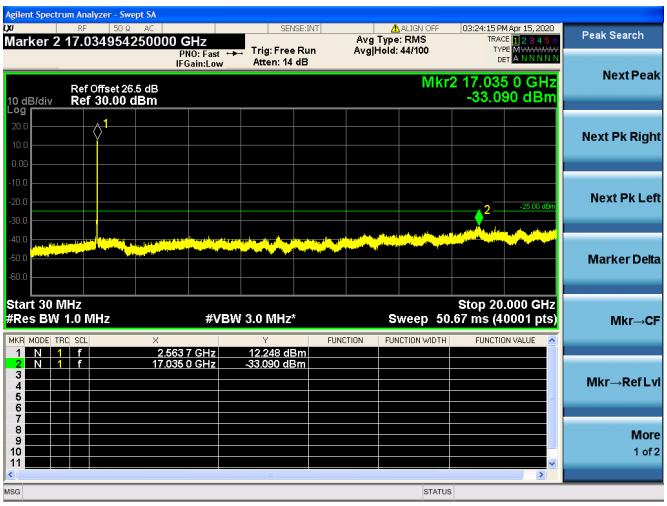
20MHz/64QAM/Mid CH

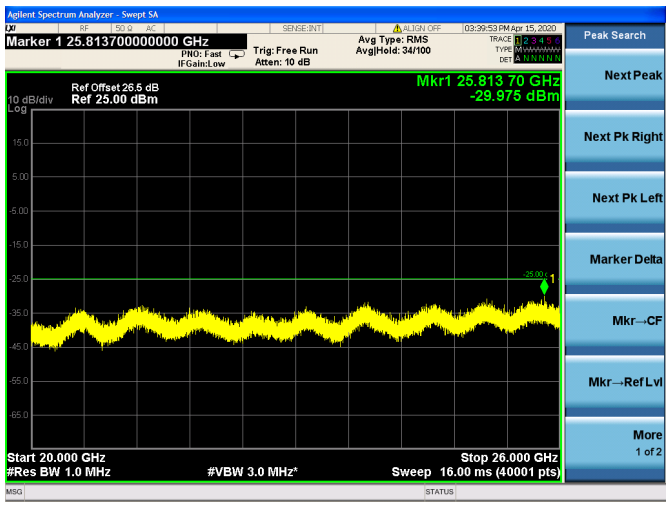




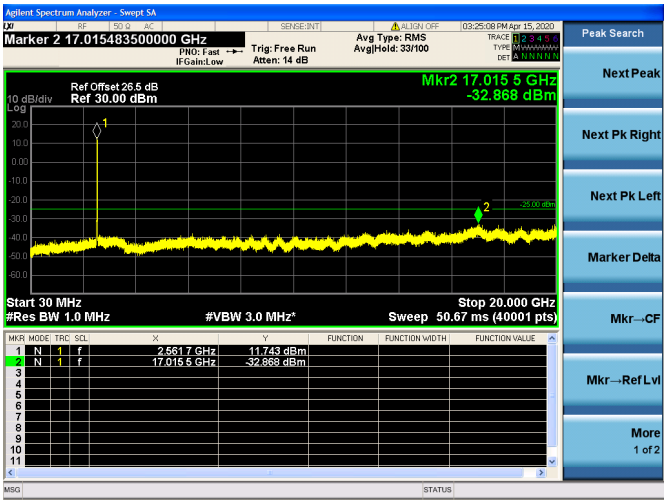
LTE Band 7 CSE

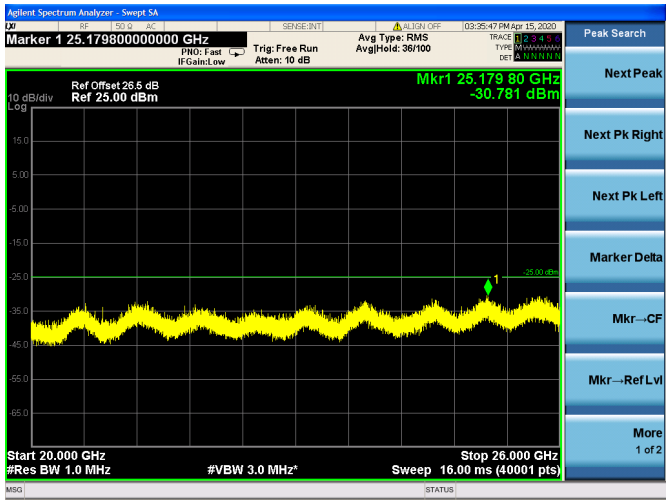
20MHz/QPSK /High CH



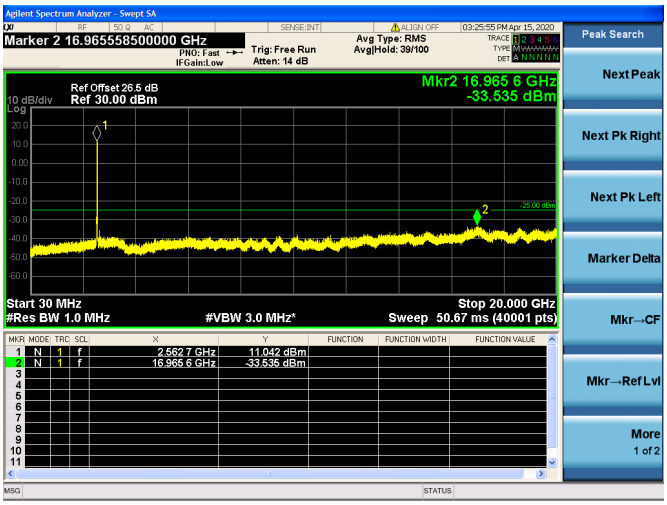


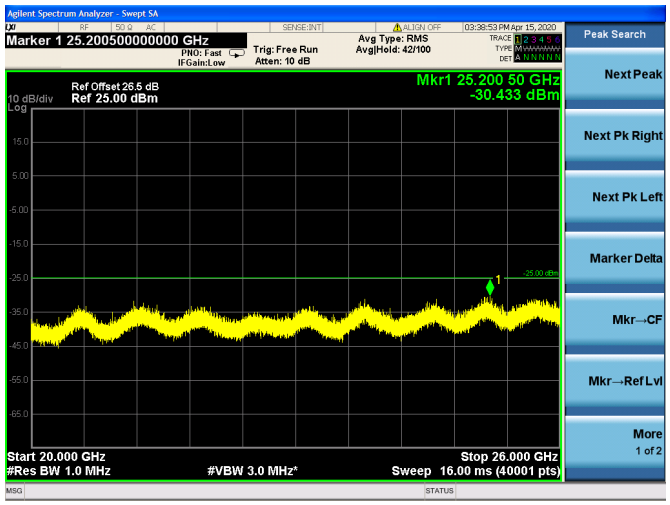
20MHz/16QAM/High CH



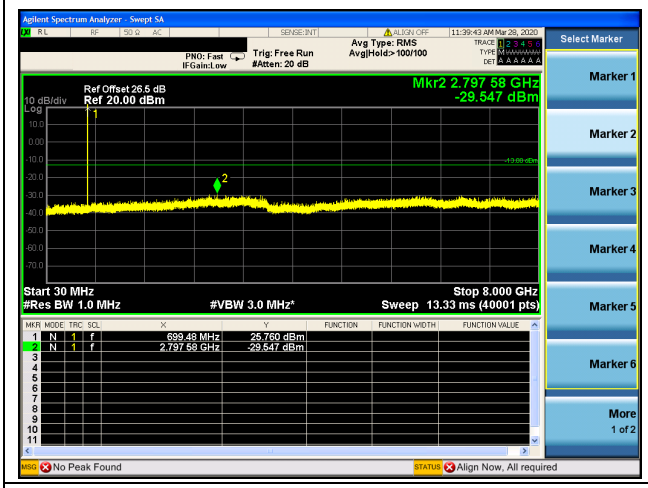


20MHz/64QAM/High CH

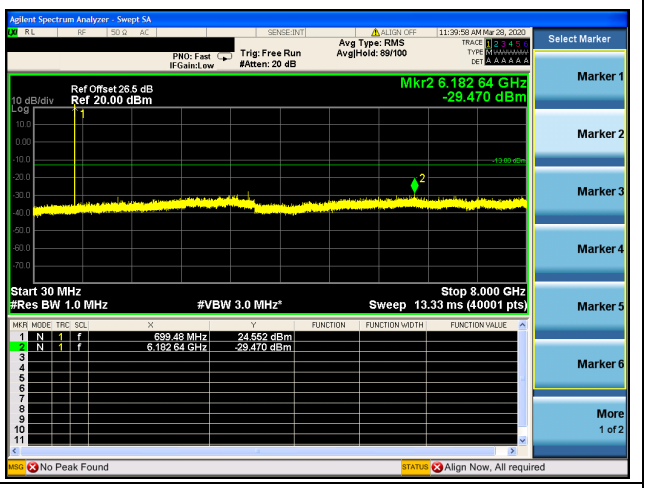




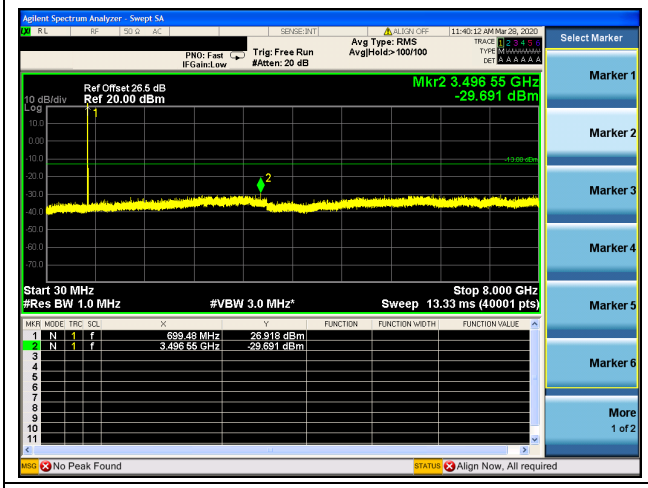
Band12 / 1.4MHz / Low CH / QPSK



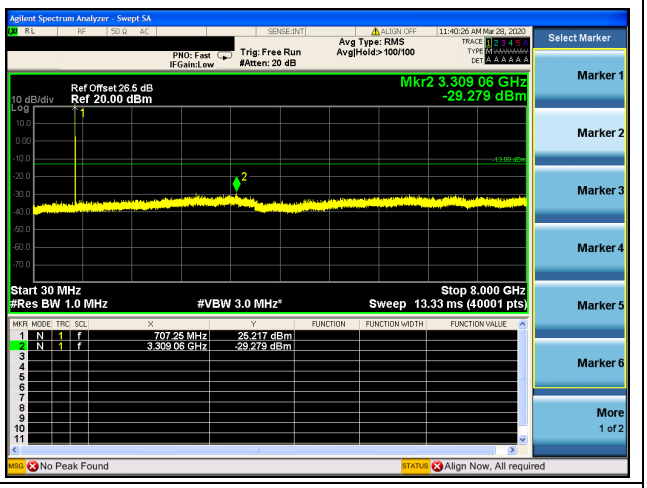
Band12 / 1.4MHz / Low CH / 16QAM



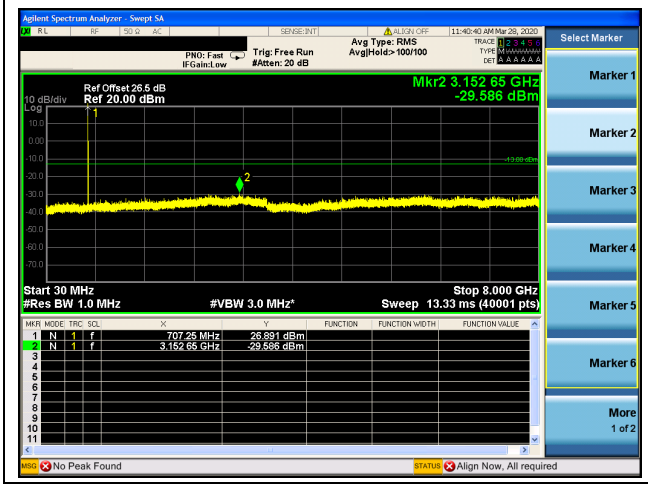
Band12 / 1.4MHz / Low CH / 64QAM



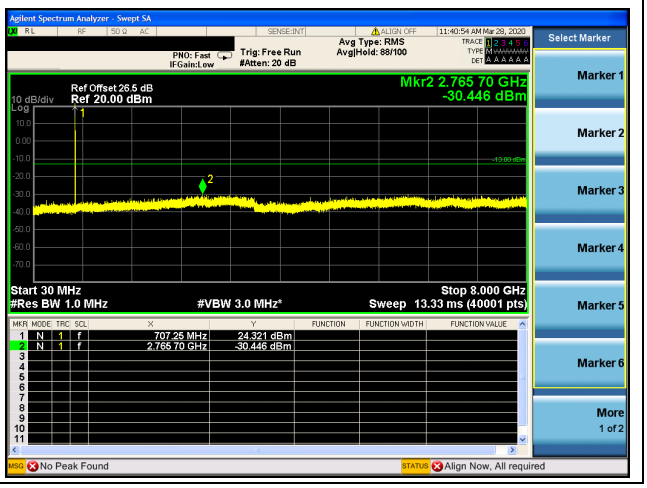
Band12 / 1.4MHz / Mid CH / QPSK



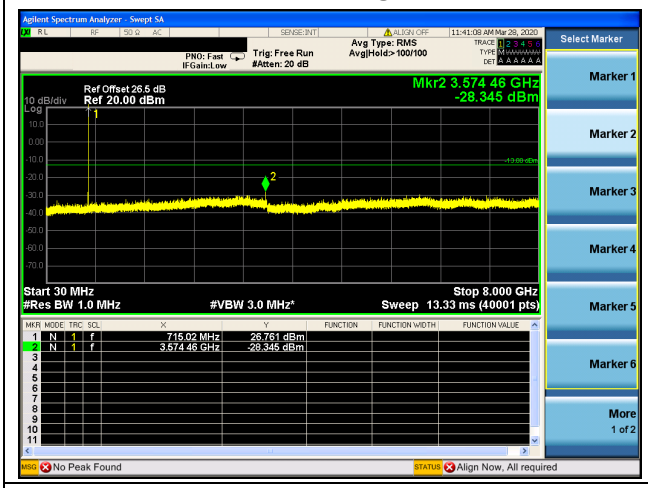
Band12 / 1.4MHz / Mid CH / 16QAM



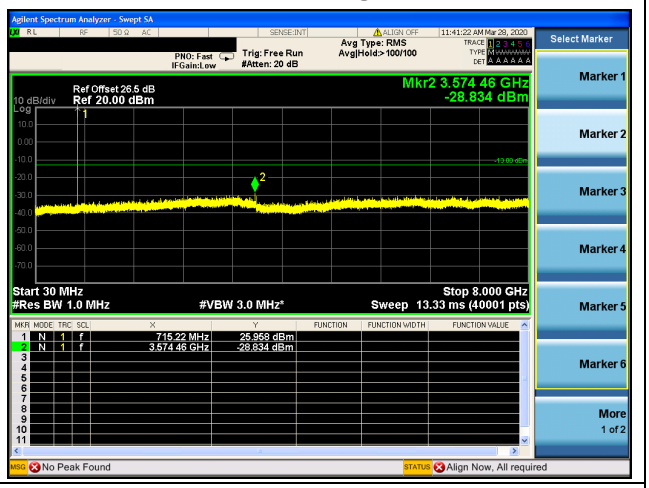
Band12 / 1.4MHz / Mid CH / 64QAM



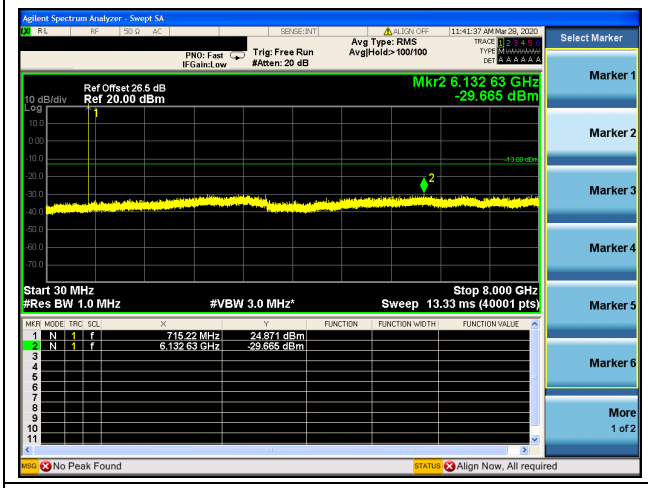
Band12 / 1.4MHz / High CH / QPSK



Band12 / 1.4MHz / High CH / 16QAM

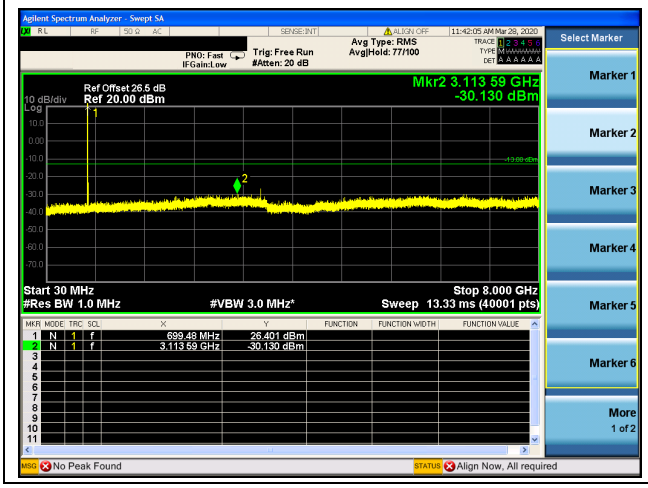


Band12 / 1.4MHz / High CH / 64QAM



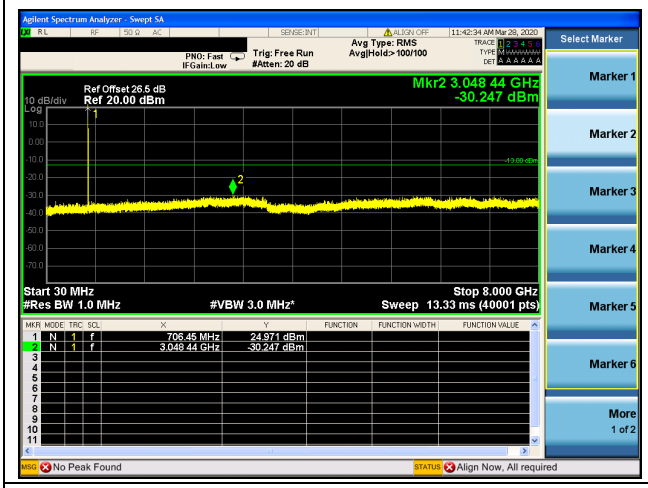
Band12 / 3MHz / Low CH / QPSK

Band12 / 3MHz / Low CH / 16QAM



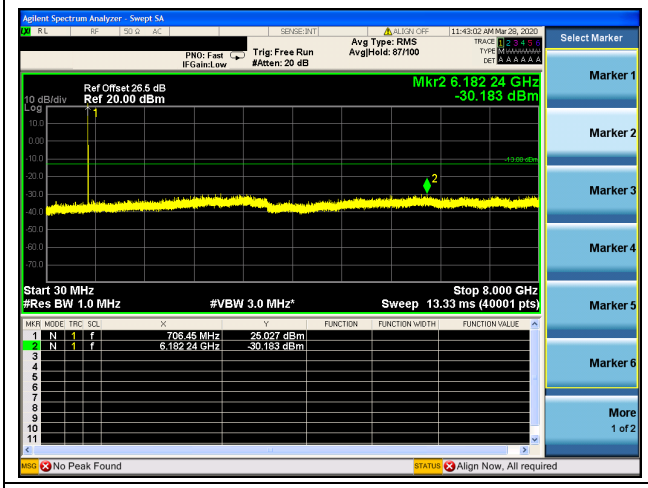
Band12 / 3MHz / Low CH / 64QAM

Band12 / 3MHz / Mid CH / QPSK



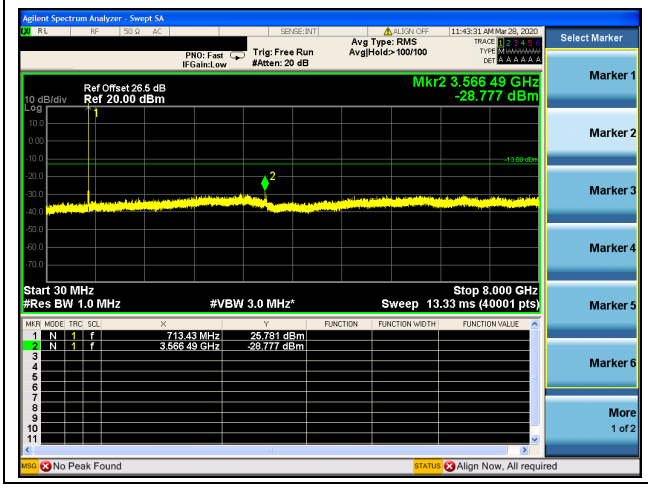
Band12 / 3MHz / Mid CH / 16QAM

Band12 / 3MHz / Mid CH / 64QAM



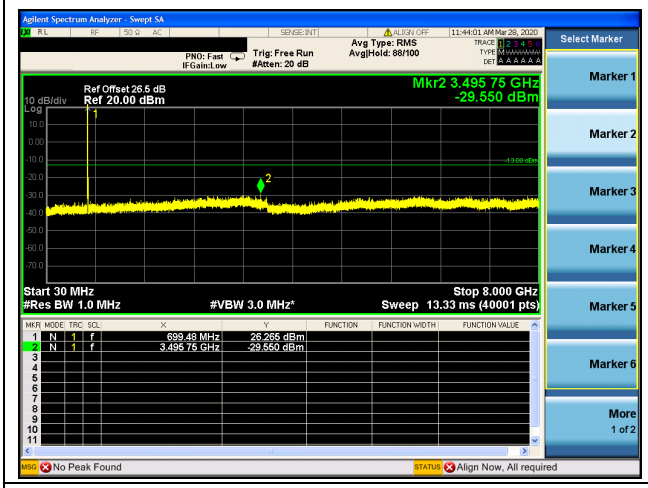
Band12 / 3MHz / High CH / QPSK

Band12 / 3MHz / High CH / 16QAM



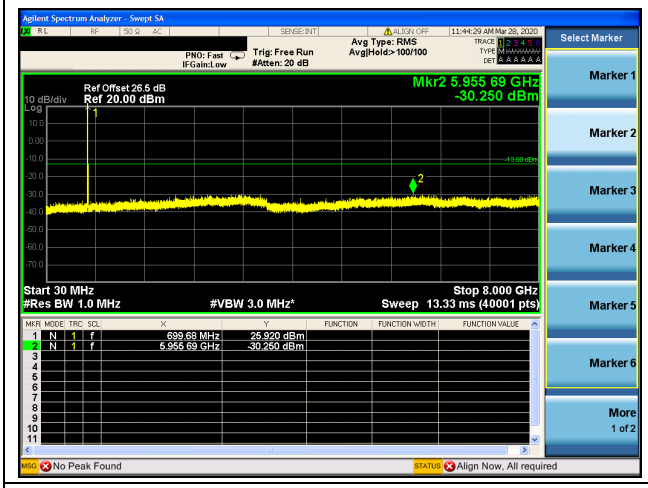
Band12 / 3MHz / High CH / 64QAM

Band12 / 5MHz / Low CH / QPSK



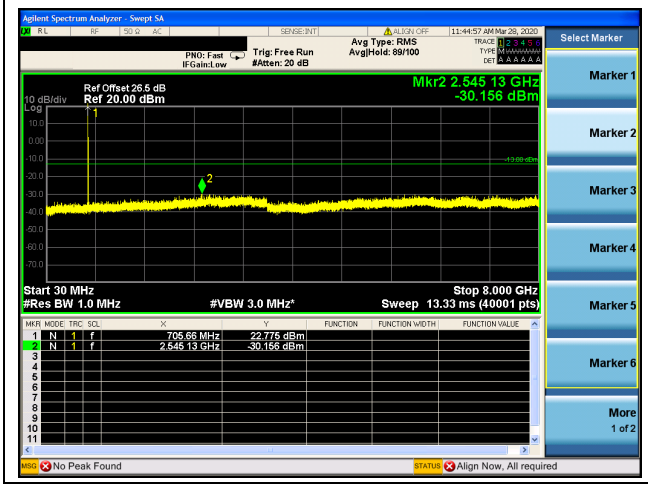
Band12 / 5MHz / Low CH / 16QAM

Band12 / 5MHz / Low CH / 64QAM



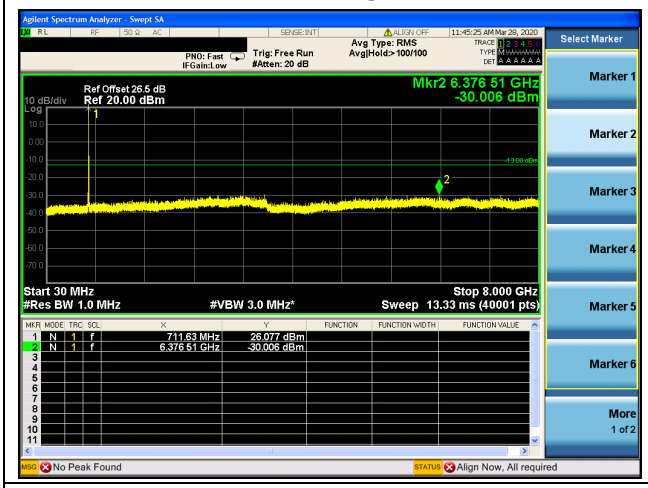
Band12 / 5MHz / Mid CH / QPSK

Band12 / 5MHz / Mid CH / 16QAM

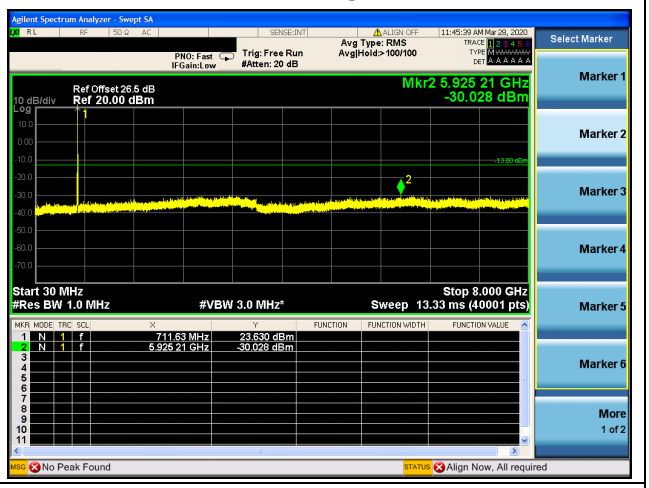


Band12 / 5MHz / Mid CH / 64QAM

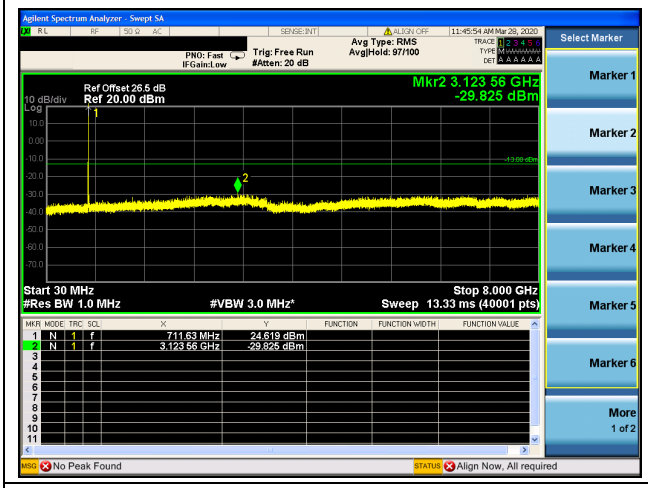
Band12 / 5MHz / High CH / QPSK



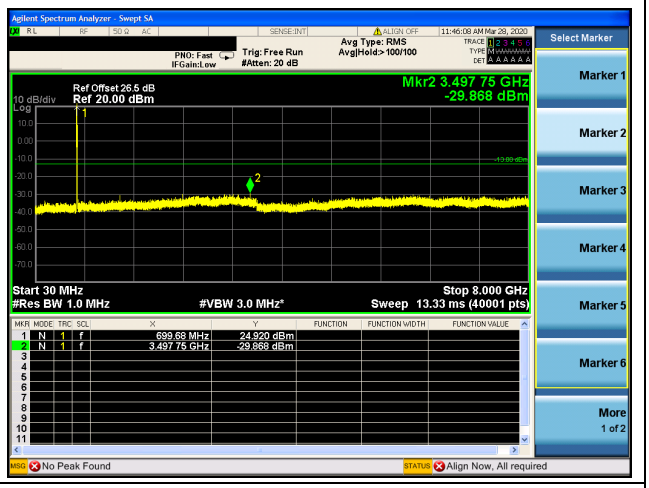
Band12 / 5MHz / High CH / 16QAM



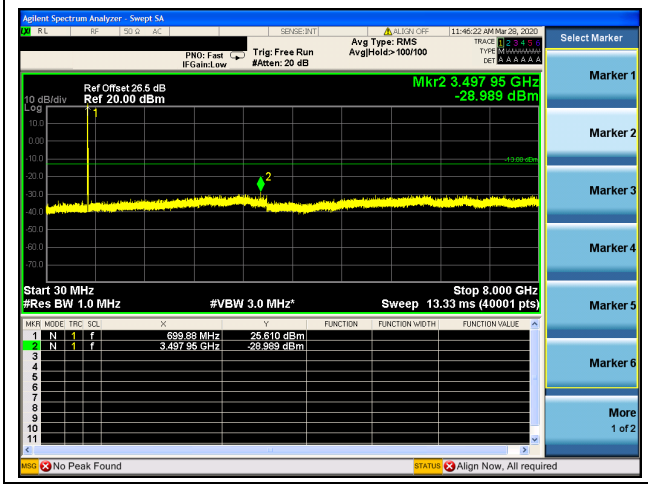
Band12 / 5MHz / High CH / 64QAM



Band12 / 10MHz / Low CH / QPSK

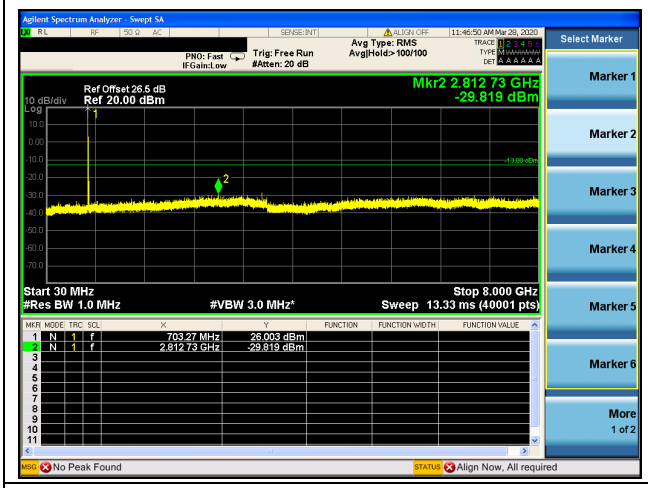


Band12 / 10MHz / Low CH / 16QAM

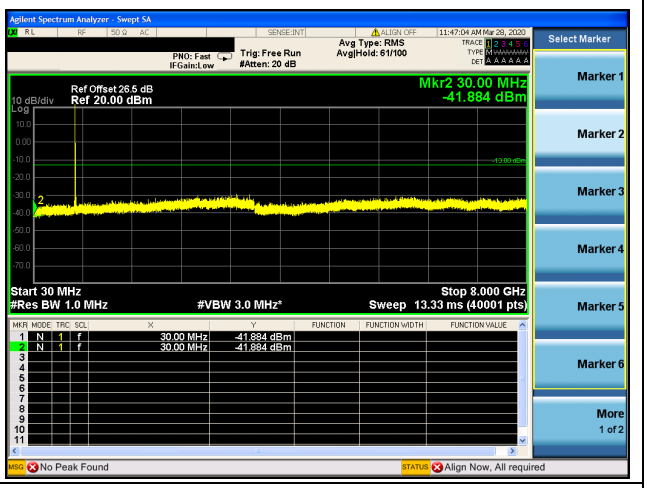


Band12 / 10MHz / Low CH / 64QAM

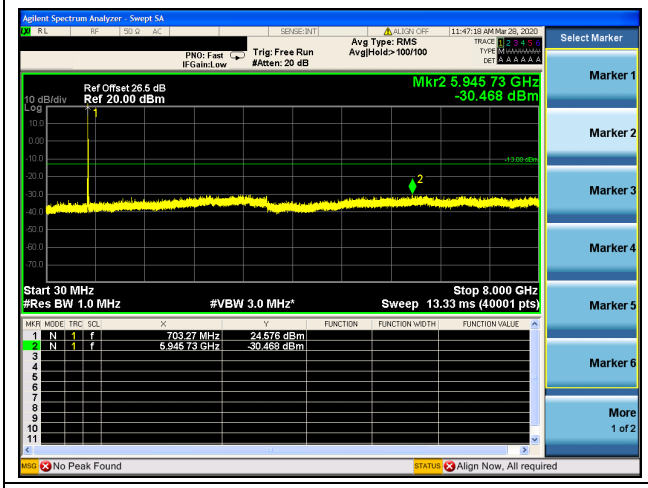
Band12 / 10MHz / Mid CH / QPSK



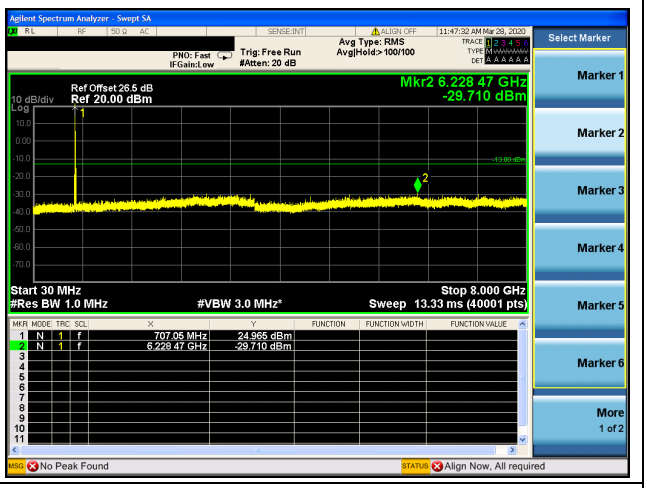
Band12 / 10MHz / Mid CH / 16QAM



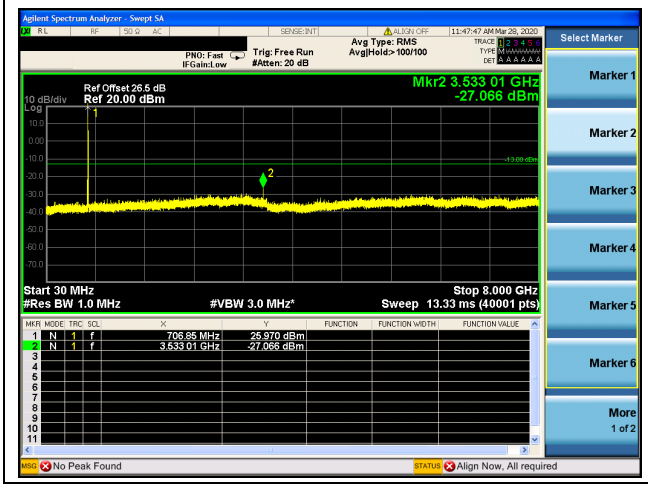
Band12 / 10MHz / Mid CH / 64QAM



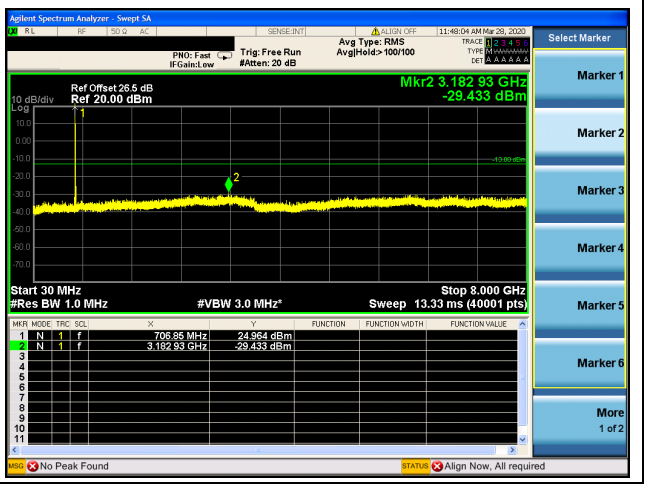
Band12 / 10MHz / High CH / QPSK



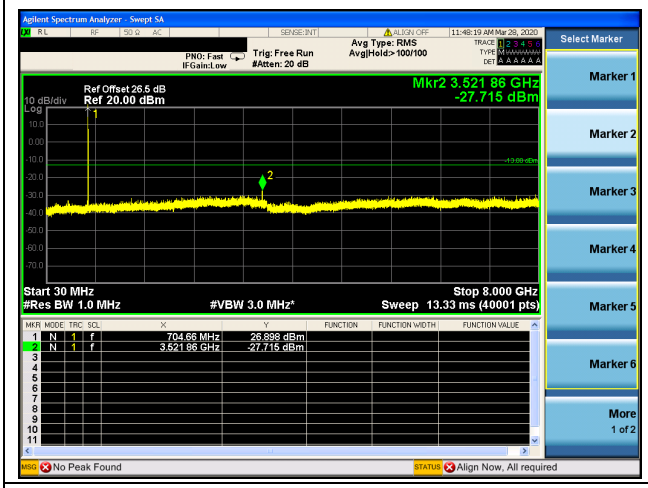
Band12 / 10MHz / High CH / 16QAM



Band12 / 10MHz / High CH / 64QAM

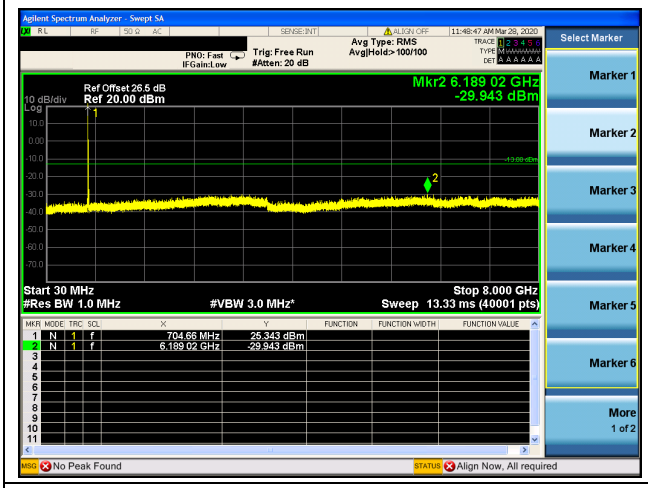


Band17 / 5MHz / Low CH / QPSK



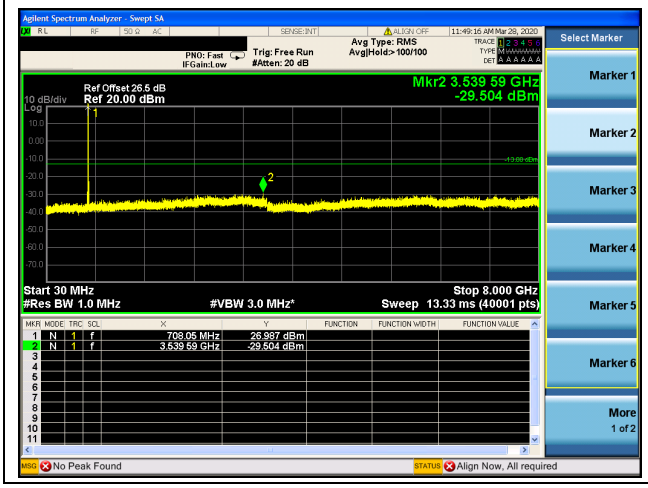
Band17 / 5MHz / Low CH / 16QAM

Band17 / 5MHz / Low CH / 64QAM

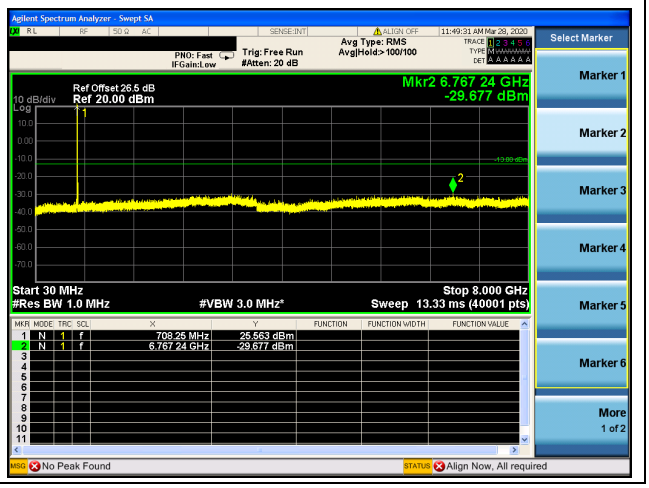


Band17 / 5MHz / Mid CH / QPSK

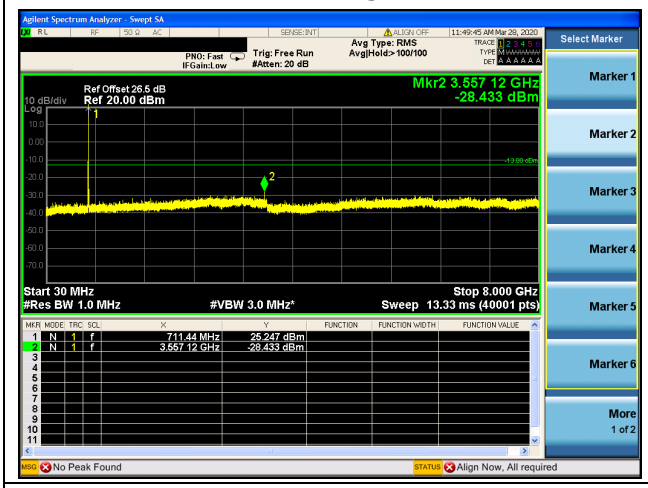
Band17 / 5MHz / Mid CH / 16QAM



Band17 / 5MHz / Mid CH / 64QAM

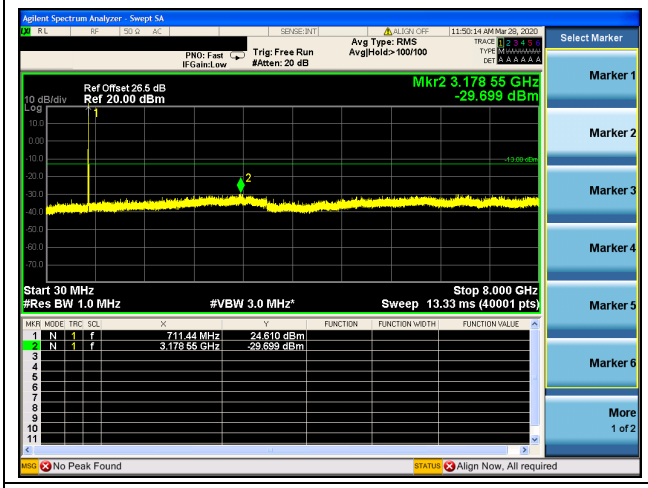


Band17 / 5MHz / High CH / QPSK



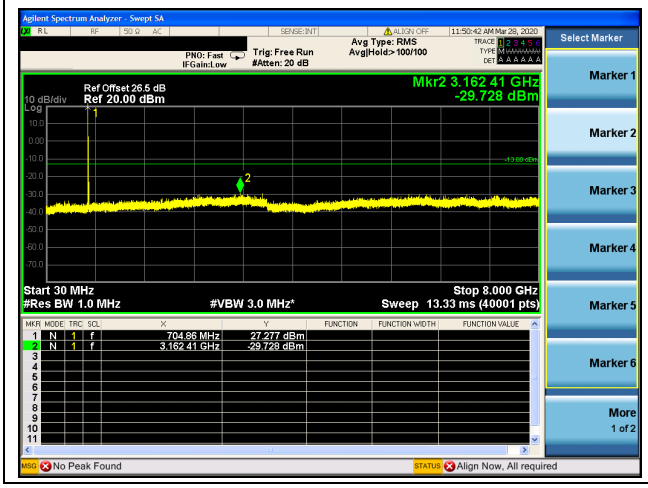
Band17 / 5MHz / High CH / 16QAM

Band17 / 5MHz / High CH / 64QAM



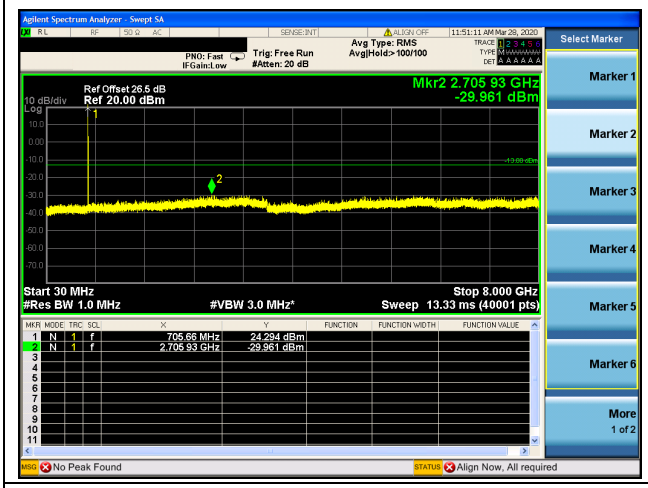
Band17 / 10MHz / Low CH / QPSK

Band17 / 10MHz / Low CH / 16QAM



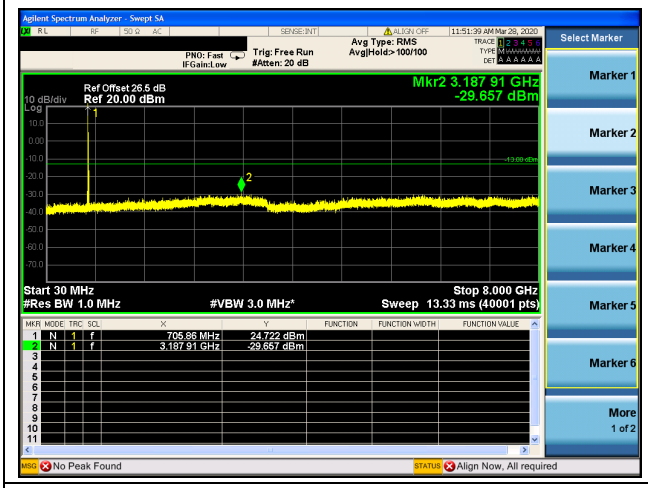
Band17 / 10MHz / Low CH / 64QAM

Band17 / 10MHz / Mid CH / QPSK

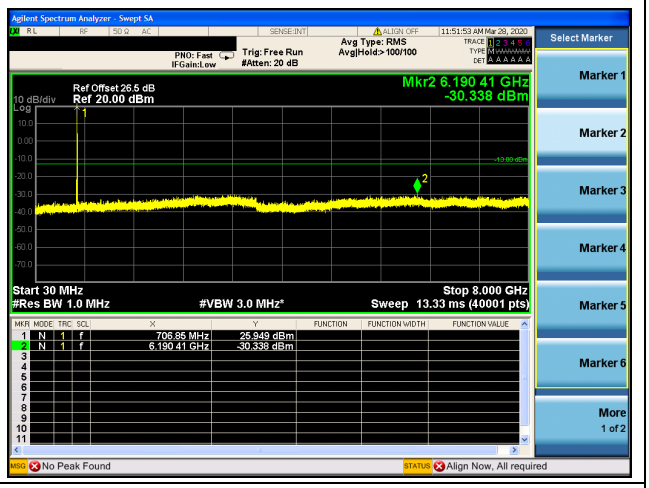


Band17 / 10MHz / Mid CH / 16QAM

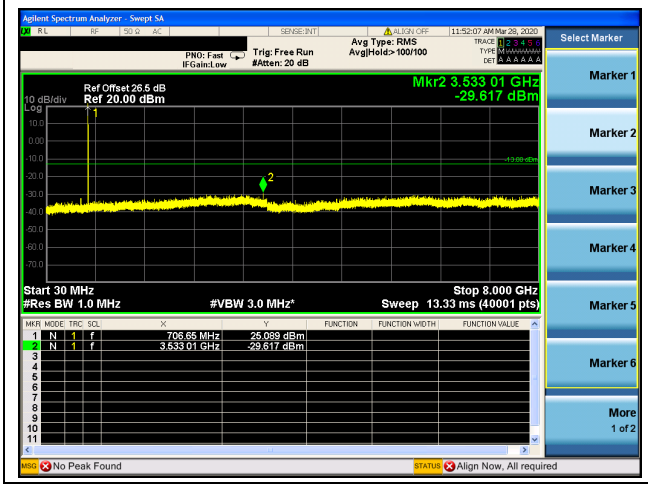
Band17 / 10MHz / Mid CH / 64QAM



Band17 / 10MHz / High CH / QPSK



Band17 / 10MHz / High CH / 16QAM



Band17 / 10MHz / High CH / 64QAM

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.

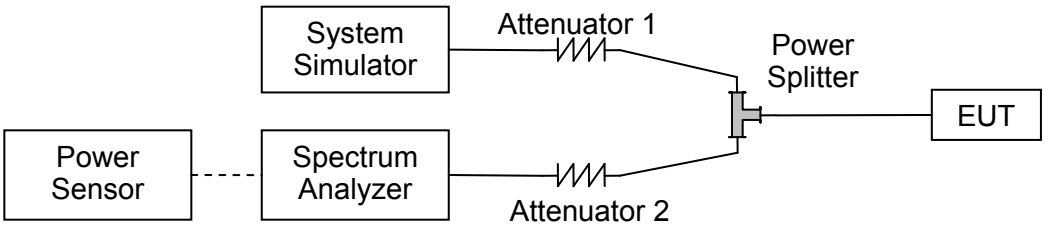
According to FCC section 24.238(a),The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

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(h), For operations in the 1710–1755MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least 43 + 10 log10(P) dB.

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 that 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 EUTis 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

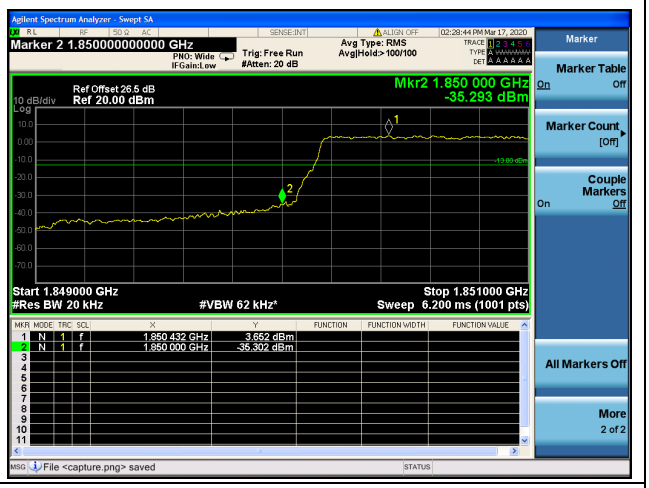
KDB 971168 D01v03 Section 6.0 and ANSI/TIA-603-E-2016.

2.6.4. Test Result

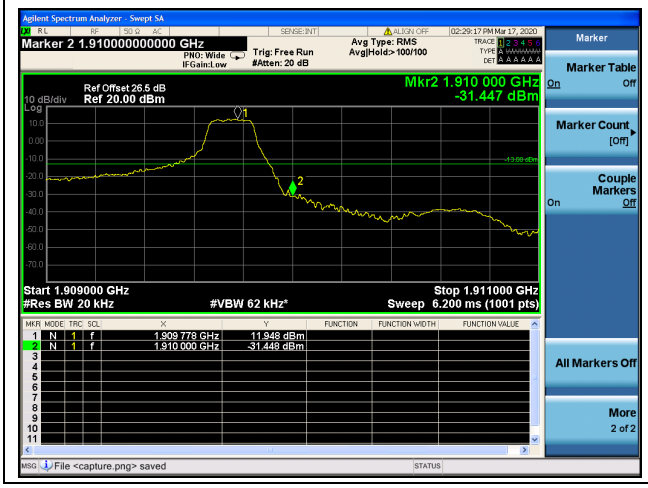
The center frequency of spectrum is the band edge frequency and span is 2MHz, Record the max trace into the test report.

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

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



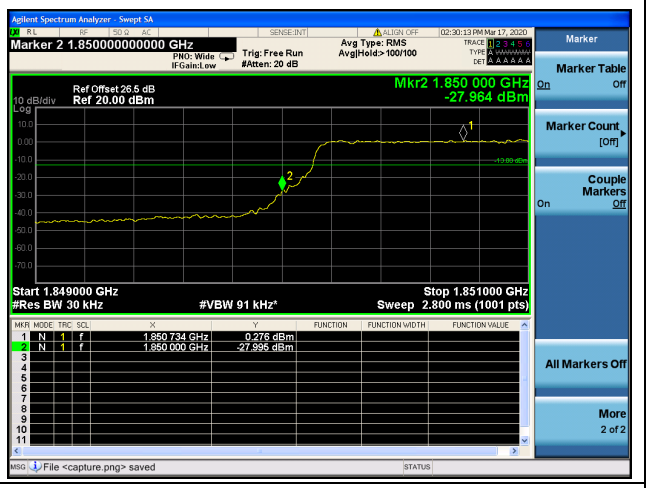
Band2 / 1.4MHz / High CH / QPSK / 1 RB



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

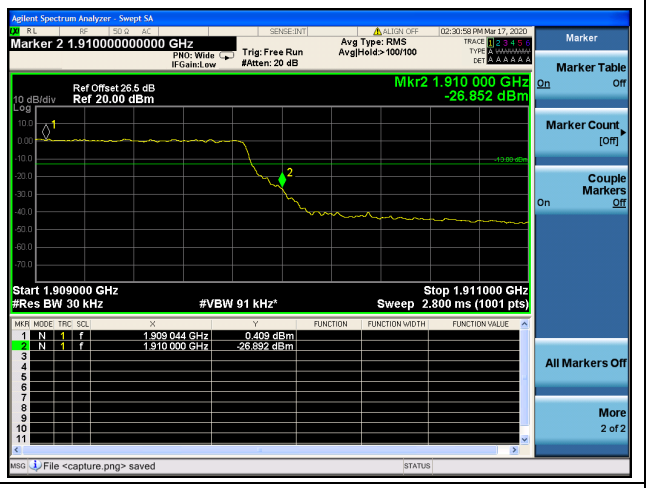
Band2 / 3MHz / Low CH / QPSK / 1 RB

Band2 / 3MHz / Low CH / QPSK / FULL RB



Band2 / 3MHz / High CH / QPSK / 1 RB

Band2 / 3MHz / High CH / QPSK / FULL RB



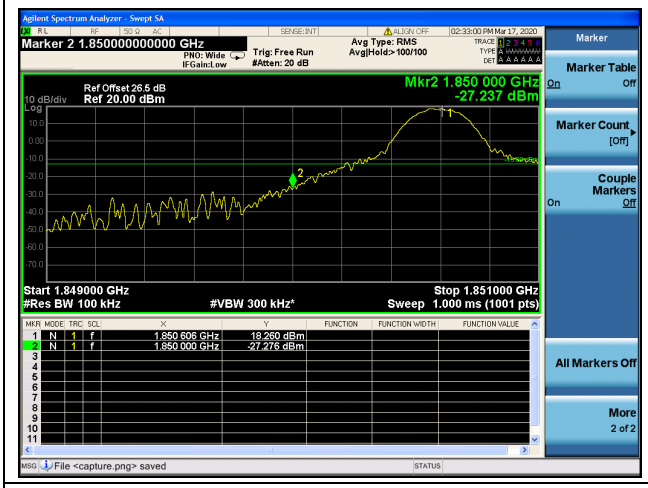
Band2 / 5MHz / Low CH / QPSK / 1 RB

Band2 / 5MHz / Low CH / QPSK / FULL RB

Band2 / 5MHz / High CH / QPSK / 1 RB

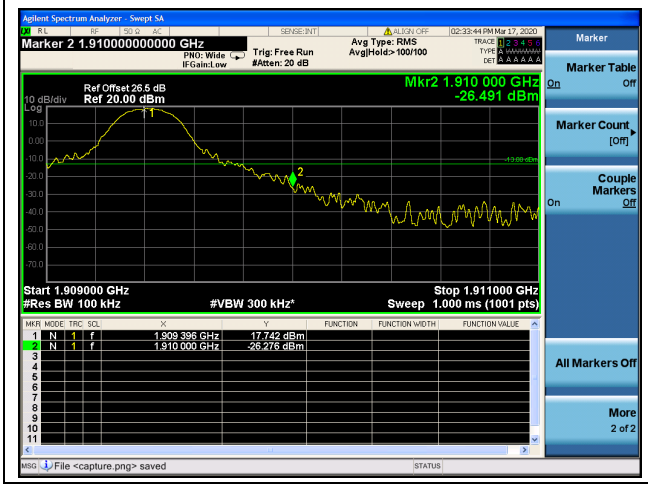
Band2 / 5MHz / High CH / QPSK / FULL RB

Band2 / 10MHz / Low CH / QPSK / 1 RB



Band2 / 10MHz / Low CH / QPSK / FULL RB

Band2 / 10MHz / High CH / QPSK / 1 RB



Band2 / 10MHz / High CH / QPSK / FULL RB