



Band5 / 10MHz / Low CH / QPSK



Band5 / 10MHz / Low CH / 16QAM



Band5 / 10MHz / Mid CH / QPSK



Band5 / 10MHz / Mid CH / 16QAM



Band5 / 10MHz / High CH / QPSK



Band5 / 10MHz / High CH / 16QAM





Band7 / 5MHz / Low CH / QPSK



Band7 / 5MHz / Low CH / 16QAM



Band7 / 5MHz / Mid CH / QPSK



Band7 / 5MHz / Mid CH / 16QAM



Band7 / 5MHz / High CH / QPSK

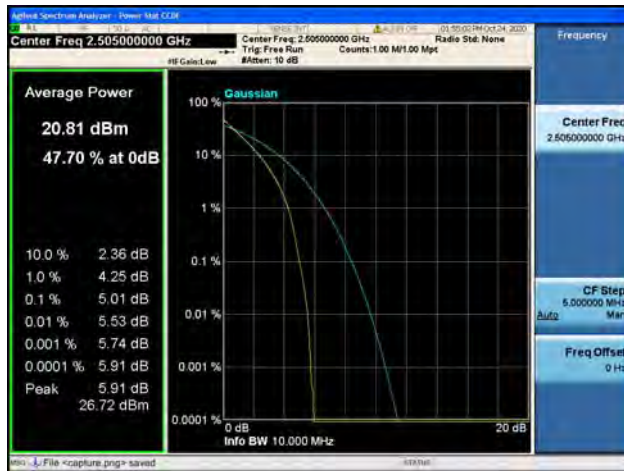


Band7 / 5MHz / High CH / 16QAM





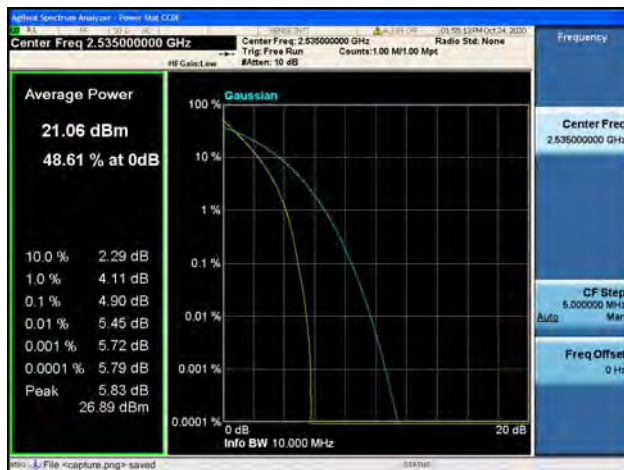
Band7 / 10MHz / Low CH / QPSK



Band7 / 10MHz / Low CH / 16QAM



Band7 / 10MHz / Mid CH / QPSK



Band7 / 10MHz / Mid CH / 16QAM



Band7 / 10MHz / High CH / QPSK



Band7 / 10MHz / High CH / 16QAM



Band7 / 15MHz / Low CH / QPSK



Band7 / 15MHz / Low CH / 16QAM



Band7 / 15MHz / Mid CH / QPSK



Band7 / 15MHz / Mid CH / 16QAM



Band7 / 15MHz / High CH / QPSK



Band7 / 15MHz / High CH / 16QAM



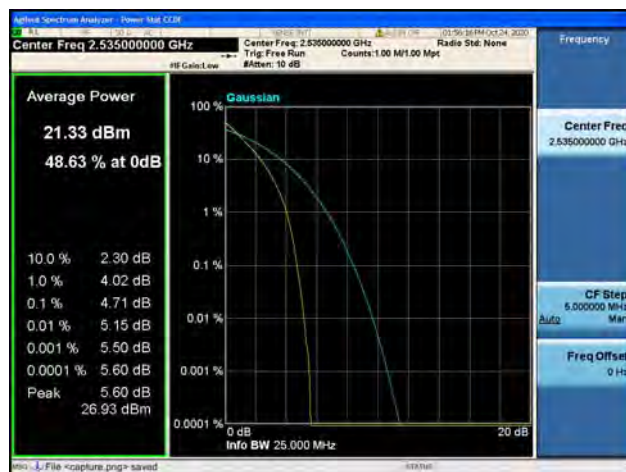
Band7 / 20MHz / Low CH / QPSK



Band7 / 20MHz / Low CH / 16QAM



Band7 / 20MHz / Mid CH / QPSK



Band7 / 20MHz / Mid CH / 16QAM



Band7 / 20MHz / High CH / QPSK



Band7 / 20MHz / High CH / 16QAM



Band12 / 1.4MHz / Low CH / QPSK



Band12 / 1.4MHz / Low CH / 16QAM



Band12 / 1.4MHz / Mid CH / QPSK



Band12 / 1.4MHz / Mid CH / 16QAM



Band12 / 1.4MHz / High CH / QPSK



Band12 / 1.4MHz / High CH / 16QAM





Band12 / 3MHz / Low CH / QPSK



Band12 / 3MHz / Low CH / 16QAM



Band12 / 3MHz / Mid CH / QPSK



Band12 / 3MHz / Mid CH / 16QAM



Band12 / 3MHz / High CH / QPSK



Band12 / 3MHz / High CH / 16QAM





Band12 / 5MHz / Low CH / QPSK



Band12 / 5MHz / Low CH / 16QAM



Band12 / 5MHz / Mid CH / QPSK



Band12 / 5MHz / Mid CH / 16QAM



Band12 / 5MHz / High CH / QPSK



Band12 / 5MHz / High CH / 16QAM





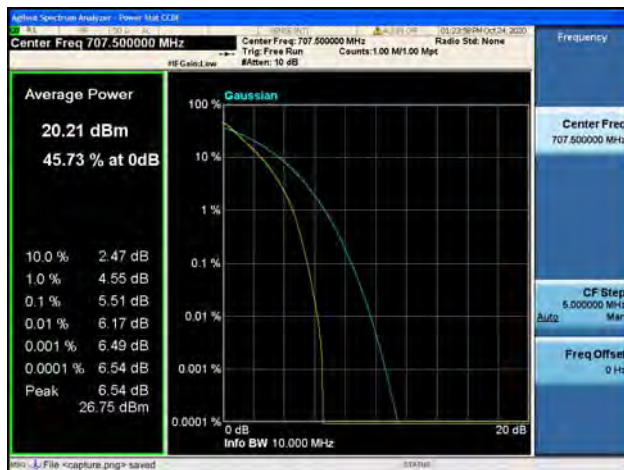
Band12 / 10MHz / Low CH / QPSK



Band12 / 10MHz / Low CH / 16QAM



Band12 / 10MHz / Mid CH / QPSK



Band12 / 10MHz / Mid CH / 16QAM



Band12 / 10MHz / High CH / QPSK



Band12 / 10MHz / High CH / 16QAM





Band13 / 5MHz / Low CH / QPSK



Band13 / 5MHz / Low CH / 16QAM



Band13 / 5MHz / Mid CH / QPSK



Band13 / 5MHz / Mid CH / 16QAM



Band13 / 5MHz / High CH / QPSK



Band13 / 5MHz / High CH / 16QAM





Band13 / 10MHz / Low CH / QPSK



Band13 / 10MHz / Low CH / 16QAM



Band13 / 10MHz / Mid CH / QPSK



Band13 / 10MHz / Mid CH / 16QAM



Band13 / 10MHz / High CH / QPSK



Band13 / 10MHz / High CH / 16QAM





Band17 / 5MHz / Low CH / QPSK



Band17 / 5MHz / Low CH / 16QAM



Band17 / 5MHz / Mid CH / QPSK



Band17 / 5MHz / Mid CH / 16QAM



Band17 / 5MHz / High CH / QPSK



Band17 / 5MHz / High CH / 16QAM





Band17 / 10MHz / Low CH / QPSK



Band17 / 10MHz / Low CH / 16QAM



Band17 / 10MHz / Mid CH / QPSK



Band17 / 10MHz / Mid CH / 16QAM



Band17 / 10MHz / High CH / QPSK



Band17 / 10MHz / High CH / 16QAM

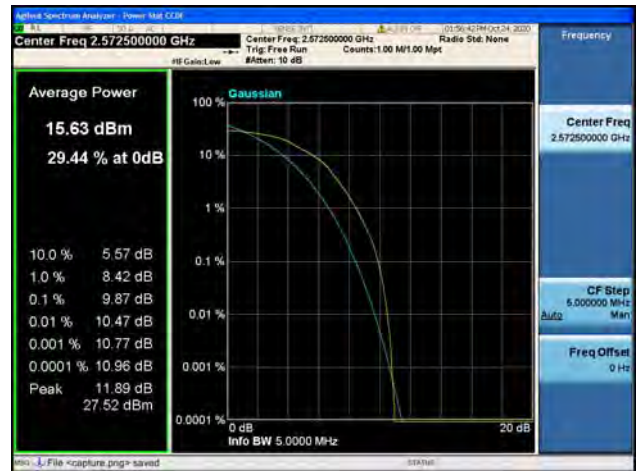




Band38 / 5MHz / Low CH / QPSK



Band38 / 5MHz / Low CH / 16QAM



Band38 / 5MHz / Mid CH / QPSK



Band38 / 5MHz / Mid CH / 16QAM



Band38 / 5MHz / High CH / QPSK



Band38 / 5MHz / High CH / 16QAM

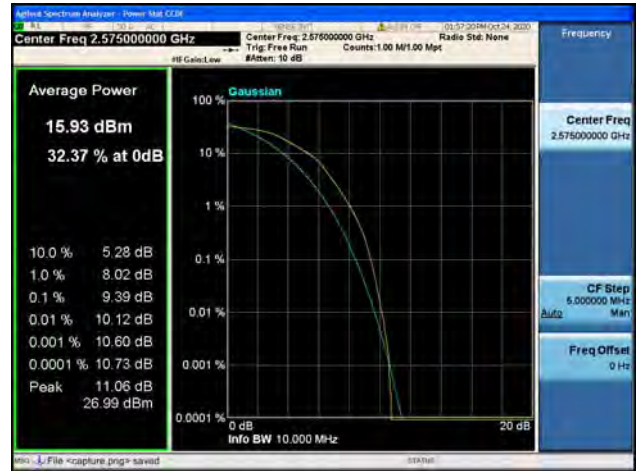




Band38 / 10MHz / Low CH / QPSK



Band38 / 10MHz / Low CH / 16QAM



Band38 / 10MHz / Mid CH / QPSK



Band38 / 10MHz / Mid CH / 16QAM



Band38 / 10MHz / High CH / QPSK



Band38 / 10MHz / High CH / 16QAM





Band38 / 15MHz / Low CH / QPSK



Band38 / 15MHz / Low CH / 16QAM



Band38 / 15MHz / Mid CH / QPSK



Band38 / 15MHz / Mid CH / 16QAM



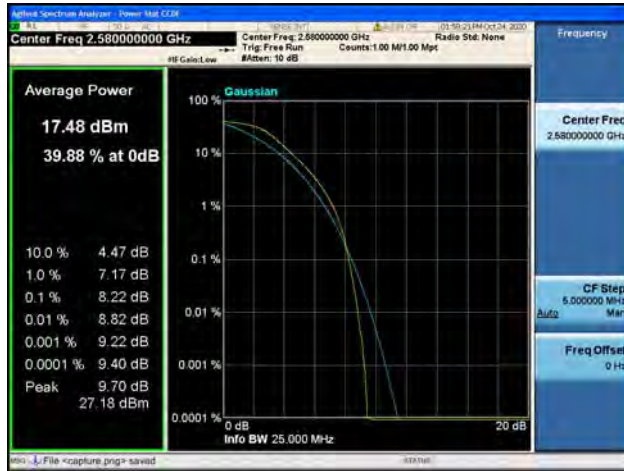
Band38 / 15MHz / High CH / QPSK



Band38 / 15MHz / High CH / 16QAM



Band38 / 20MHz / Low CH / QPSK



Band38 / 20MHz / Low CH / 16QAM



Band38 / 20MHz / Mid CH / QPSK



Band38 / 20MHz / Mid CH / 16QAM



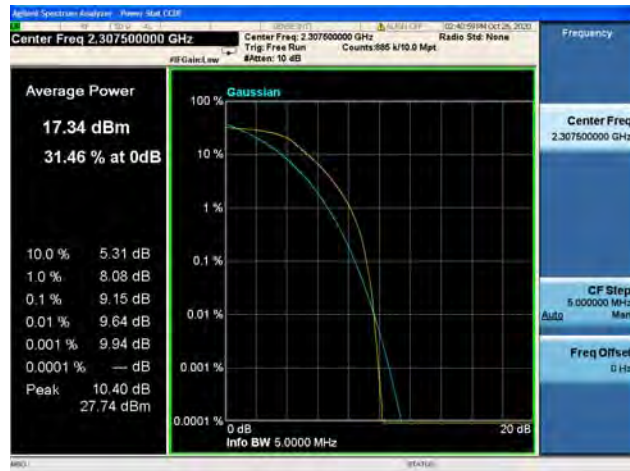
Band38 / 20MHz / High CH / QPSK



Band38 / 20MHz / High CH / 16QAM



Band40/ Block A / 5MHz / Low CH / QPSK



Band40/ Block A / 5MHz / Low CH / 16QAM



Band40/ Block A / 5MHz / Mid CH / QPSK



Band40/ Block A / 5MHz / Mid CH / 16QAM



Band40/ Block A / 5MHz / High CH / QPSK



Band40/ Block A / 5MHz / High CH / 16QAM





Band40/ Block A / 10MHz / Mid CH / QPSK



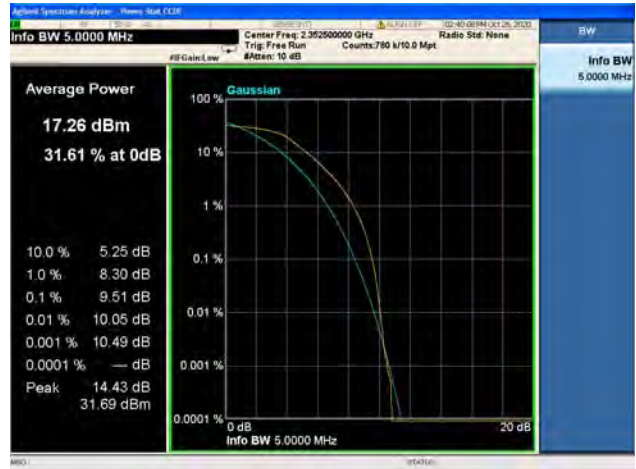
Band40/ Block A / 10MHz / Mid CH / 16QAM



Band40/ Block B / 5MHz / Low CH / QPSK



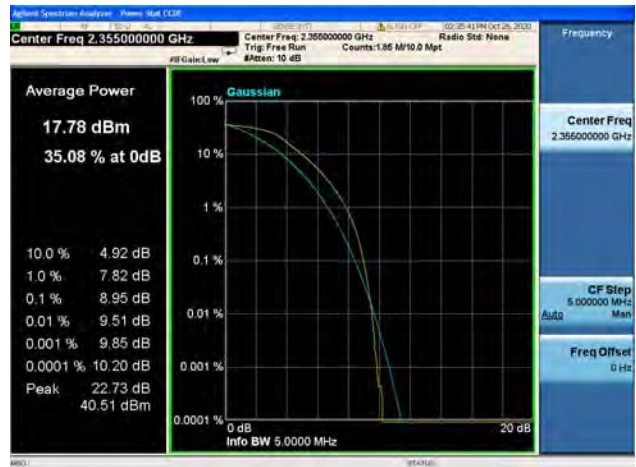
Band40/ Block B / 5MHz / Low CH / 16QAM



Band40/ Block B / 5MHz / Mid CH / QPSK



Band40/ Block B / 5MHz / Mid CH / 16QAM



Band40/ Block B / 5MHz / High CH / QPSK

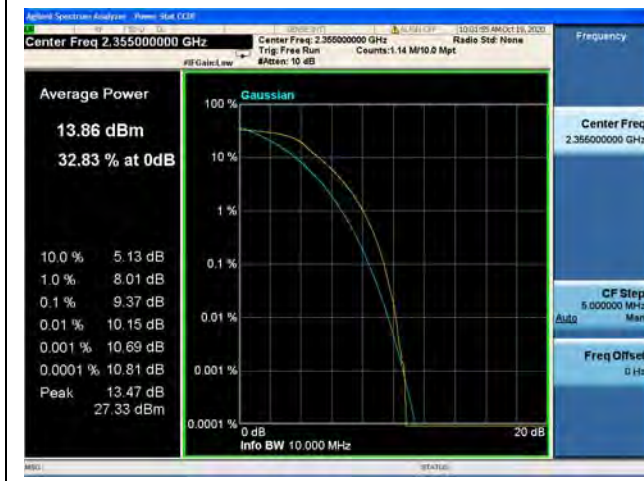


Band40/ Block B / 5MHz / High CH / 16QAM





Band40/ Block B / 10MHz / Mid CH / QPSK



Band40/ Block B / 10MHz / Mid CH / 16QAM



Band41 / 5MHz / Low CH / QPSK



Band41 / 5MHz / Low CH / 16QAM



Band41 / 5MHz / Mid CH / QPSK



Band41 / 5MHz / Mid CH / 16QAM



Band41 / 5MHz / High CH / QPSK



Band41 / 5MHz / High CH / 16QAM



Band41 / 10MHz / Low CH / QPSK



Band41 / 10MHz / Low CH / 16QAM



Band41 / 10MHz / Mid CH / QPSK



Band41 / 10MHz / Mid CH / 16QAM



Band41 / 10MHz / High CH / QPSK



Band41 / 10MHz / High CH / 16QAM



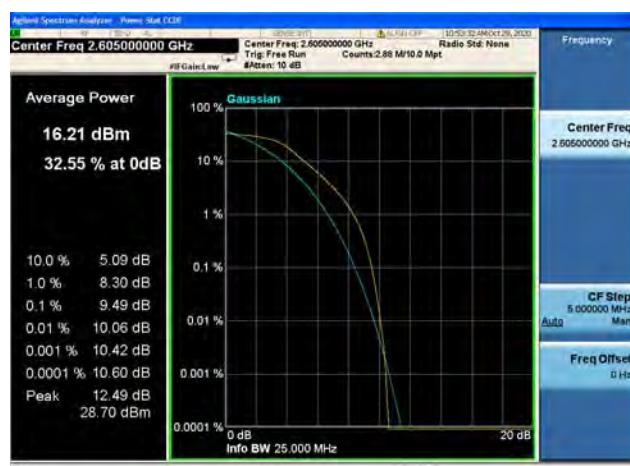
Band41 / 15MHz / Low CH / QPSK



Band41 / 15MHz / Low CH / 16QAM



Band41 / 15MHz / Mid CH / QPSK



Band41 / 15MHz / Mid CH / 16QAM



Band41 / 15MHz / High CH / QPSK

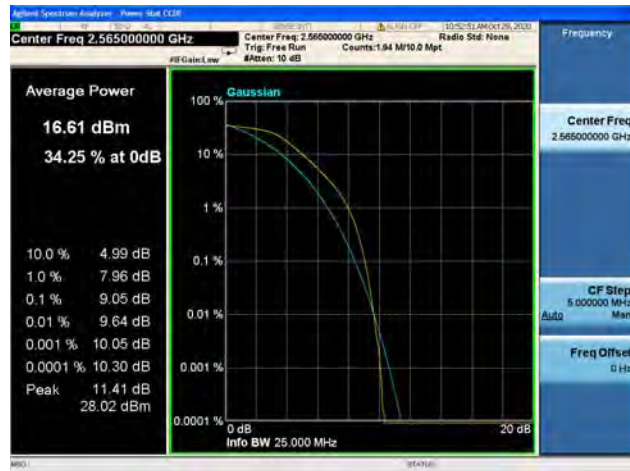


Band41 / 15MHz / High CH / 16QAM

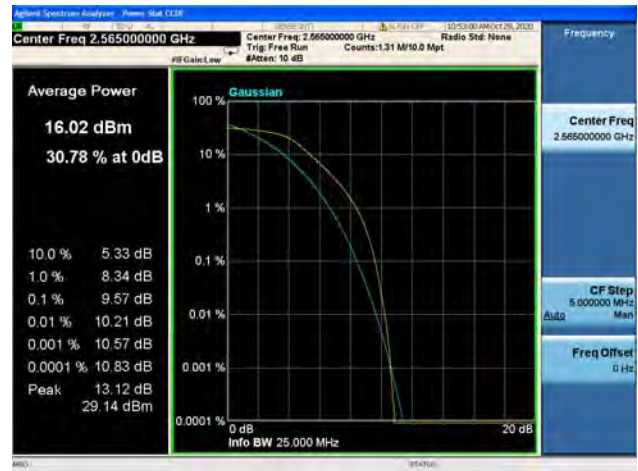




Band41 / 20MHz / Low CH / QPSK



Band41 / 20MHz / Low CH / 16QAM



Band41 / 20MHz / Mid CH / QPSK



Band41 / 20MHz / Mid CH / 16QAM



Band41 / 20MHz / High CH / QPSK



Band41 / 20MHz / High CH / 16QAM



2.5. Conducted Spurious Emissions

2.5.1. Requirement

According to FCC section 2.1051, 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. This calculated to be -13dBm.

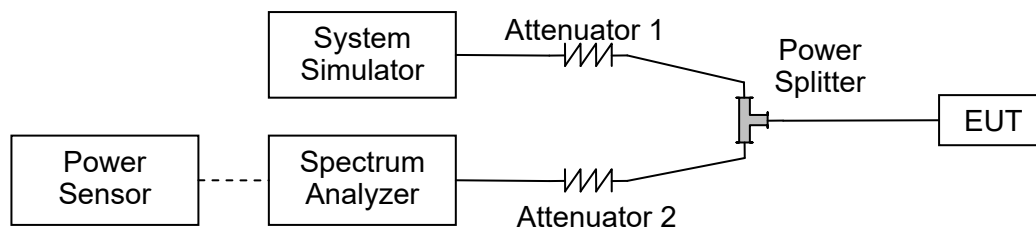
Additional requirement for LTE Band 7, 38, 41:

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. This calculated to be -25dBm.

Additional requirement for LTE Band 40:

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $70 + 10 \log(P)$ dB. This calculated to be -40dBm.

2.5.2. Test Description

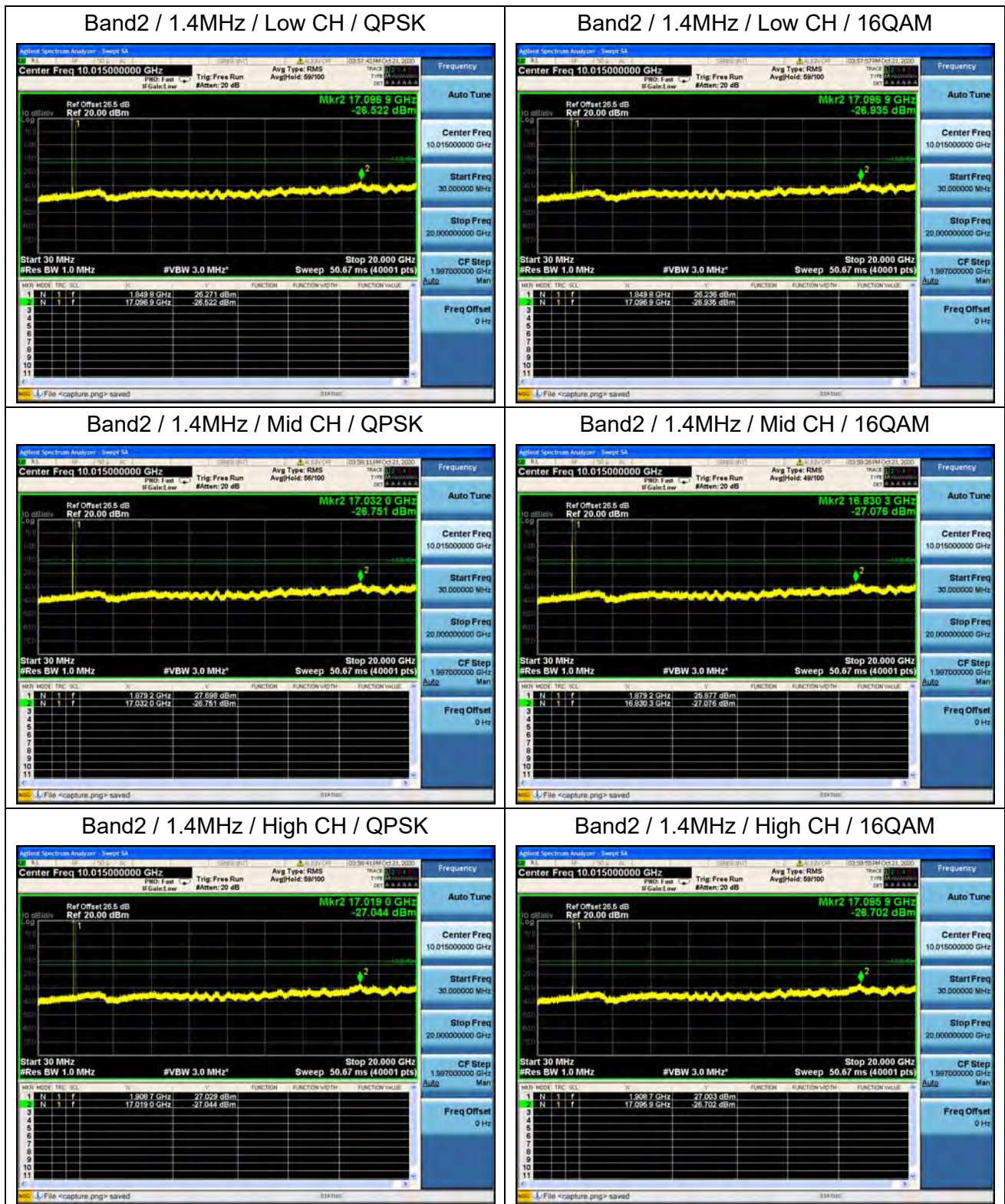


The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum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

2.5.3. Test Procedure

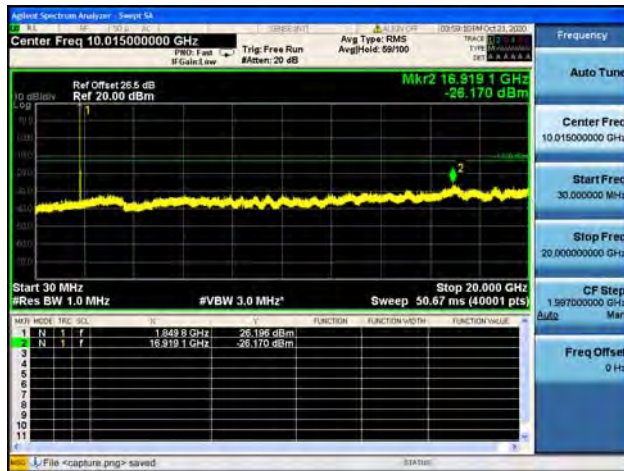
KDB 971168 D01v03 Section 6.0 and ANSI/TIA-603-E-2016.

2.5.4. Test Result

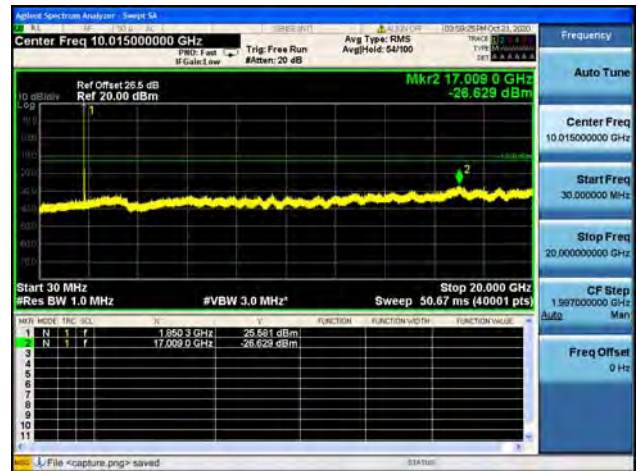




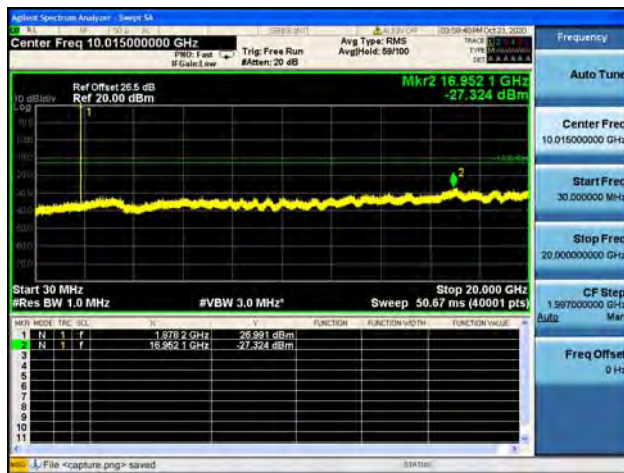
Band2 / 3MHz / Low CH / QPSK



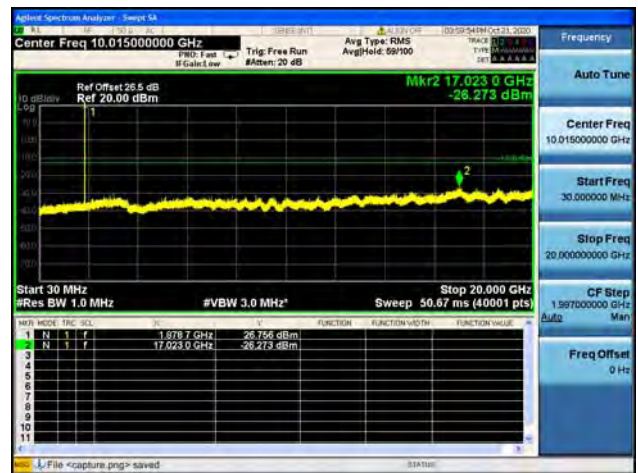
Band2 / 3MHz / Low CH / 16QAM



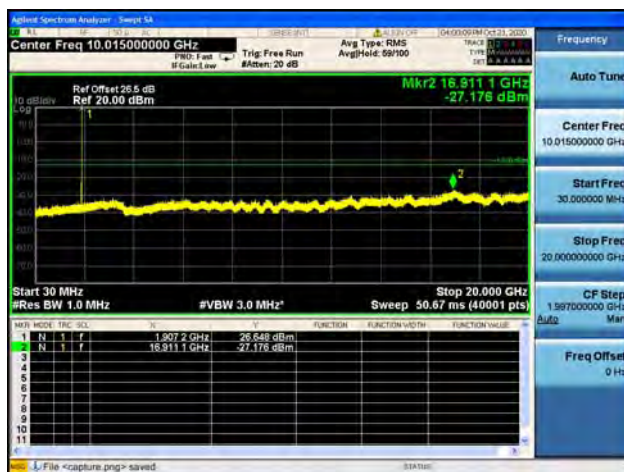
Band2 / 3MHz / Mid CH / QPSK



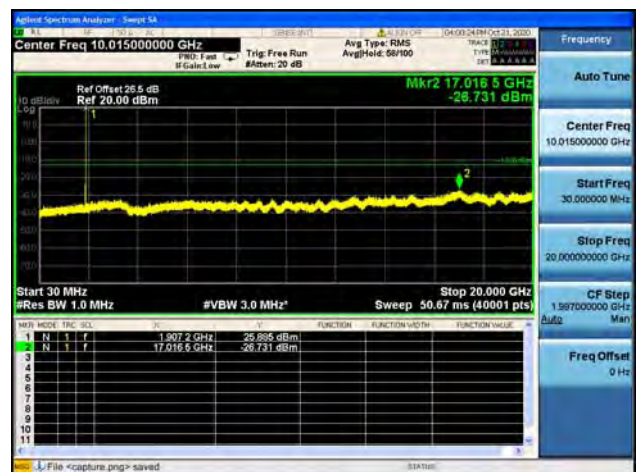
Band2 / 3MHz / Mid CH / 16QAM



Band2 / 3MHz / High CH / QPSK

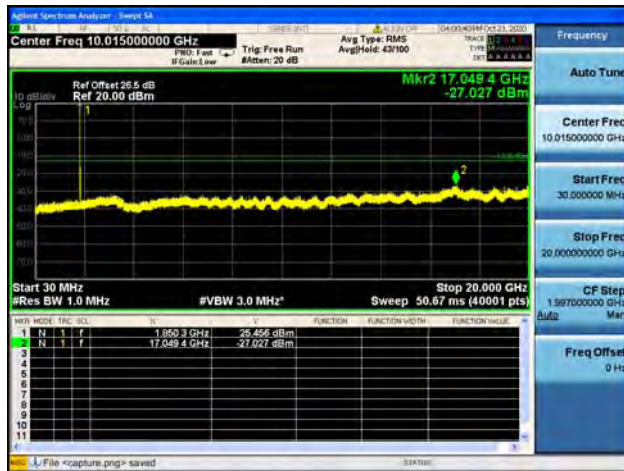


Band2 / 3MHz / High CH / 16QAM





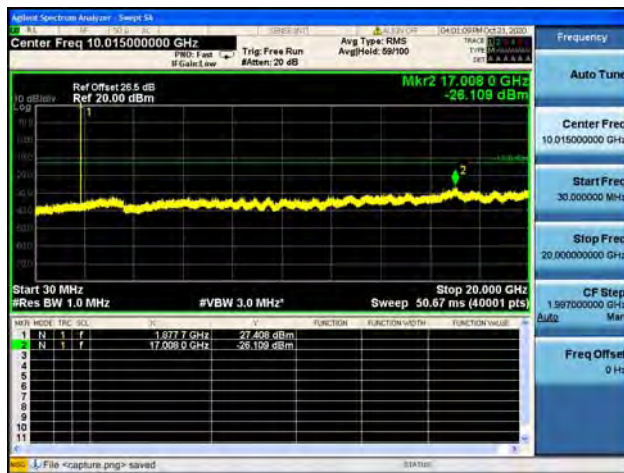
Band2 / 5MHz / Low CH / QPSK



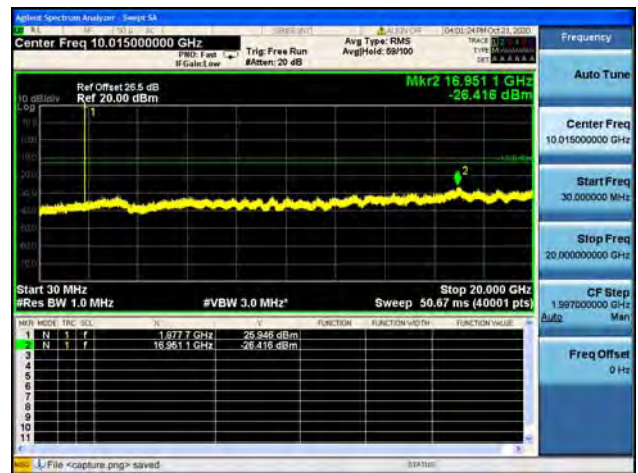
Band2 / 5MHz / Low CH / 16QAM



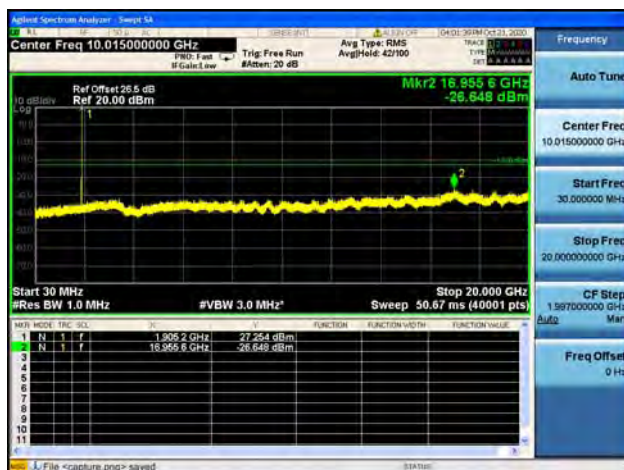
Band2 / 5MHz / Mid CH / QPSK



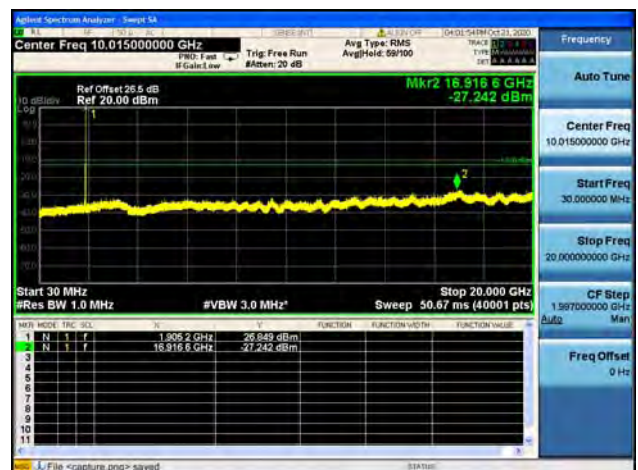
Band2 / 5MHz / Mid CH / 16QAM



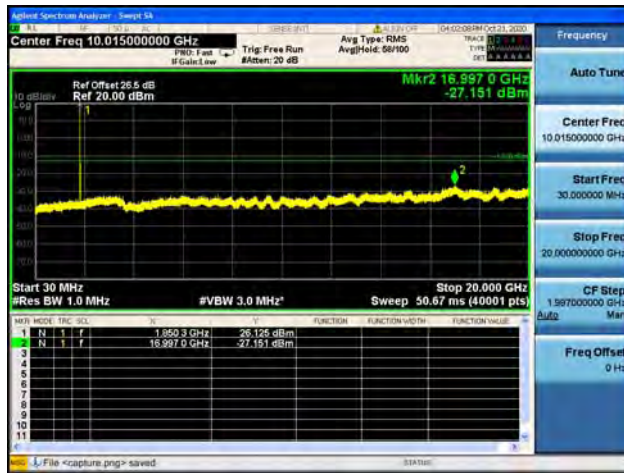
Band2 / 5MHz / High CH / QPSK



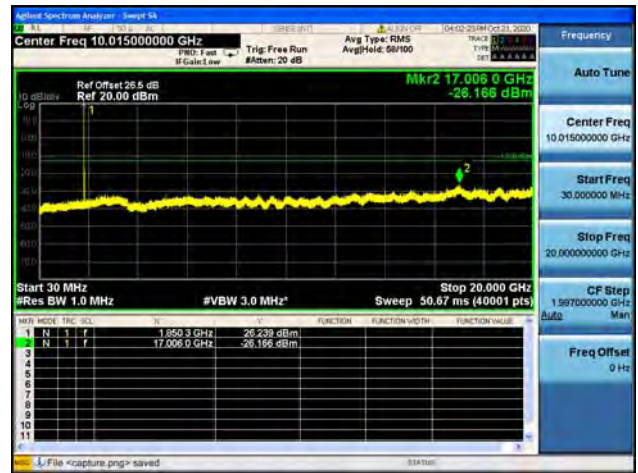
Band2 / 5MHz / High CH / 16QAM



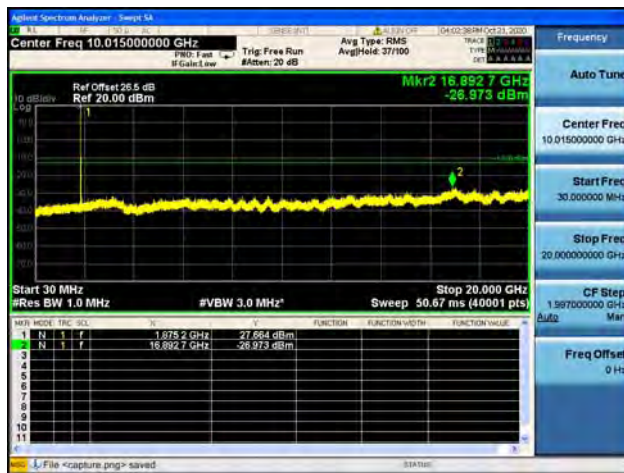
Band2 / 10MHz / Low CH / QPSK



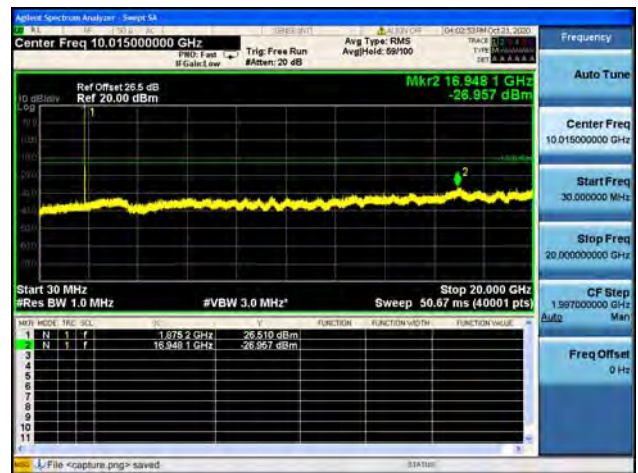
Band2 / 10MHz / Low CH / 16QAM



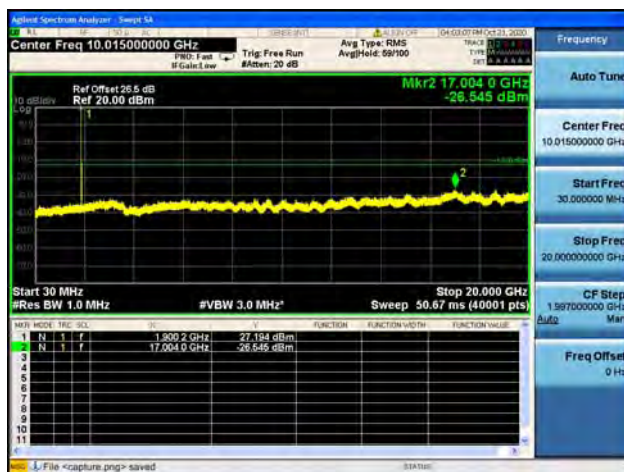
Band2 / 10MHz / Mid CH / QPSK



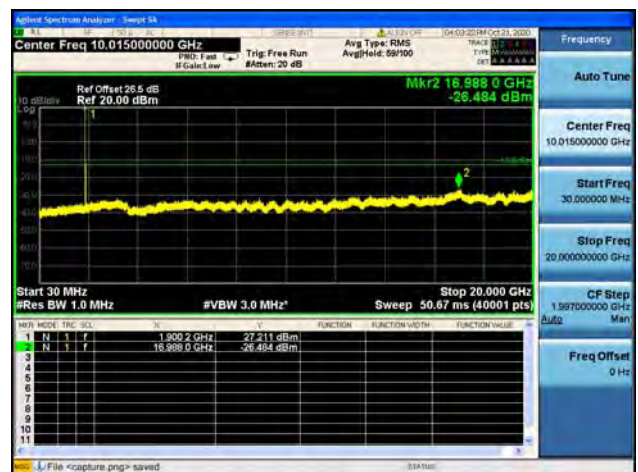
Band2 / 10MHz / Mid CH / 16QAM



Band2 / 10MHz / High CH / QPSK

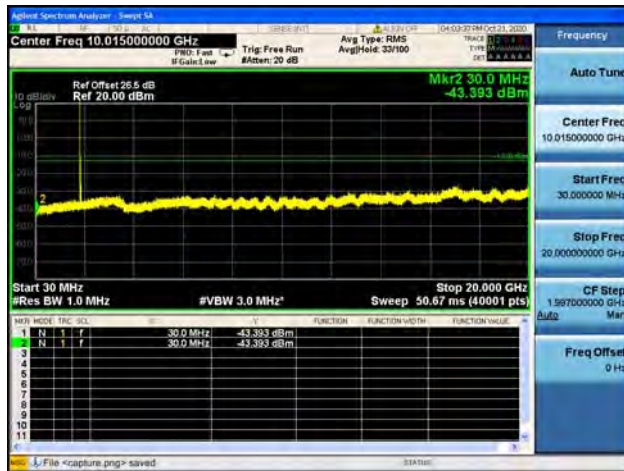


Band2 / 10MHz / High CH / 16QAM





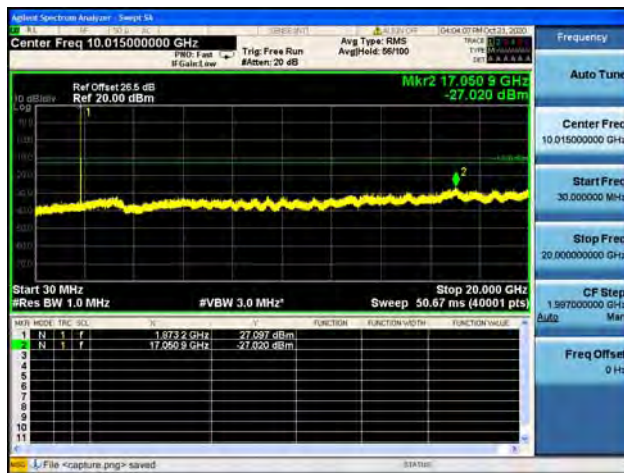
Band2 / 15MHz / Low CH / QPSK



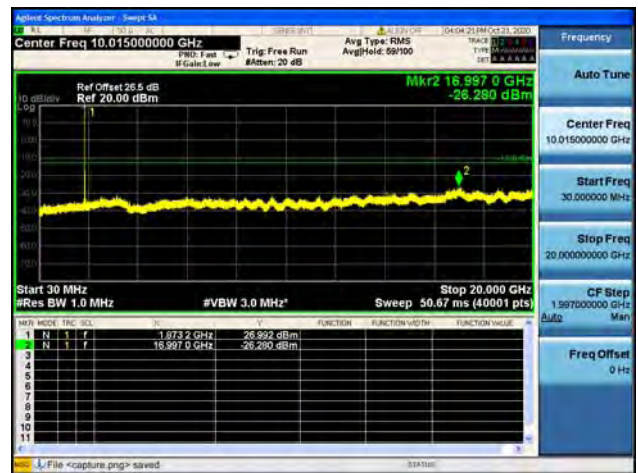
Band2 / 15MHz / Low CH / 16QAM



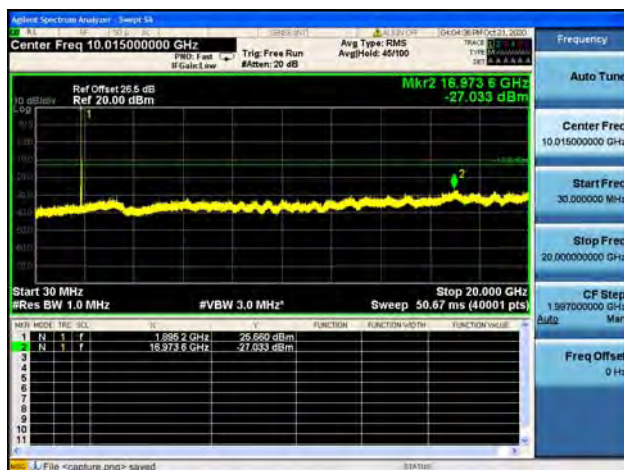
Band2 / 15MHz / Mid CH / QPSK



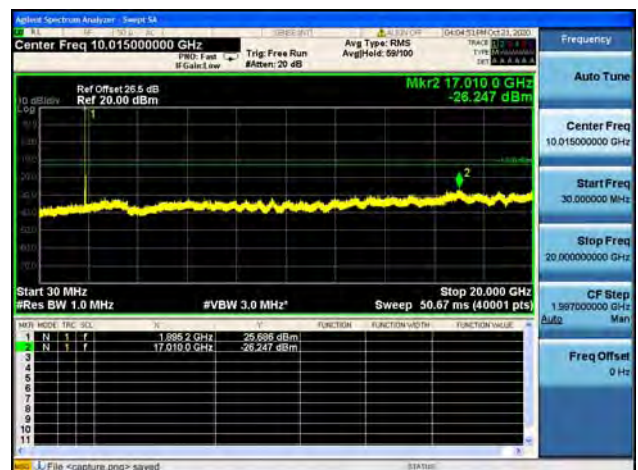
Band2 / 15MHz / Mid CH / 16QAM



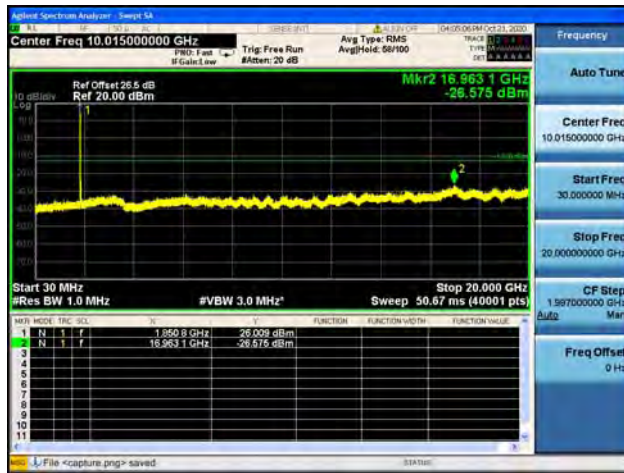
Band2 / 15MHz / High CH / QPSK



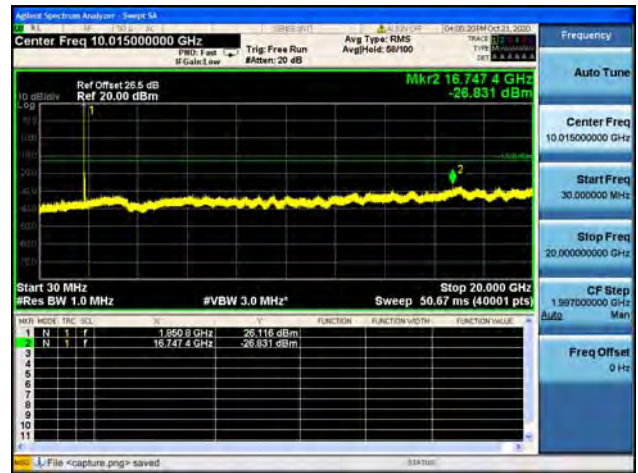
Band2 / 15MHz / High CH / 16QAM



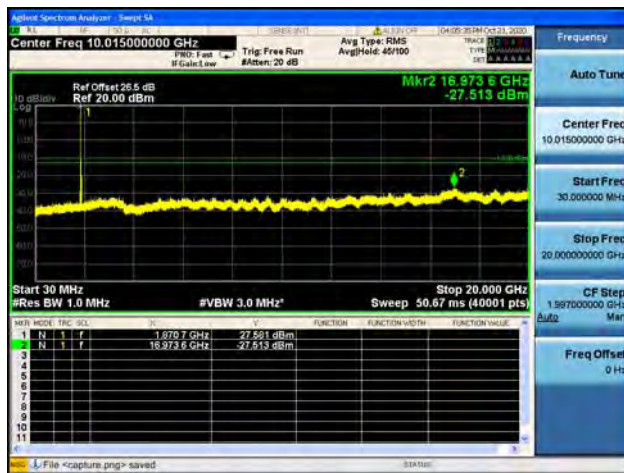
Band2 / 20MHz / Low CH / QPSK



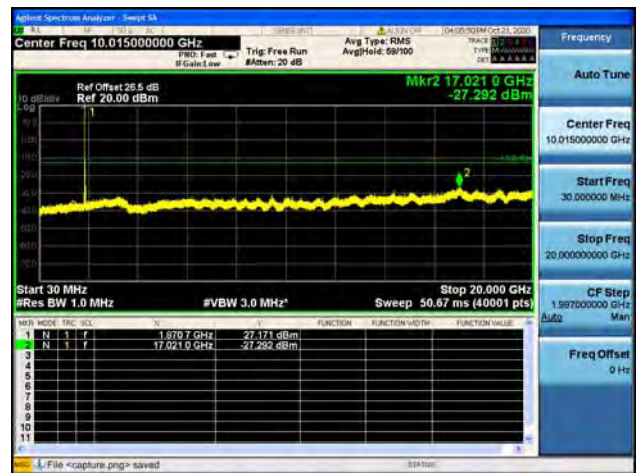
Band2 / 20MHz / Low CH / 16QAM



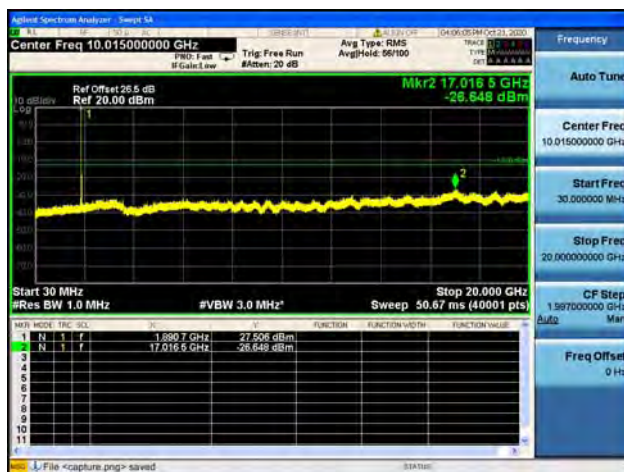
Band2 / 20MHz / Mid CH / QPSK



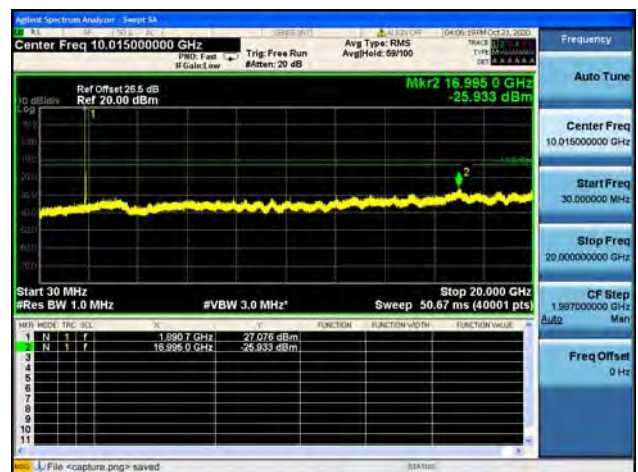
Band2 / 20MHz / Mid CH / 16QAM



Band2 / 20MHz / High CH / QPSK

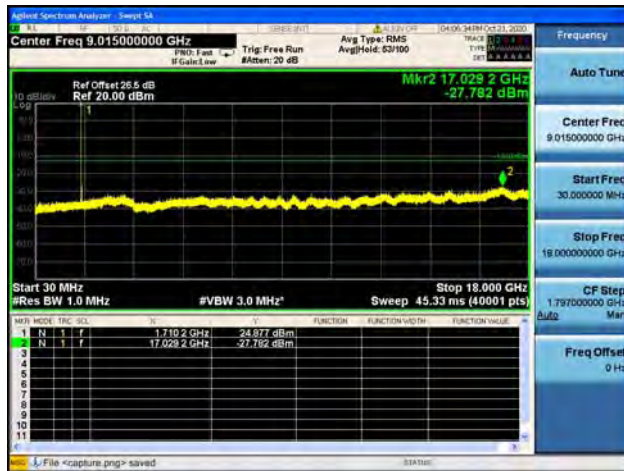


Band2 / 20MHz / High CH / 16QAM





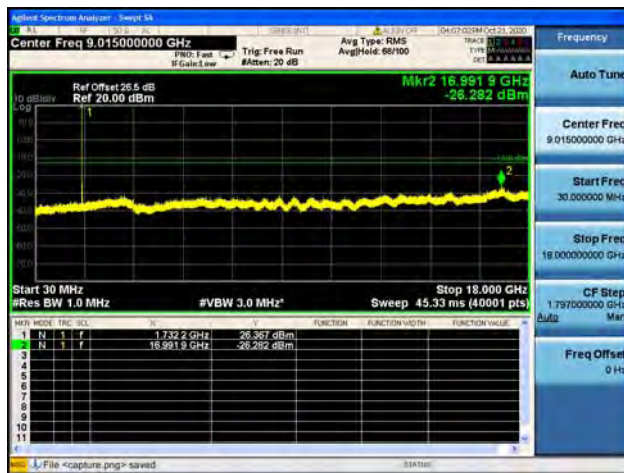
Band4 / 1.4MHz / Low CH / QPSK



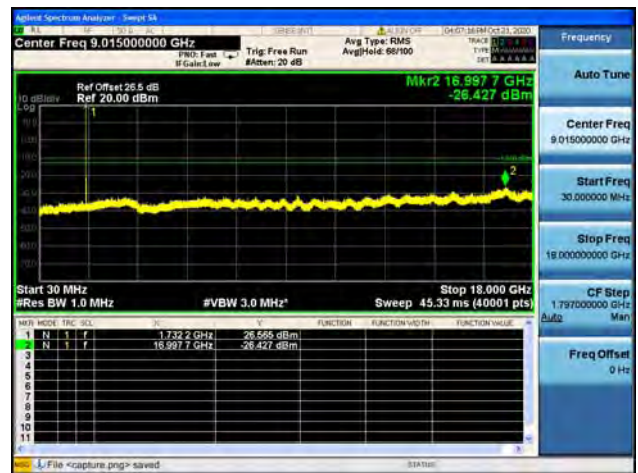
Band4 / 1.4MHz / Low CH / 16QAM



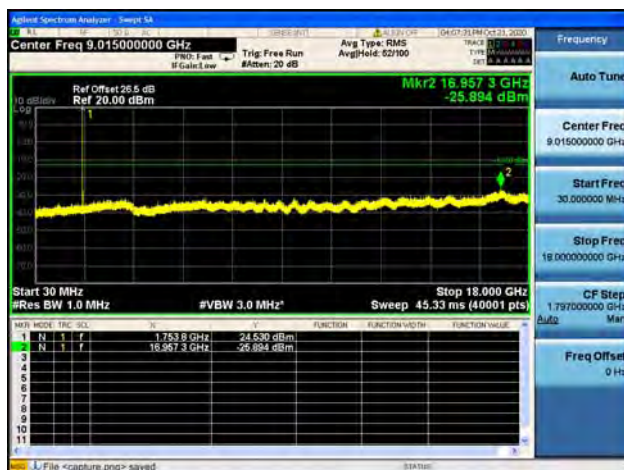
Band4 / 1.4MHz / Mid CH / QPSK



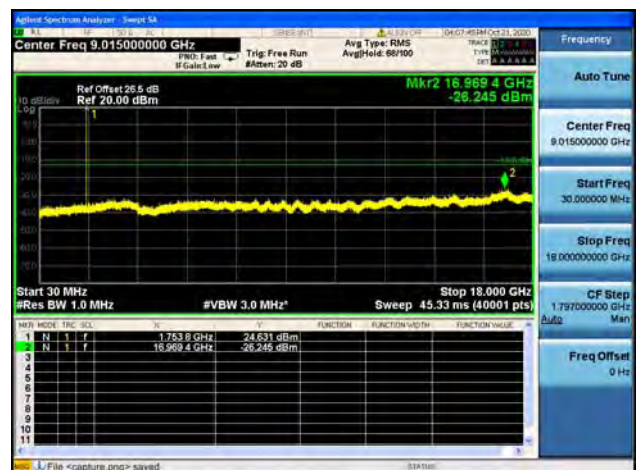
Band4 / 1.4MHz / Mid CH / 16QAM



Band4 / 1.4MHz / High CH / QPSK

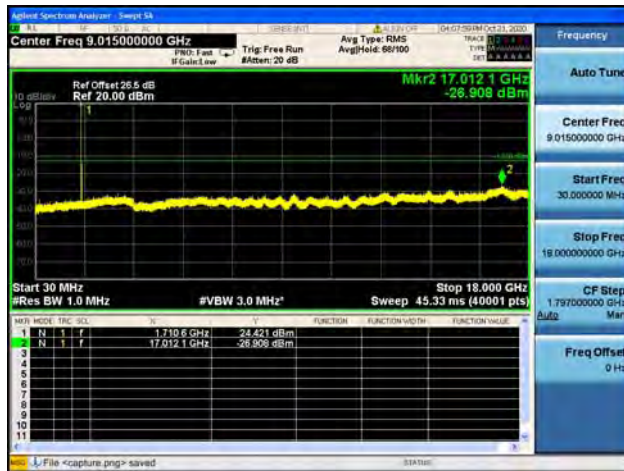


Band4 / 1.4MHz / High CH / 16QAM





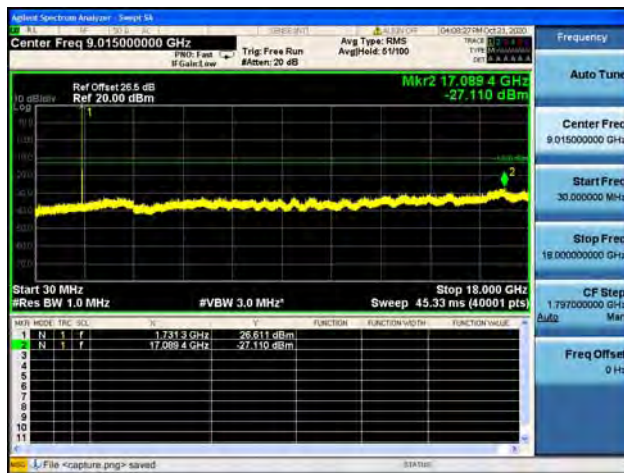
Band4 / 3MHz / Low CH / QPSK



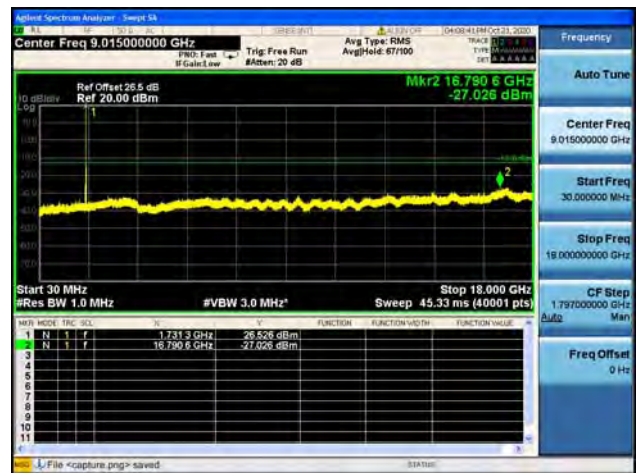
Band4 / 3MHz / Low CH / 16QAM



Band4 / 3MHz / Mid CH / QPSK



Band4 / 3MHz / Mid CH / 16QAM



Band4 / 3MHz / High CH / QPSK

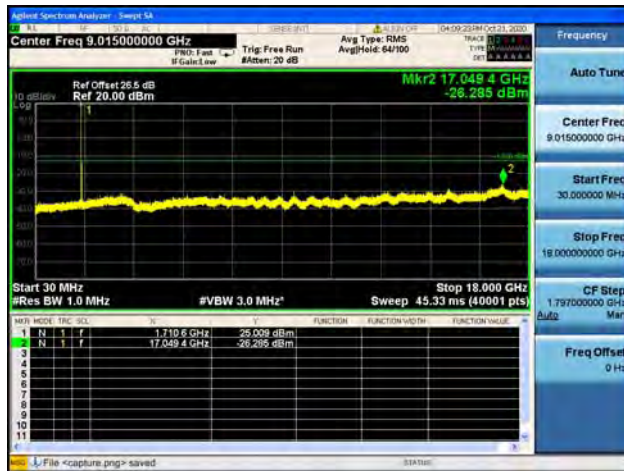


Band4 / 3MHz / High CH / 16QAM

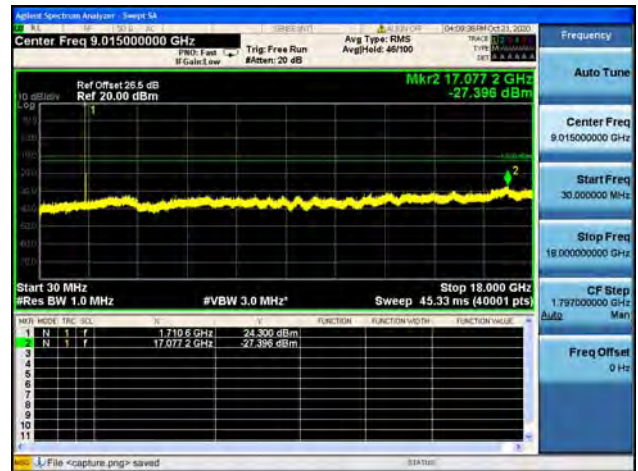




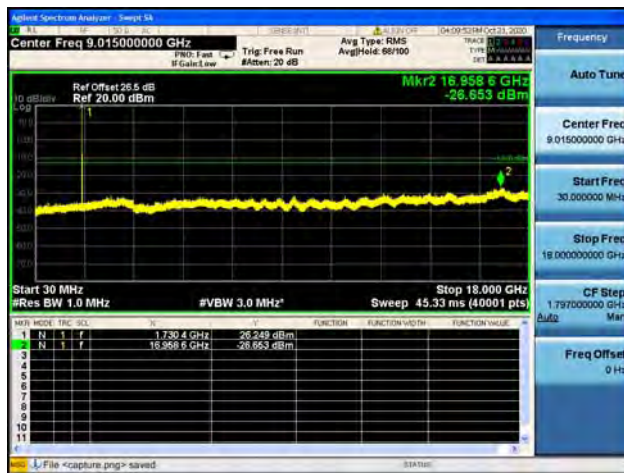
Band4 / 5MHz / Low CH / QPSK



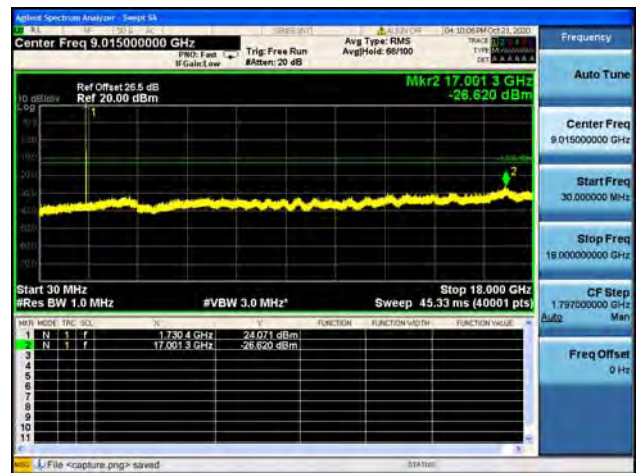
Band4 / 5MHz / Low CH / 16QAM



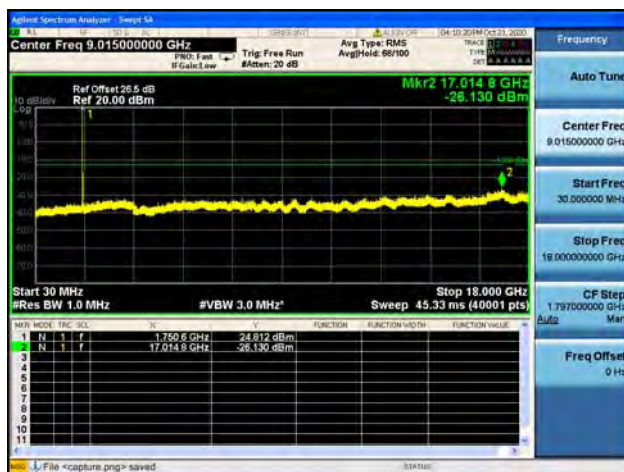
Band4 / 5MHz / Mid CH / QPSK



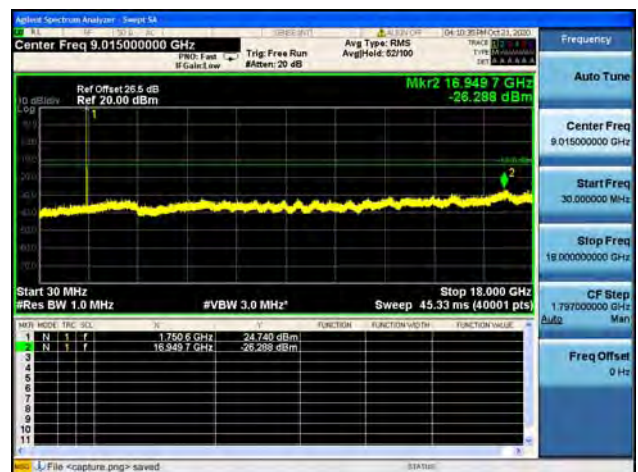
Band4 / 5MHz / Mid CH / 16QAM



Band4 / 5MHz / High CH / QPSK

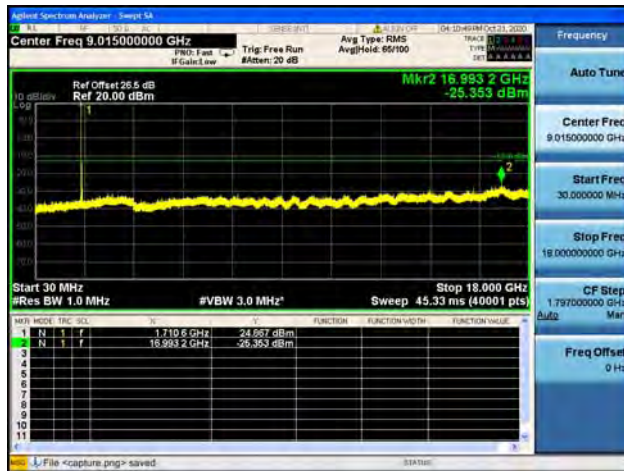


Band4 / 5MHz / High CH / 16QAM





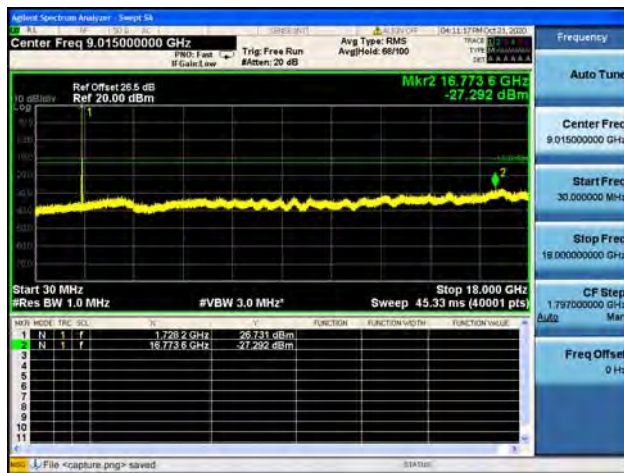
Band4 / 10MHz / Low CH / QPSK



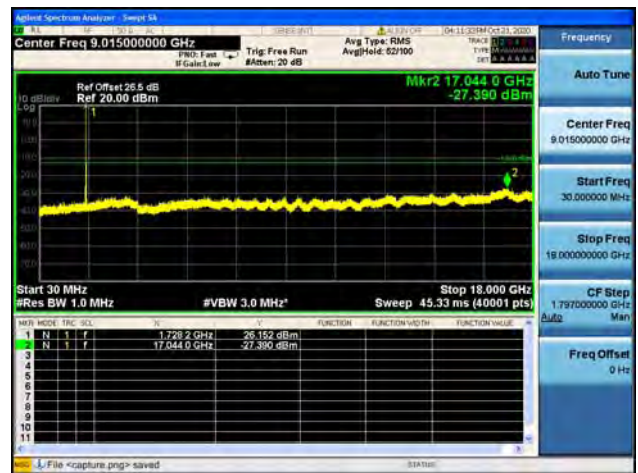
Band4 / 10MHz / Low CH / 16QAM



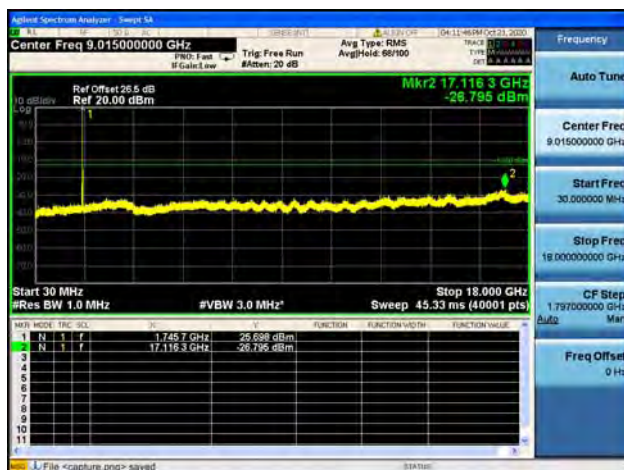
Band4 / 10MHz / Mid CH / QPSK



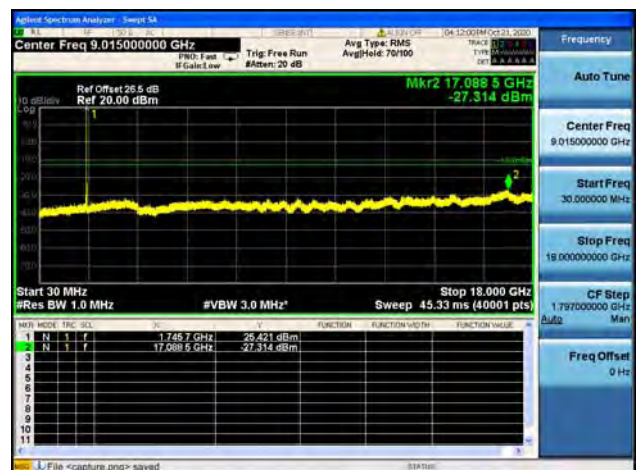
Band4 / 10MHz / Mid CH / 16QAM



Band4 / 10MHz / High CH / QPSK



Band4 / 10MHz / High CH / 16QAM





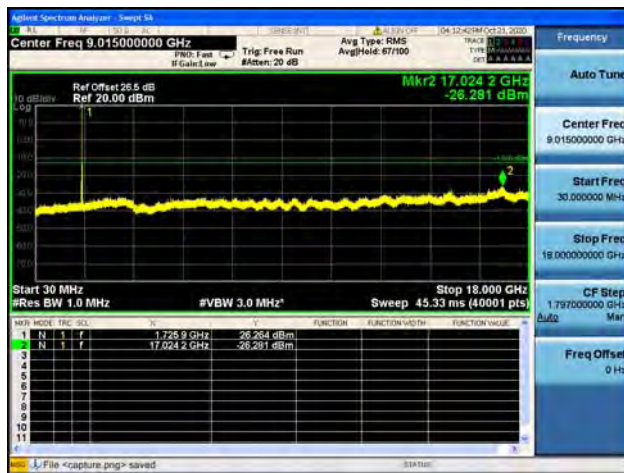
Band4 / 15MHz / Low CH / QPSK



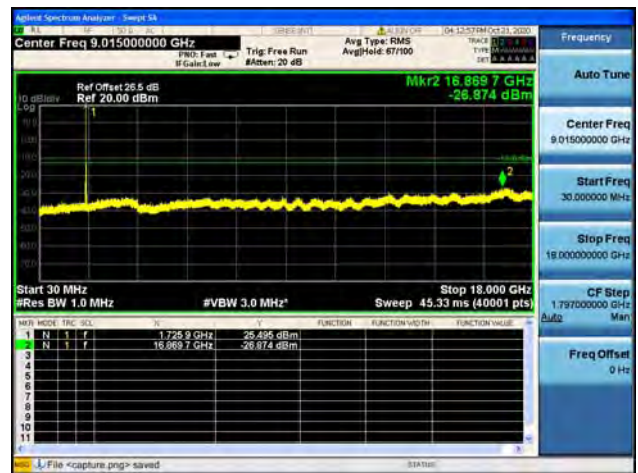
Band4 / 15MHz / Low CH / 16QAM



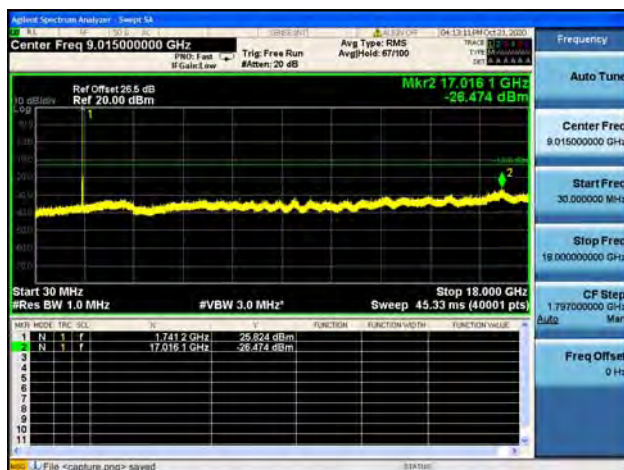
Band4 / 15MHz / Mid CH / QPSK



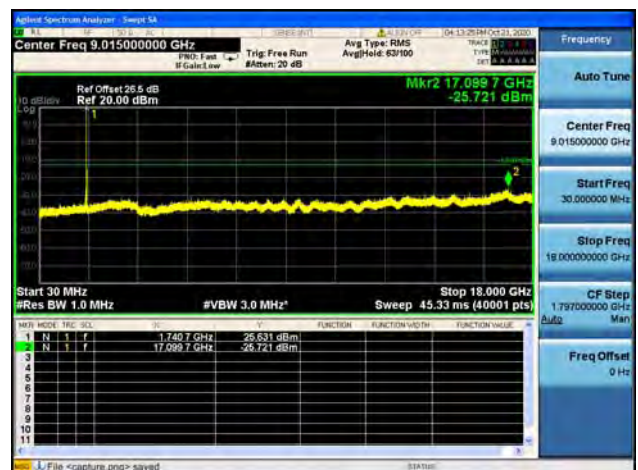
Band4 / 15MHz / Mid CH / 16QAM



Band4 / 15MHz / High CH / QPSK

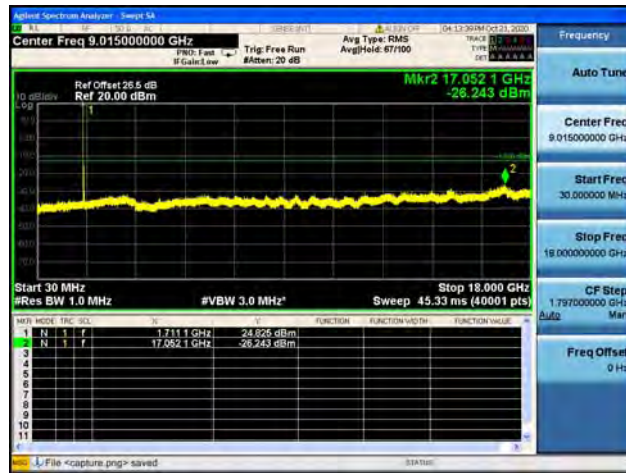


Band4 / 15MHz / High CH / 16QAM

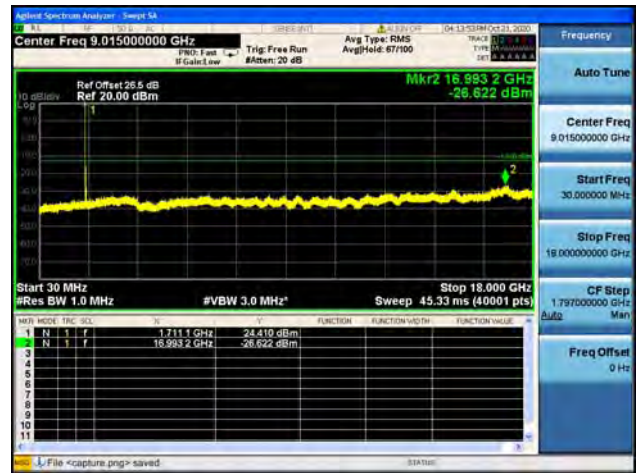




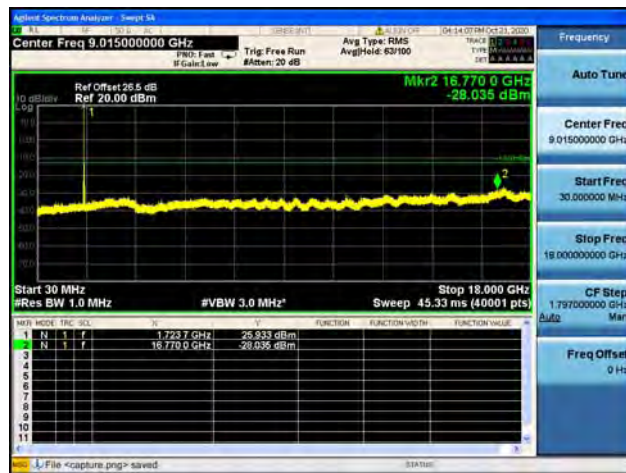
Band4 / 20MHz / Low CH / QPSK



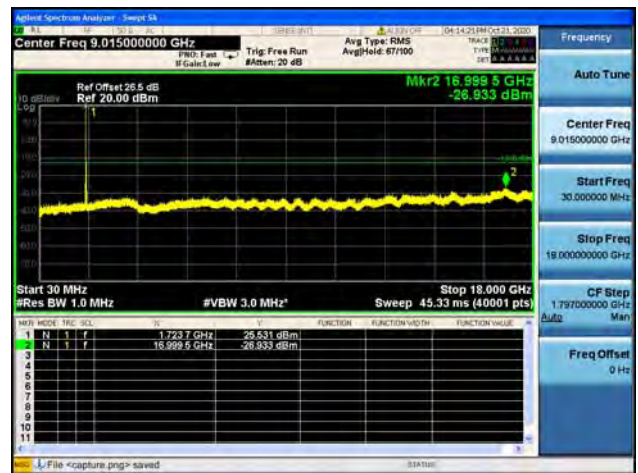
Band4 / 20MHz / Low CH / 16QAM



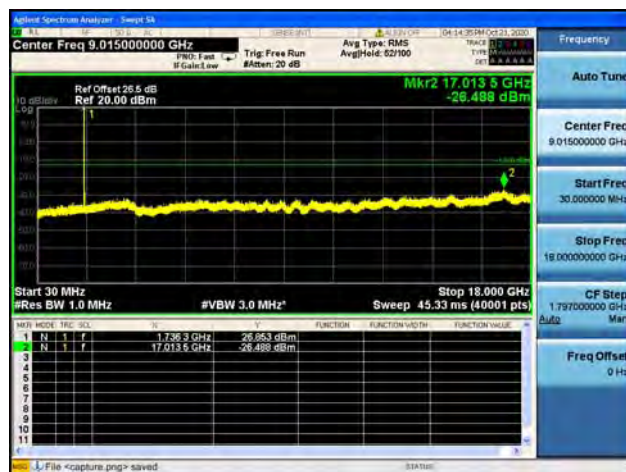
Band4 / 20MHz / Mid CH / QPSK



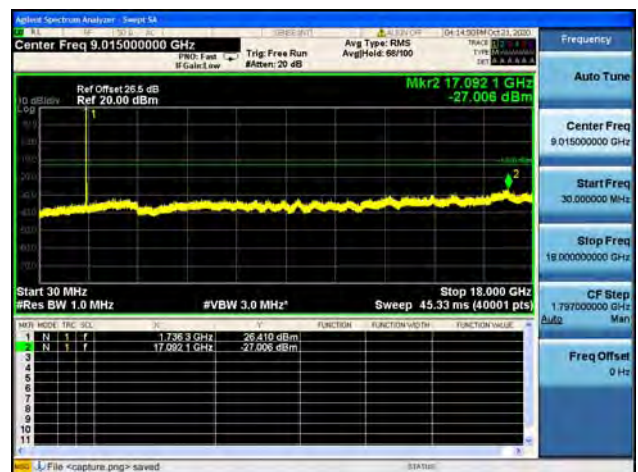
Band4 / 20MHz / Mid CH / 16QAM



Band4 / 20MHz / High CH / QPSK

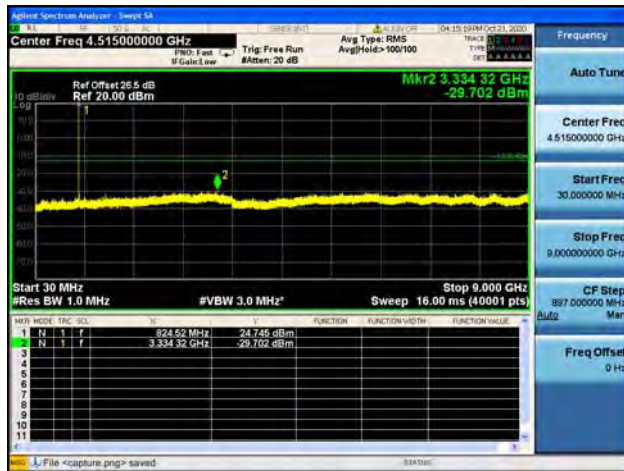


Band4 / 20MHz / High CH / 16QAM

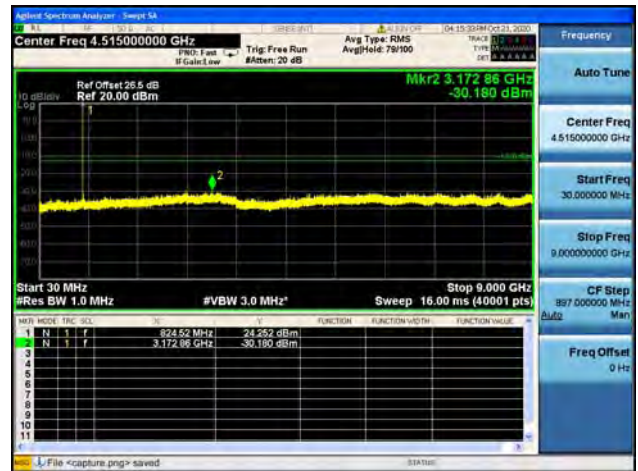




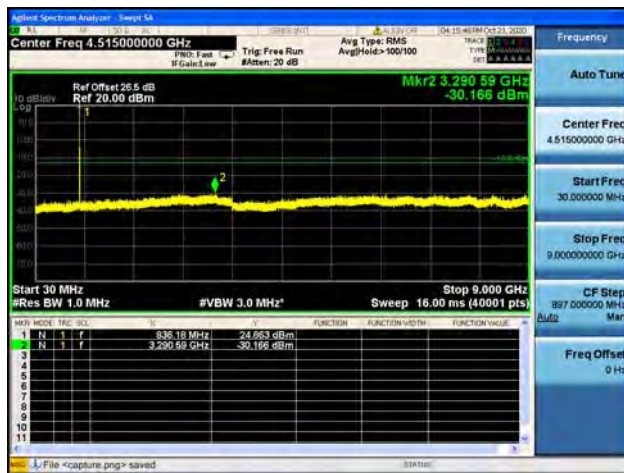
Band5 / 1.4MHz / Low CH / QPSK



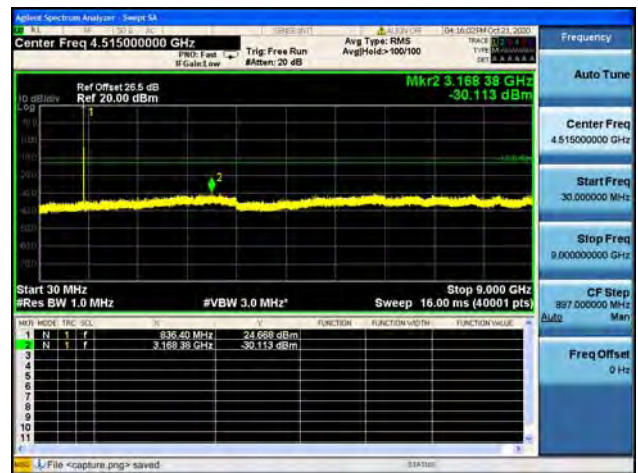
Band5 / 1.4MHz / Low CH / 16QAM



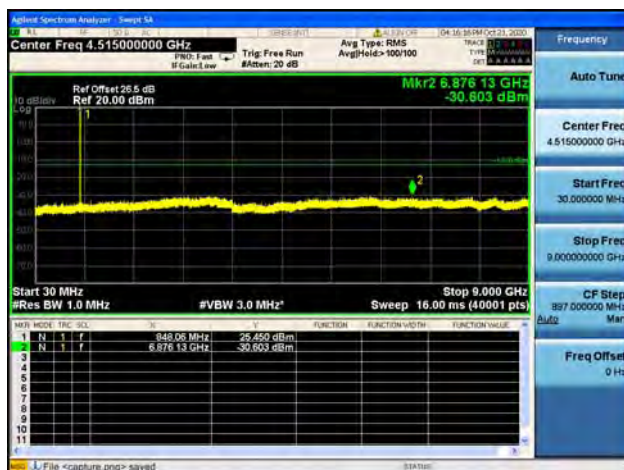
Band5 / 1.4MHz / Mid CH / QPSK



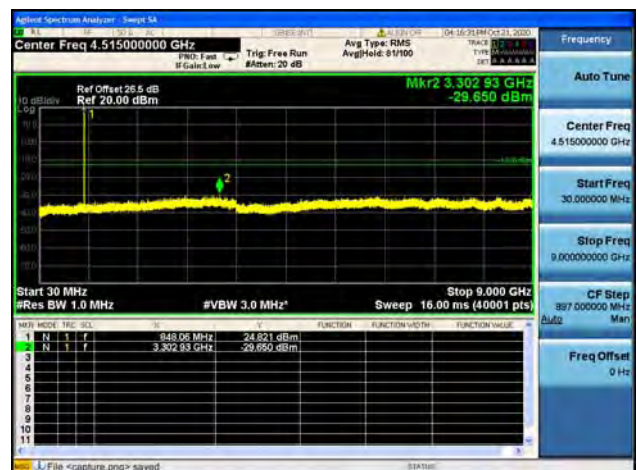
Band5 / 1.4MHz / Mid CH / 16QAM



Band5 / 1.4MHz / High CH / QPSK

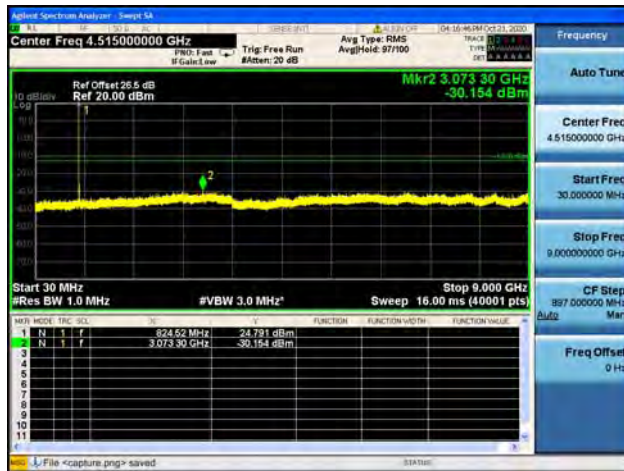


Band5 / 1.4MHz / High CH / 16QAM

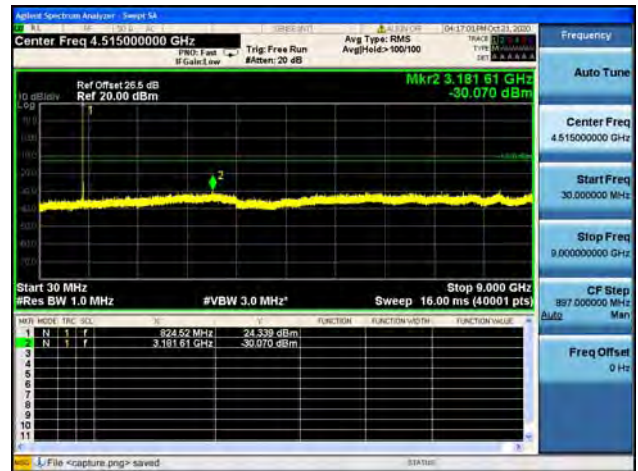




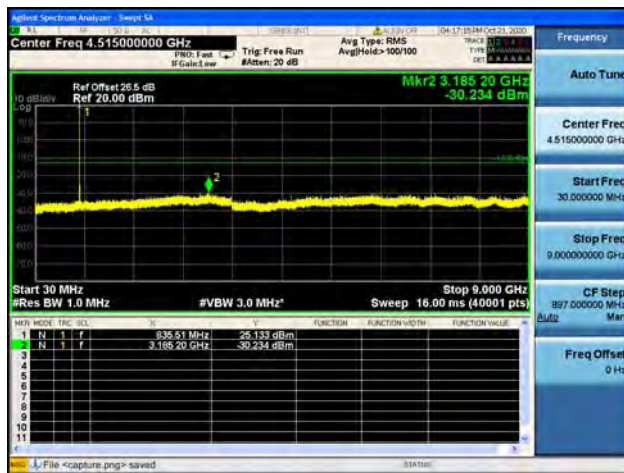
Band5 / 3MHz / Low CH / QPSK



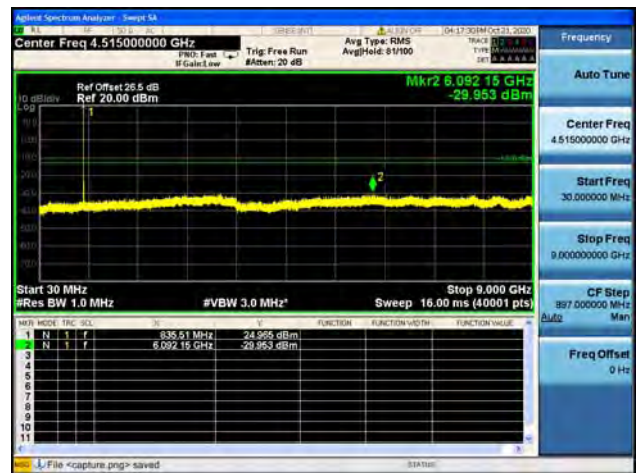
Band5 / 3MHz / Low CH / 16QAM



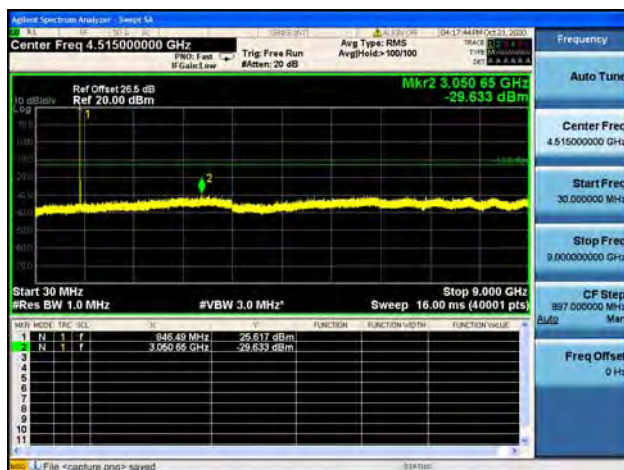
Band5 / 3MHz / Mid CH / QPSK



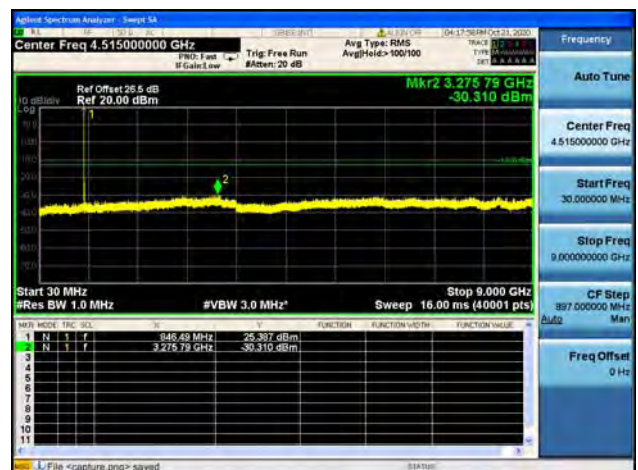
Band5 / 3MHz / Mid CH / 16QAM



Band5 / 3MHz / High CH / QPSK

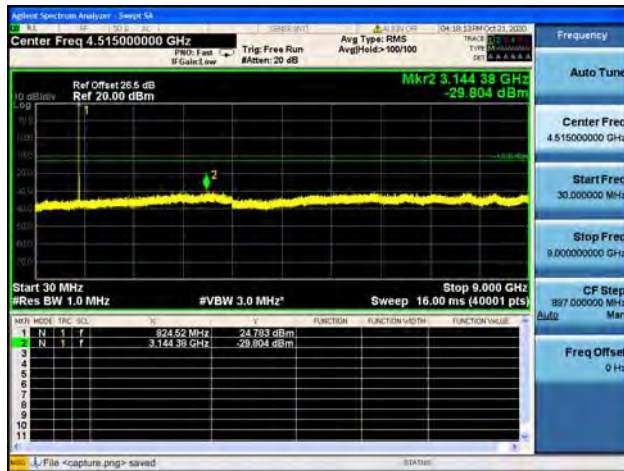


Band5 / 3MHz / High CH / 16QAM





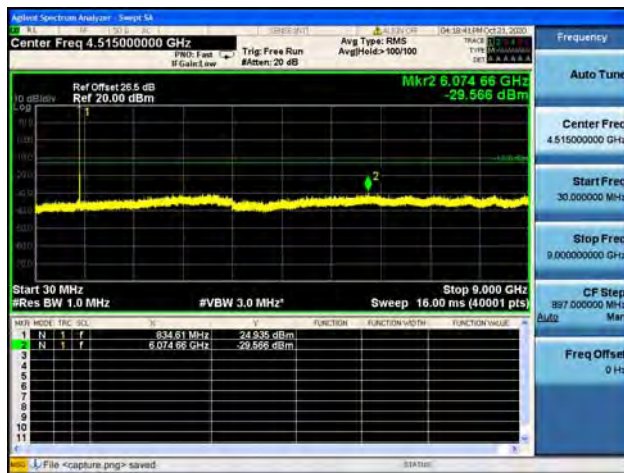
Band5 / 5MHz / Low CH / QPSK



Band5 / 5MHz / Low CH / 16QAM



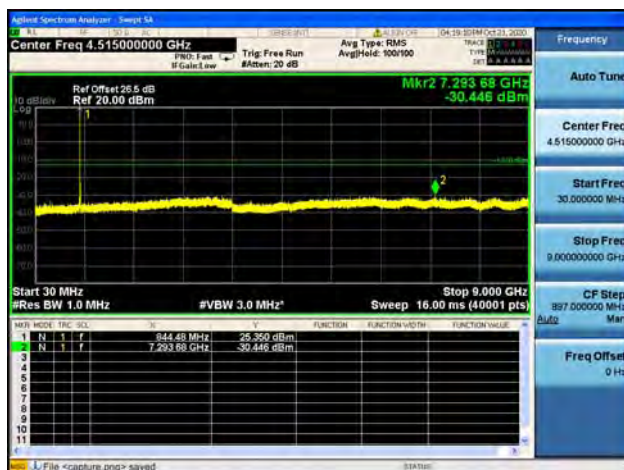
Band5 / 5MHz / Mid CH / QPSK



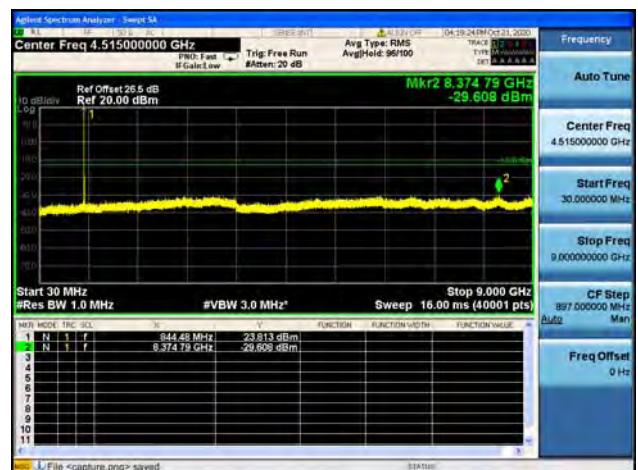
Band5 / 5MHz / Mid CH / 16QAM



Band5 / 5MHz / High CH / QPSK



Band5 / 5MHz / High CH / 16QAM

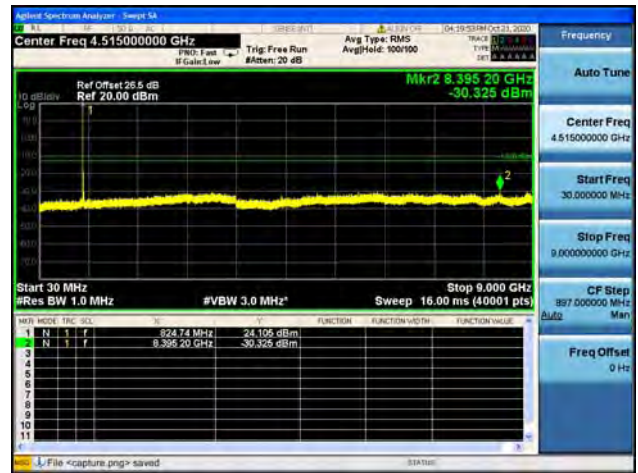




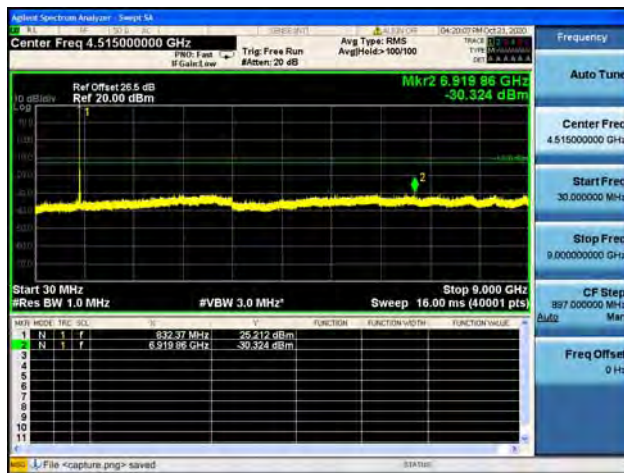
Band5 / 10MHz / Low CH / QPSK



Band5 / 10MHz / Low CH / 16QAM



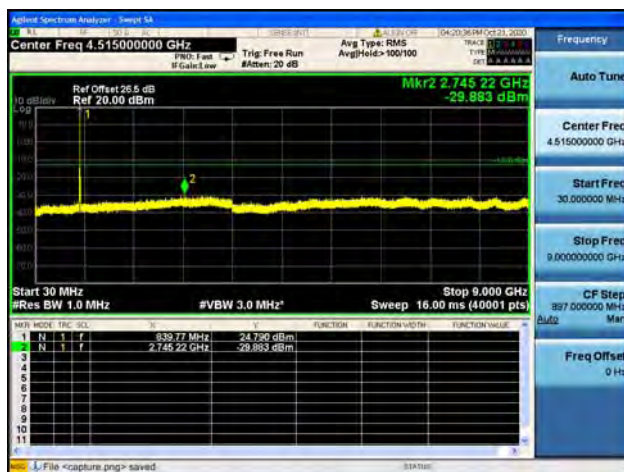
Band5 / 10MHz / Mid CH / QPSK



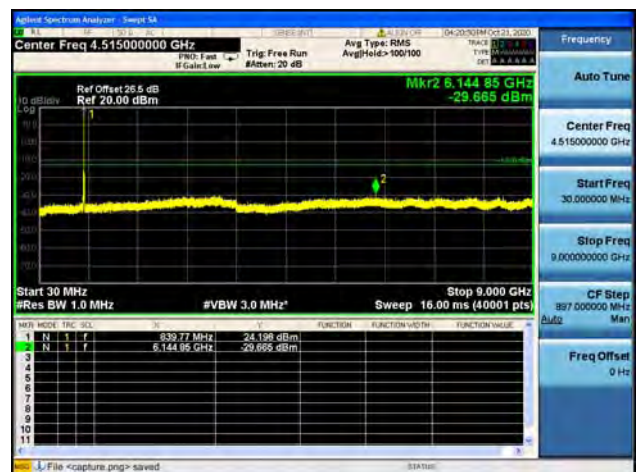
Band5 / 10MHz / Mid CH / 16QAM



Band5 / 10MHz / High CH / QPSK

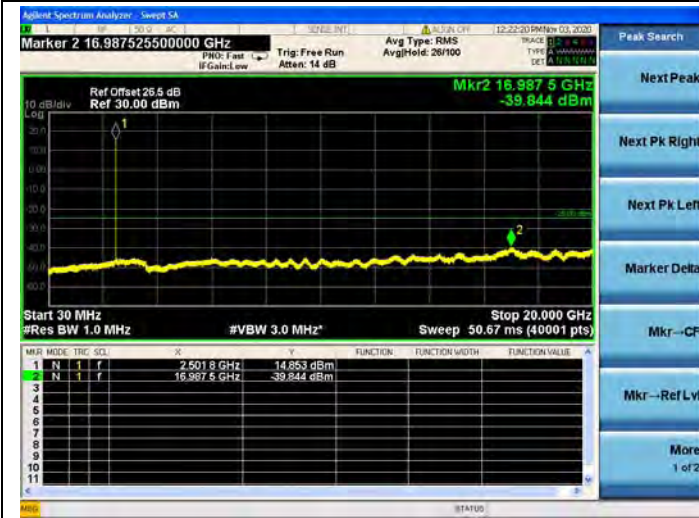


Band5 / 10MHz / High CH / 16QAM

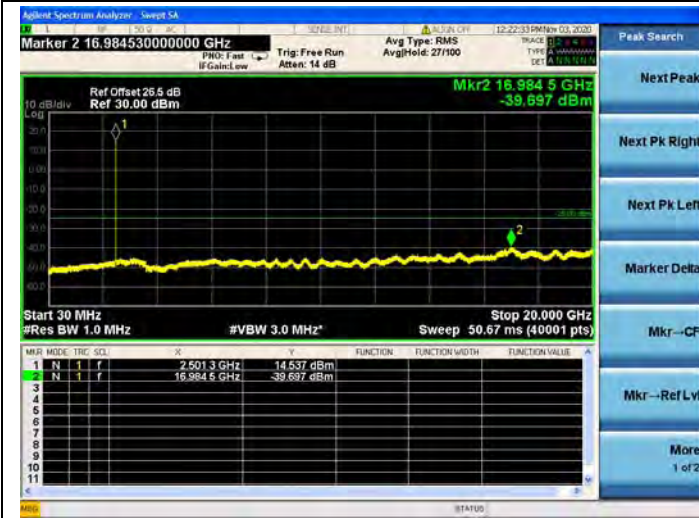




Band 7 / 5MHz / Low CH / QPSK

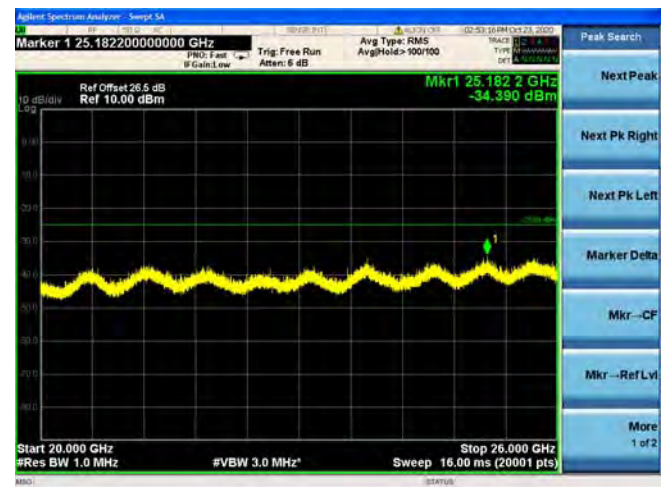
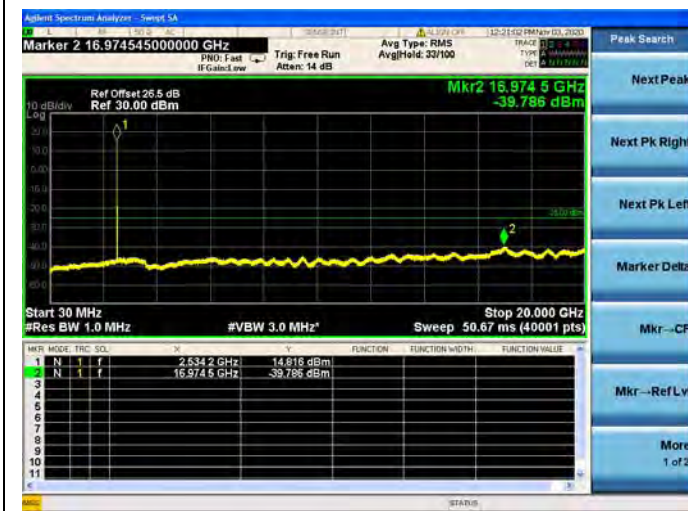


Band 7 / 5MHz / Low CH / 16QAM

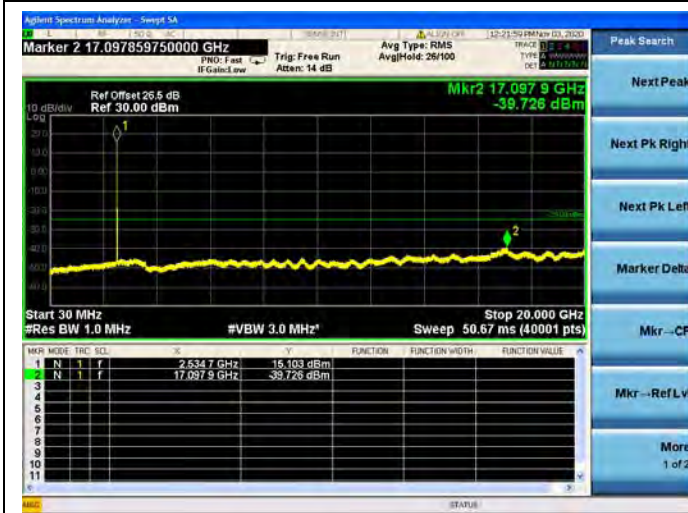




Band 7 / 5MHz / Mid CH / QPSK

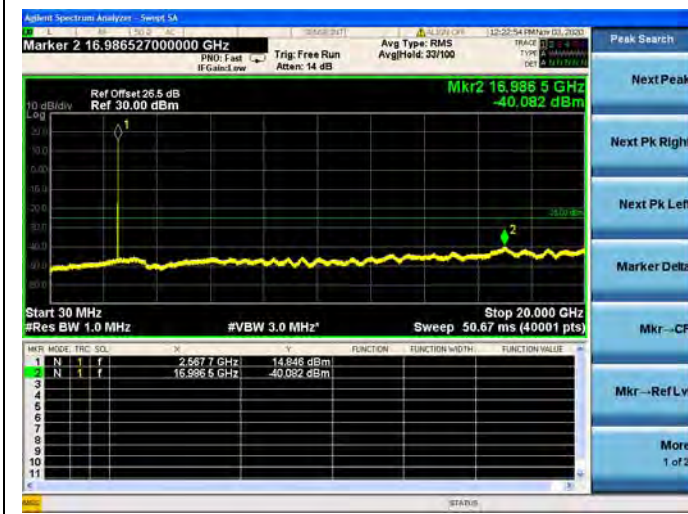


Band 7 / 5MHz / Mid CH / 16QAM

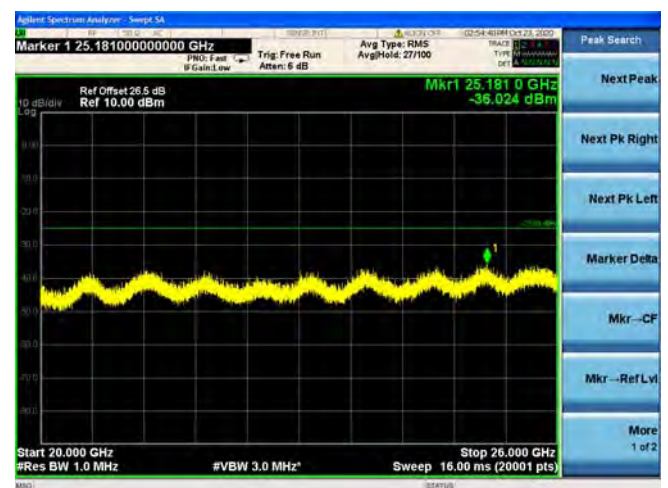
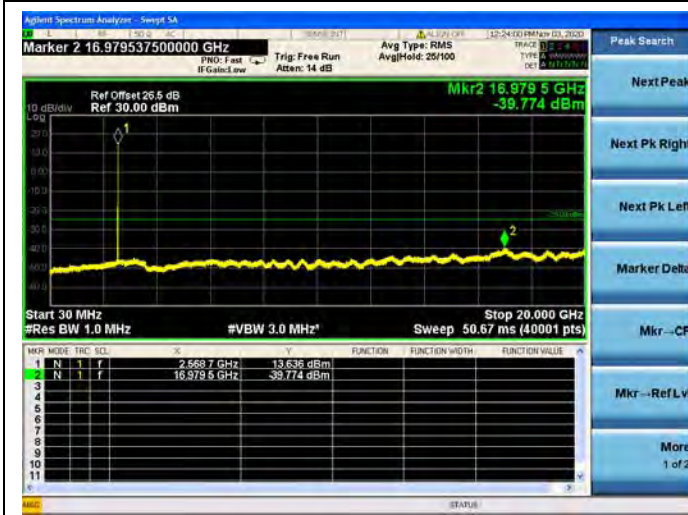




Band 7 / 5MHz / High CH / QPSK

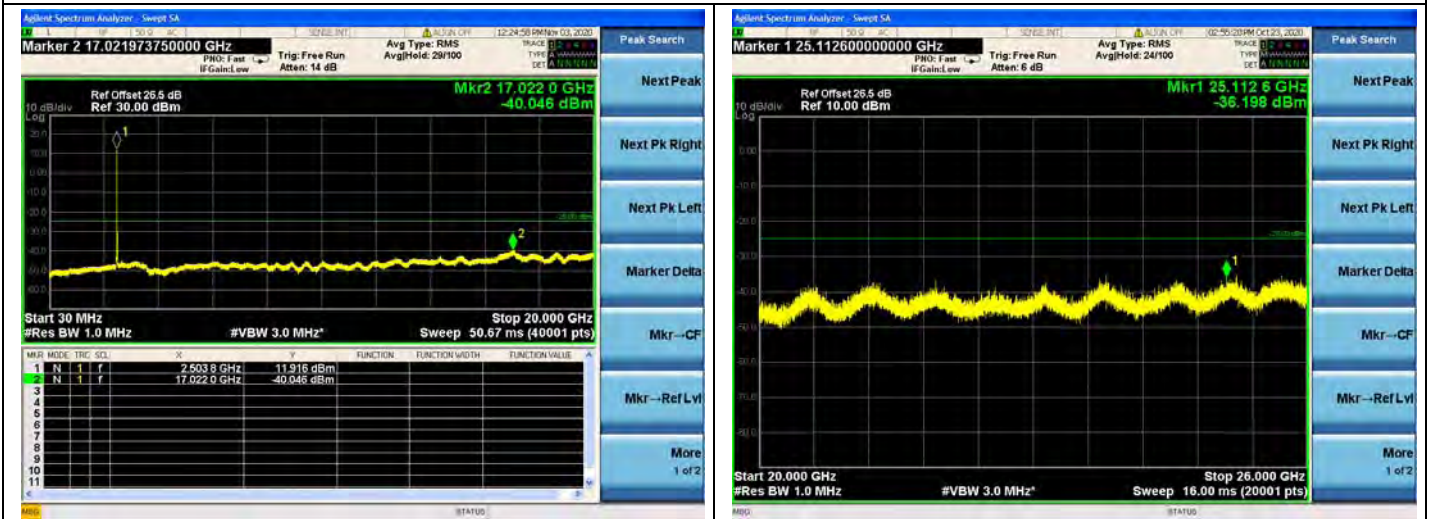


Band 7 / 5MHz / High CH / 16QAM

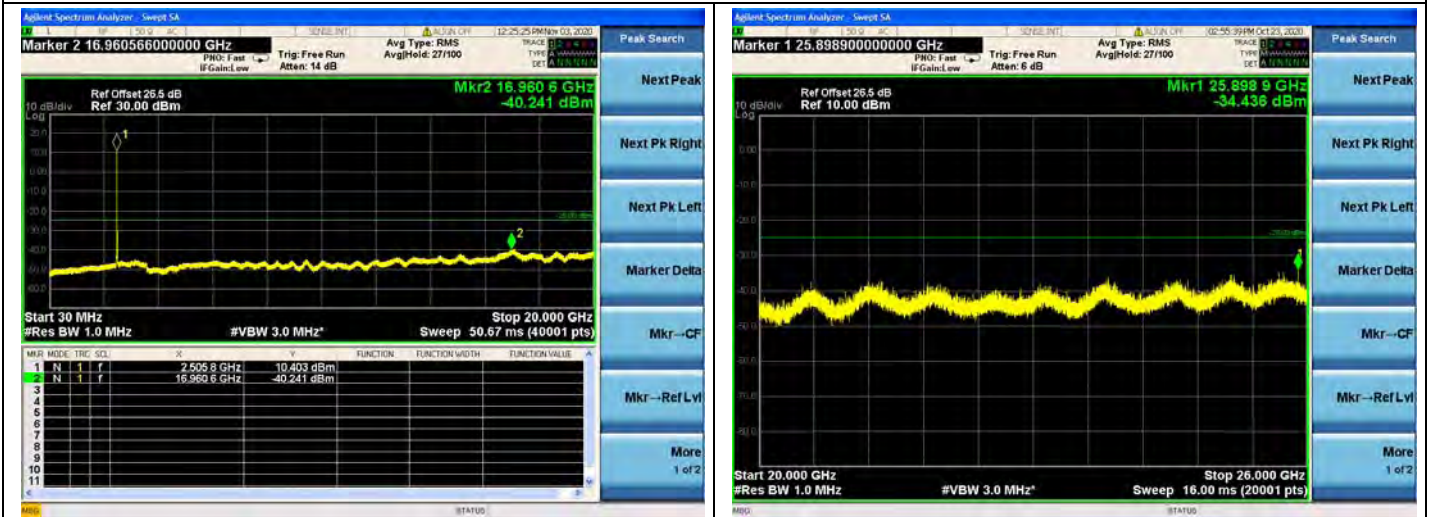




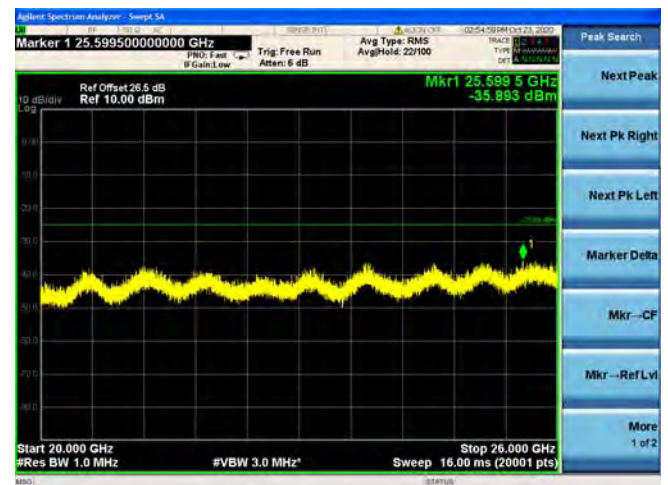
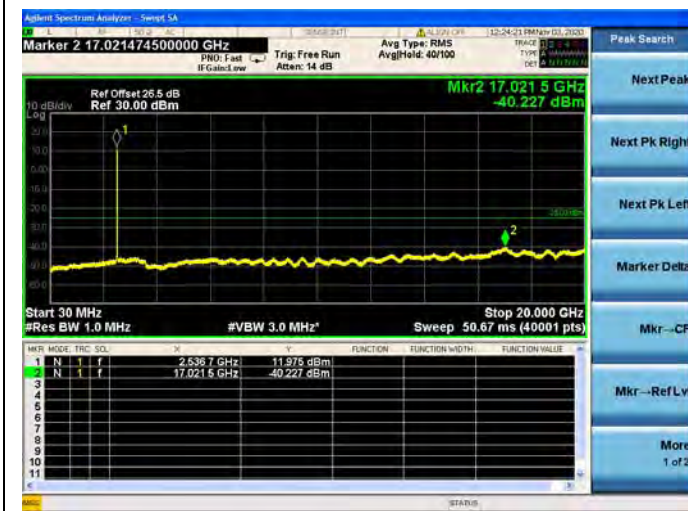
Band 7 / 10MHz / Low CH / QPSK



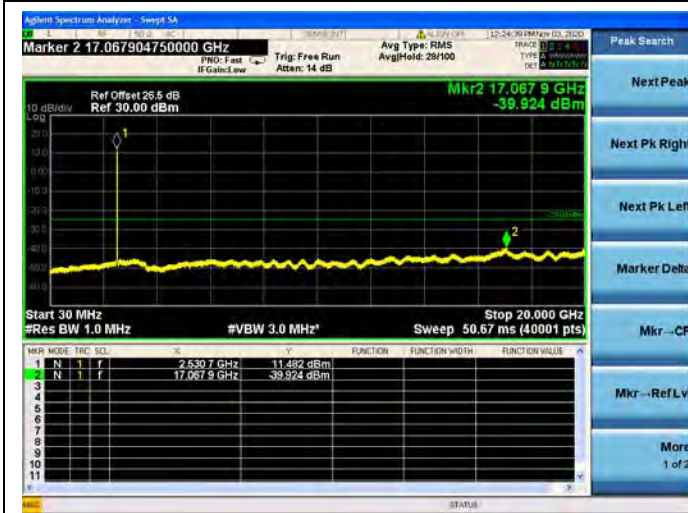
Band 7 / 10MHz / Low CH / 16QAM



Band 7 / 10MHz / Mid CH / QPSK

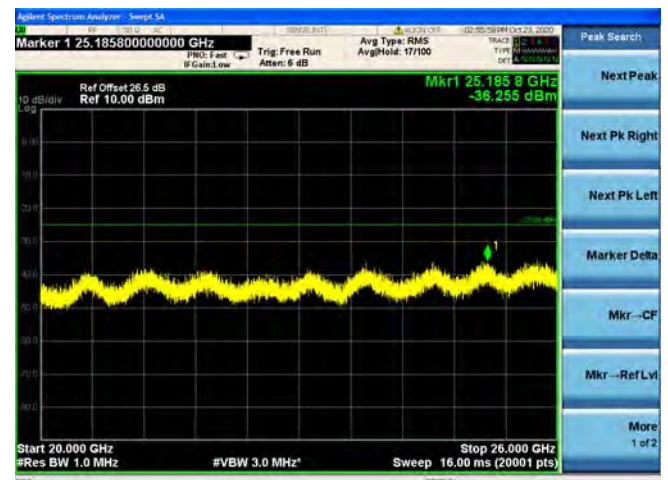
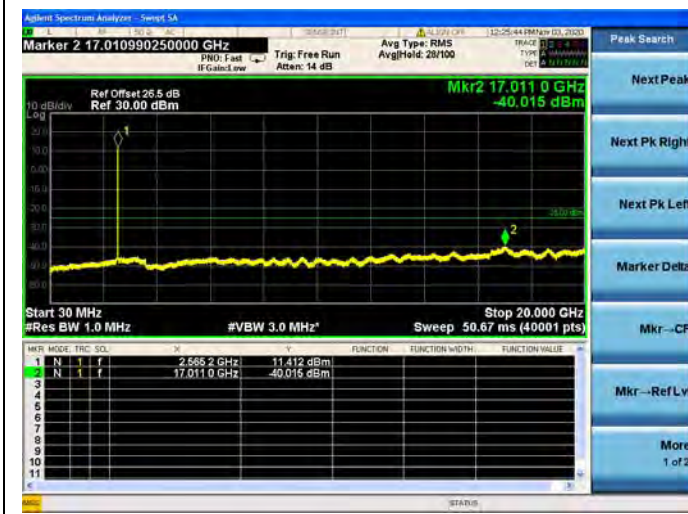


Band 7 / 10MHz / Mid CH / 16QAM

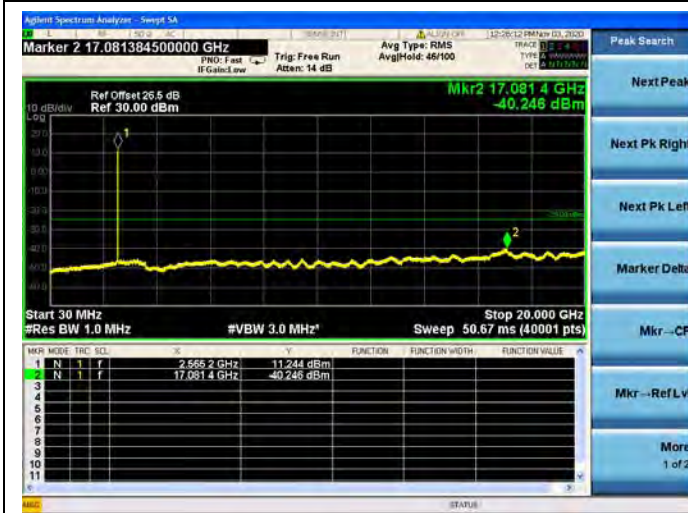




Band 7 / 10MHz / High CH / QPSK

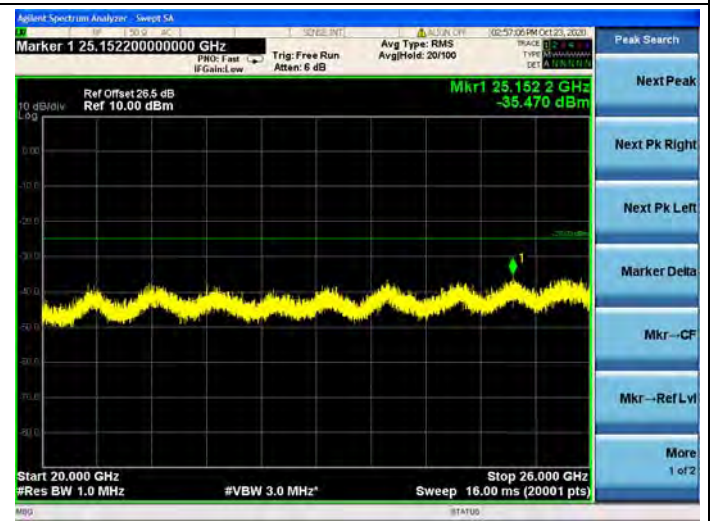
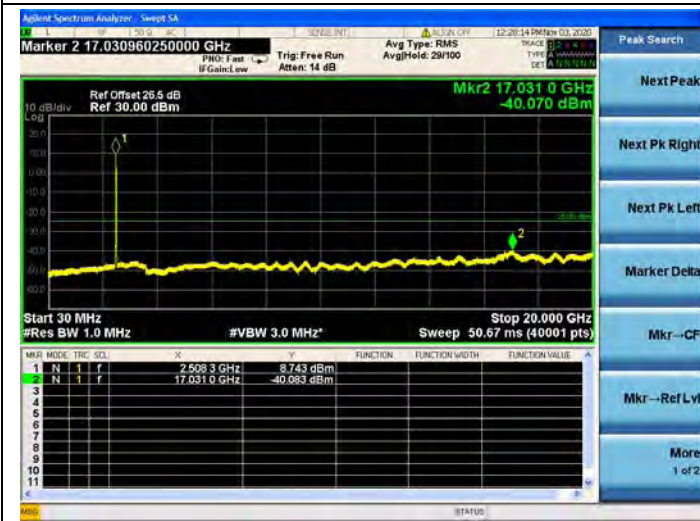


Band 7 / 10MHz / High CH / 16QAM

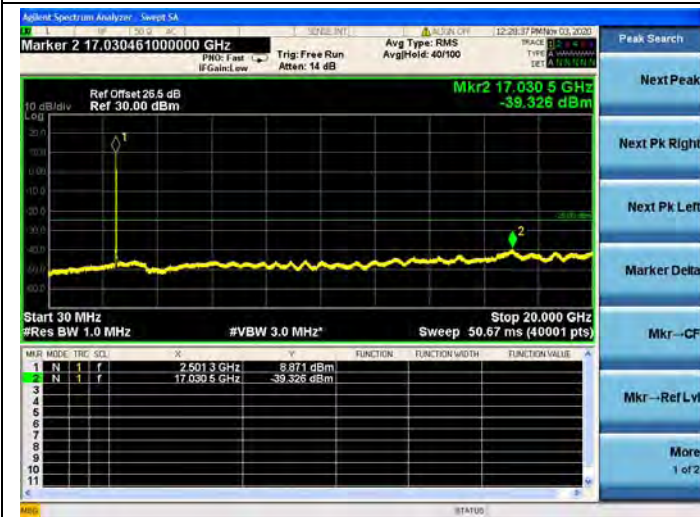




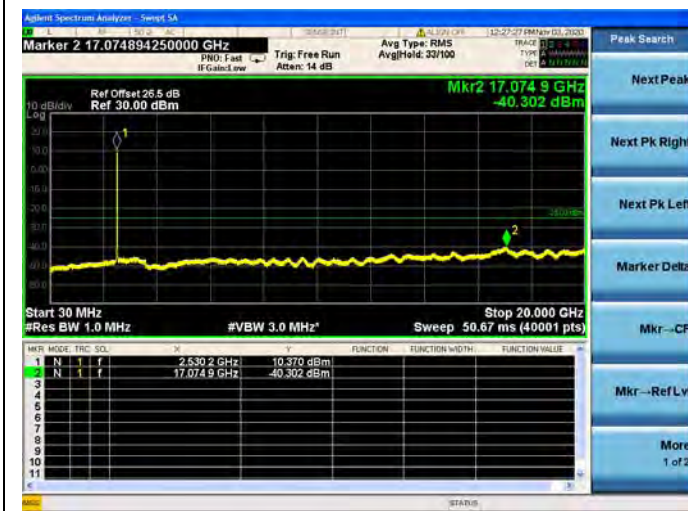
Band 7 / 15MHz / Low CH / QPSK



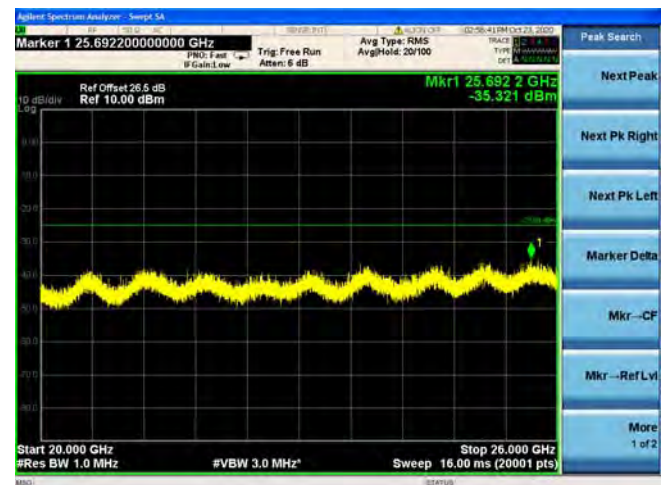
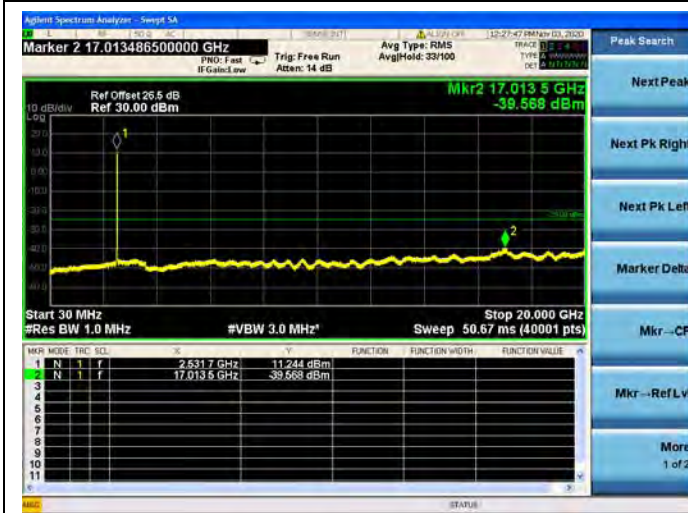
Band 7 / 15MHz / Low CH / 16QAM



Band 7 / 15MHz / Mid CH / QPSK

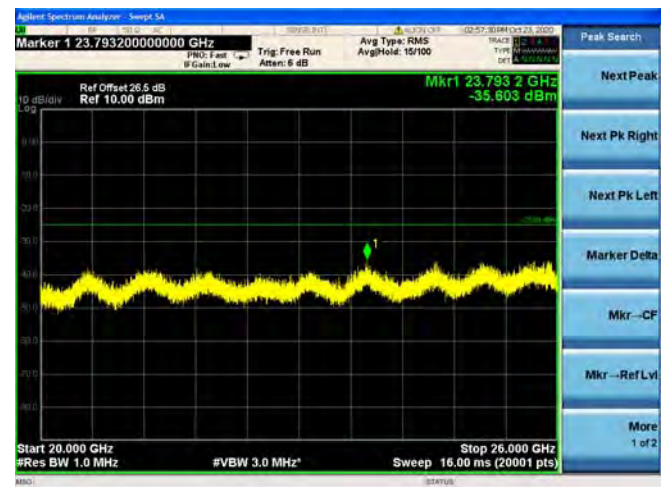
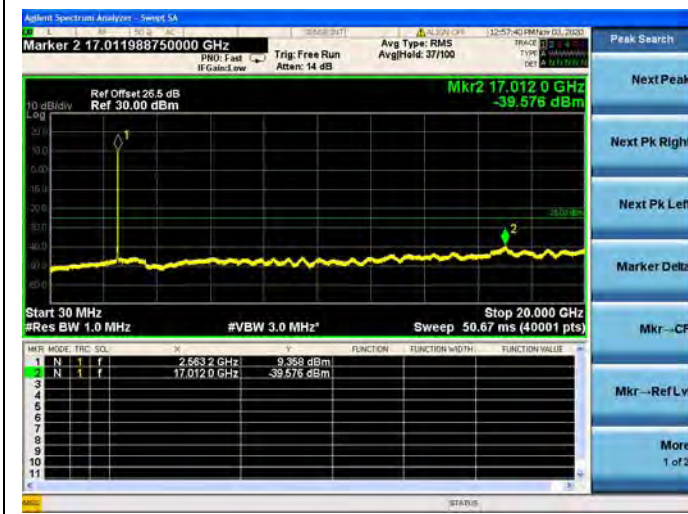


Band 7 / 15MHz / Mid CH / 16QAM

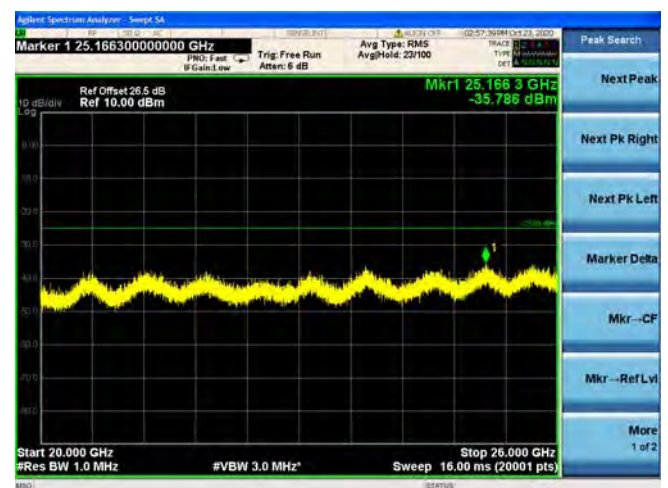
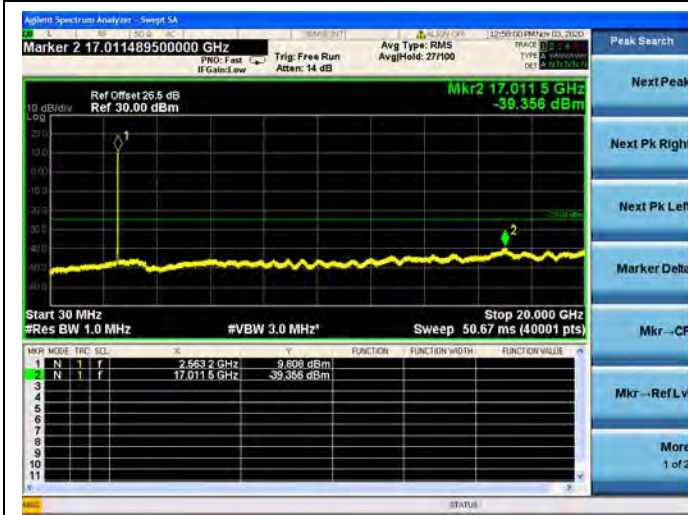




Band 7 / 15MHz / High CH / QPSK

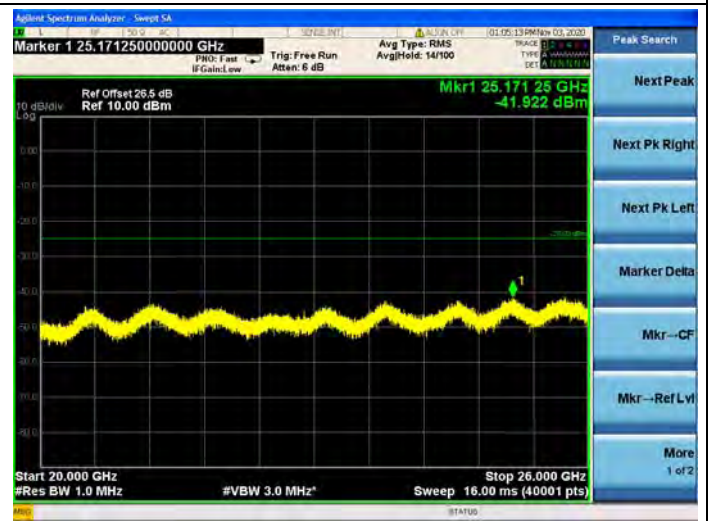
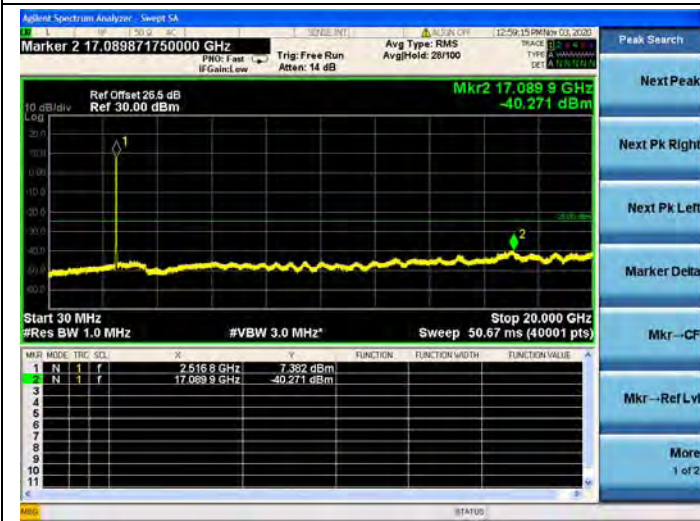


Band 7 / 15MHz / High CH / 16QAM

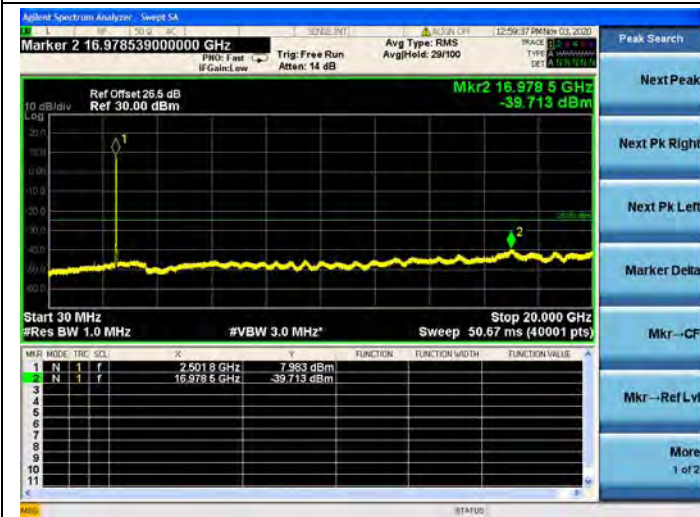




Band 7 / 20MHz / Low CH / QPSK

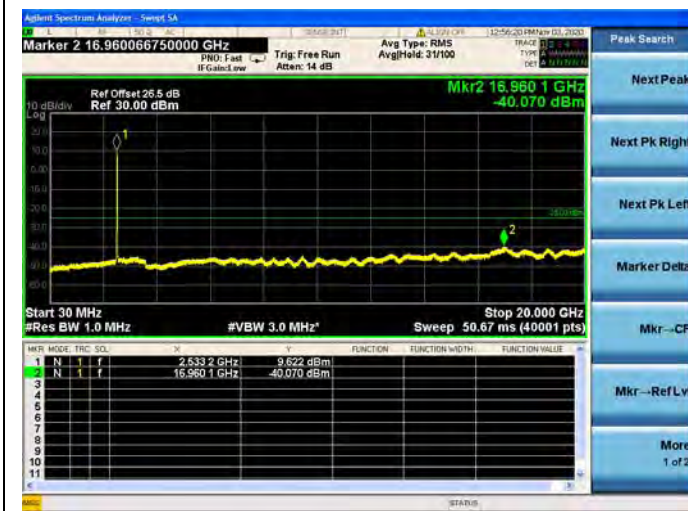


Band 7 / 20MHz / Low CH / 16QAM

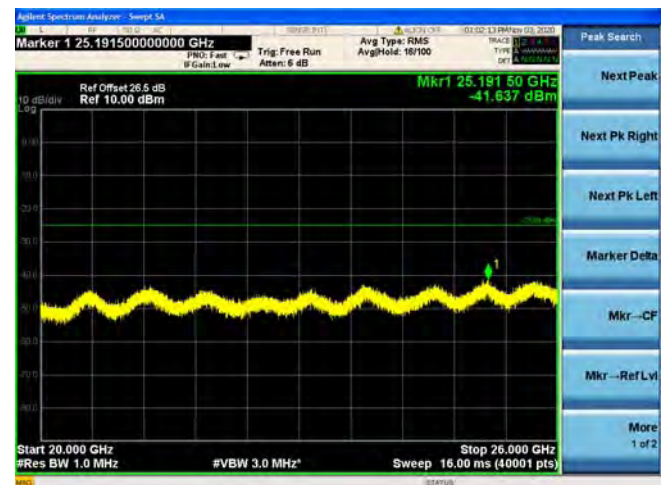
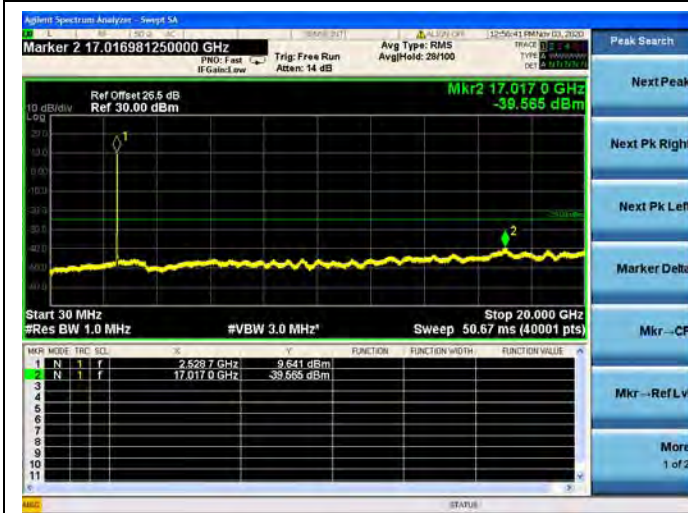




Band 7 / 20MHz / Mid CH / QPSK

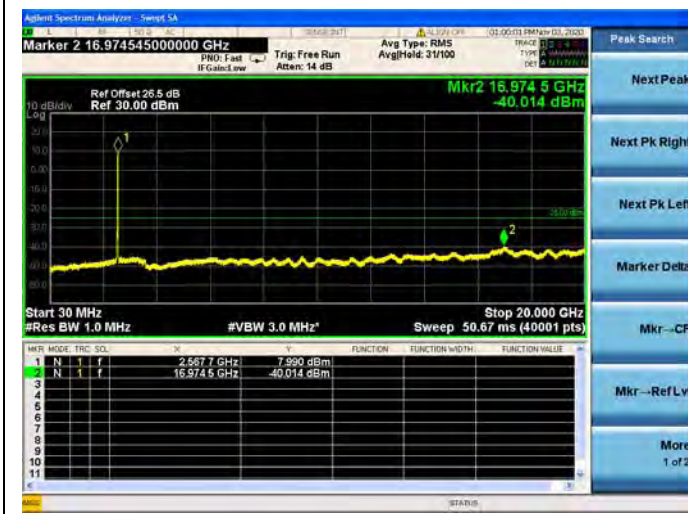


Band 7 / 20MHz / Mid CH / 16QAM

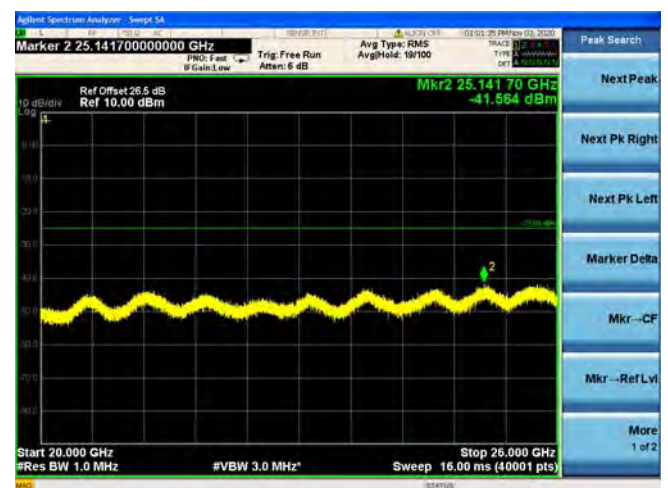
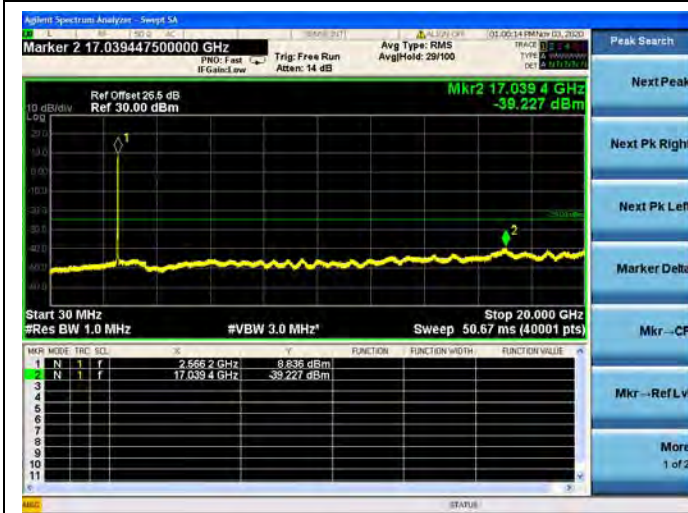




Band 7 / 20MHz / High CH / QPSK



Band 7 / 20MHz / High CH / 16QAM

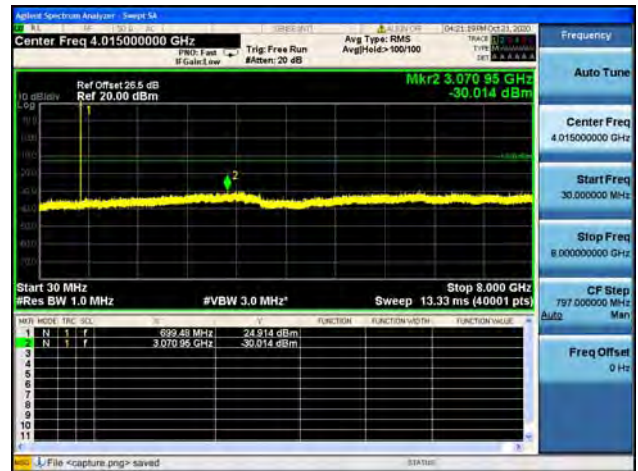




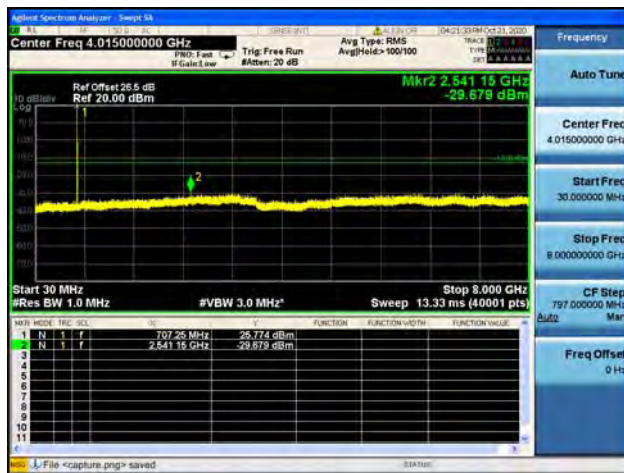
Band12 / 1.4MHz / Low CH / QPSK



Band12 / 1.4MHz / Low CH / 16QAM



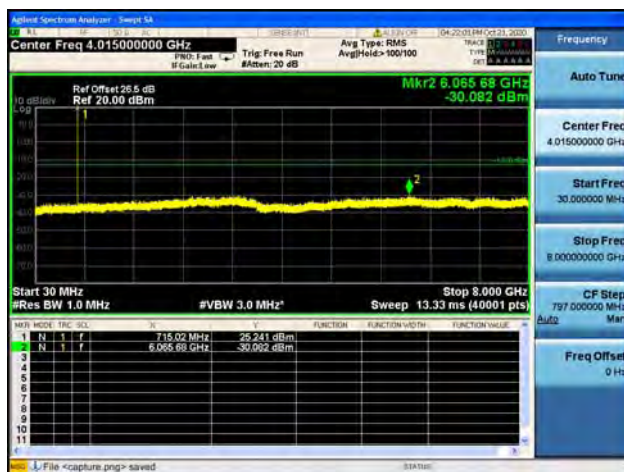
Band12 / 1.4MHz / Mid CH / QPSK



Band12 / 1.4MHz / Mid CH / 16QAM



Band12 / 1.4MHz / High CH / QPSK



Band12 / 1.4MHz / High CH / 16QAM

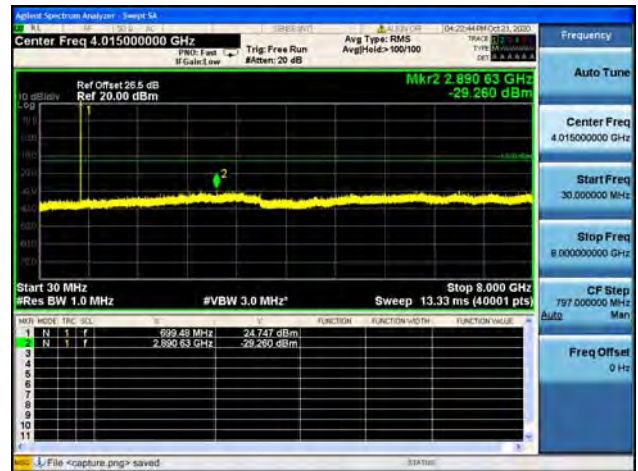




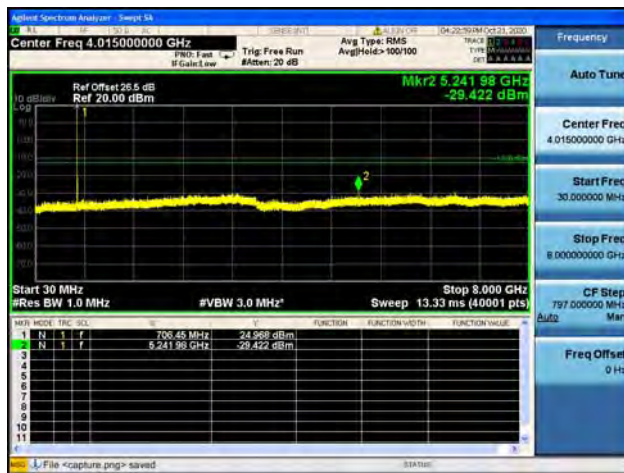
Band12 / 3MHz / Low CH / QPSK



Band12 / 3MHz / Low CH / 16QAM



Band12 / 3MHz / Mid CH / QPSK



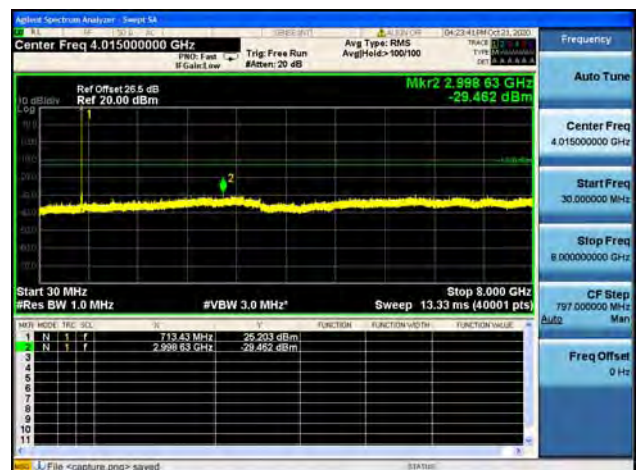
Band12 / 3MHz / Mid CH / 16QAM



Band12 / 3MHz / High CH / QPSK

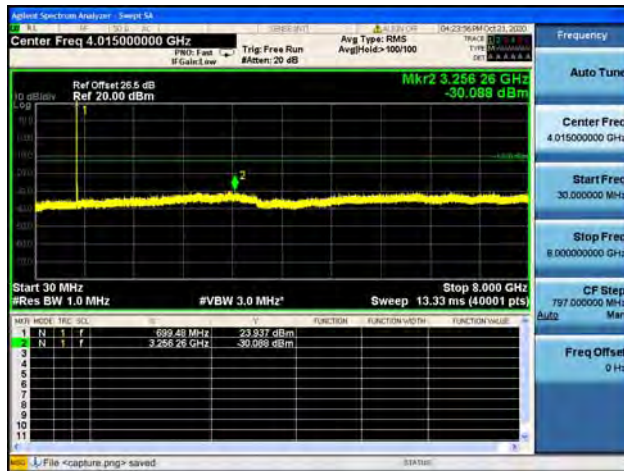


Band12 / 3MHz / High CH / 16QAM

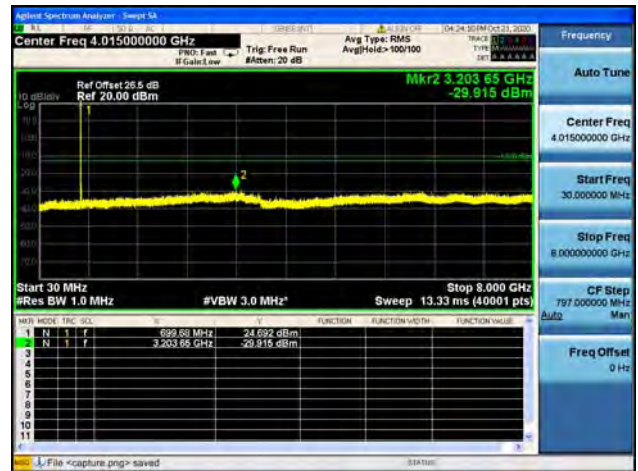




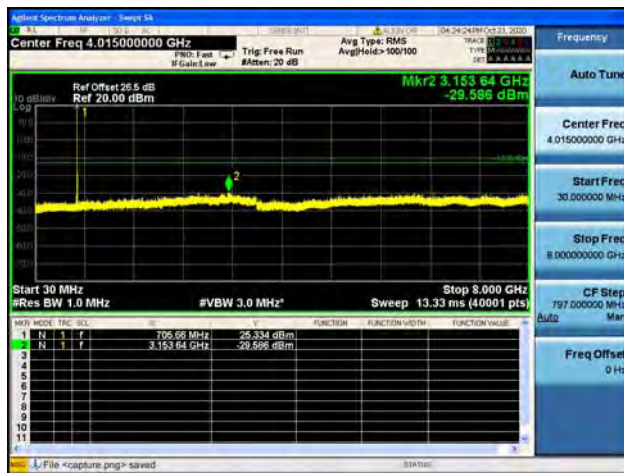
Band12 / 5MHz / Low CH / QPSK



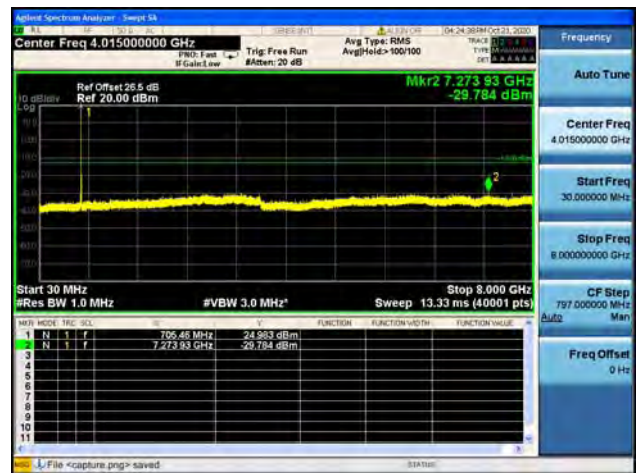
Band12 / 5MHz / Low CH / 16QAM



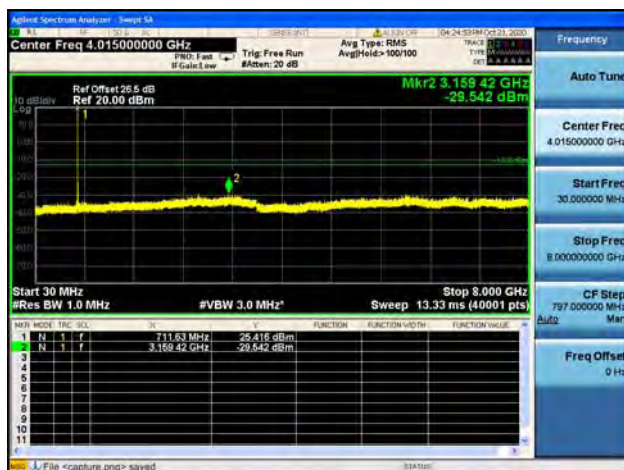
Band12 / 5MHz / Mid CH / QPSK



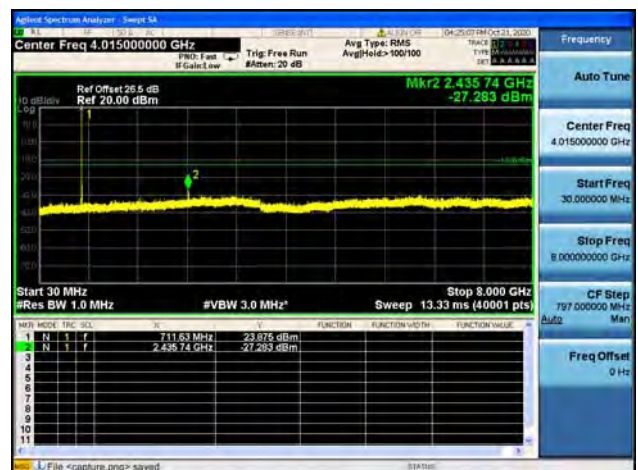
Band12 / 5MHz / Mid CH / 16QAM



Band12 / 5MHz / High CH / QPSK

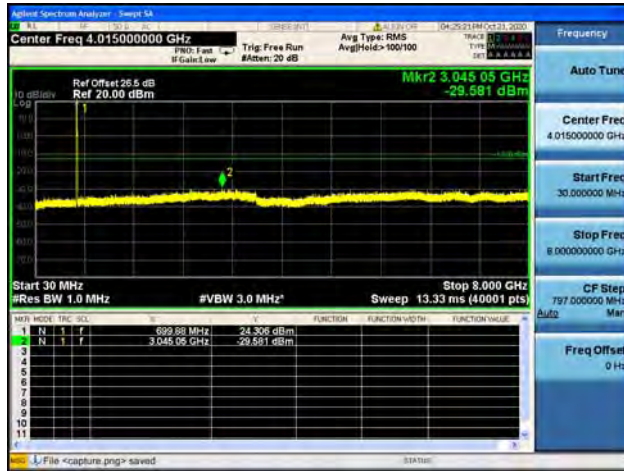


Band12 / 5MHz / High CH / 16QAM

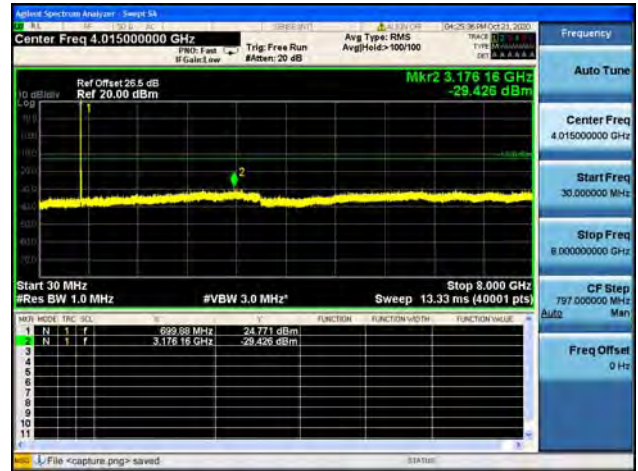




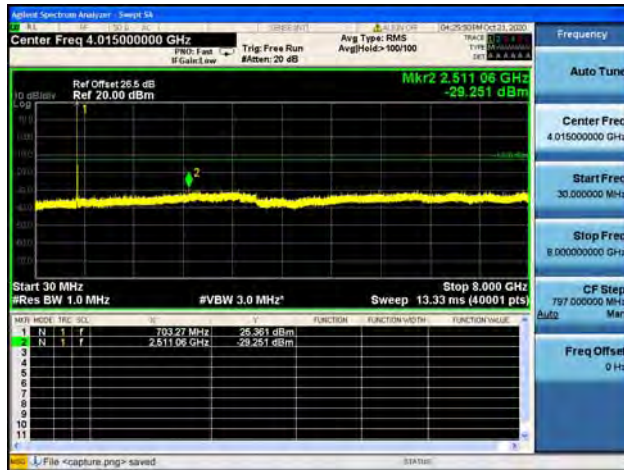
Band12 / 10MHz / Low CH / QPSK



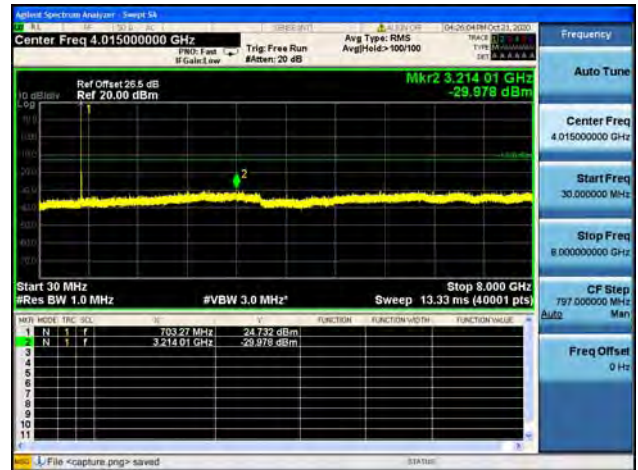
Band12 / 10MHz / Low CH / 16QAM



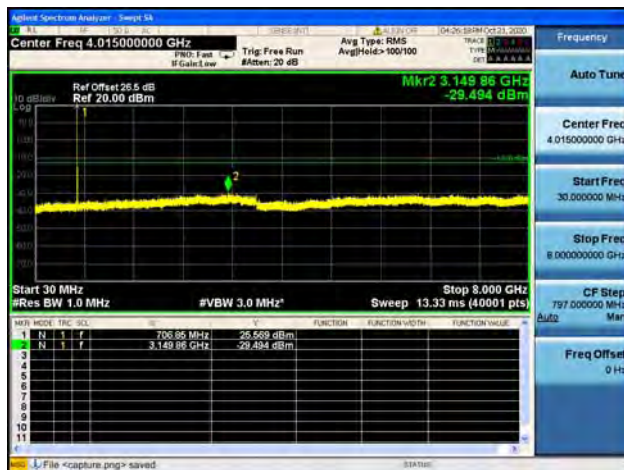
Band12 / 10MHz / Mid CH / QPSK



Band12 / 10MHz / Mid CH / 16QAM



Band12 / 10MHz / High CH / QPSK



Band12 / 10MHz / High CH / 16QAM

