

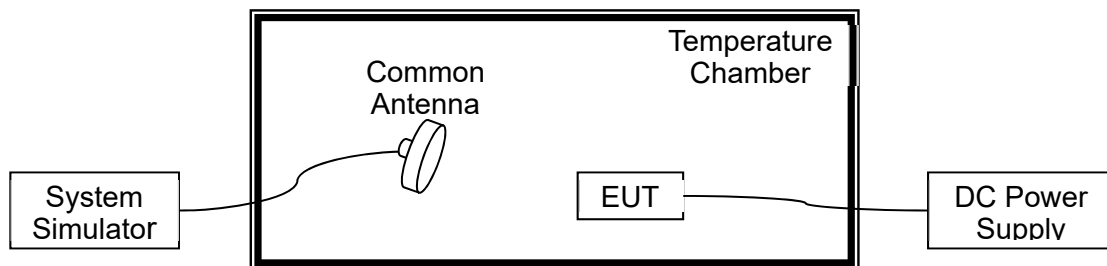
2.3. Frequency Stability

2.3.1. Requirement

According to FCC section 2.1055 & 27.54&24.235, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. According to FCC section 2.1055, the test conditions are:

- (a) The temperature is varied from -10°C to $+45^{\circ}\text{C}$ at intervals of not more than 10°C .
- (b) For hand carried battery powered equipment, the primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacture. The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

2.3.2. Test Description



The EUT which is powered by the DC Power Supply directly, is located in the Temperature Chamber. The EUT is commanded by the System Simulator (SS) to operate at the maximum output power. A call is established between the EUT and the SS via a Common Antenna.

2.3.3. Test procedure

KDB 971168 D01v03 Section 9.0 and ANSI/TIA-603-E-2016.

2.3.4. Test Result

The nominal, highest and lowest extreme voltages are separately 3.85VDC, 4.2VDC and 3.6VDC, which are specified by the applicant; the normal temperature here used is 20°C .



NR Band n41, QPSK, Channel 518598, Frequency 2592.99MHz					
Limit=±2.5ppm					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
100	3.87	+20 (Ref)	312	0.120	PASS
100		-10	-188	-0.073	
100		-5	795	0.307	
100		0	321	0.124	
100		+5	-181	-0.070	
100		+10	-383	-0.148	
100		+20	677	0.261	
100		+30	721	0.278	
100		+40	739	0.285	
100		+45	-285	-0.110	
115		4.45	+20	-319	
85	3.3	+20	739	0.285	

2.4. Conducted Spurious Emissions

2.4.1. 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.

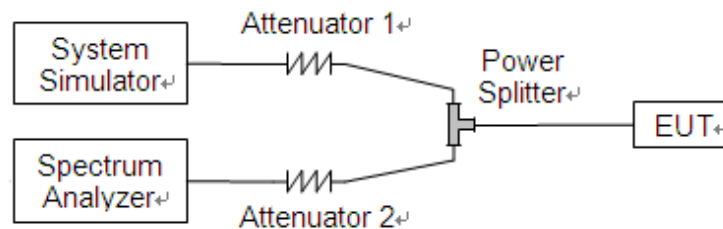
Additional requirement for LTE Band 7/38/41:

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 30/40:

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.

2.4.2. 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 50 Ohm; 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.



REPORT No.: SZ20010191W05

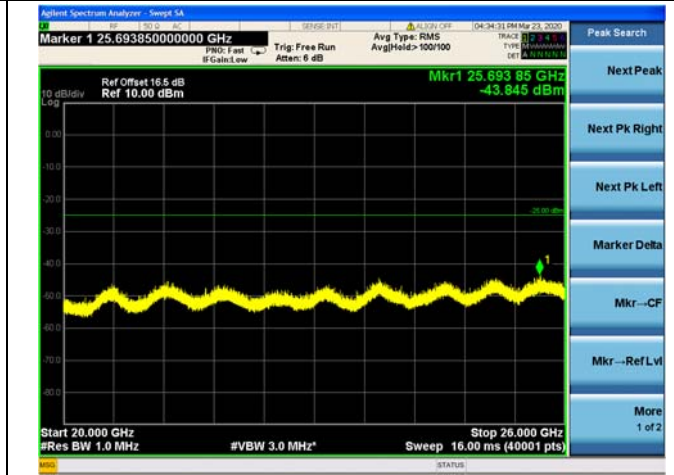
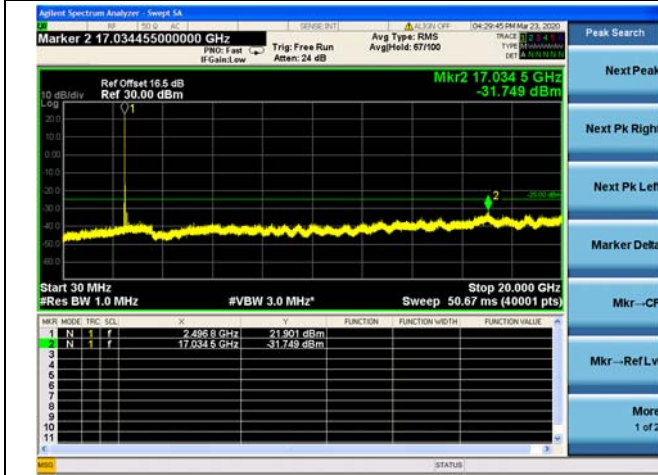
2.4.3. Test procedure

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

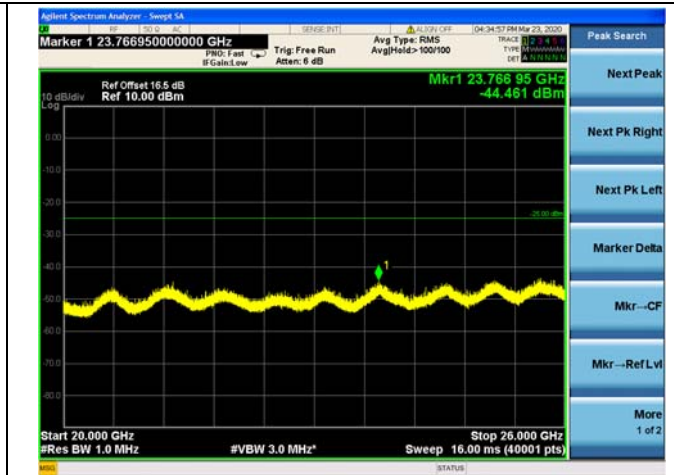
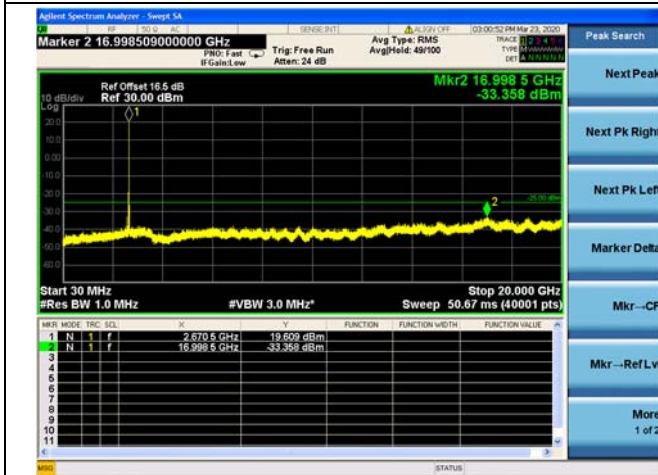
2.4.4. Test Result



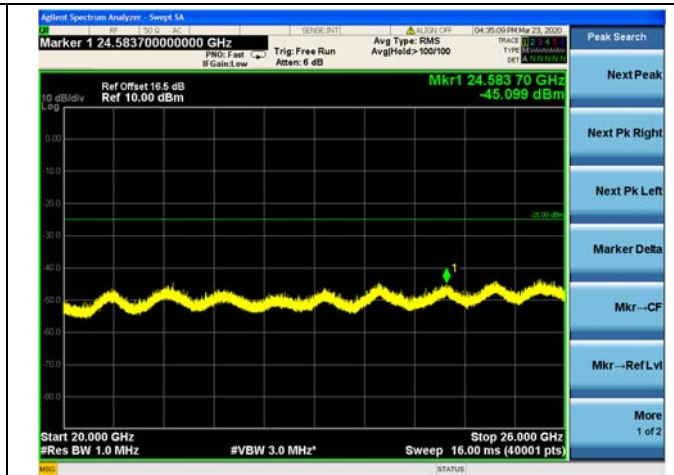
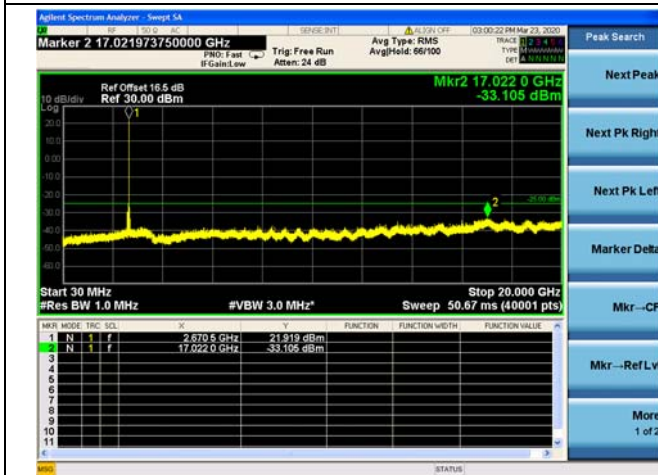
NR Band n41 (DFT-s-OFDM) CSE
20MHz/ PI/2 BPSK / Low CH



20MHz/ QPSK / Low CH

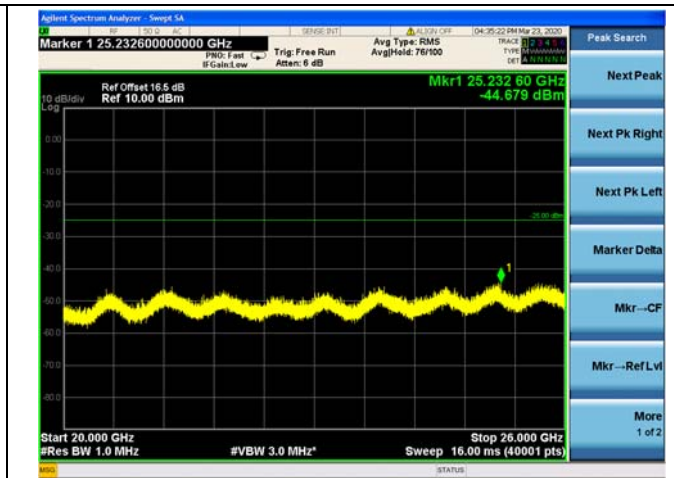
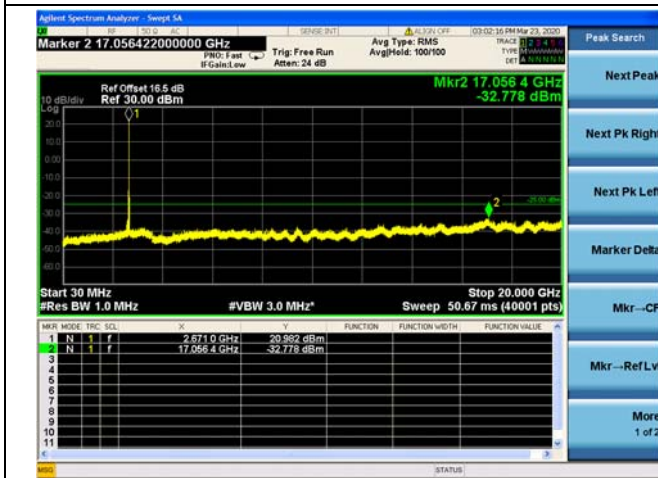


20MHz/ 16QAM/ Low CH

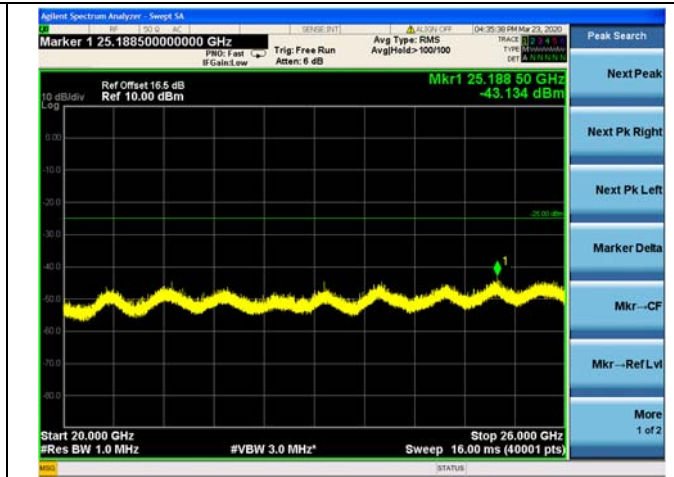
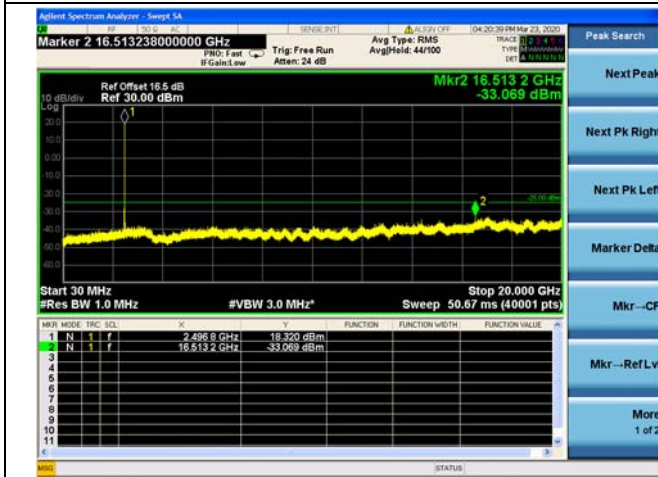




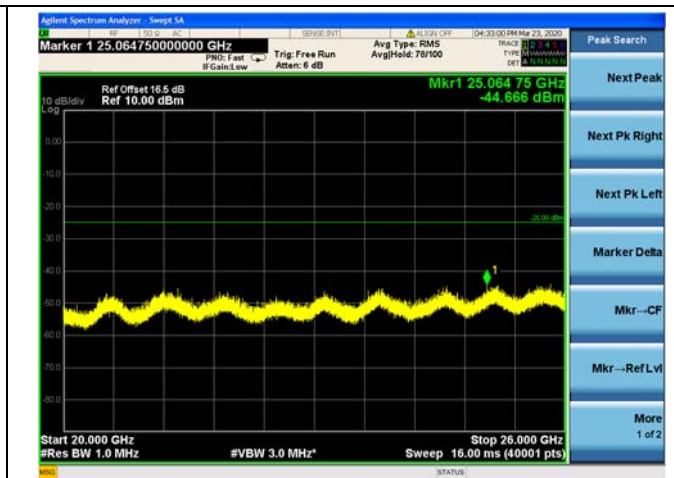
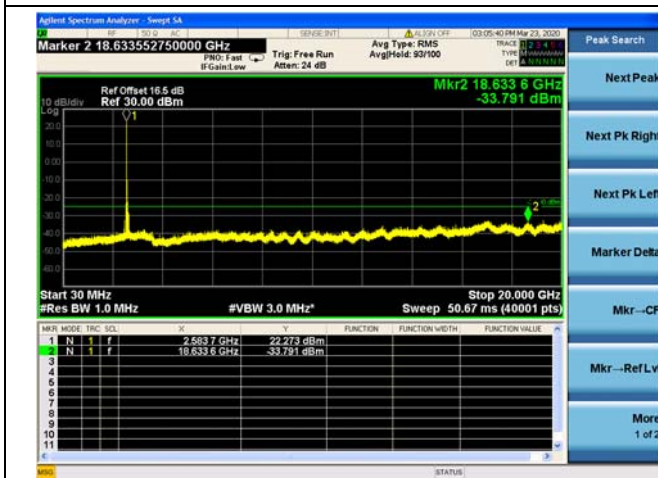
20MHz/ 64QAM / Low CH



20MHz/ 256QAM/ Low CH

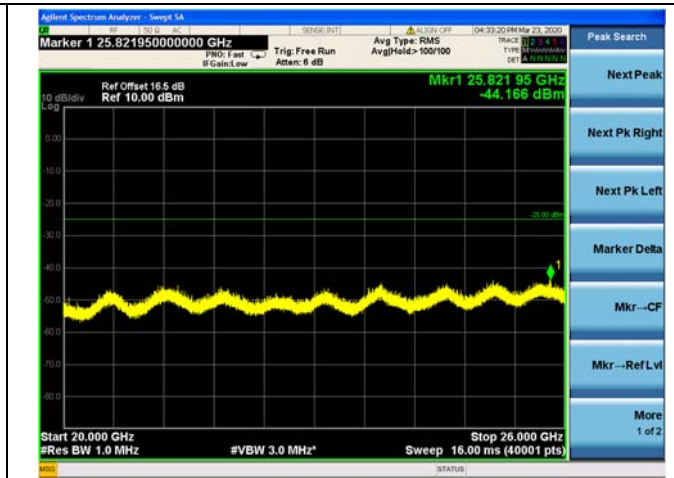
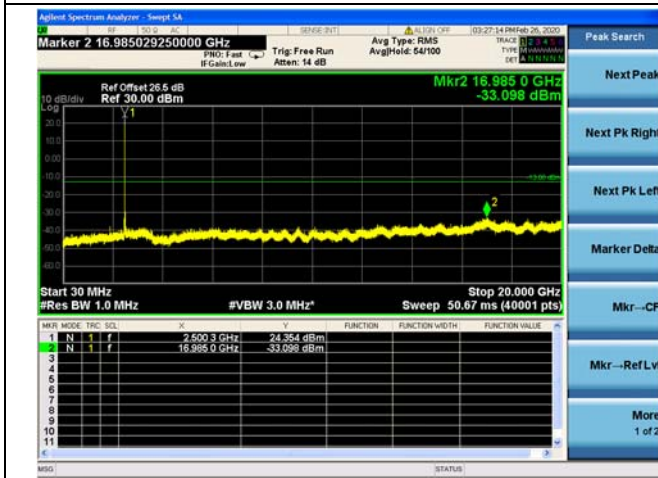


20MHz/ PI/2 BPSK / Mid CH

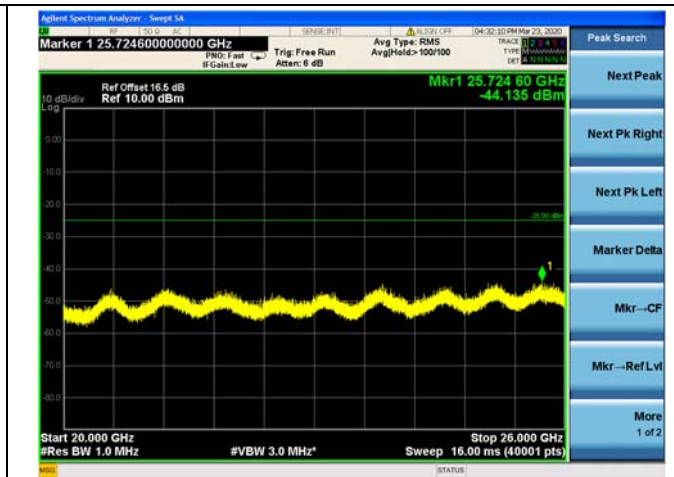
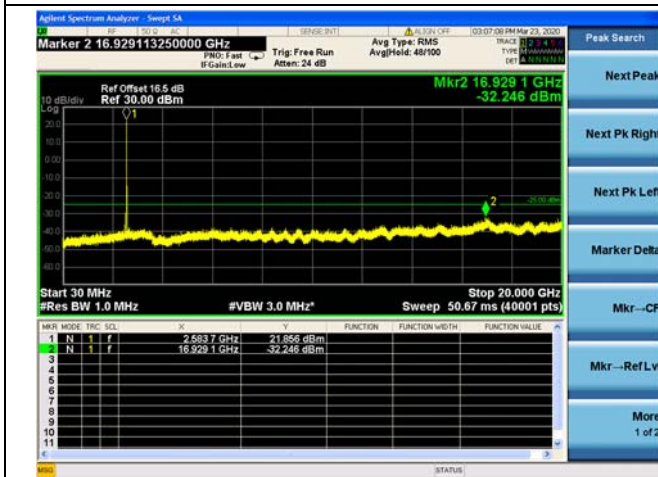




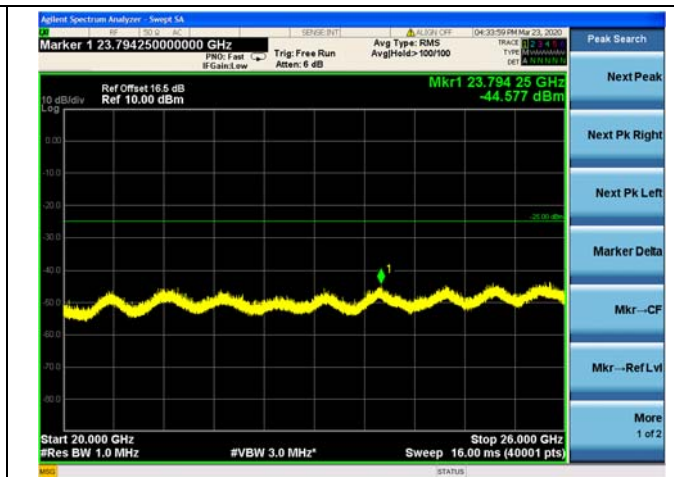
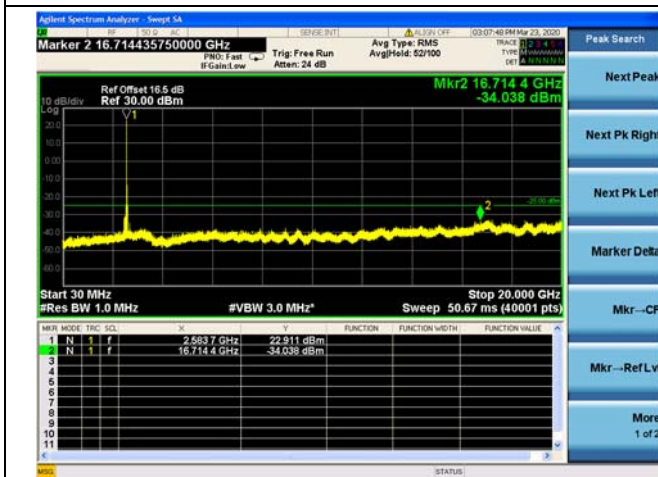
20MHz/ QPSK / Mid CH



20MHz/ 16QAM/ Mid CH

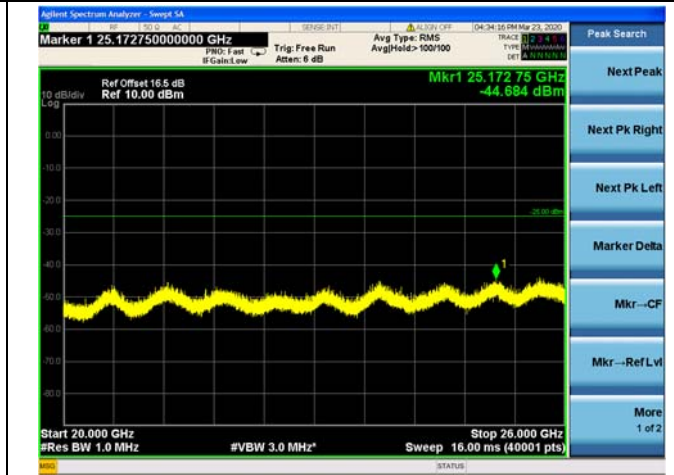
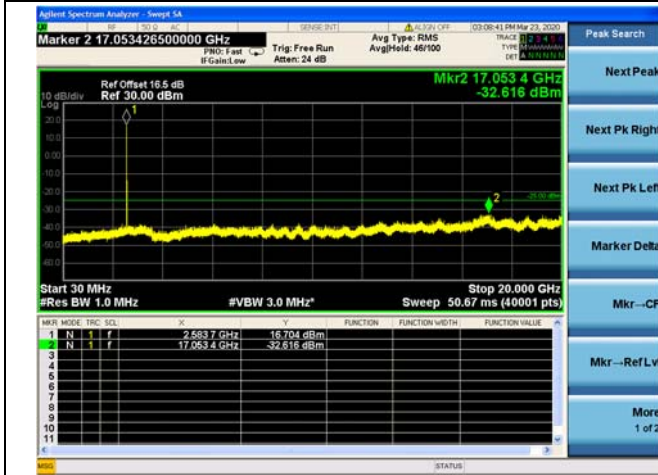


20MHz/ 64QAM / Mid CH

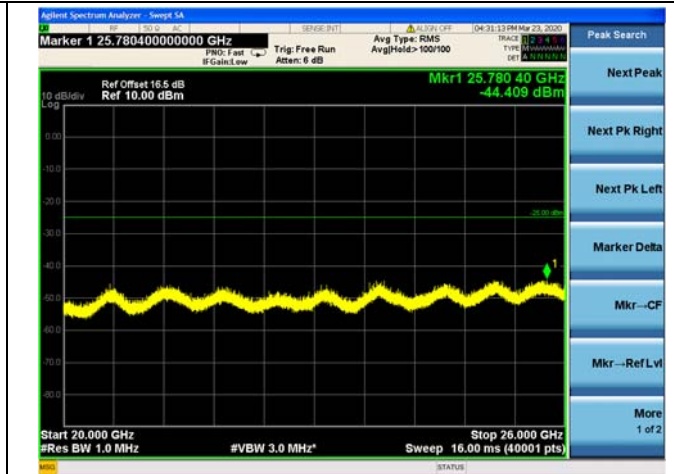
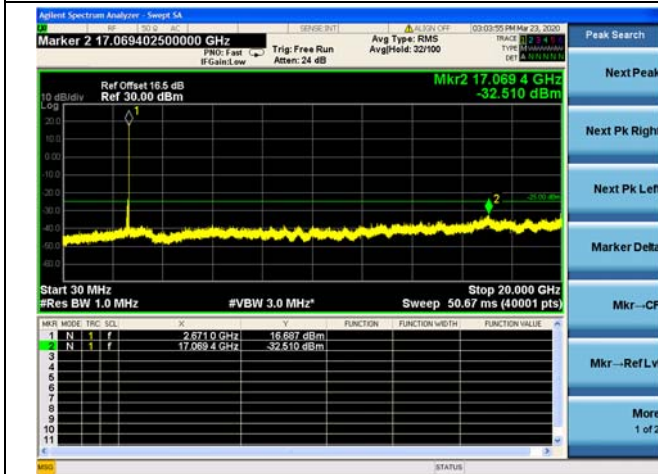




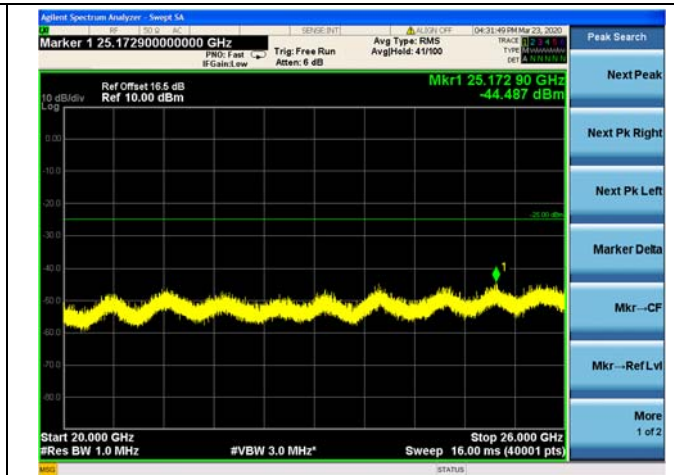
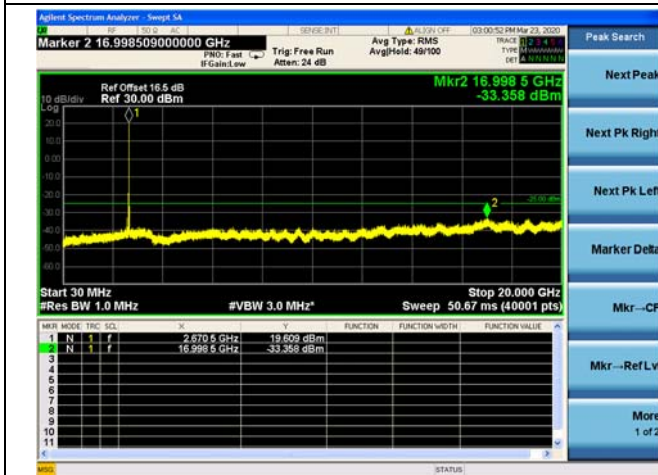
20MHz/ 256QAM/ Mid CH



20MHz/ PI/2 BPSK / High CH

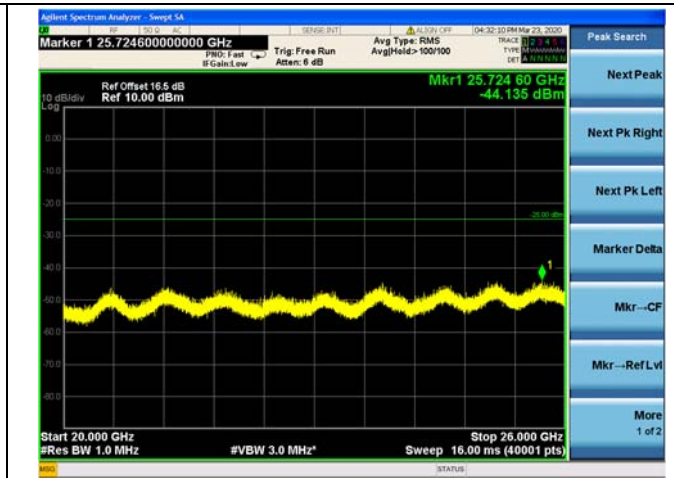
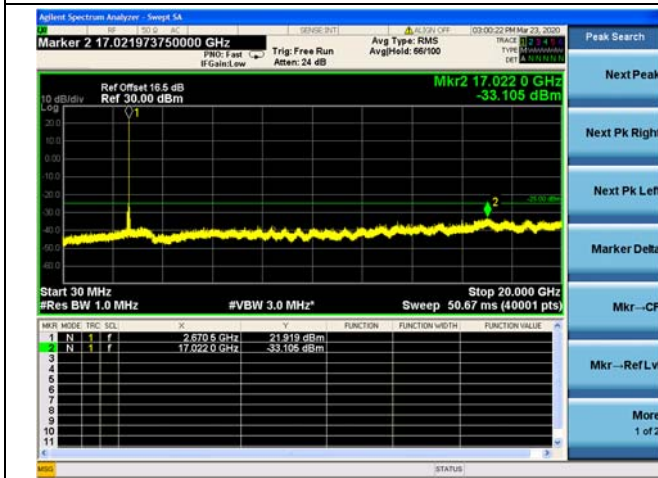


20MHz/ QPSK / High CH

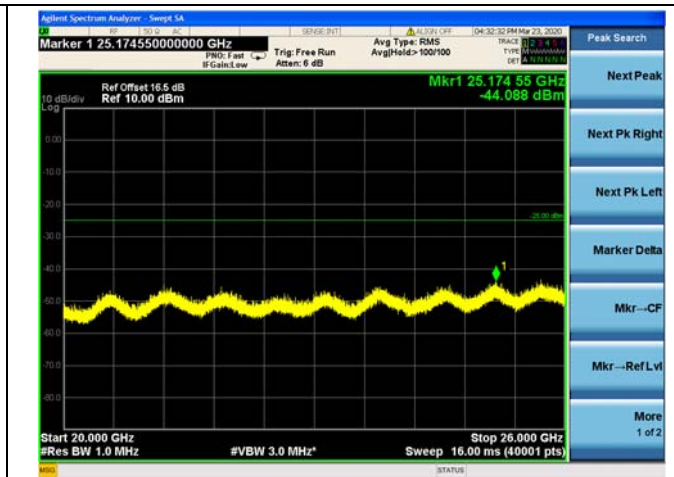
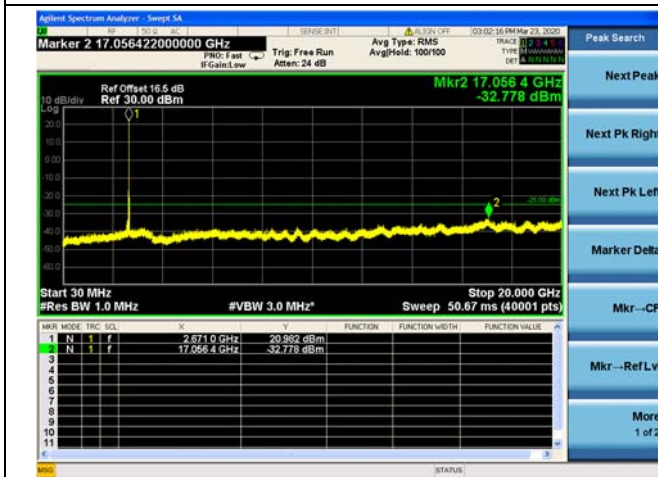




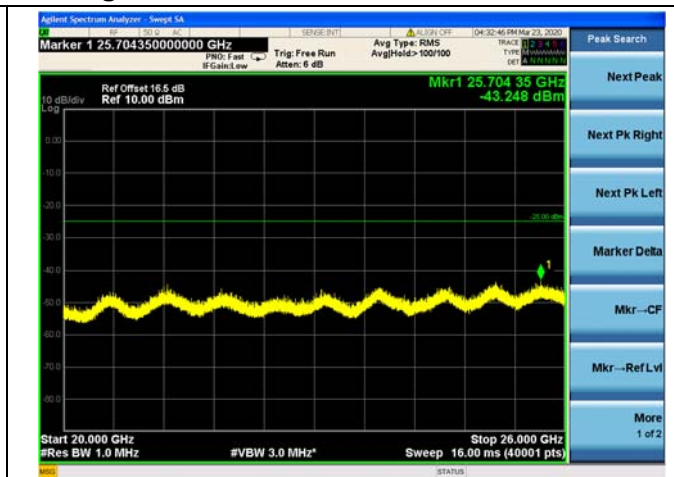
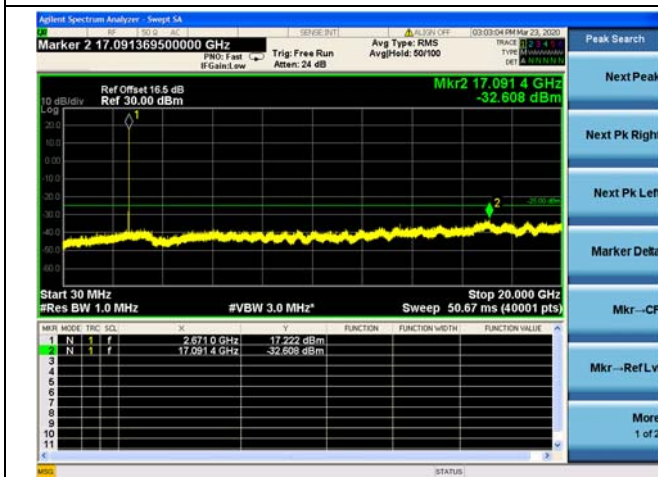
20MHz/ 16QAM/ High CH



20MHz/ 64QAM / High CH

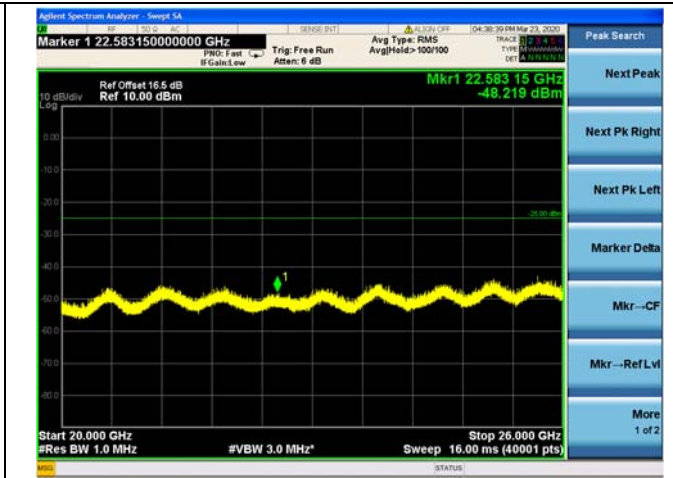
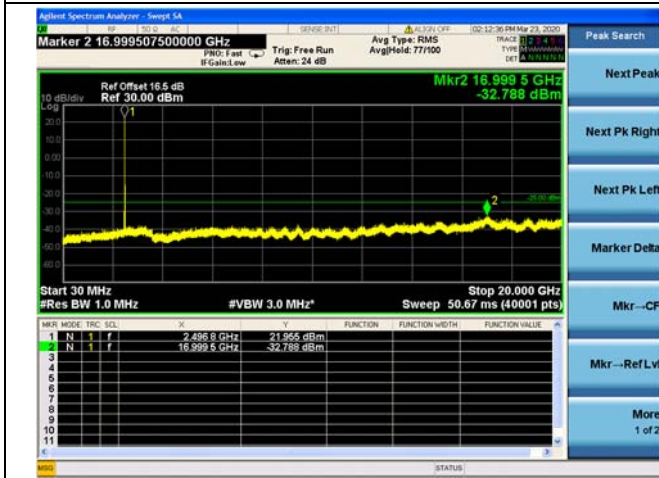


20MHz/ 256QAM/ High CH

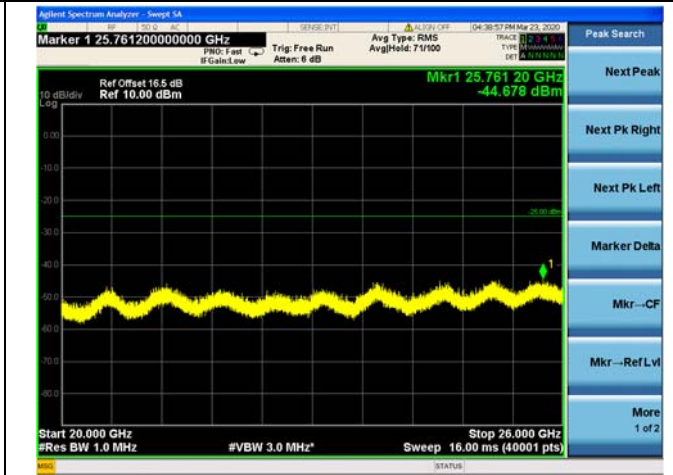
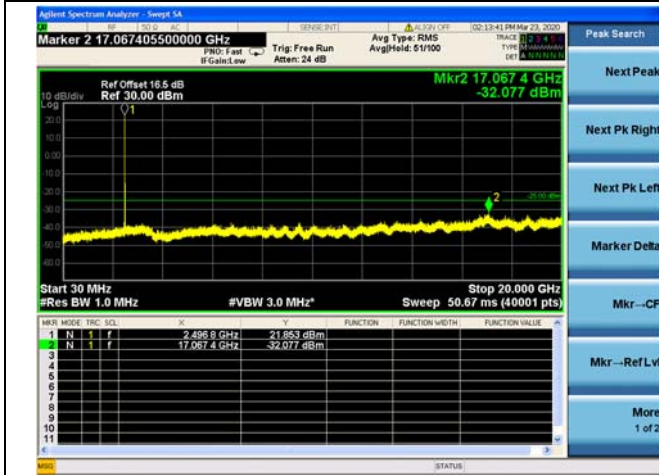




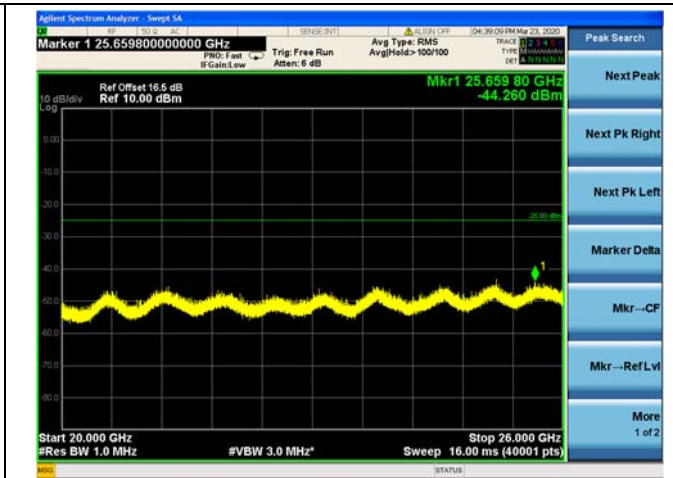
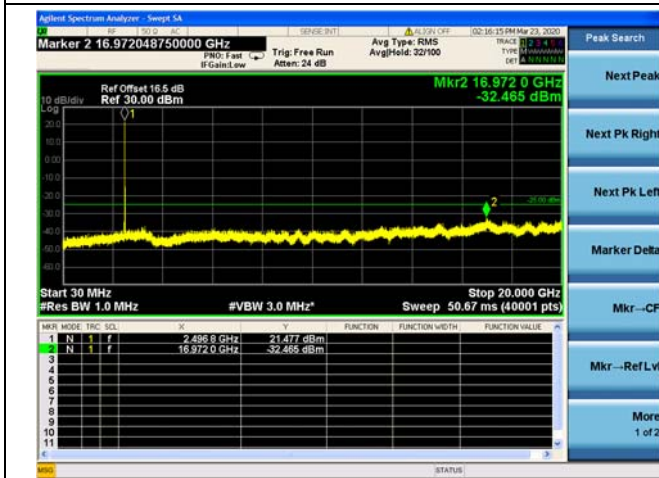
40MHz/ PI/2 BPSK / Low CH



40MHz/ QPSK / Low CH

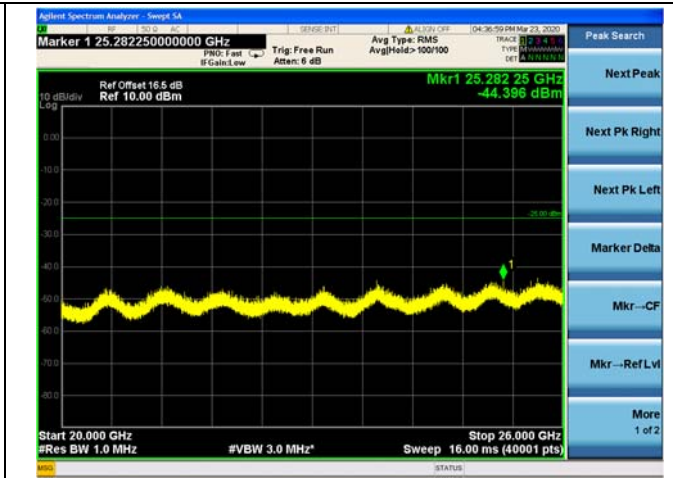
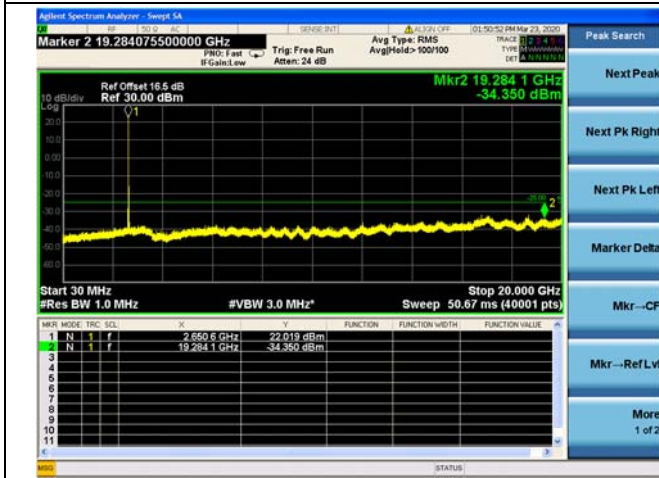


40MHz/ 16QAM/ Low CH

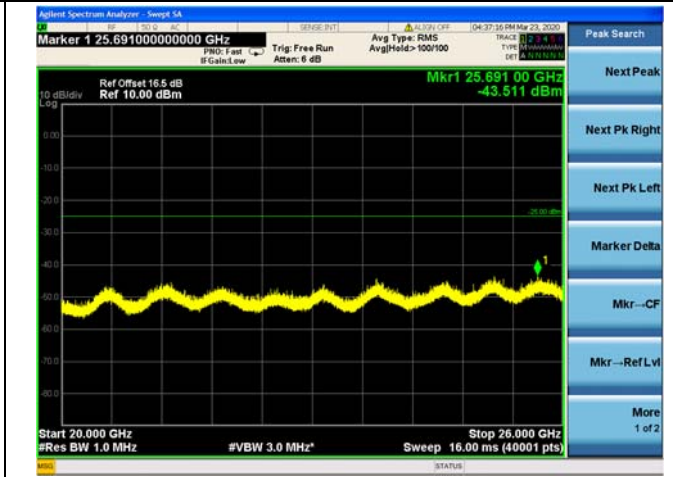
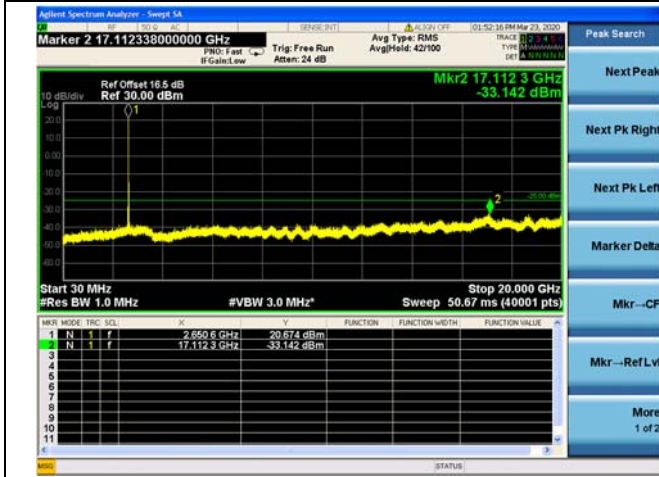




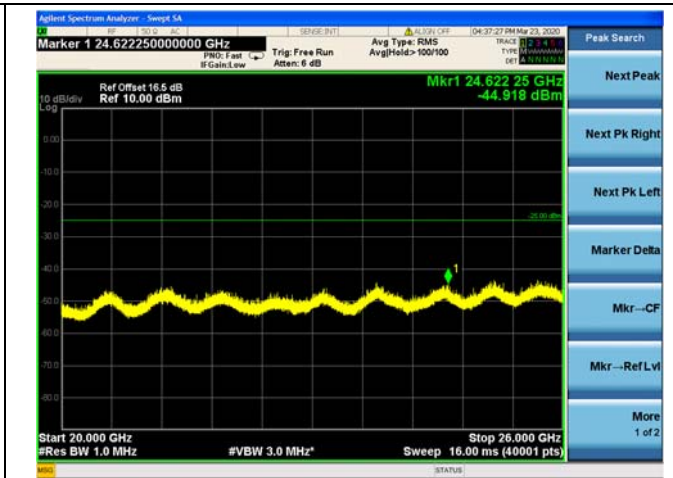
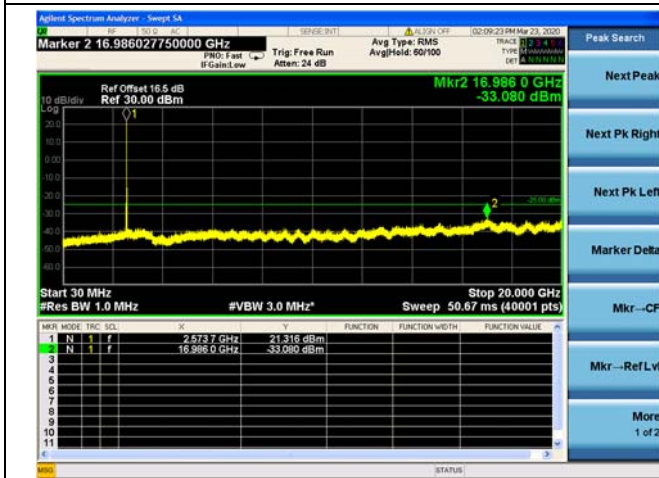
40MHz/ 64QAM / Low CH



40MHz/ 256QAM/ Low CH

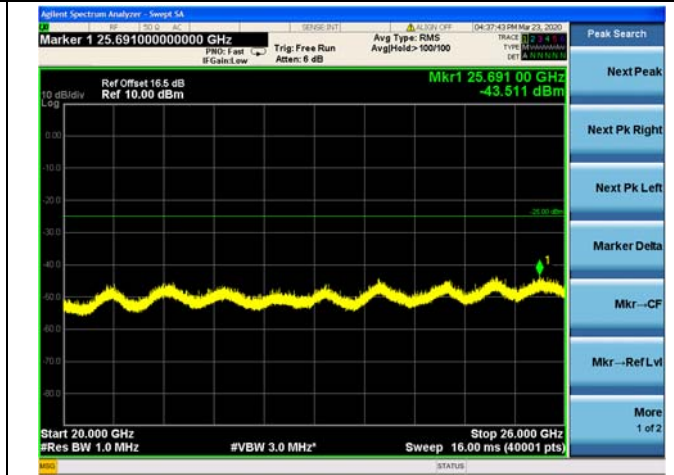
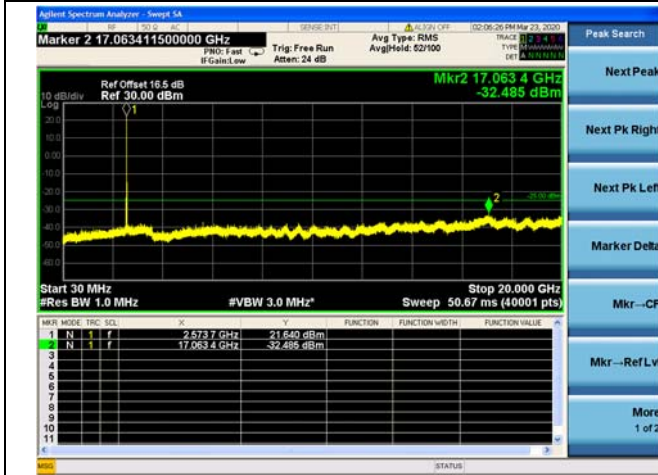


40MHz/ PI/2 BPSK / Mid CH

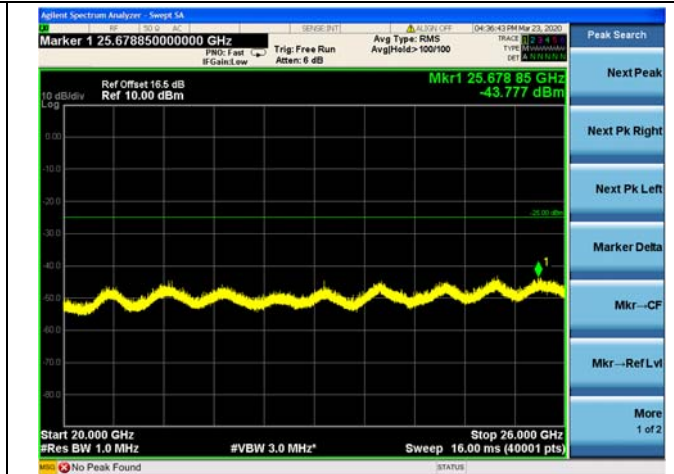
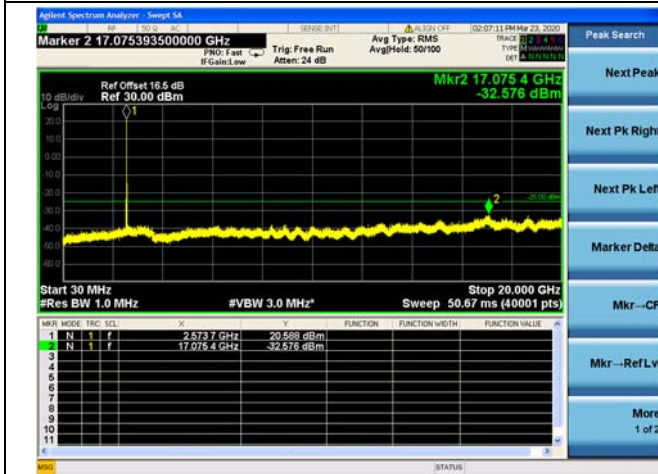




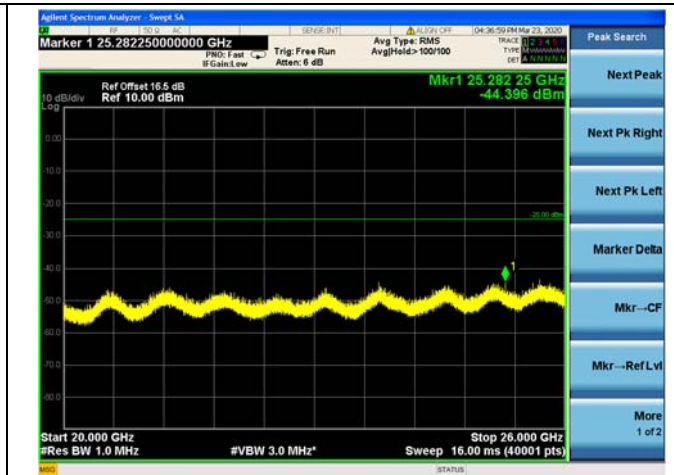
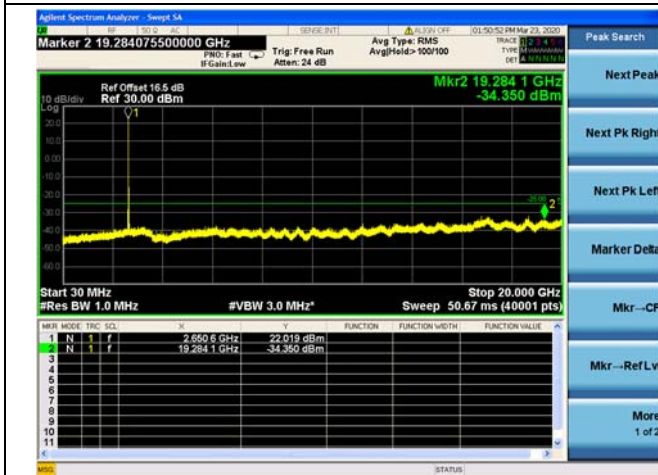
40MHz/ QPSK / Mid CH



40MHz/ 16QAM/ Mid CH

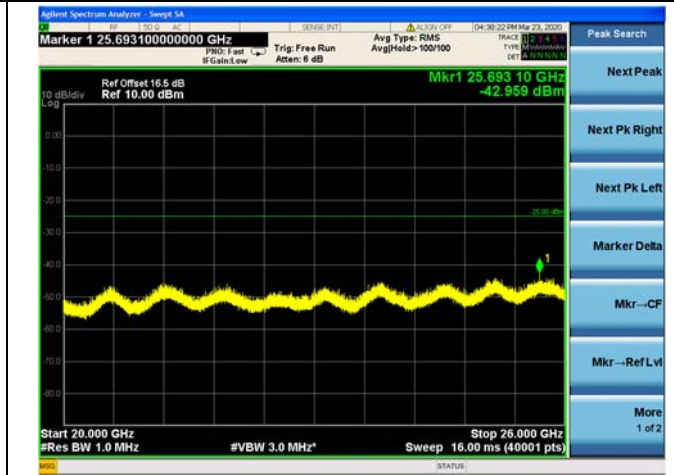
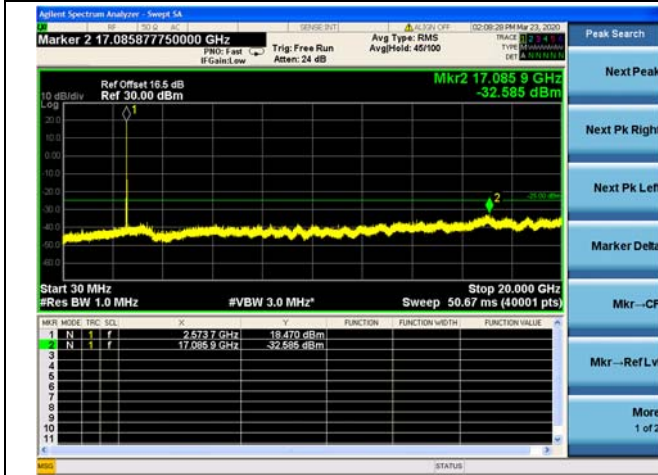


40MHz/ 64QAM / Mid CH

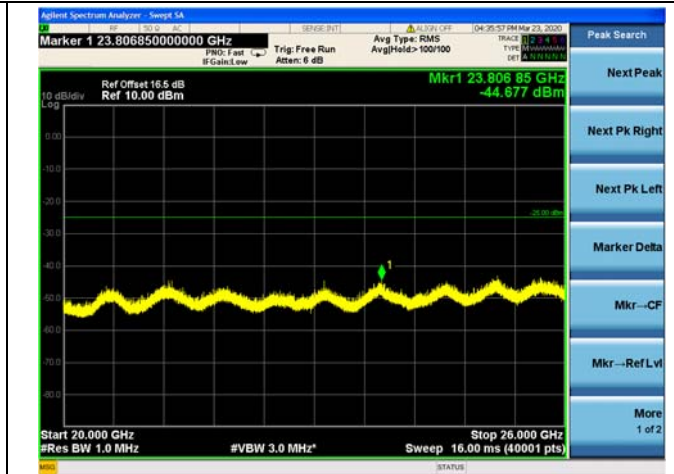
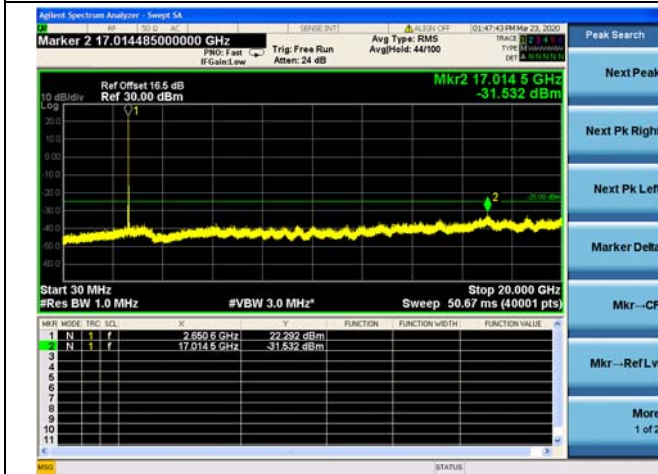




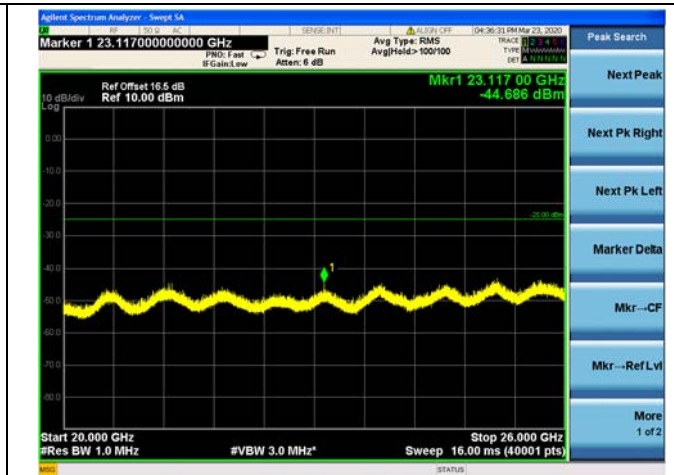
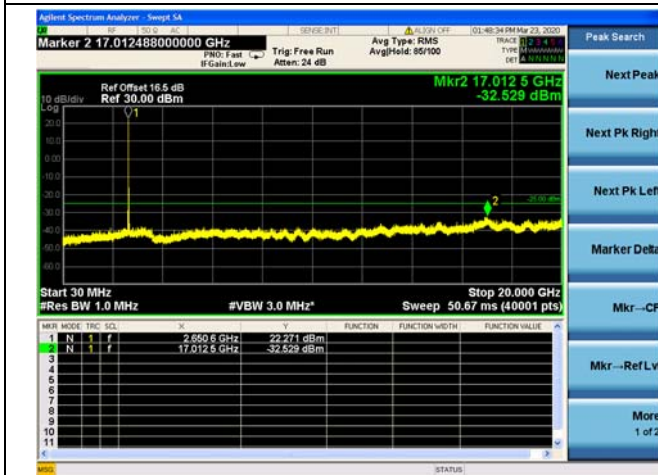
40MHz/ 256QAM/ Mid CH



40MHz/ PI/2 BPSK / High CH

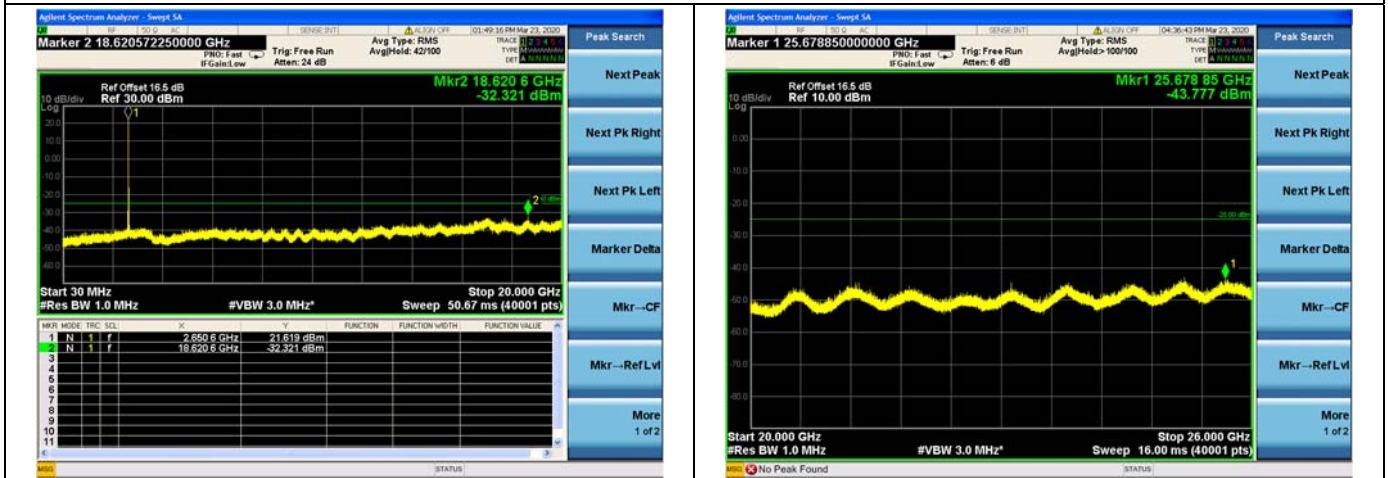


40MHz/ QPSK / High CH

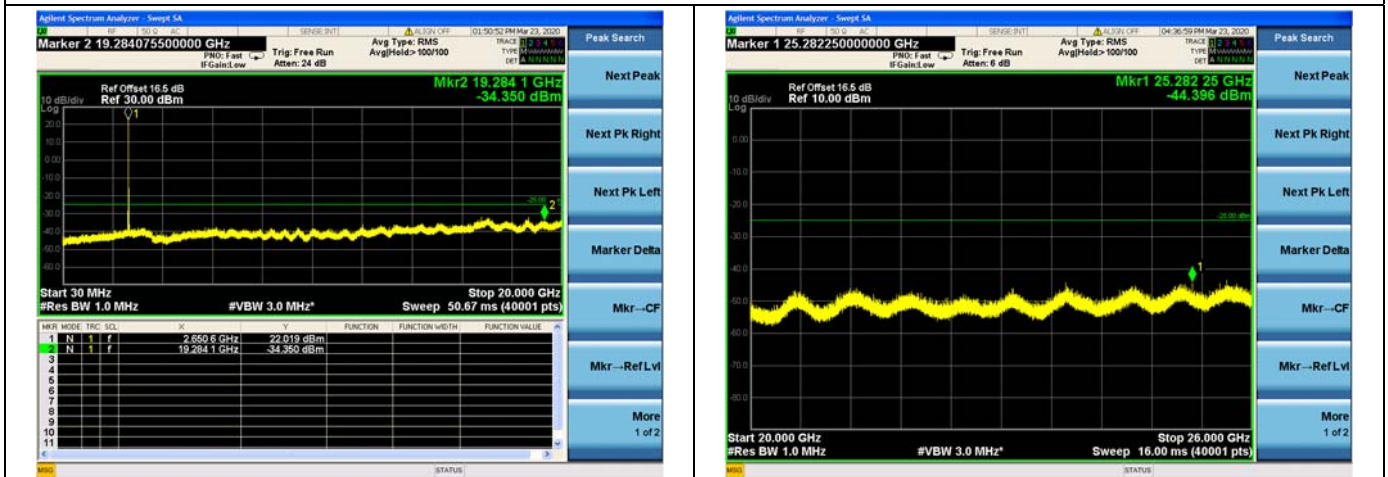




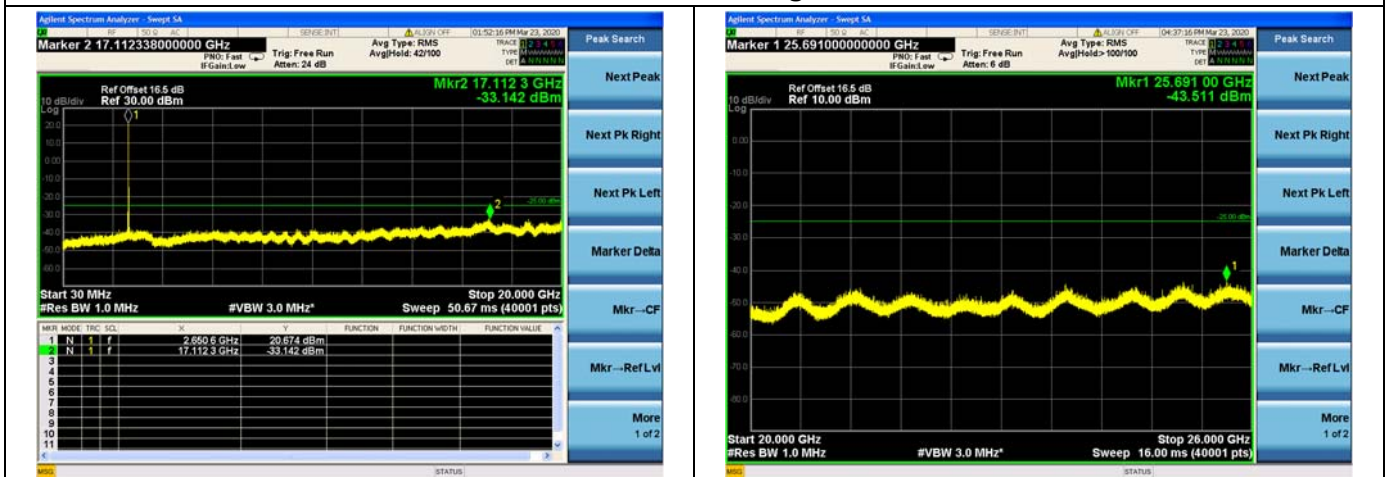
40MHz/ 16QAM/ High CH



40MHz/ 64QAM / High CH

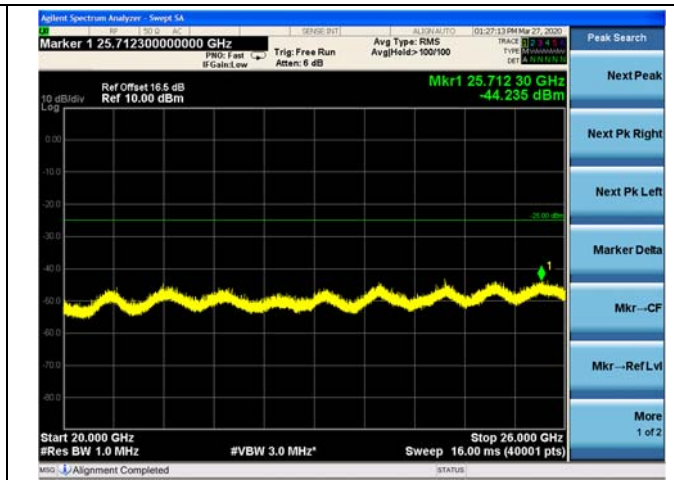
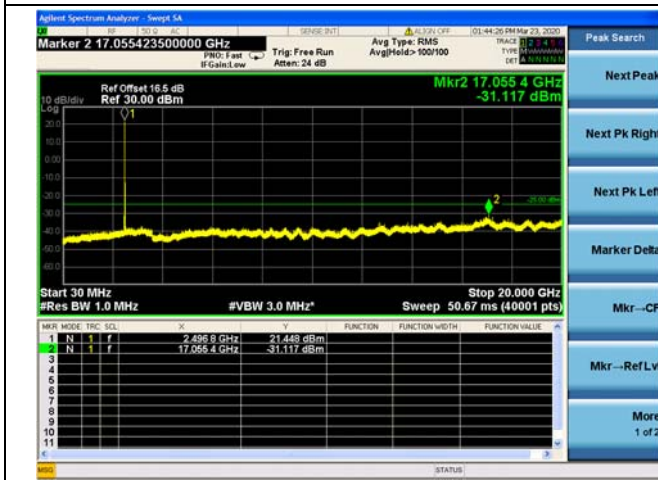


40MHz/ 256QAM/ High CH

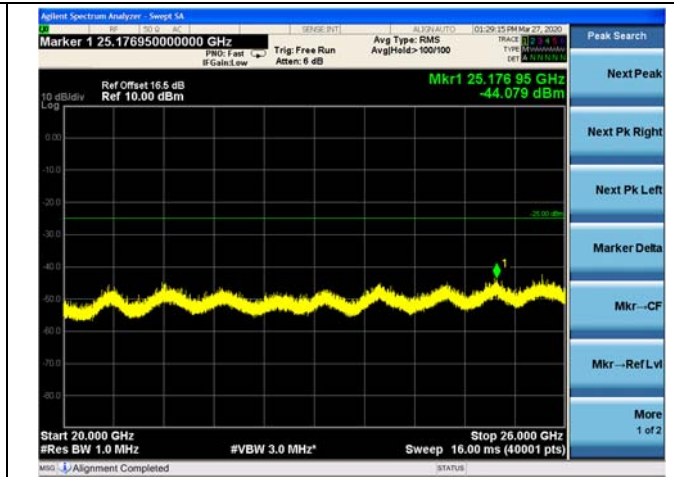
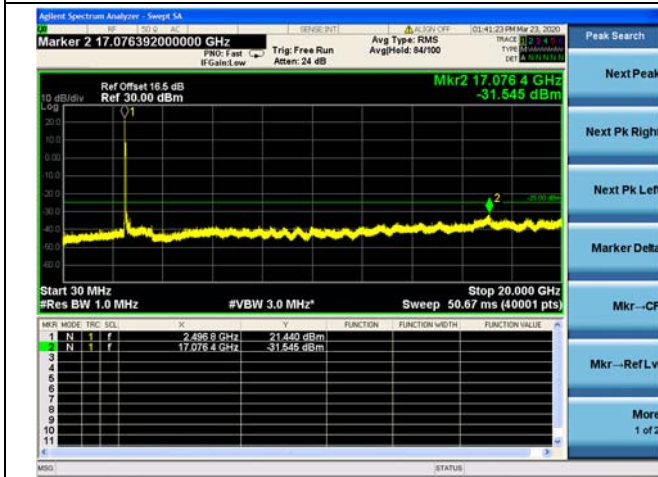




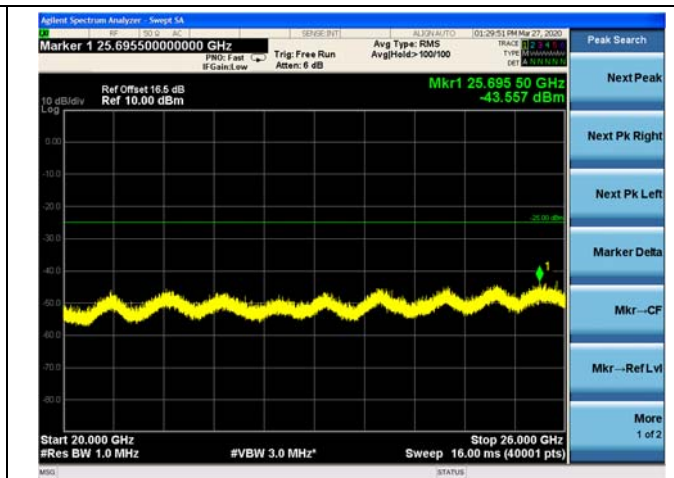
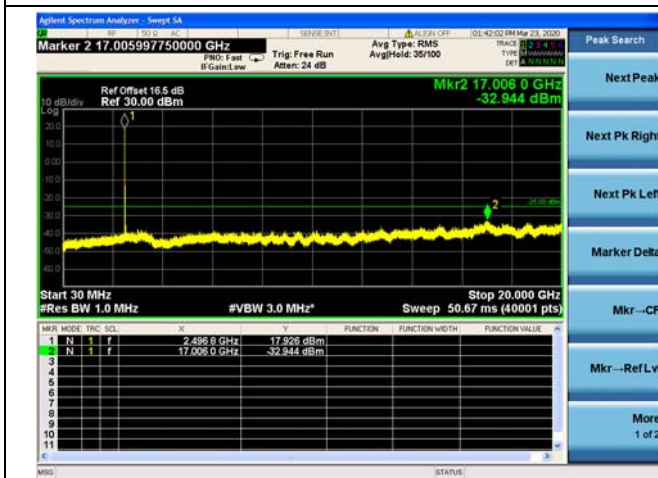
60MHz/ PI/2 BPSK / Low CH



60MHz/ QPSK / Low CH

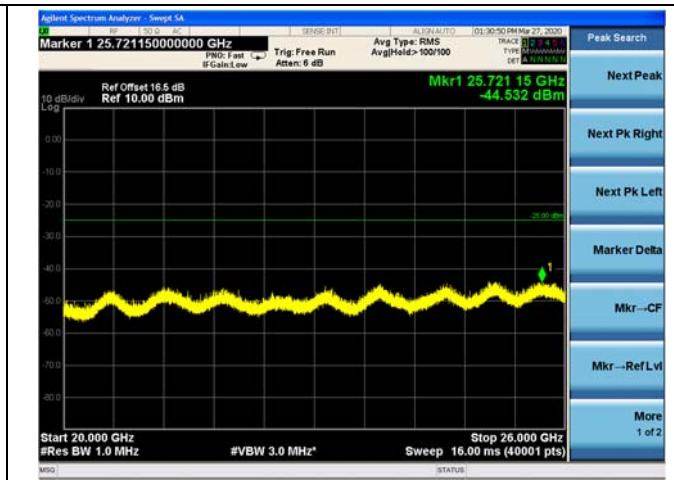
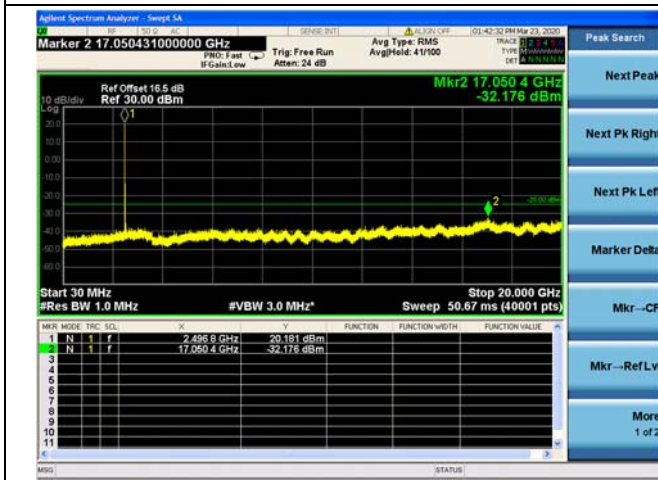


60MHz/ 16QAM/ Low CH

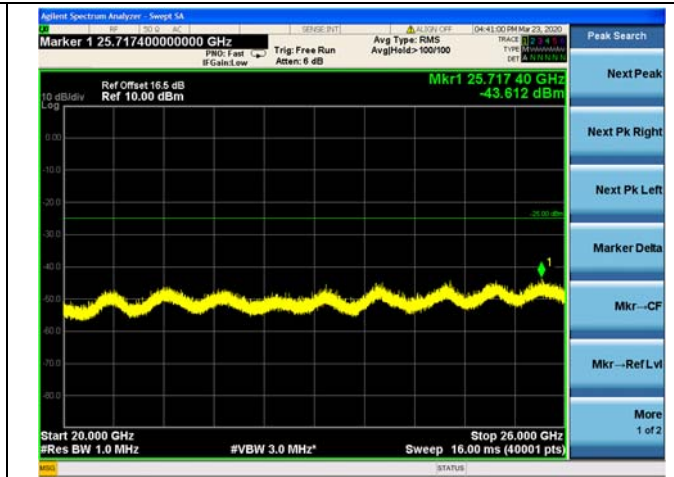
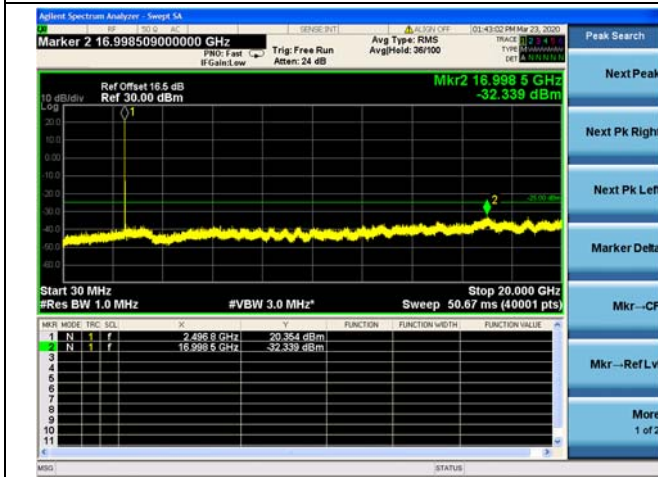




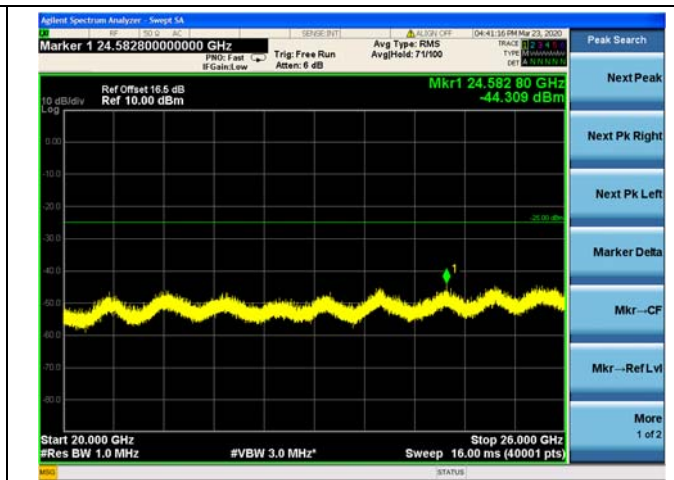
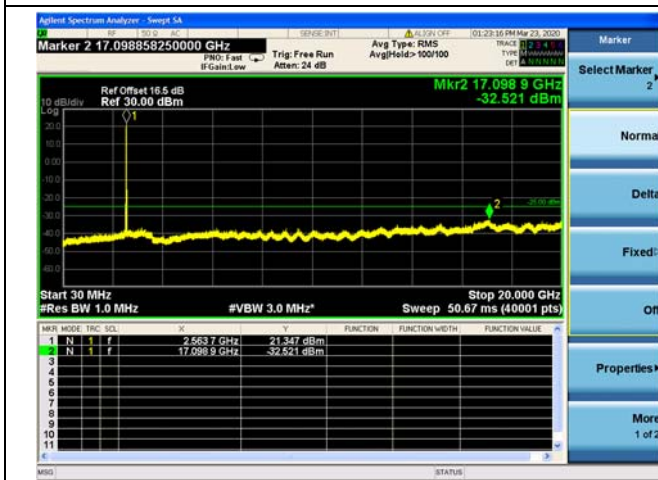
60MHz/ 64QAM / Low CH



60MHz/ 256QAM/ Low CH

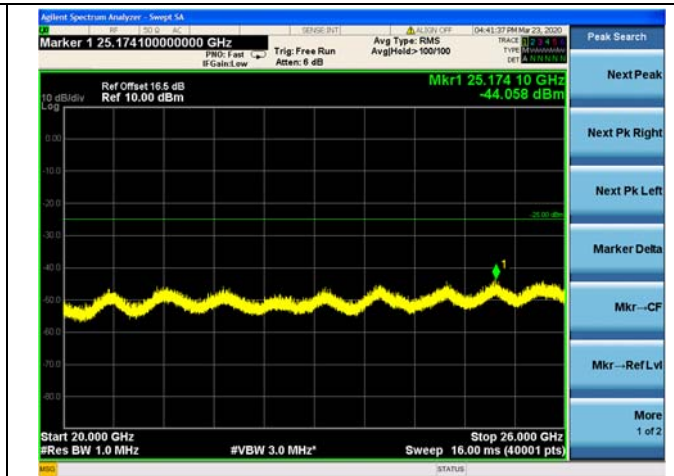
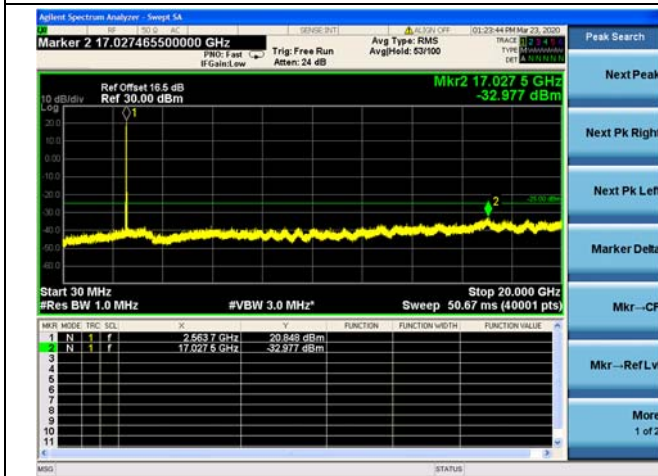


60MHz/ PI/2 BPSK / Mid CH

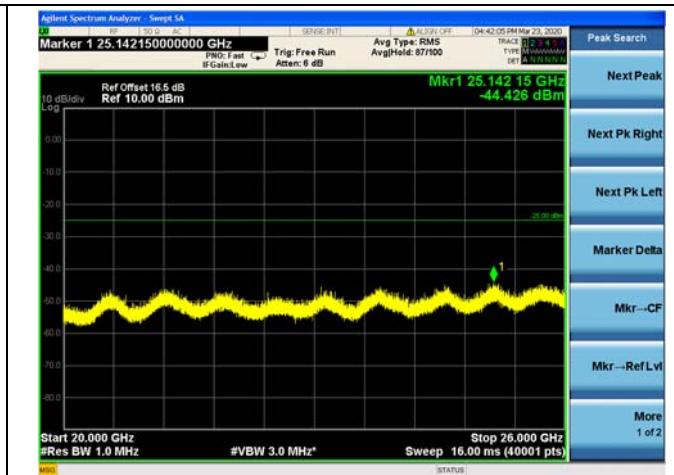
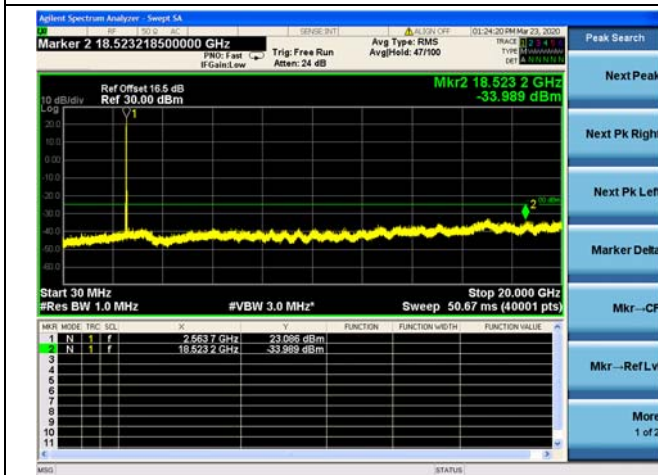




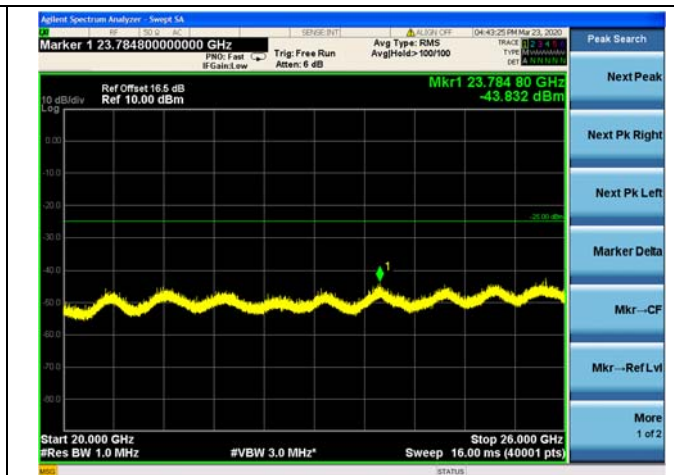
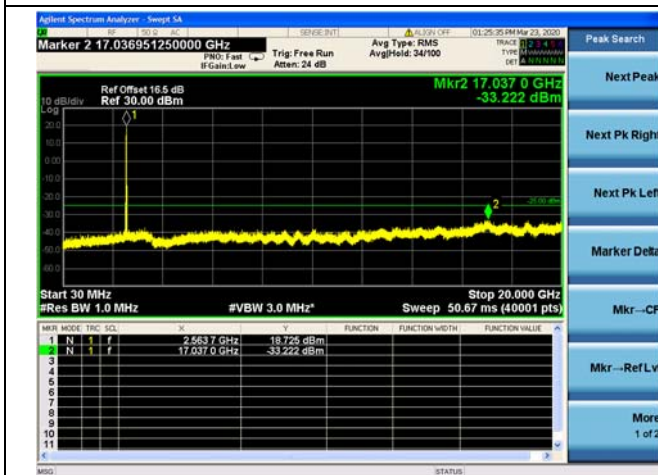
60MHz/ QPSK / Mid CH



60MHz/ 16QAM/ Mid CH

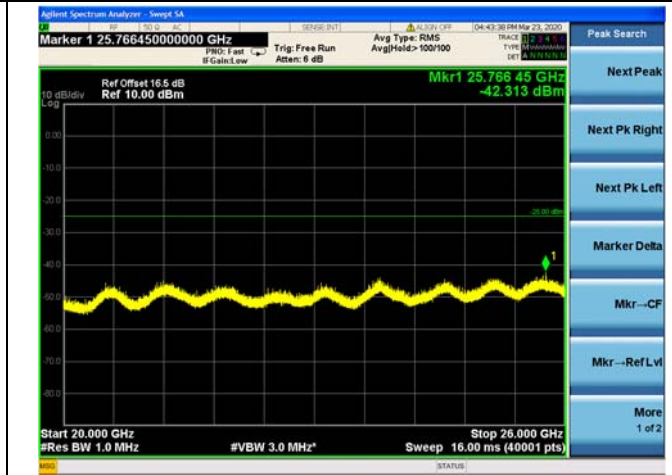
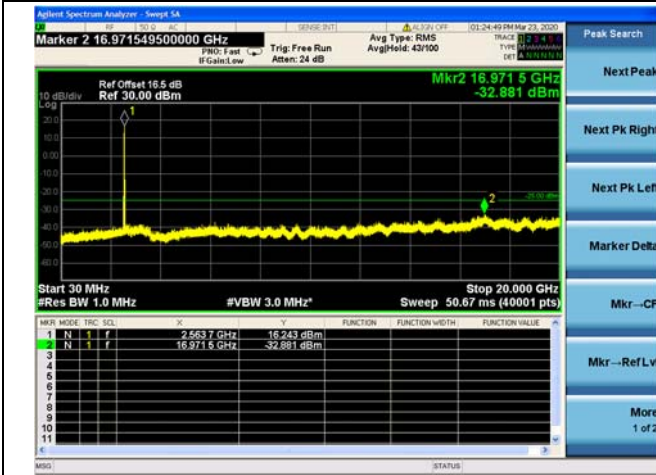


60MHz/ 64QAM / Mid CH

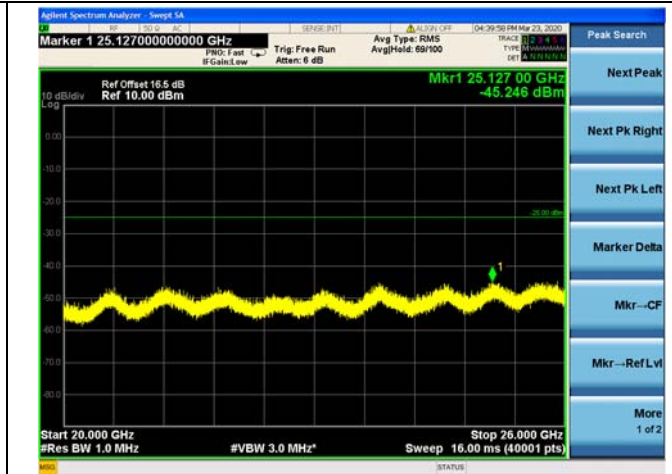
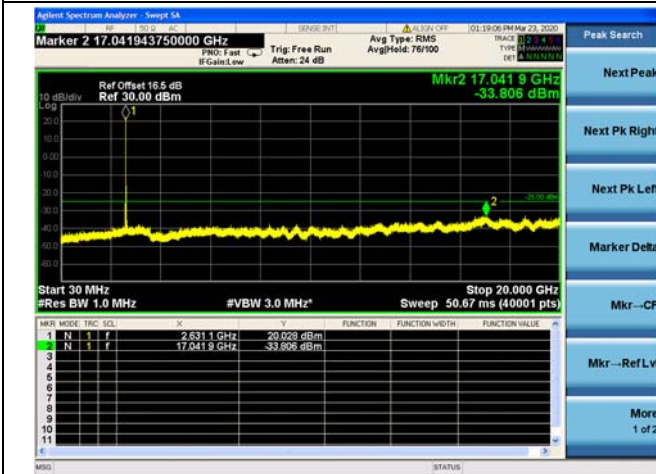




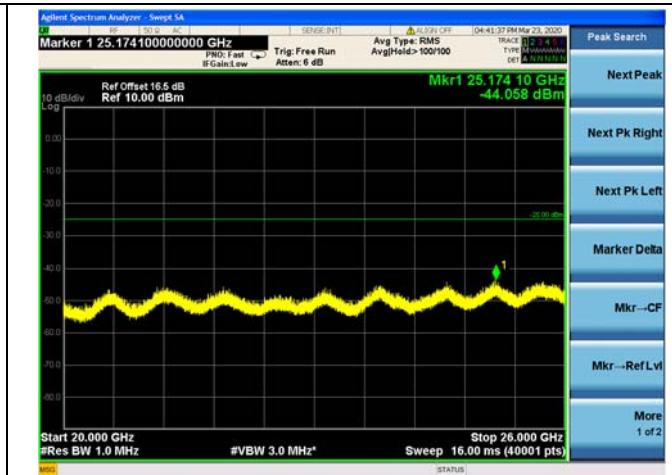
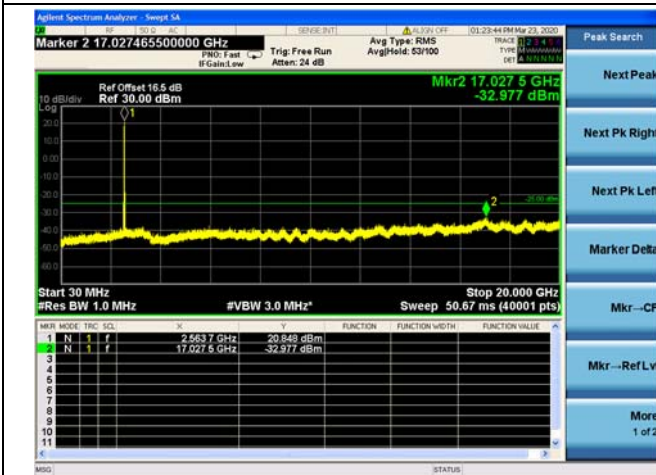
60MHz/ 256QAM/ Mid CH



60MHz/ PI/2 BPSK / High CH

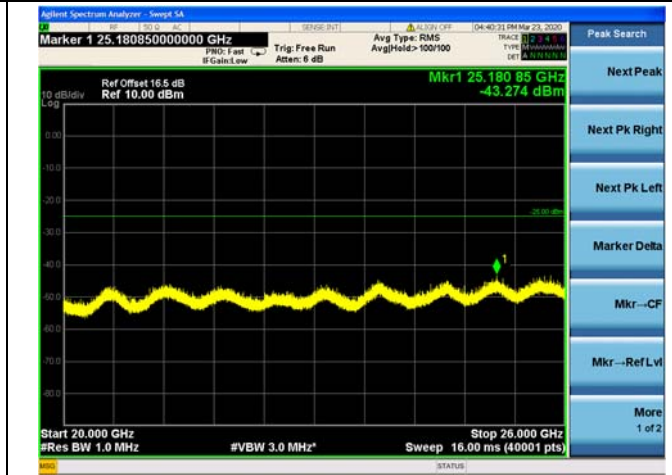
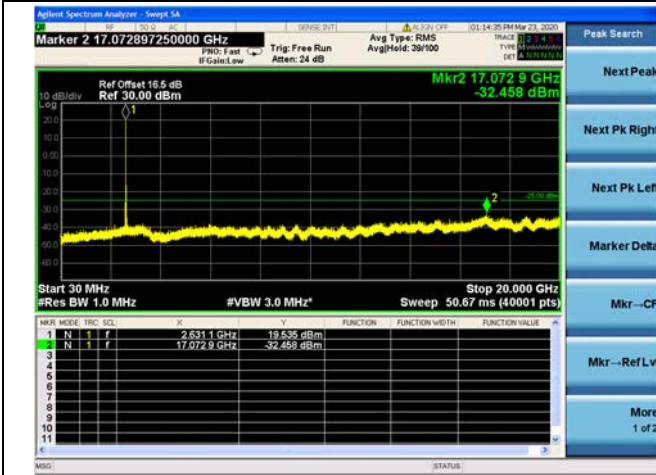


60MHz/ QPSK / High CH

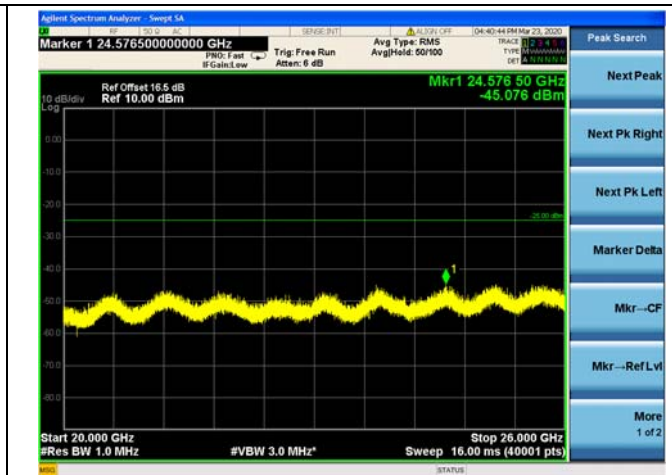
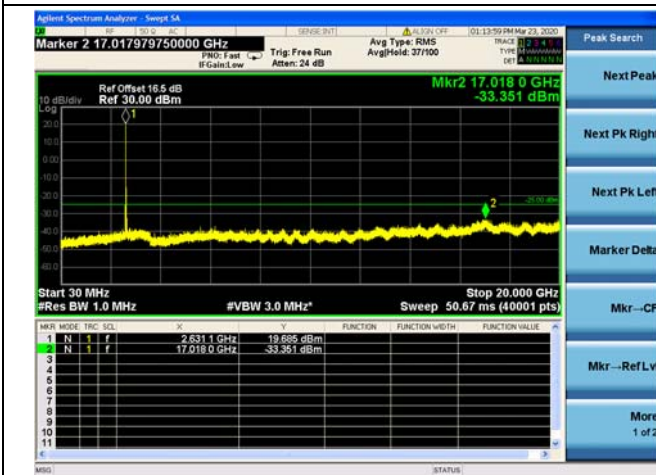




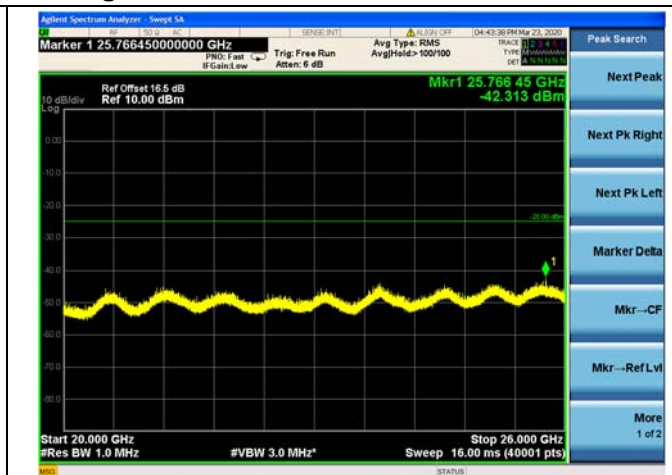
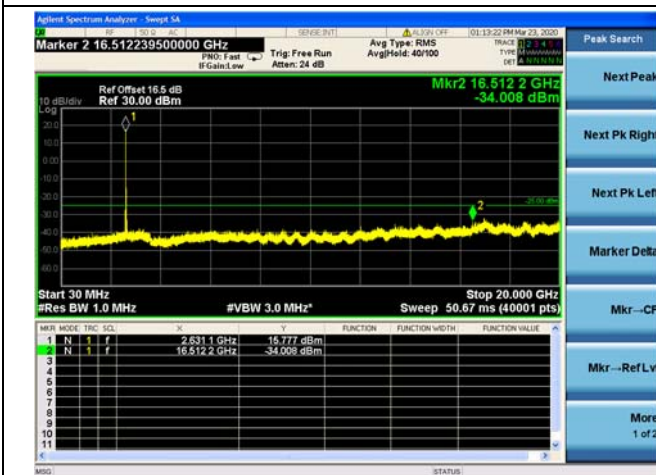
60MHz/ 16QAM/ High CH



60MHz/ 64QAM / High CH

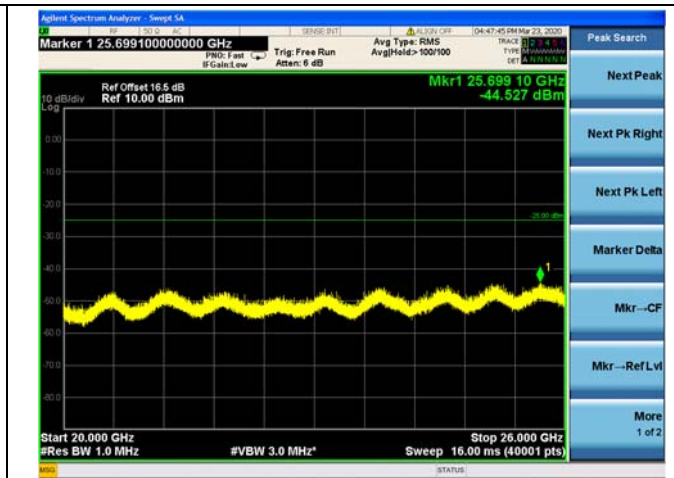
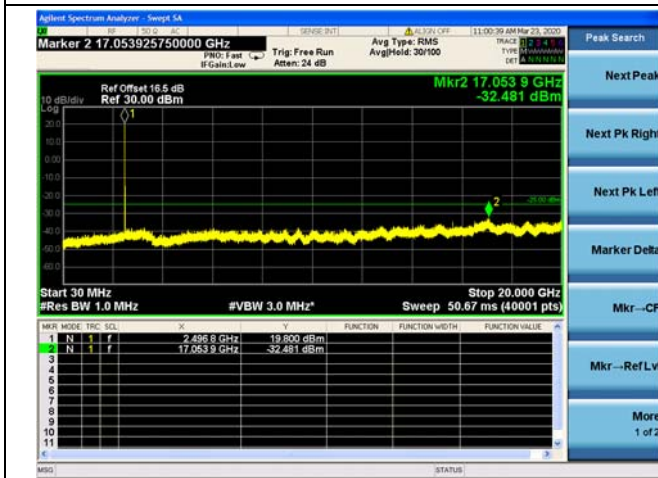


60MHz/ 256QAM/ High CH

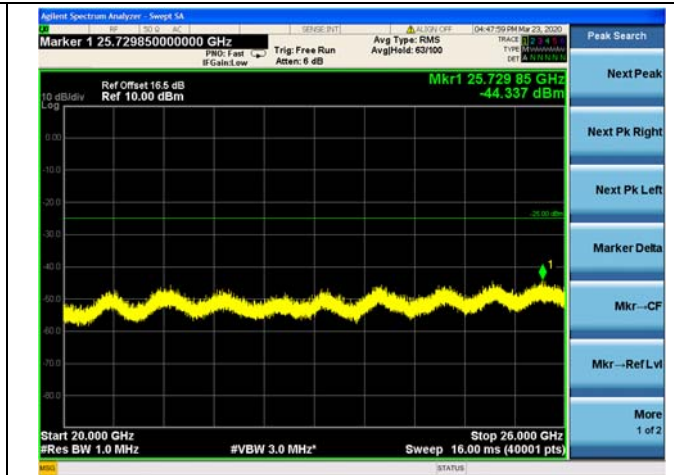
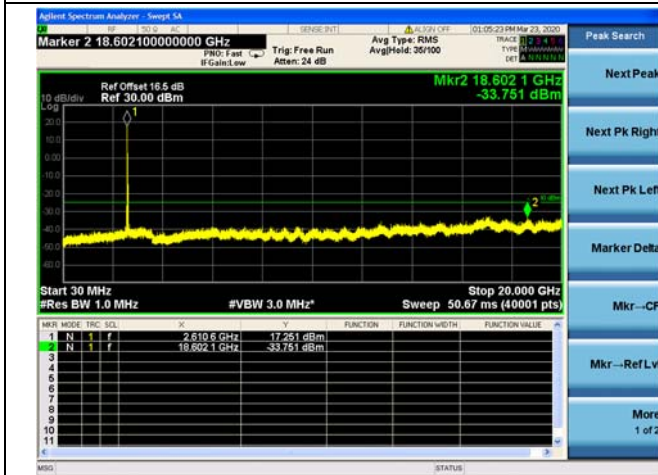




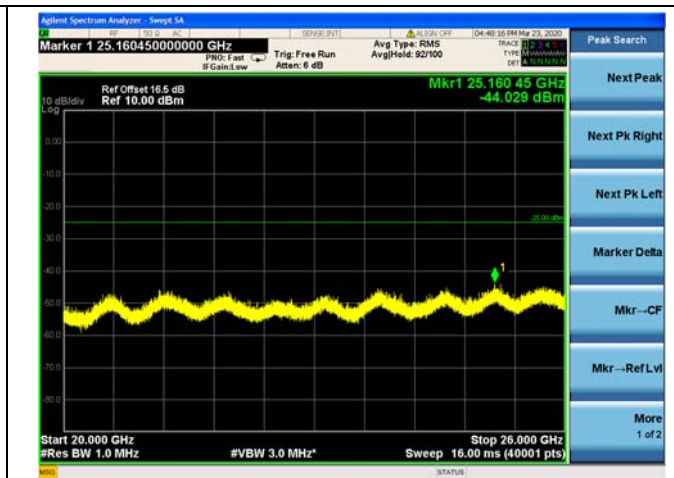
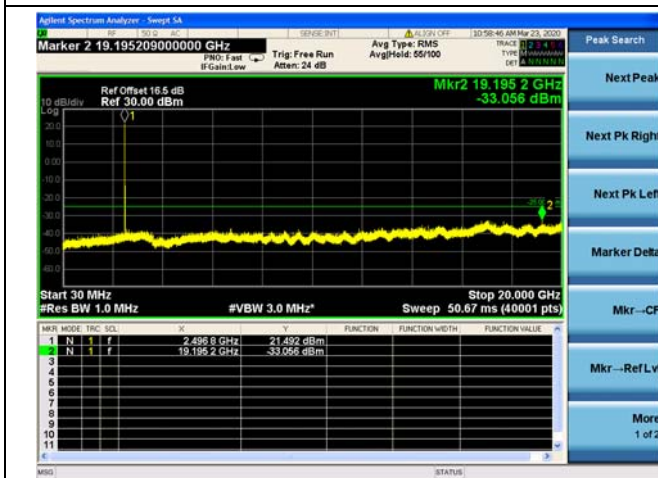
80MHz/ PI/2 BPSK / Low CH



80MHz/ QPSK / Low CH

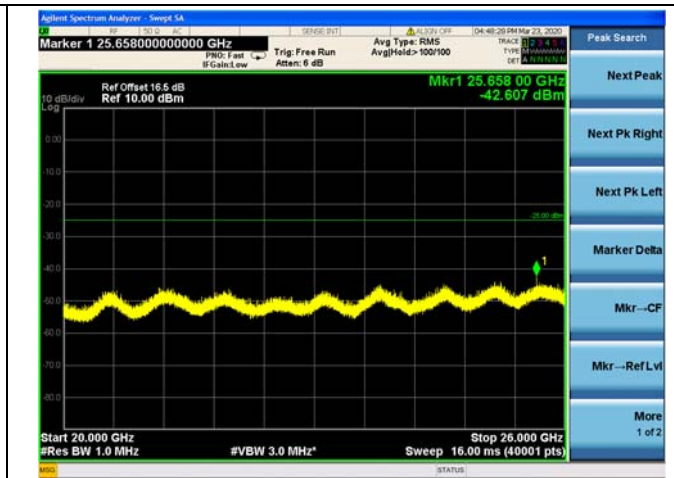
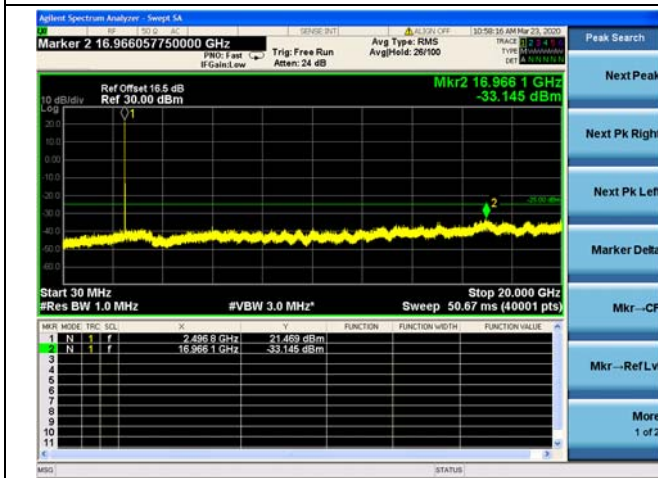


80MHz/ 16QAM/ Low CH

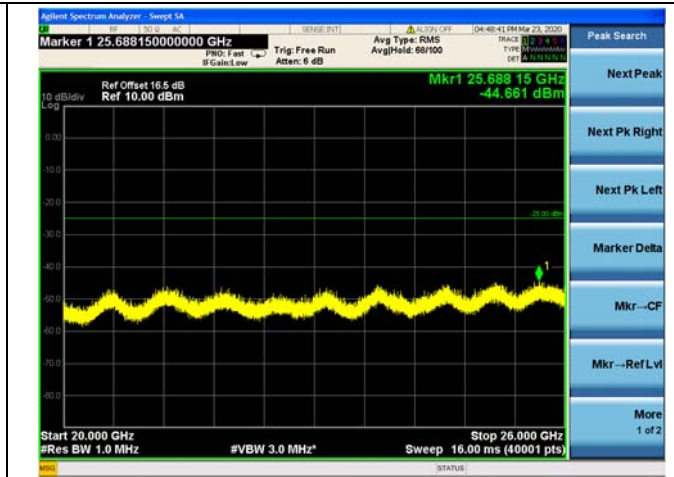
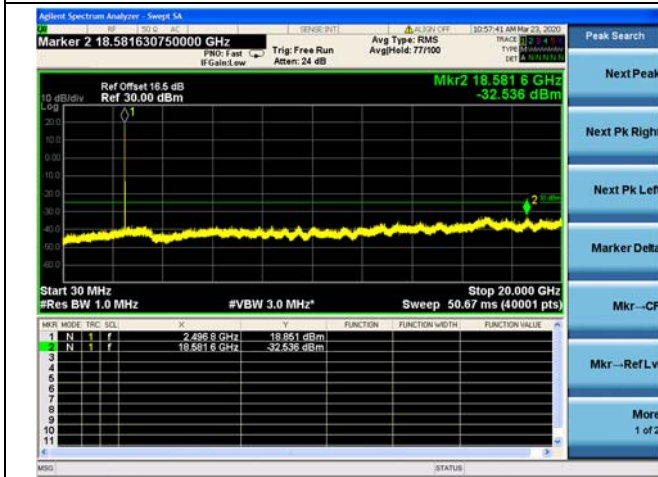




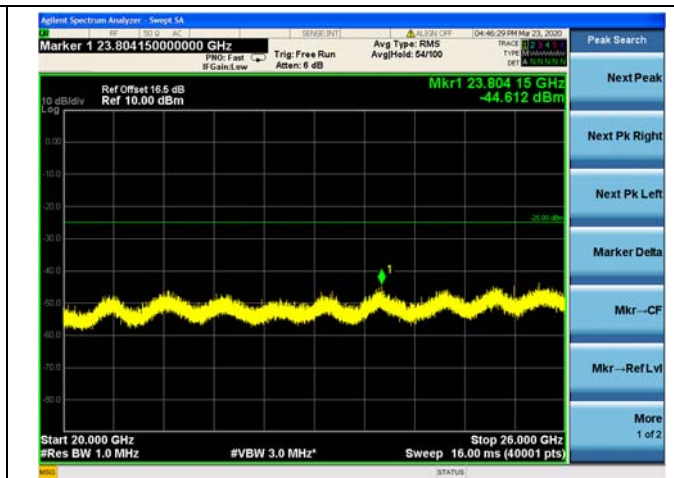
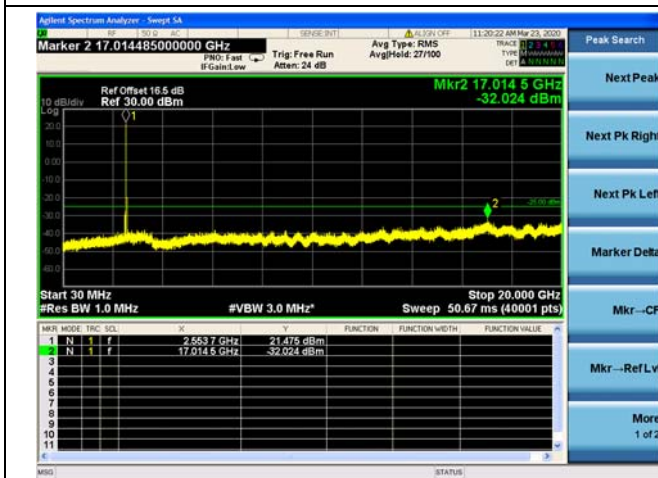
80MHz/ 64QAM / Low CH



80MHz/ 256QAM/ Low CH

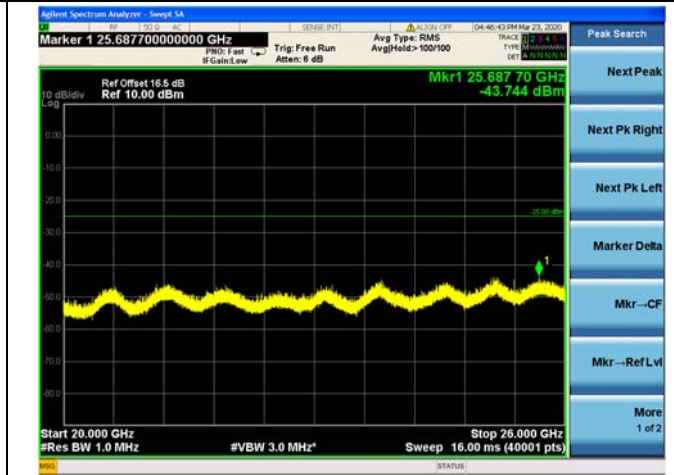
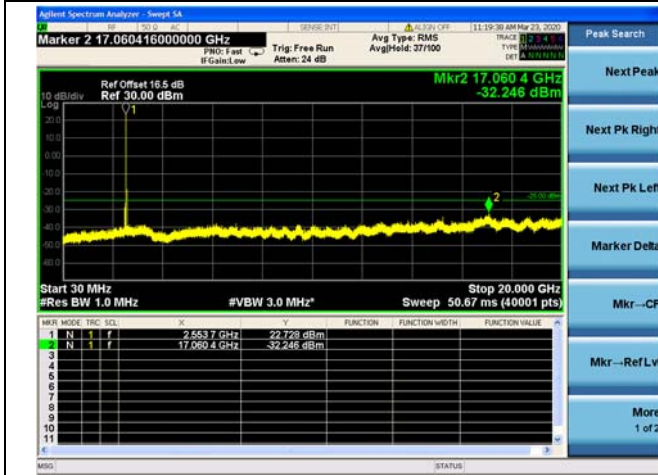


80MHz/ PI/2 BPSK / Mid CH

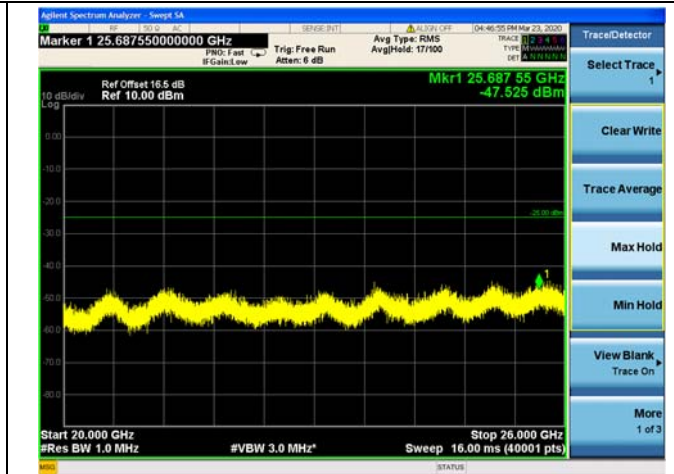
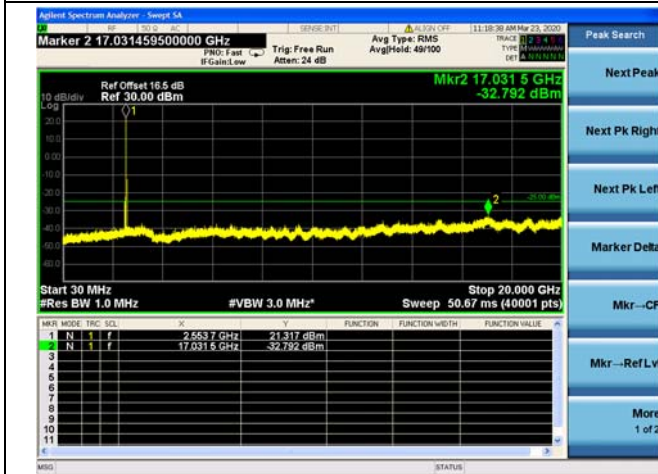




80MHz/ QPSK / Mid CH



80MHz/ 16QAM/ Mid CH



80MHz/ 64QAM / Mid CH

