



**3MHz/QPSK/Low CH**



**3MHz/16QAM/Low CH**



**3MHz/QPSK/Mid CH**



**3MHz/16QAM/Mid CH**



**3MHz/QPSK/High CH**



**3MHz/16QAM/High CH**

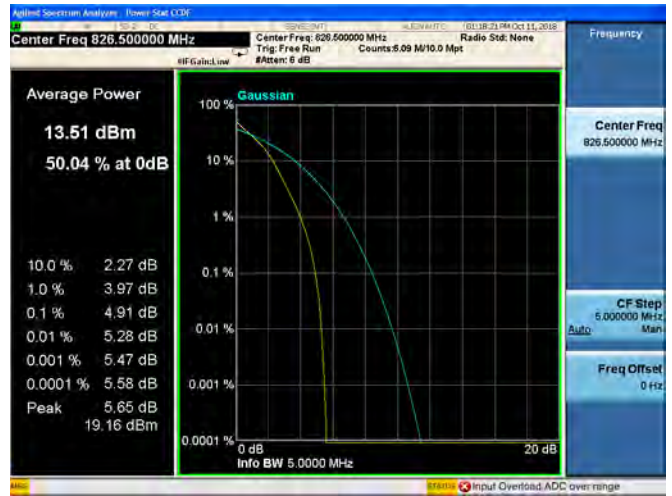




5MHz/QPSK/Low CH



5MHz/16QAM/Low CH



5MHz/QPSK/Mid CH



5MHz/16QAM/Mid CH



5MHz/QPSK/High CH

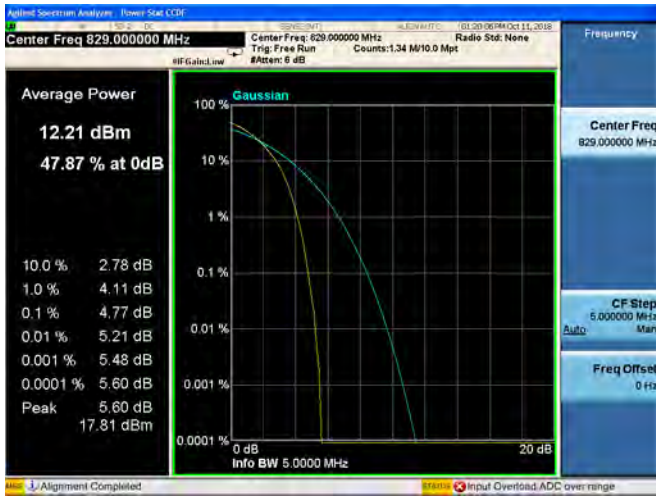


5MHz/16QAM/High CH





10MHz/QPSK/Low CH



10MHz/16QAM/Low CH



10MHz/QPSK/Mid CH



10MHz/16QAM/Mid CH



10MHz/QPSK/High CH



10MHz/16QAM/High CH





<b>LTE Band 12, BW: 1.4MHz</b>			
Channel	Frequency (MHz)	Peak to Average Ratio(dB)	
		QPSK	16QAM
23017	699.7	4.63	4.65
23095	707.5	4.48	4.50
23173	715.3	4.52	4.51

<b>LTE Band 12, BW: 3MHz</b>			
Channel	Frequency (MHz)	Peak to Average Ratio(dB)	
		QPSK	16QAM
23025	700.5	4.68	4.69
23095	707.5	4.54	4.53
23165	714.5	4.60	4.60

<b>LTE Band 12, BW: 5MHz</b>			
Channel	Frequency (MHz)	Peak to Average Ratio(dB)	
		QPSK	16QAM
23035	701.5	4.79	4.79
23095	707.5	4.67	4.65
23165	714.5	4.72	4.72

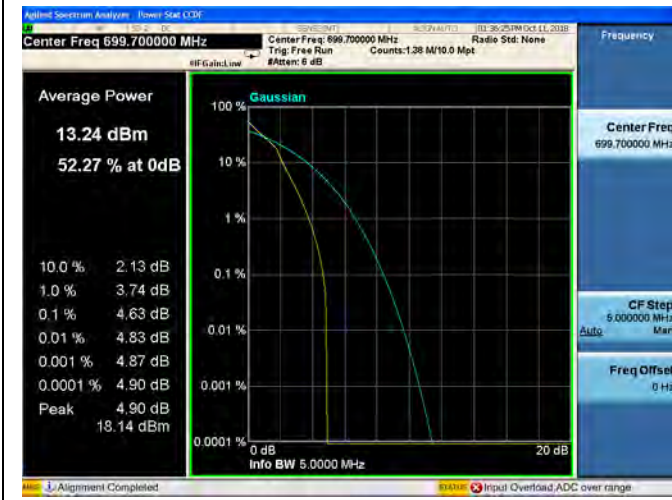
  

<b>LTE Band 12, BW: 10MHz</b>			
Channel	Frequency (MHz)	Peak to Average Ratio(dB)	
		QPSK	16QAM
23060	704.0	4.74	4.75
23095	707.5	4.68	4.68
23130	711.0	4.70	4.69

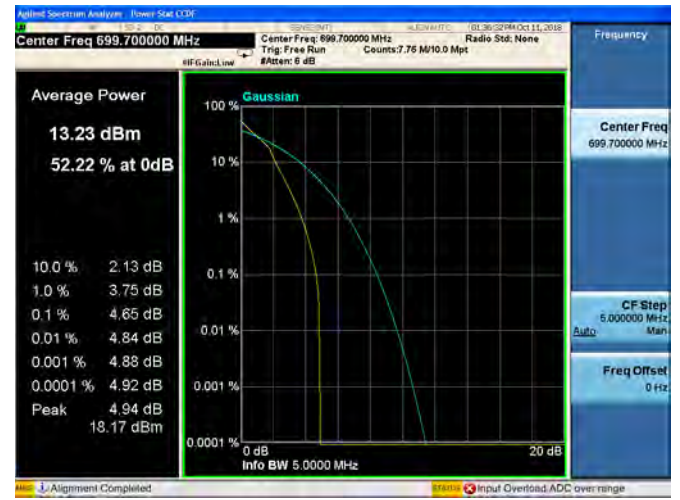


LTE Band 12 Peak to Average Ratio

1.4MHz/QPSK/Low CH



1.4MHz/16QAM/Low CH



1.4MHz/QPSK/Mid CH



1.4MHz/16QAM/Mid CH

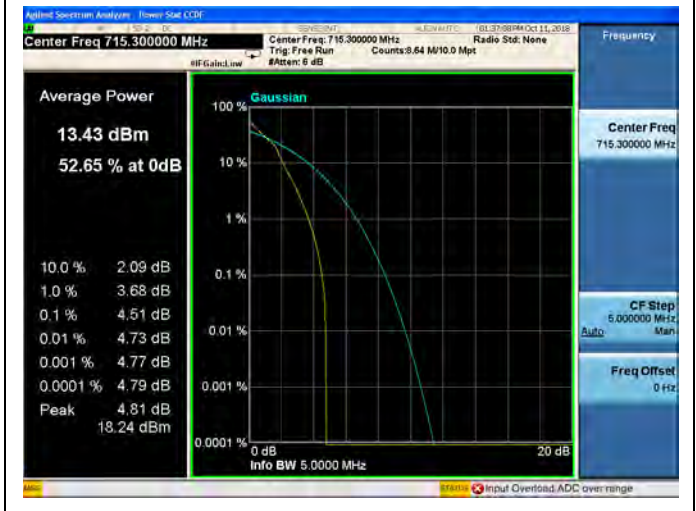




1.4MHz/QPSK/High CH



1.4MHz/16QAM/High CH

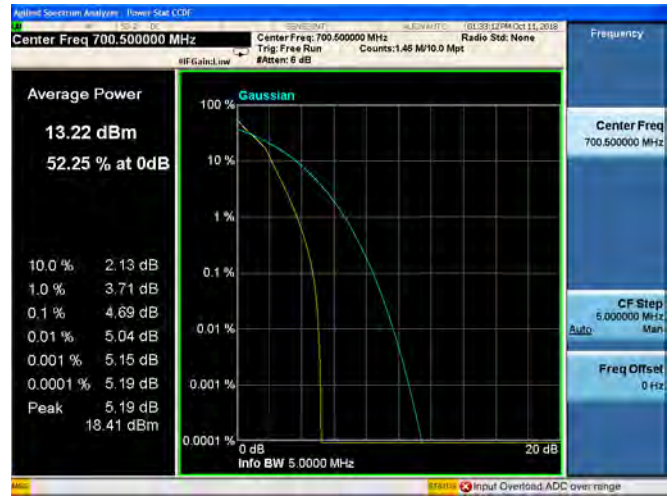




**3MHz/QPSK/Low CH**



**3MHz/16QAM/Low CH**



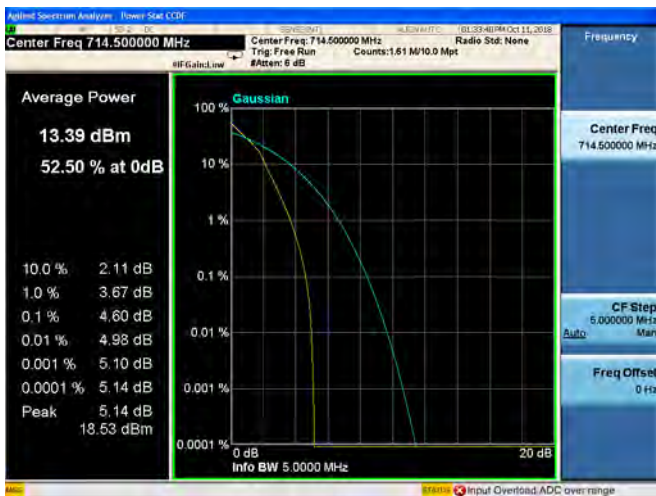
**3MHz/QPSK/Mid CH**



**3MHz/16QAM/Mid CH**



**3MHz/QPSK/High CH**

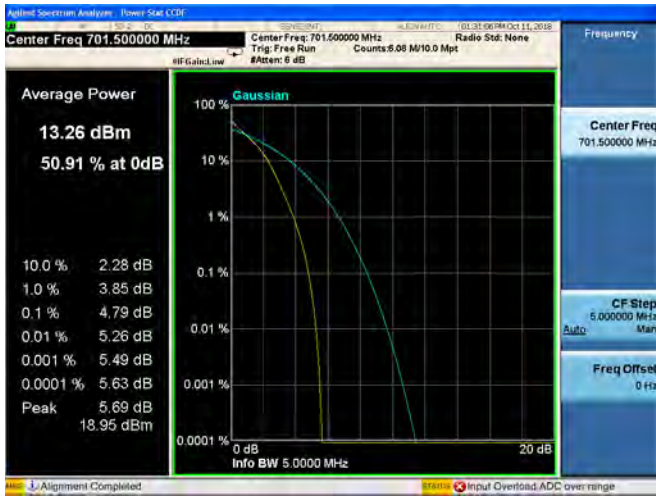


**3MHz/16QAM/High CH**

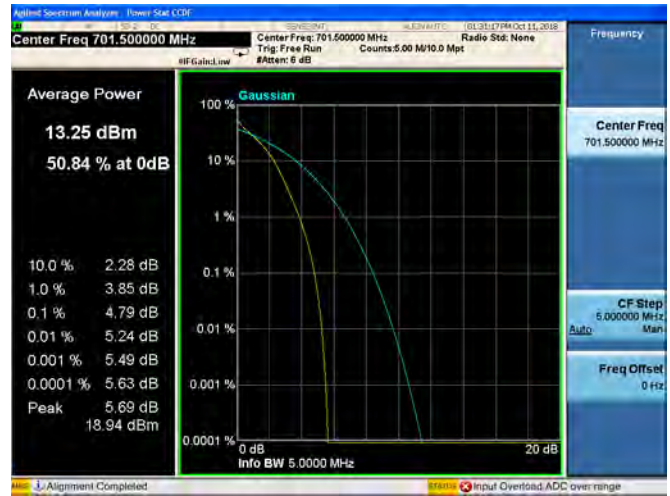




**5MHz/QPSK/Low CH**



**5MHz/16QAM/Low CH**



**5MHz/QPSK/Mid CH**



**5MHz/16QAM/Mid CH**



**5MHz/QPSK/High CH**



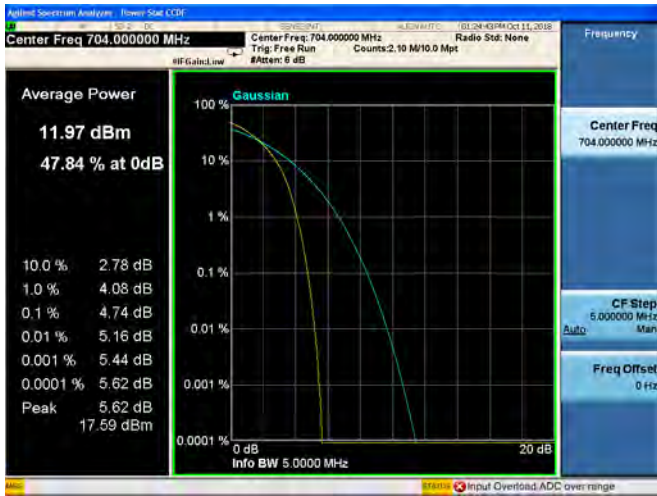
**5MHz/16QAM/High CH**







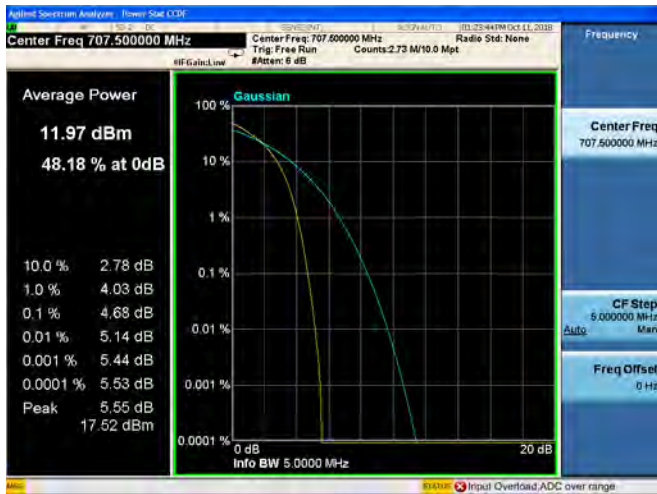
10MHz/QPSK/Low CH



10MHz/16QAM/Low CH



10MHz/QPSK/Mid CH



10MHz/16QAM/Mid CH



10MHz/QPSK/High CH



10MHz/16QAM/High CH

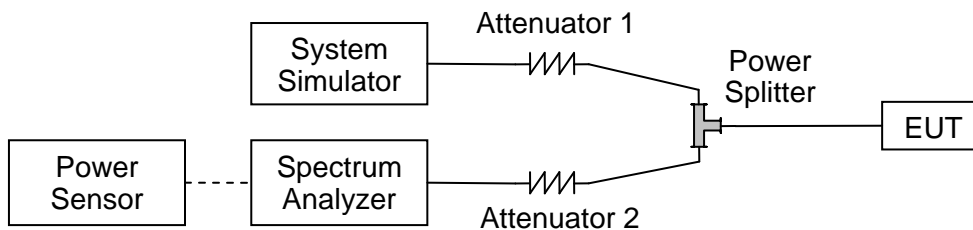


## 2.5. Conducted Spurious Emissions

### 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.

### 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

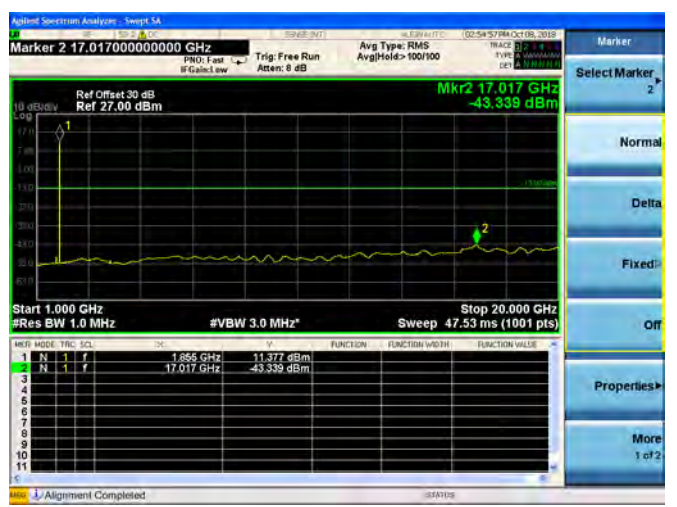
KDB 971168 D01v03 Section 6.0 and ANSI/TIA-603-E-2016.

### 2.5.4. Test Result

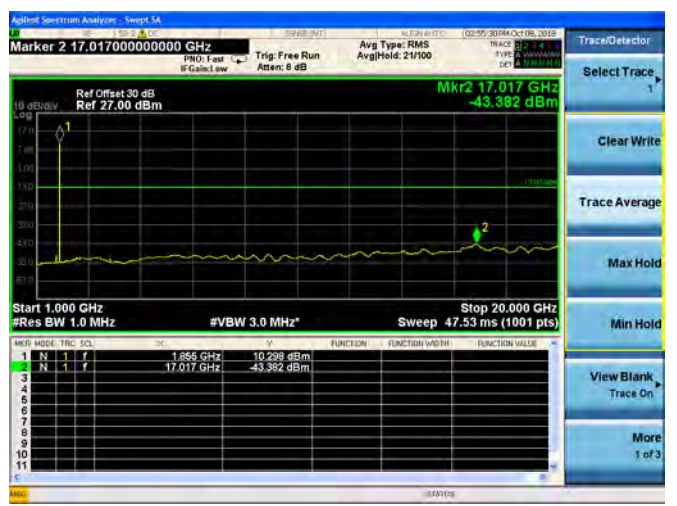


LTE Band 2 1.4MHz BW Low Channel

QPSK



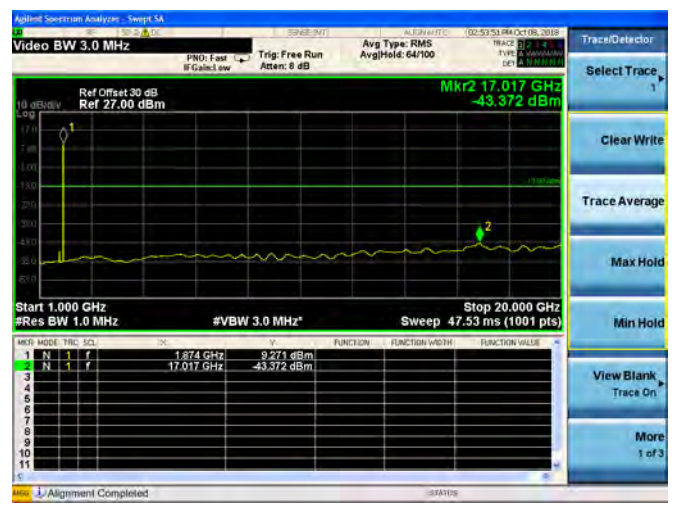
16QAM



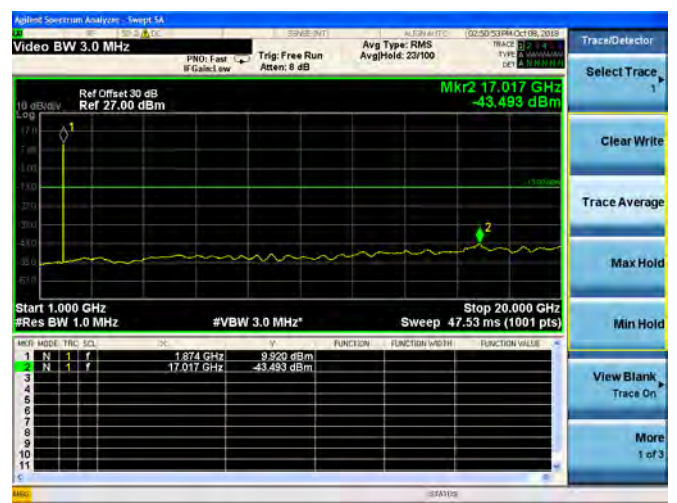
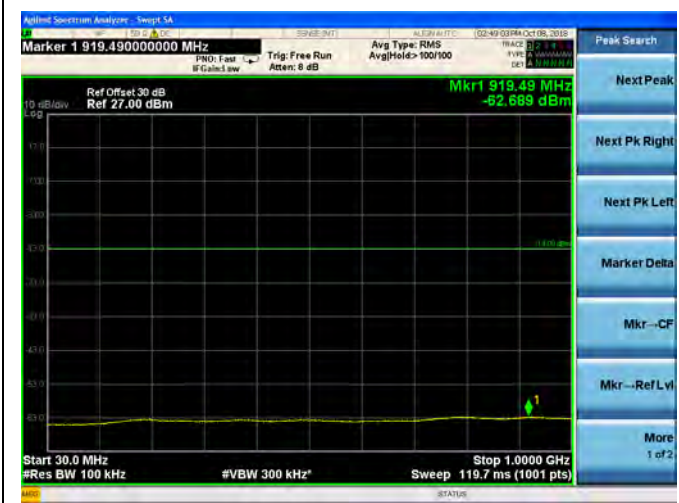


LTE Band 2 1.4MHz BW Mid Channel

QPSK



16QAM



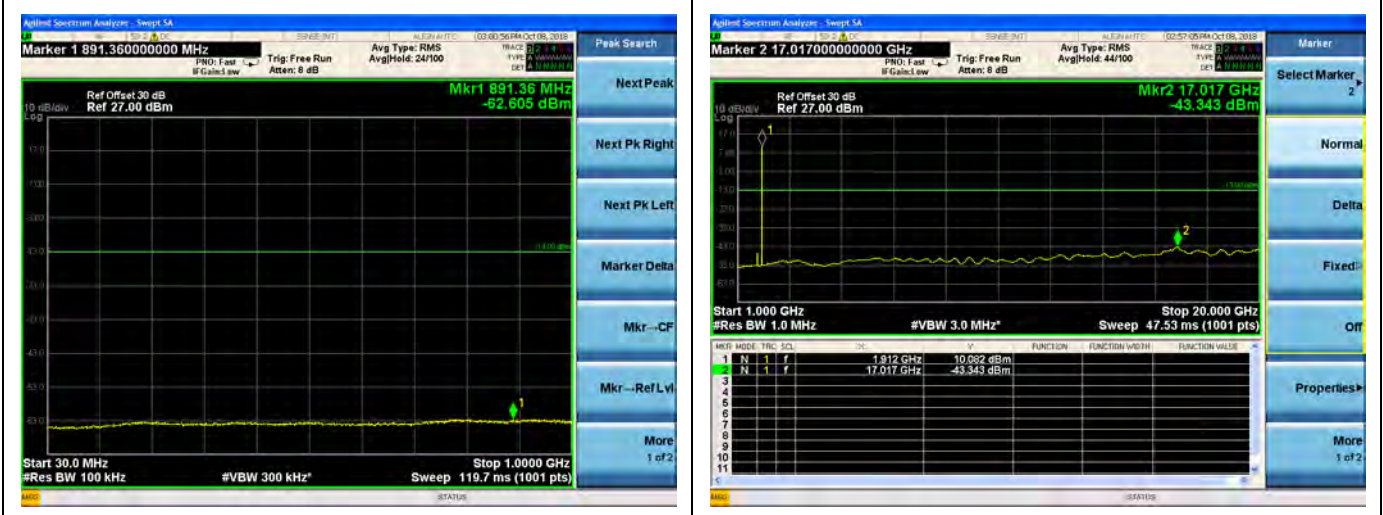


LTE Band 2 1.4MHz BW High Channel

QPSK



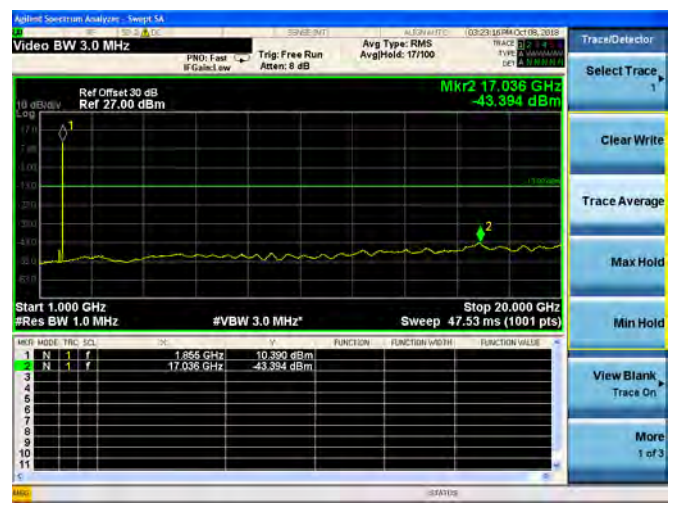
16QAM



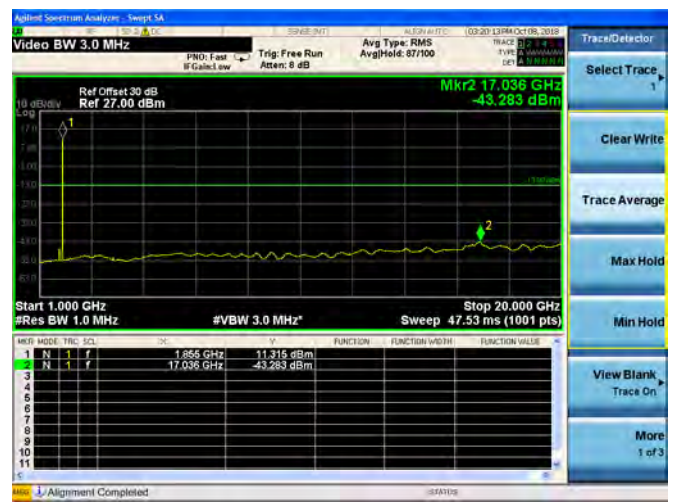


LTE Band 2 3MHz BW Low Channel

QPSK



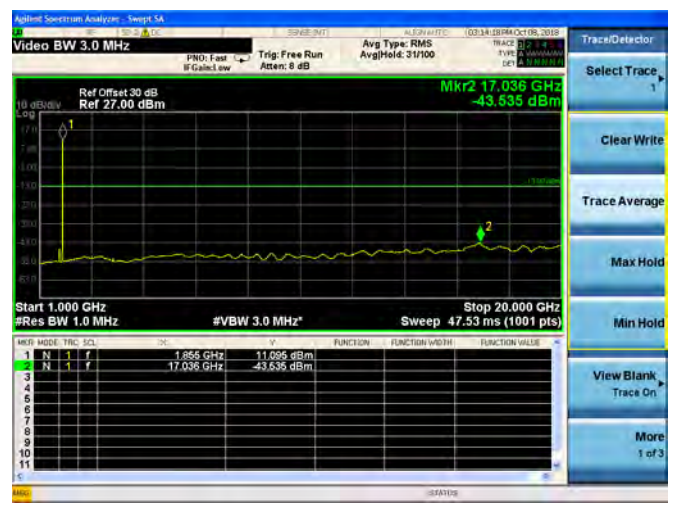
16QAM



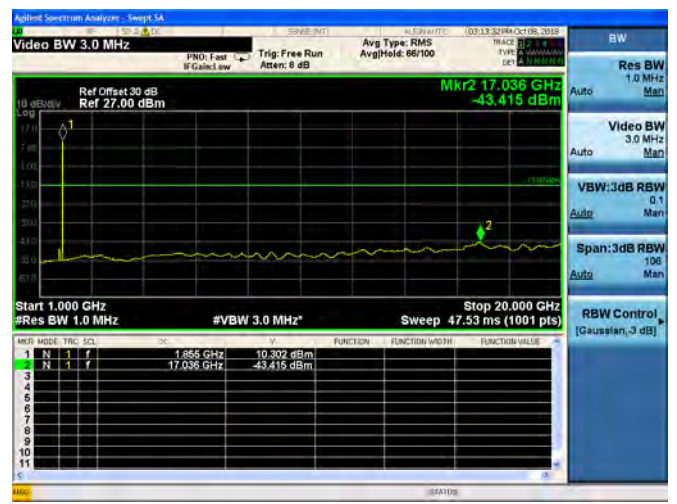


LTE Band 2 3MHz BW Mid Channel

QPSK

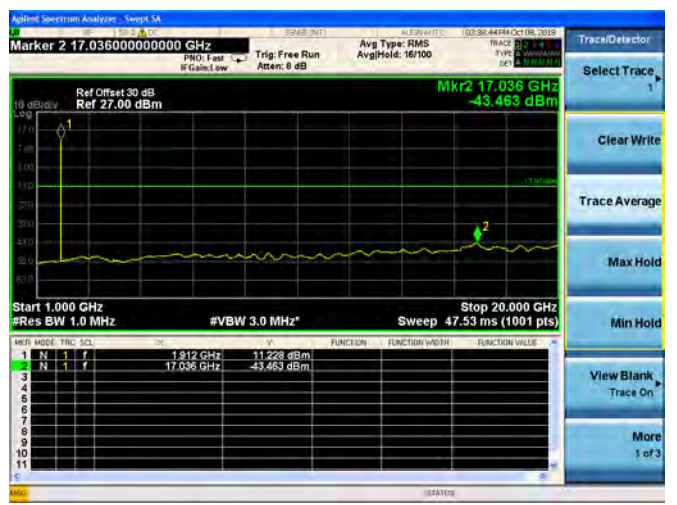


16QAM

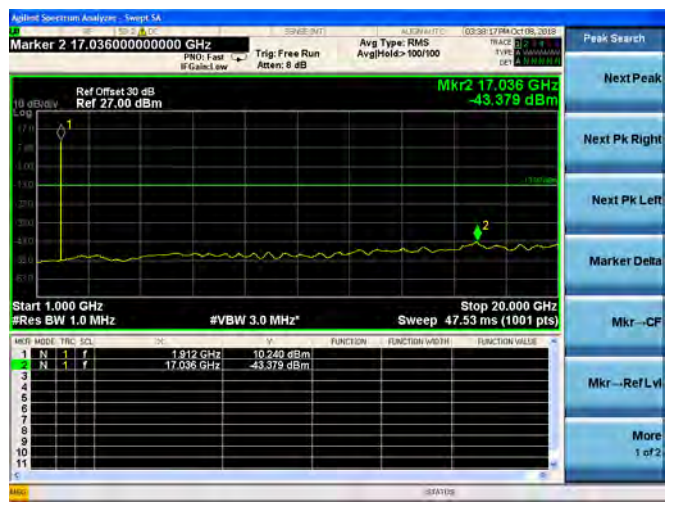
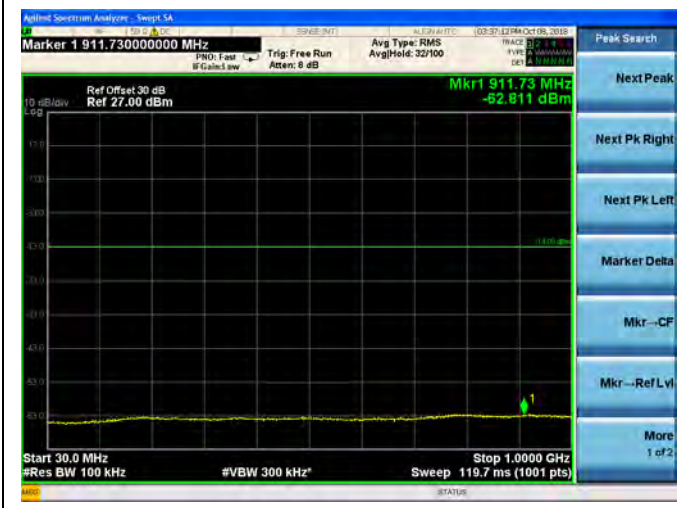




LTE Band 2 3MHz BW High Channel  
QPSK



16QAM

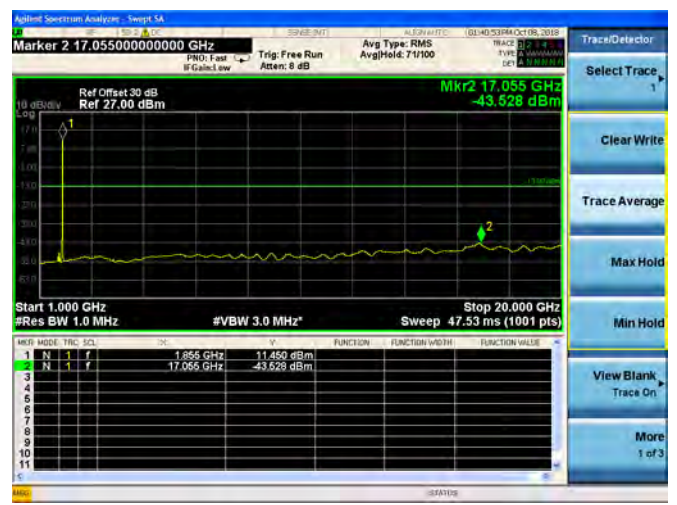




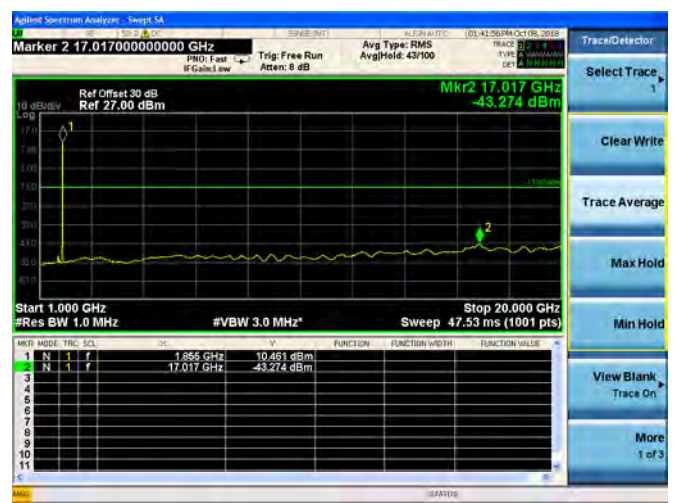


LTE Band 2 5MHz BW Low Channel

QPSK



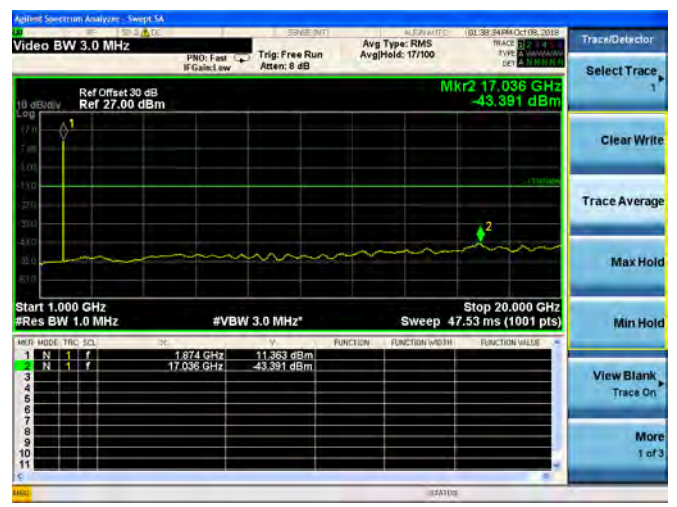
16QAM



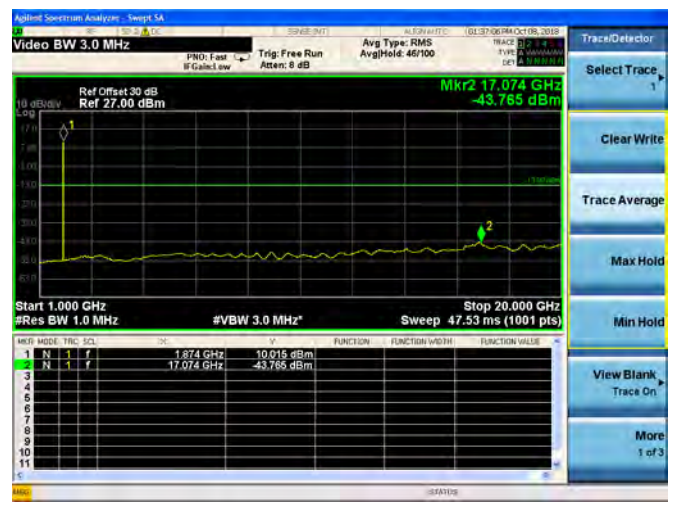


LTE Band 2 5MHz BW Mid Channel

QPSK

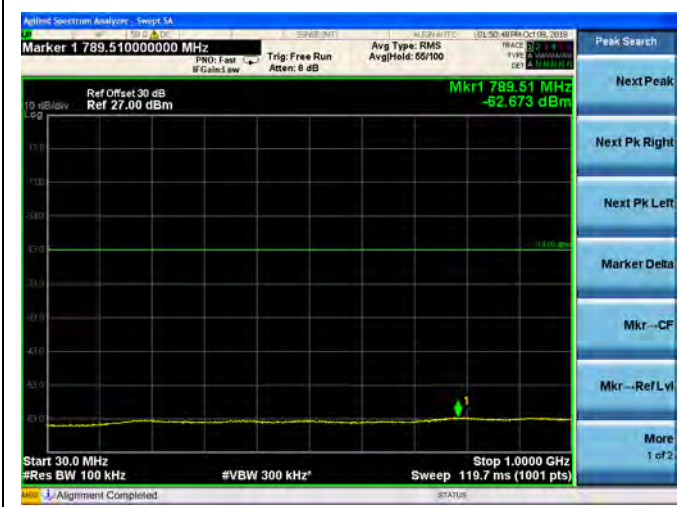


16QAM

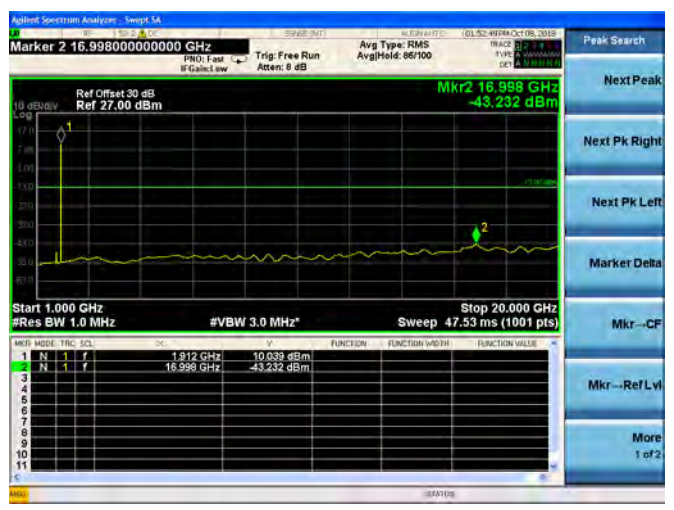
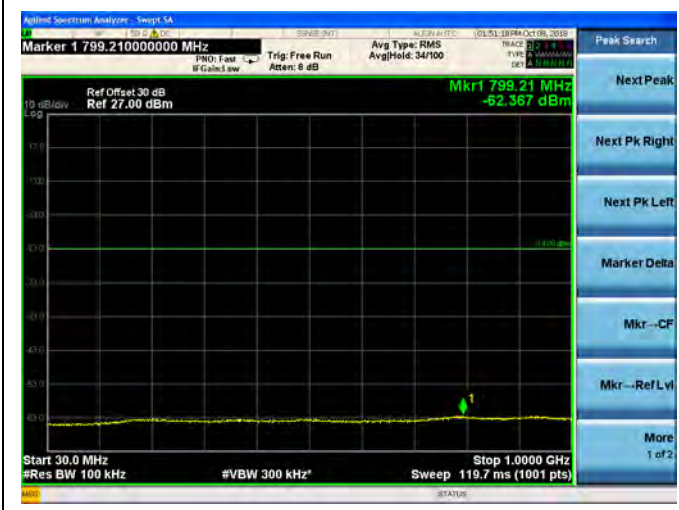




LTE Band 2 5MHz BW High Channel  
QPSK



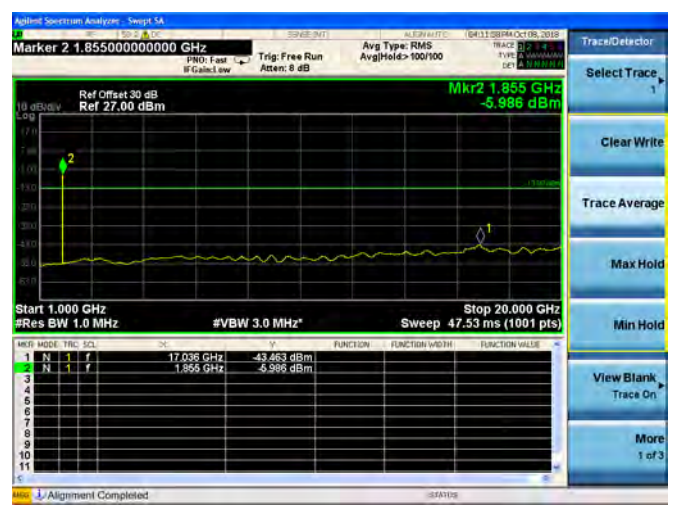
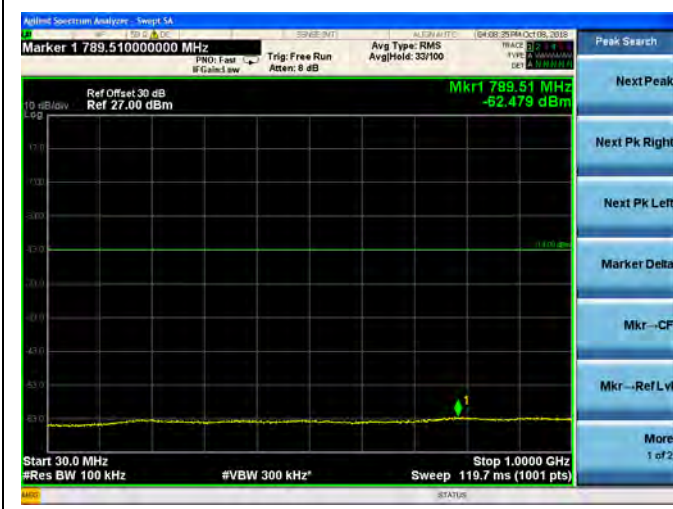
16QAM



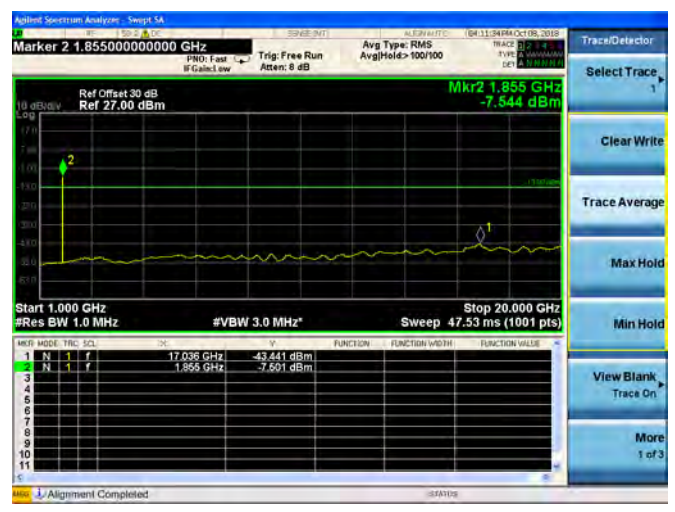
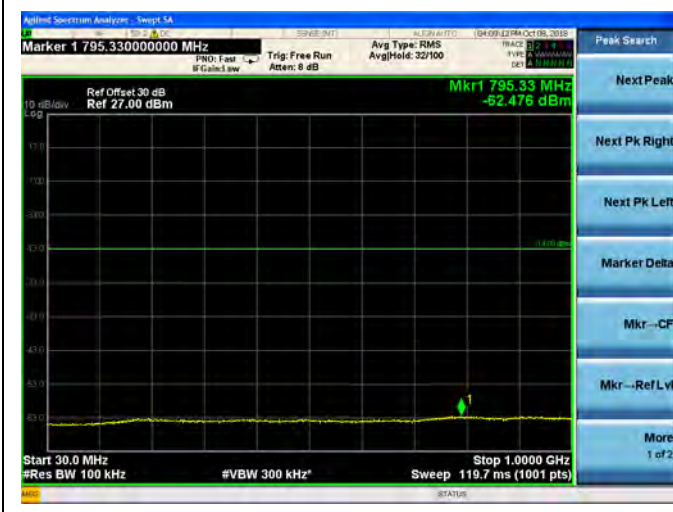


LTE Band 2 10MHz BW Low Channel

QPSK



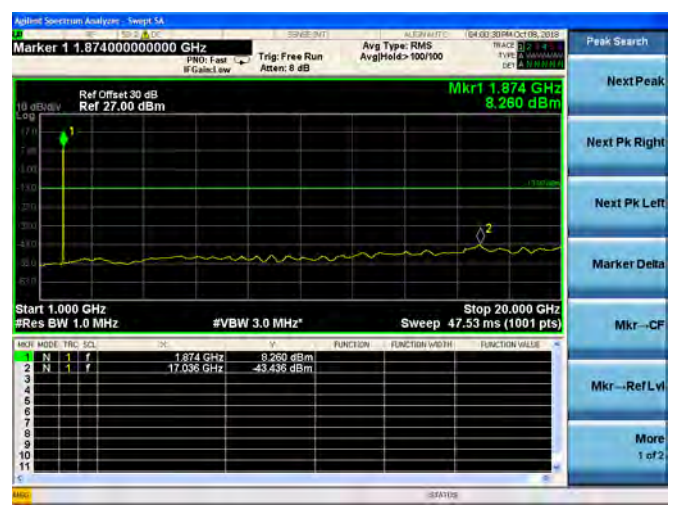
16QAM



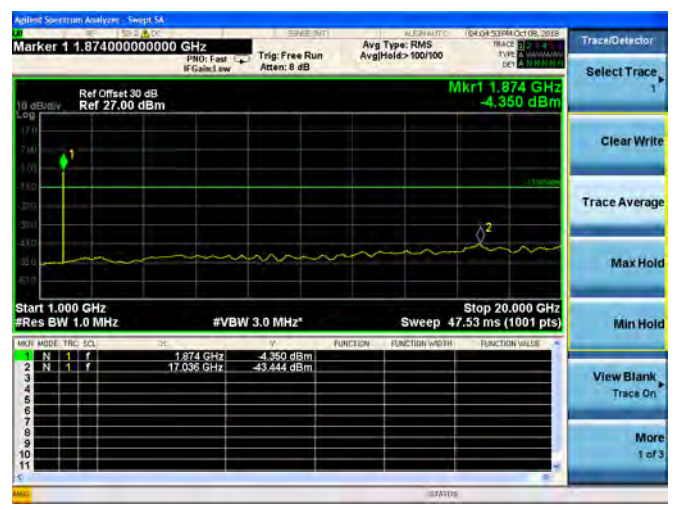


LTE Band 2 10MHz BW Mid Channel

QPSK



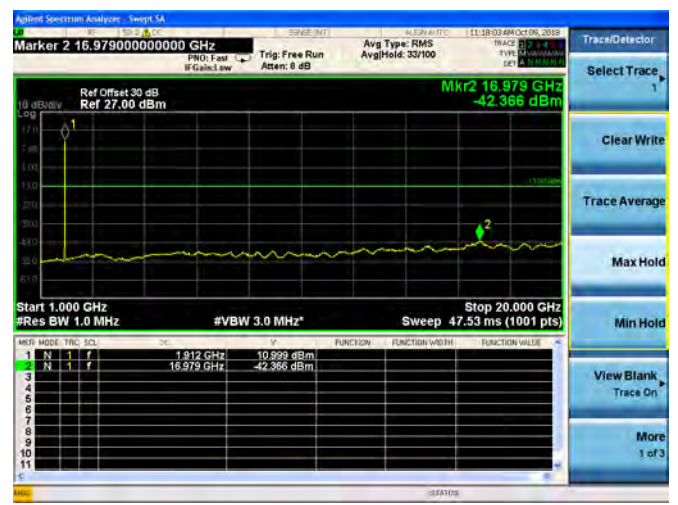
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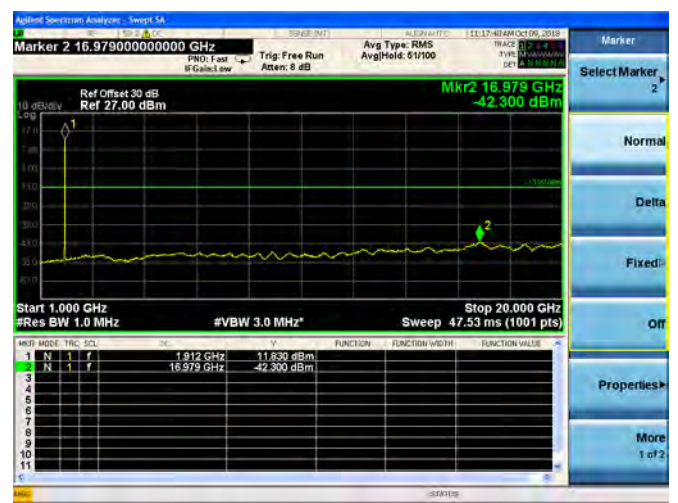
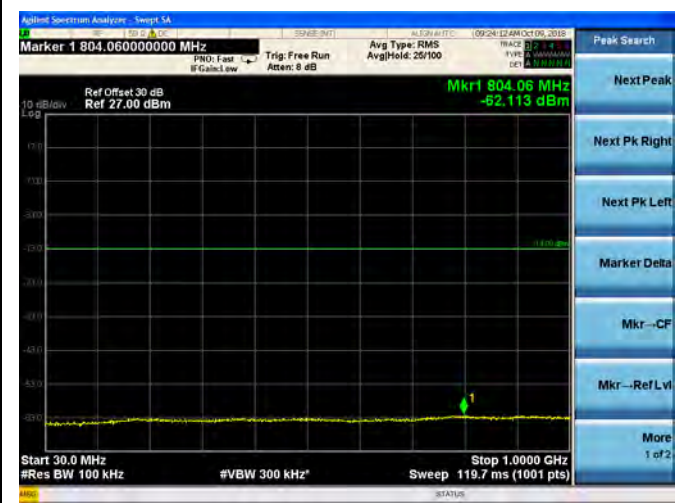


LTE Band 2 10MHz BW High Channel

QPSK



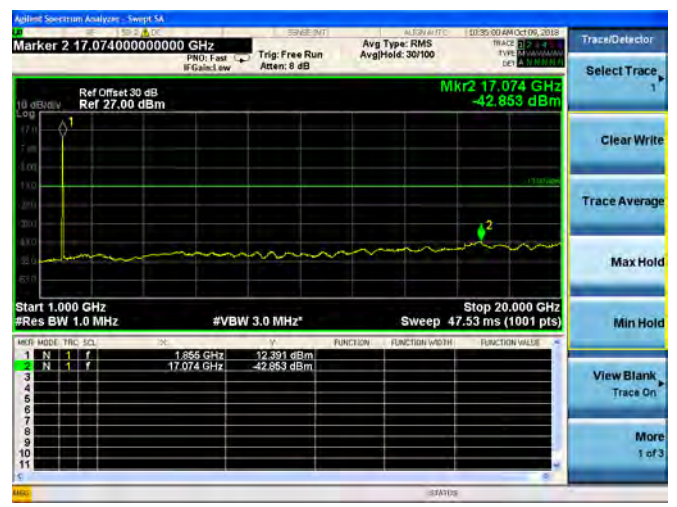
16QAM



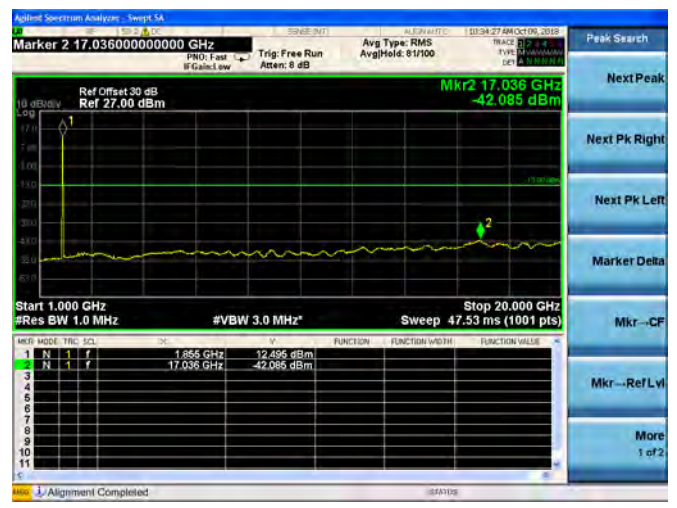
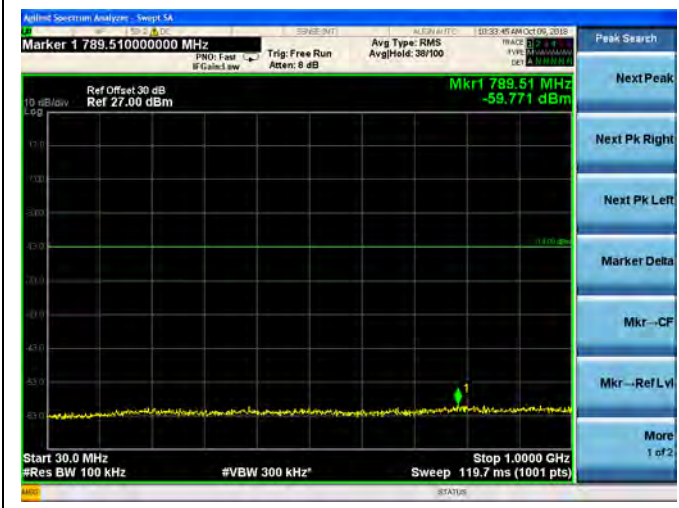


LTE Band 2 15MHz BW Low Channel

QPSK



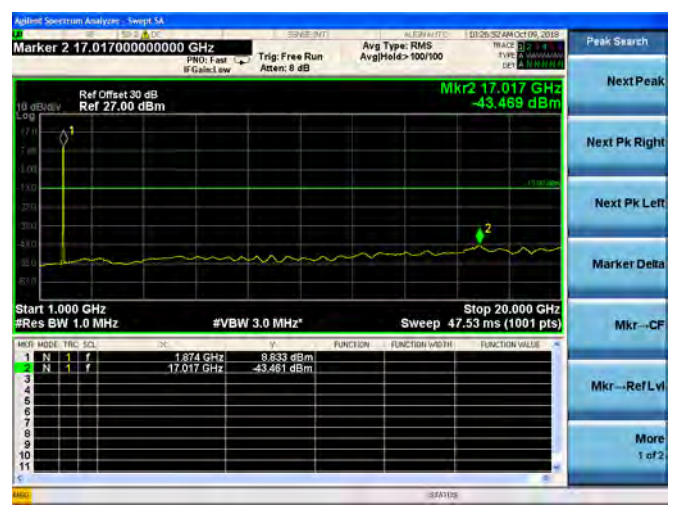
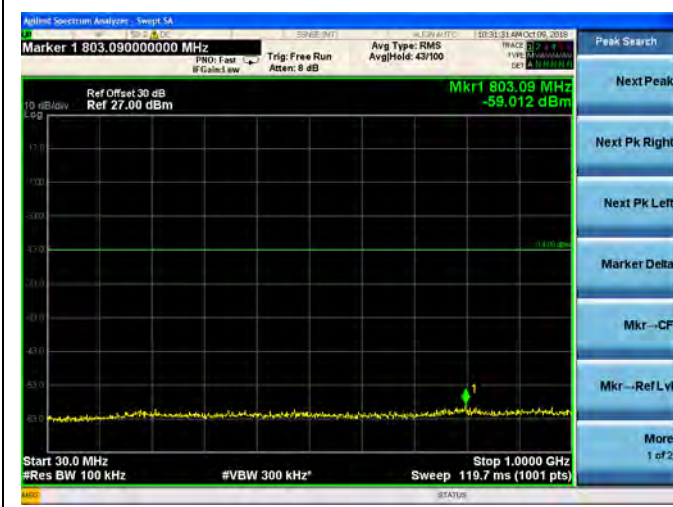
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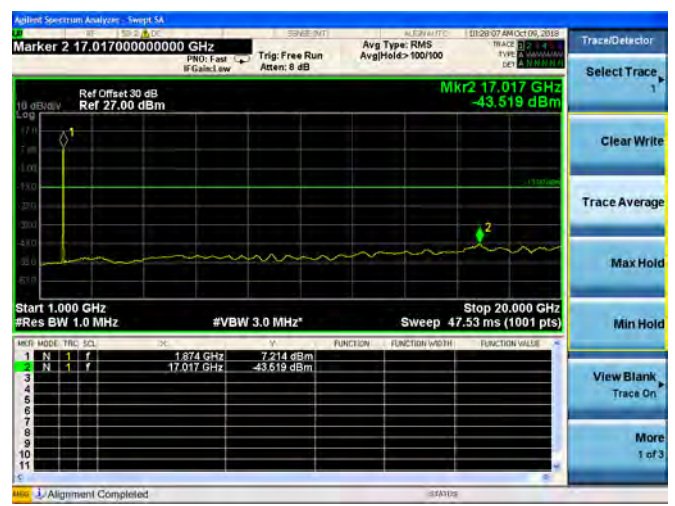


LTE Band 2 15MHz BW Mid Channel

QPSK



16QAM

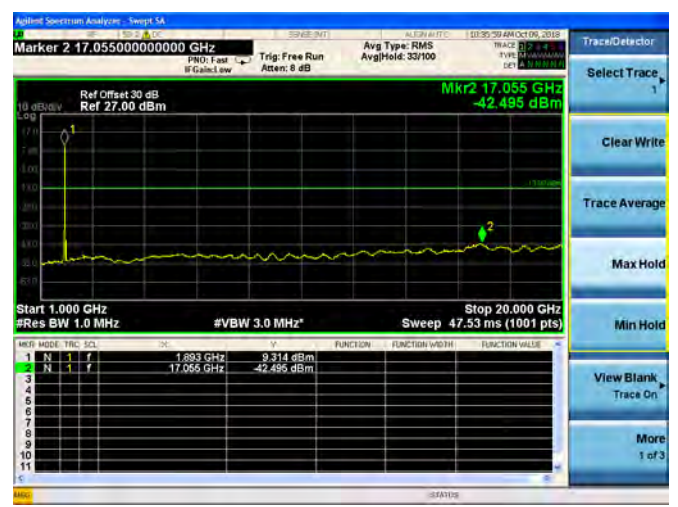
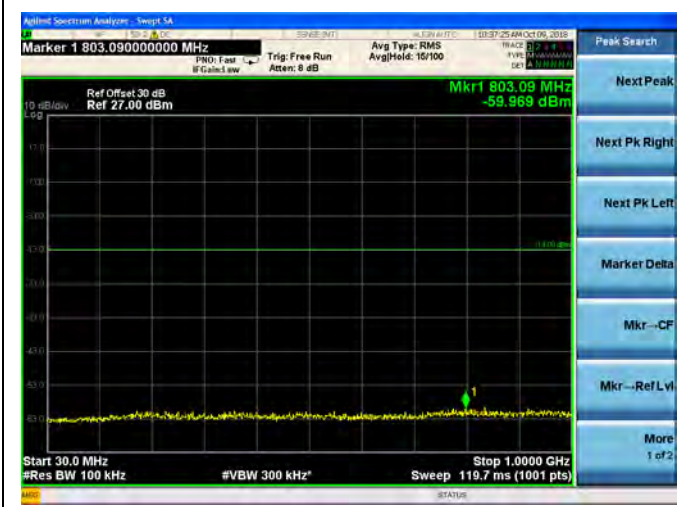




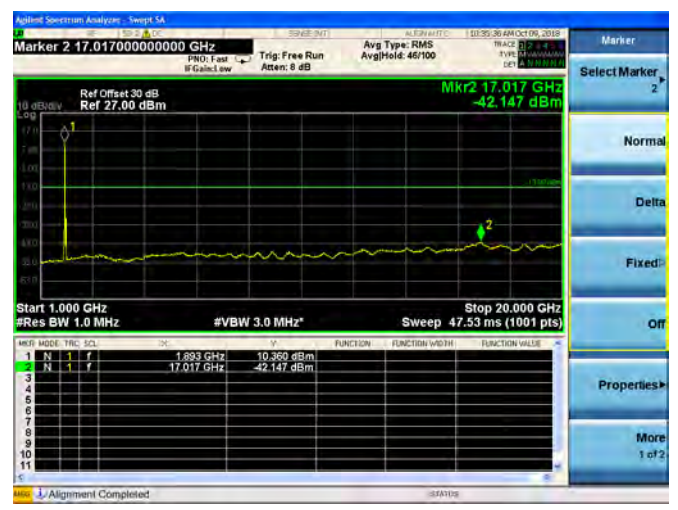
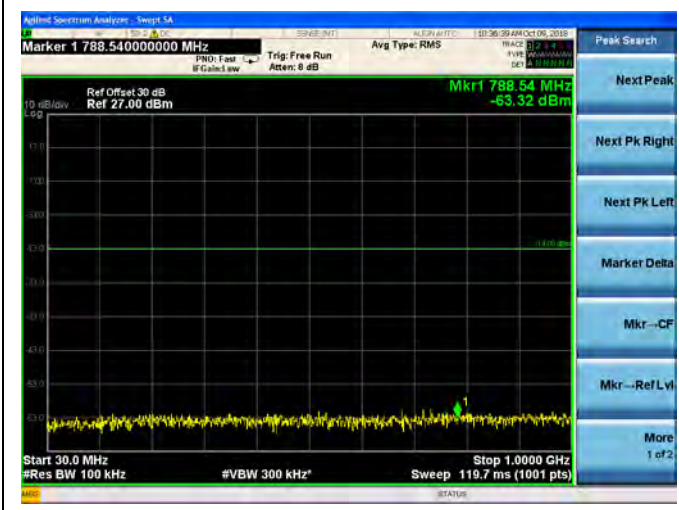


LTE Band 2 15MHz BW High Channel

QPSK



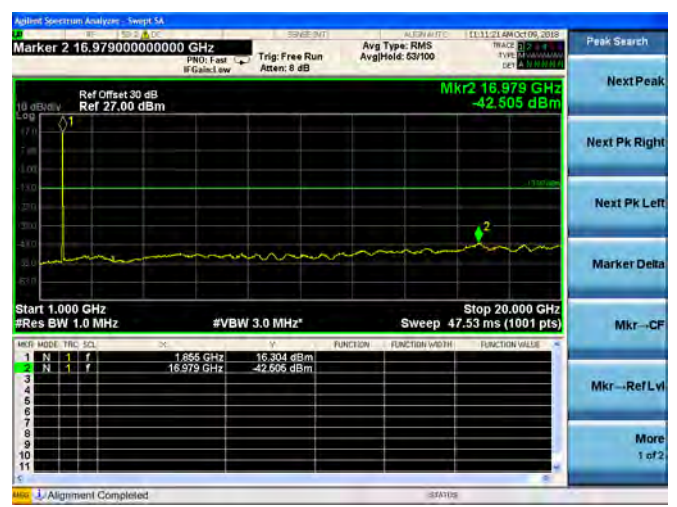
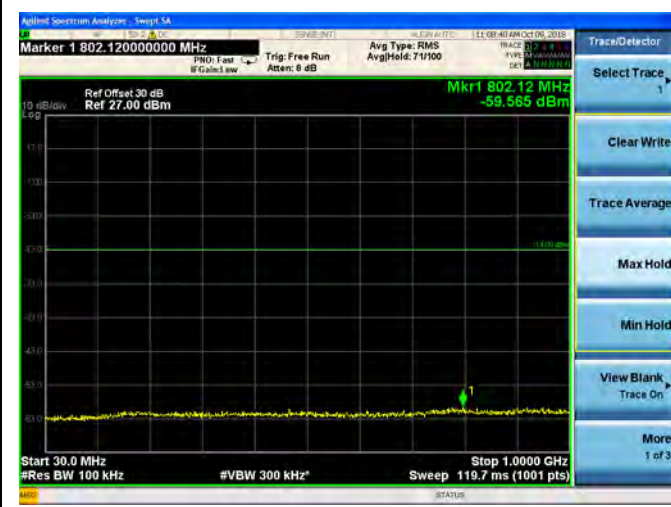
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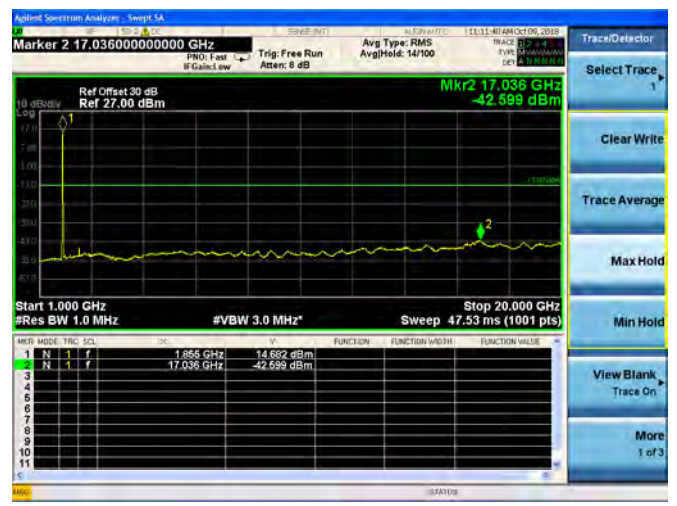


LTE Band 2 20MHz BW Low Channel

QPSK



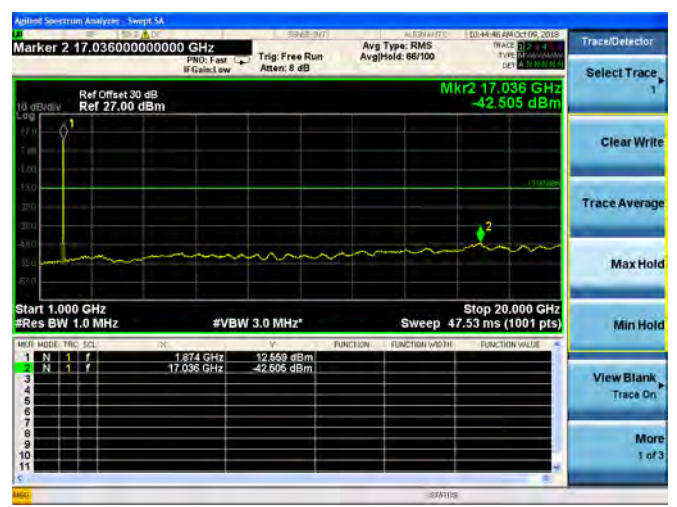
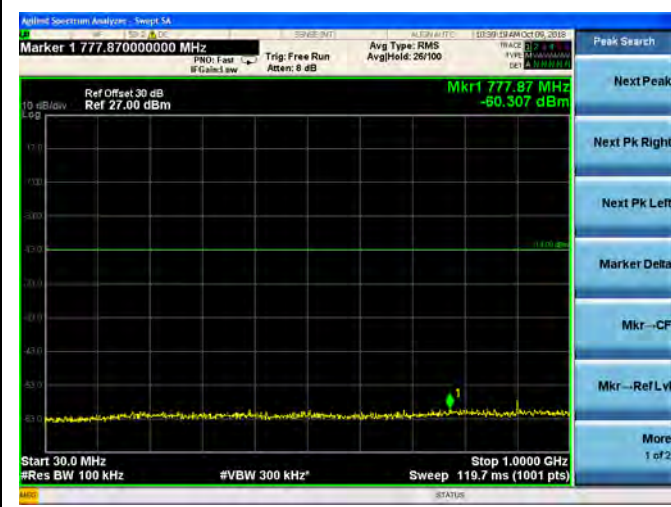
16QAM



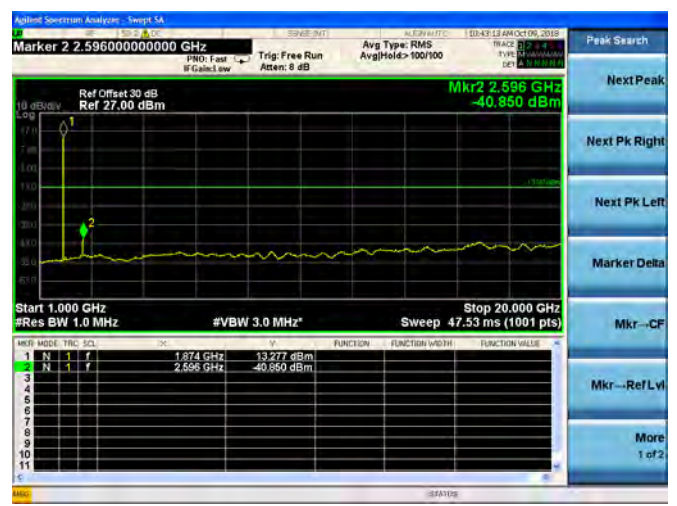
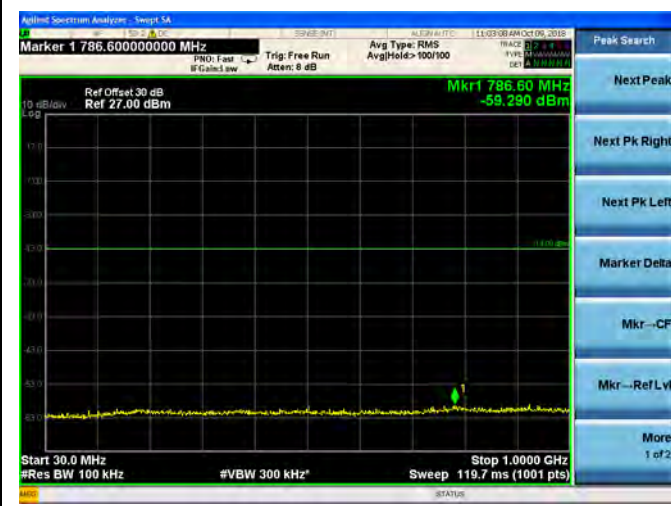


LTE Band 2 20MHz BW Mid Channel

QPSK



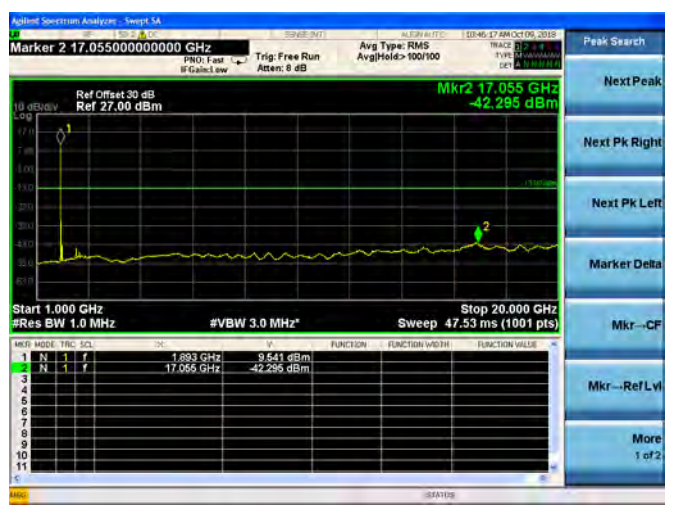
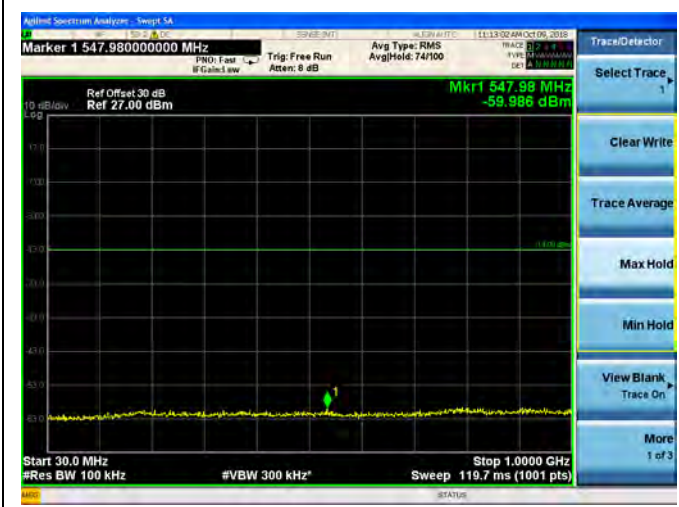
16QAM



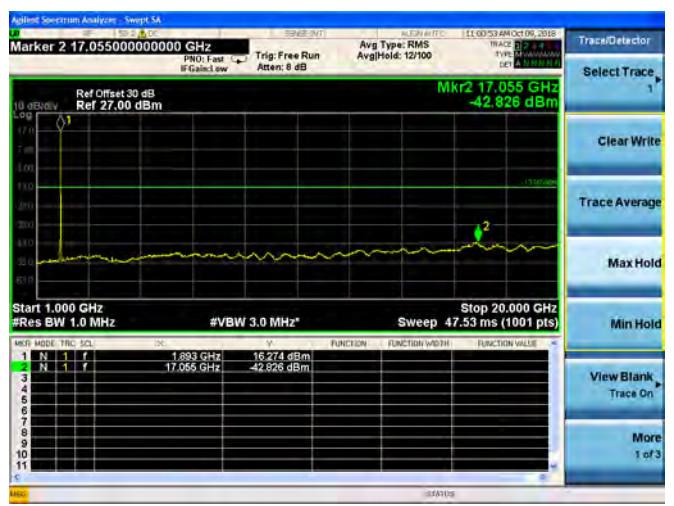
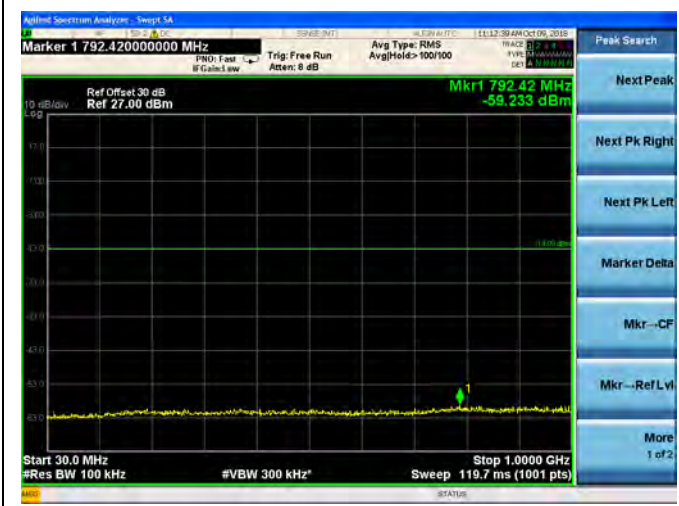


LTE Band 2 20MHz BW High Channel

QPSK



16QAM





LTE Band 4 1.4MHz BW Low Channel

QPSK



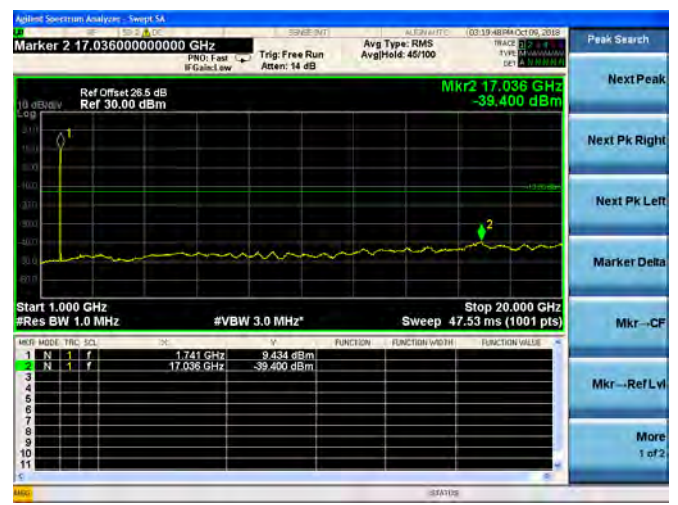
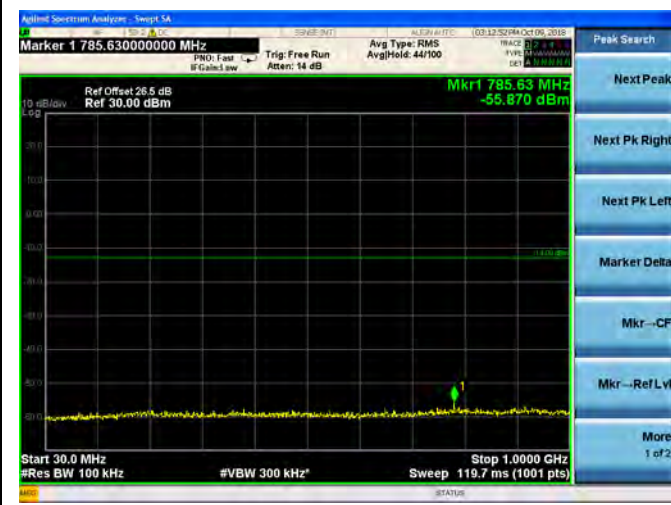
16QAM



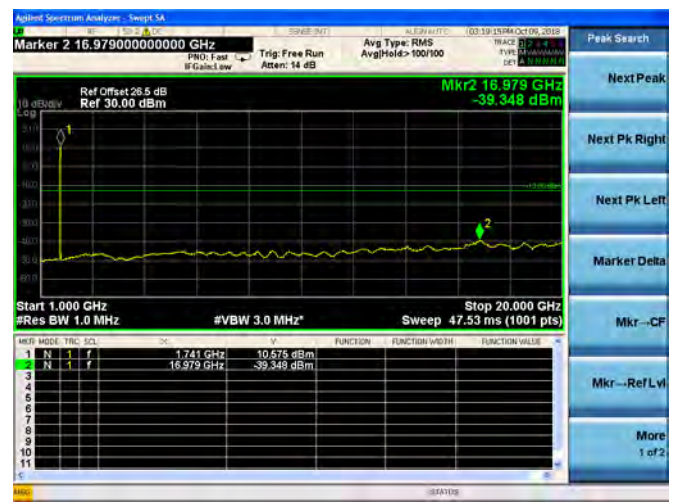
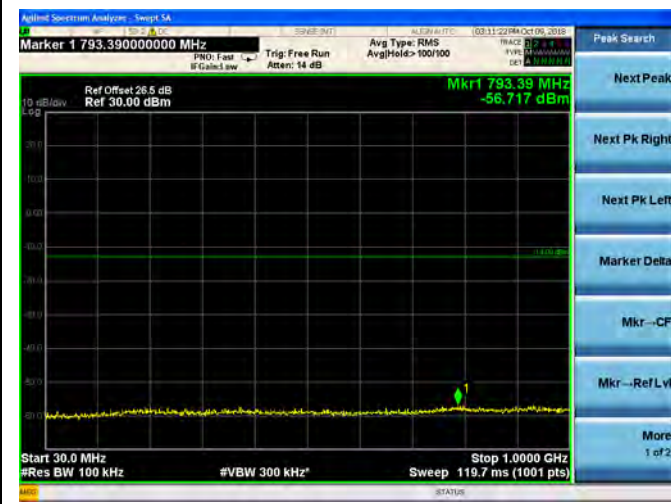


LTE Band 4 1.4MHz BW Mid Channel

QPSK



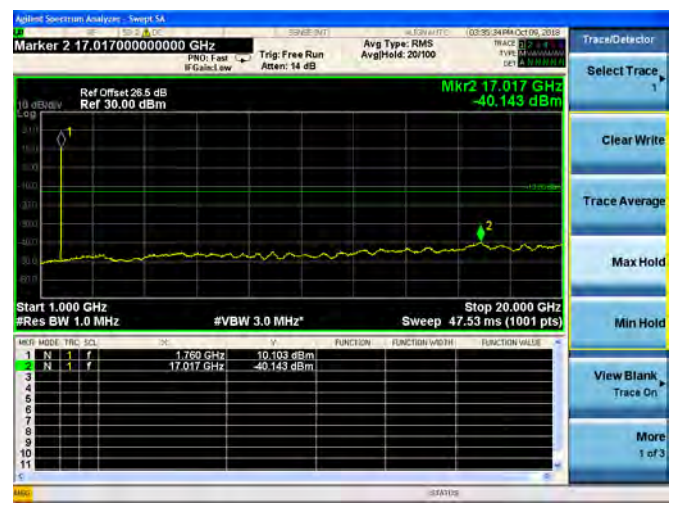
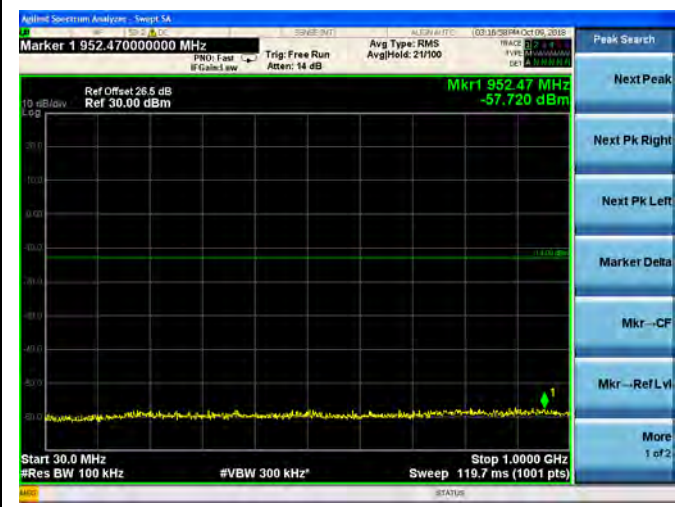
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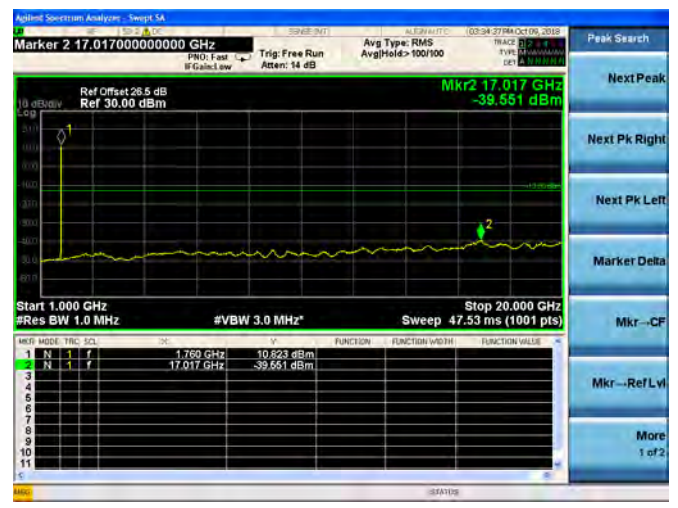


LTE Band 4 1.4MHz BW High Channel

QPSK



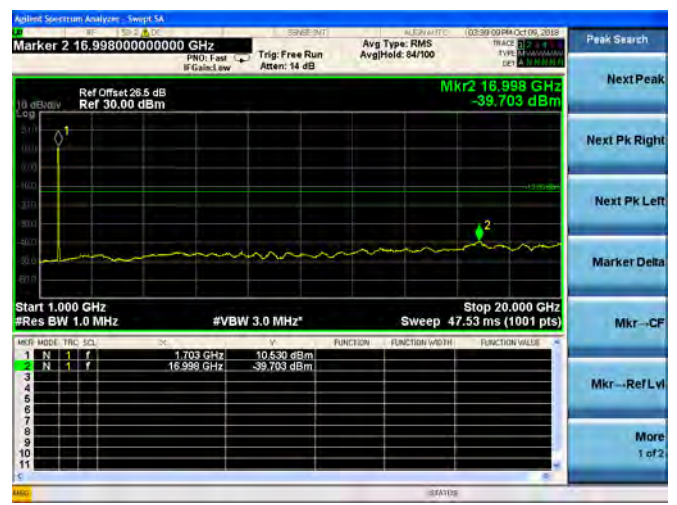
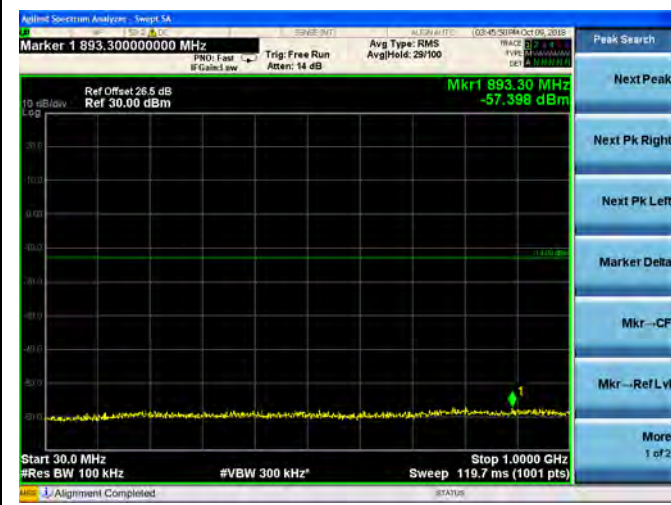
16QAM



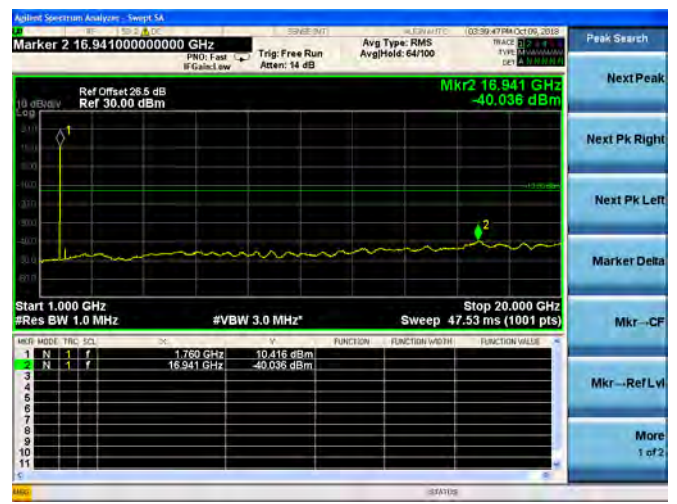
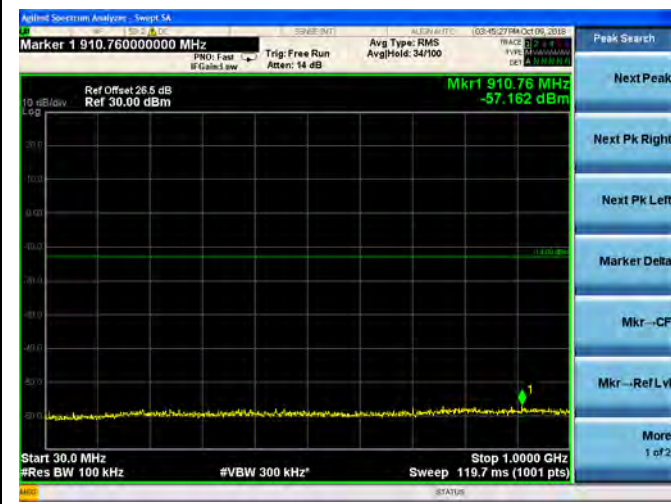


LTE Band 4 3MHz BW Low Channel

QPSK



16QAM

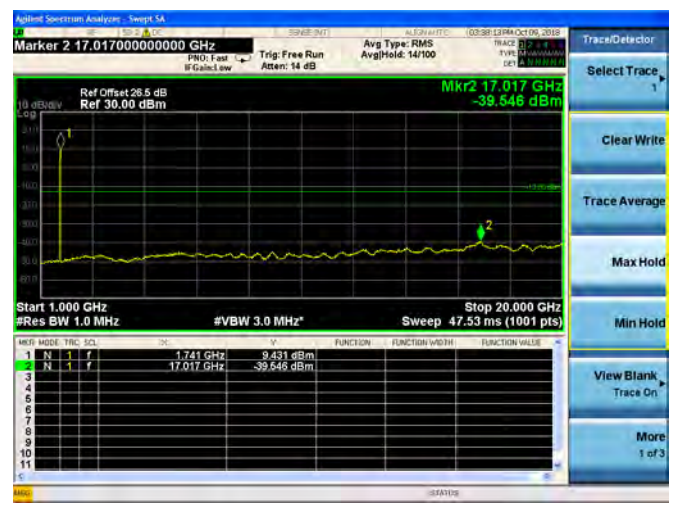
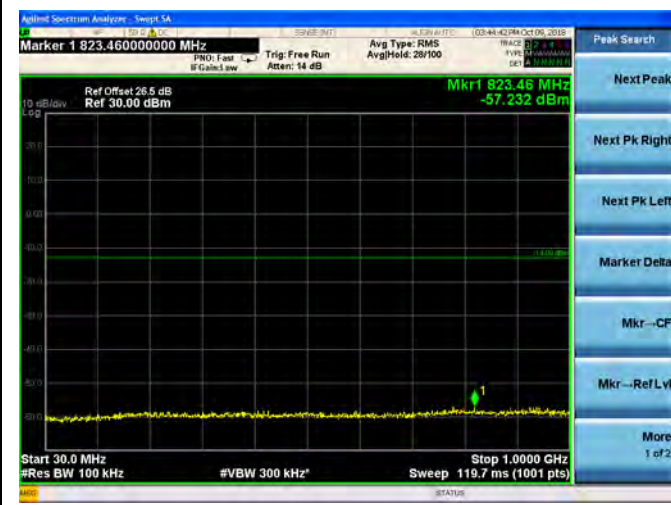




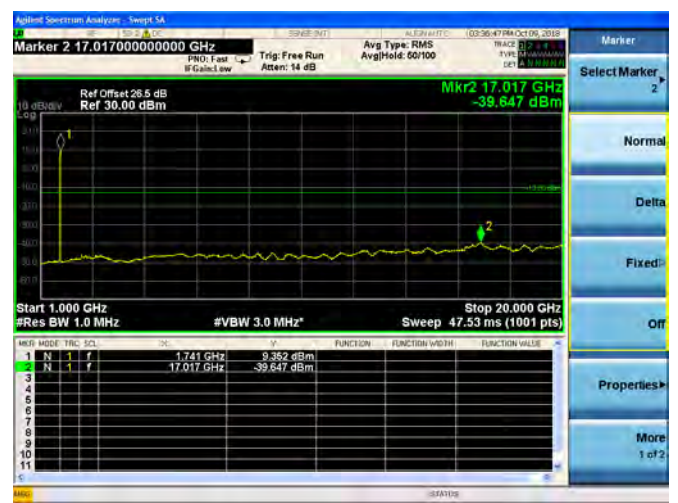
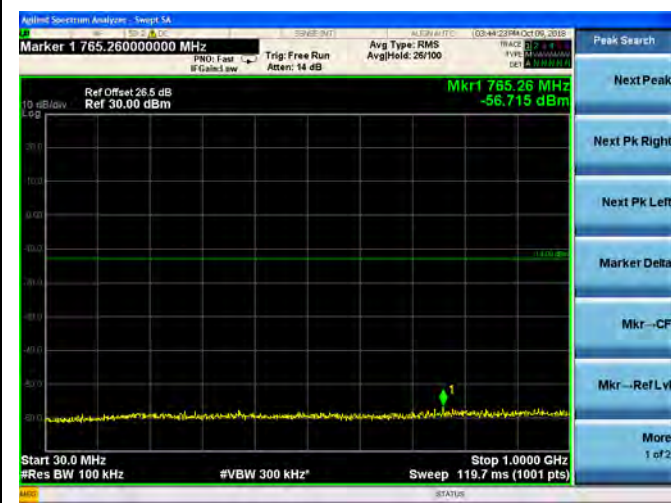


LTE Band 4 3MHz BW Mid Channel

QPSK



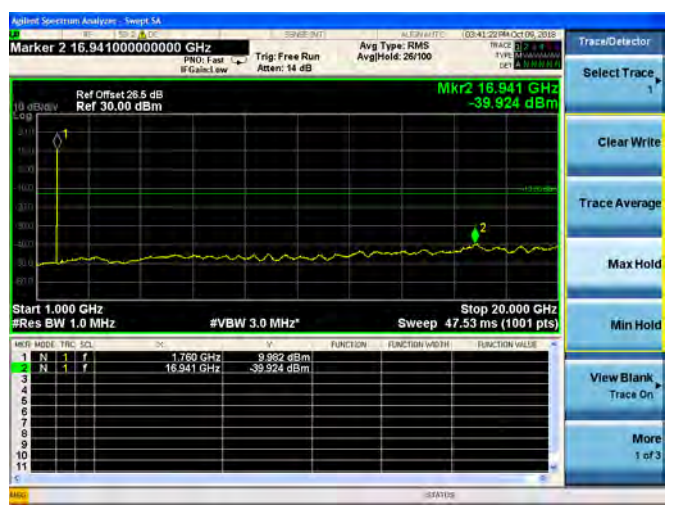
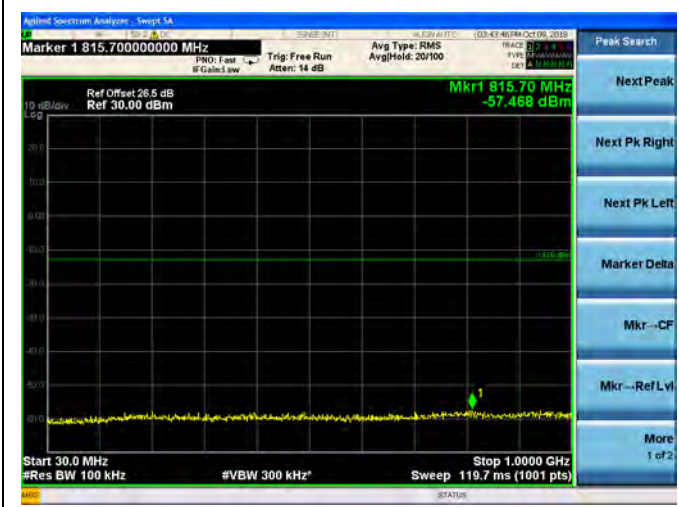
16QAM



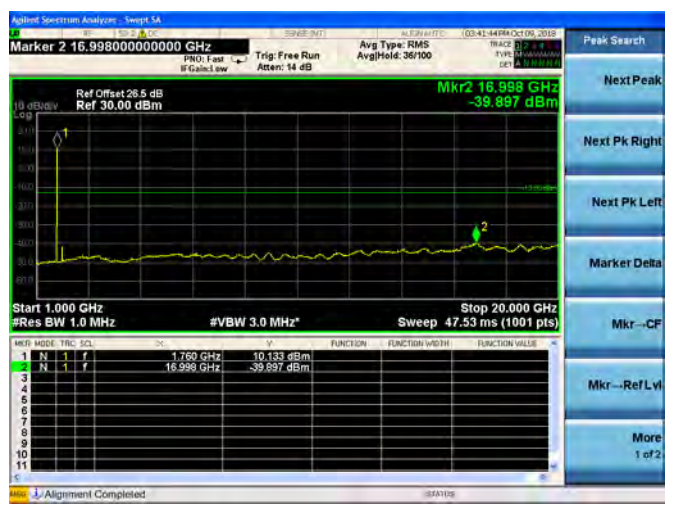
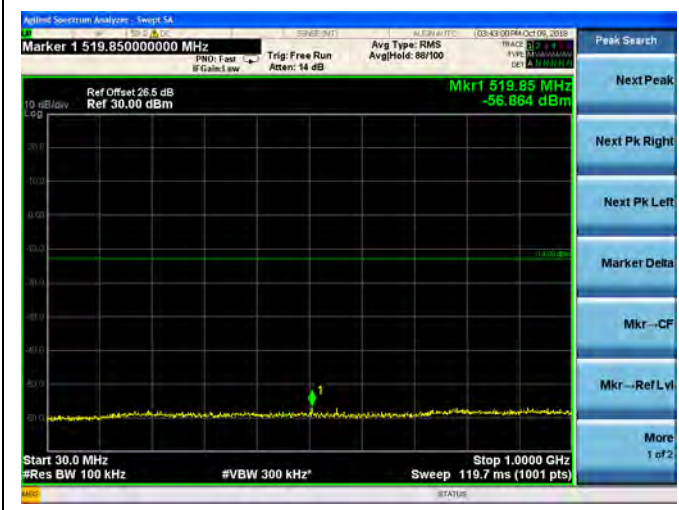


LTE Band 4 3MHz BW High Channel

QPSK



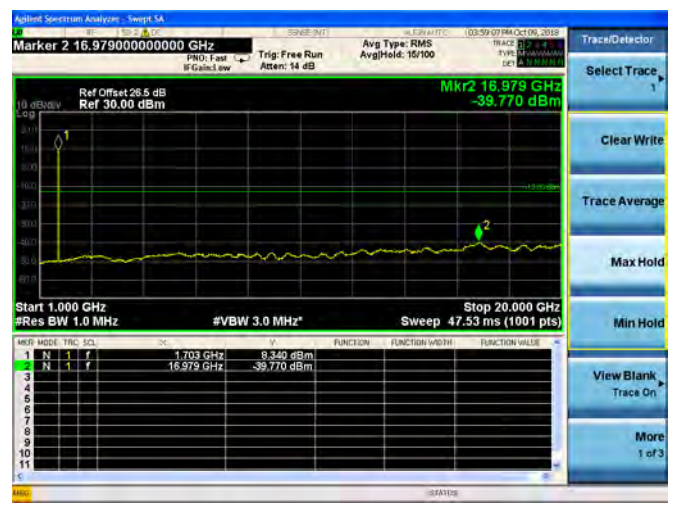
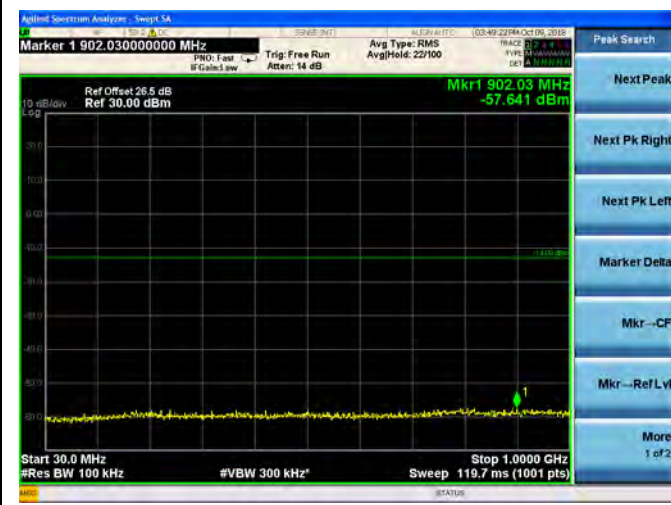
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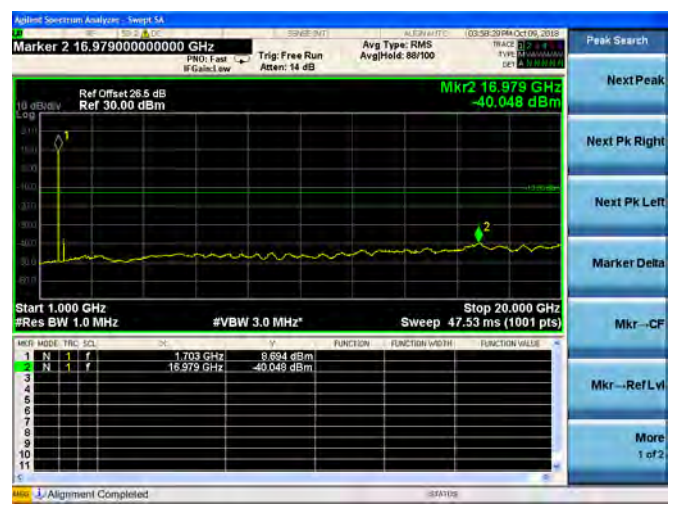
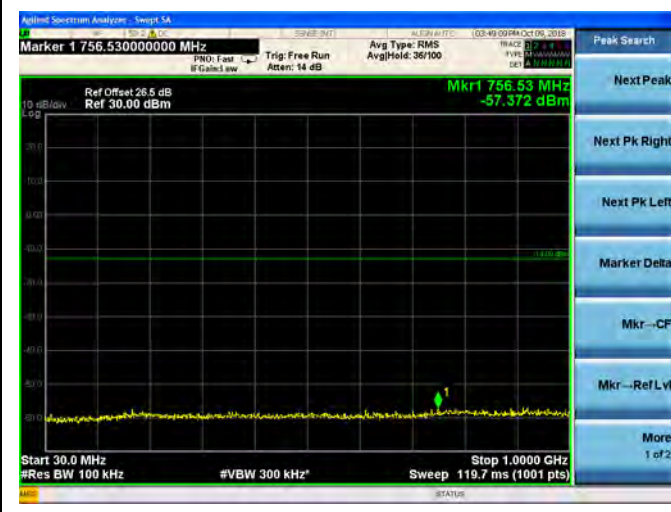


LTE Band 4 5MHz BW Low Channel

QPSK



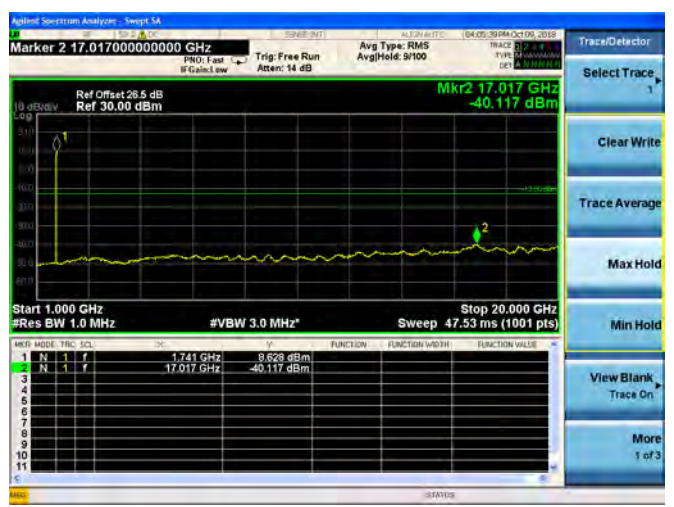
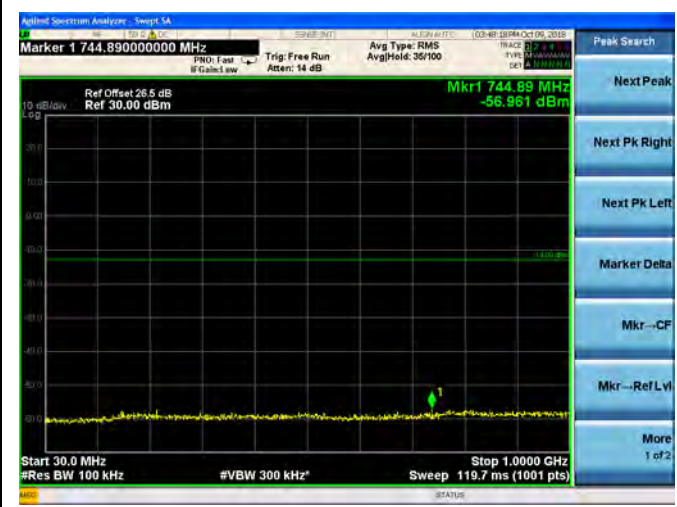
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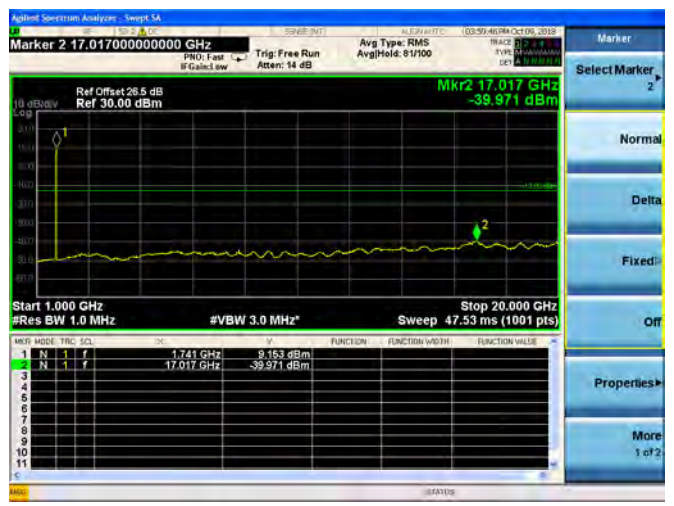


LTE Band 4 5MHz BW Mid Channel

QPSK



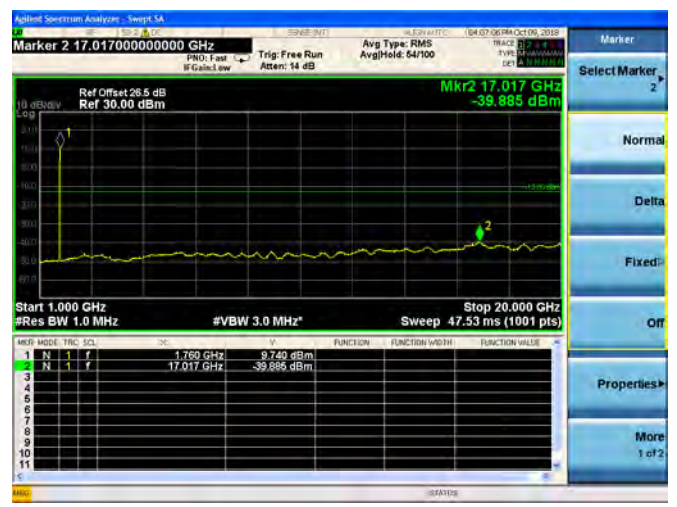
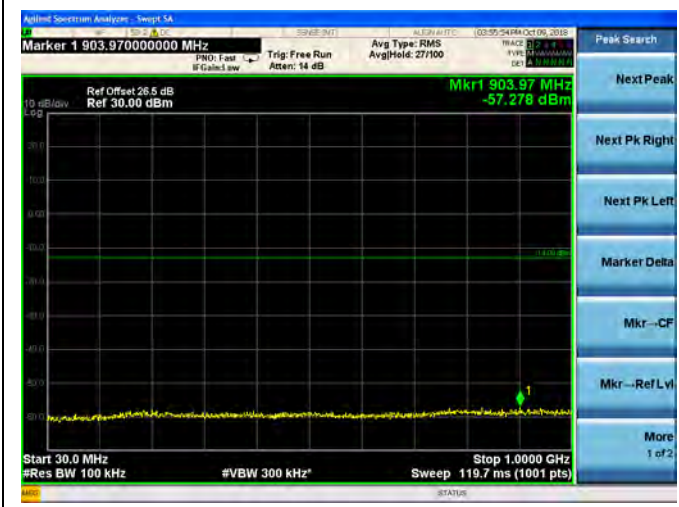
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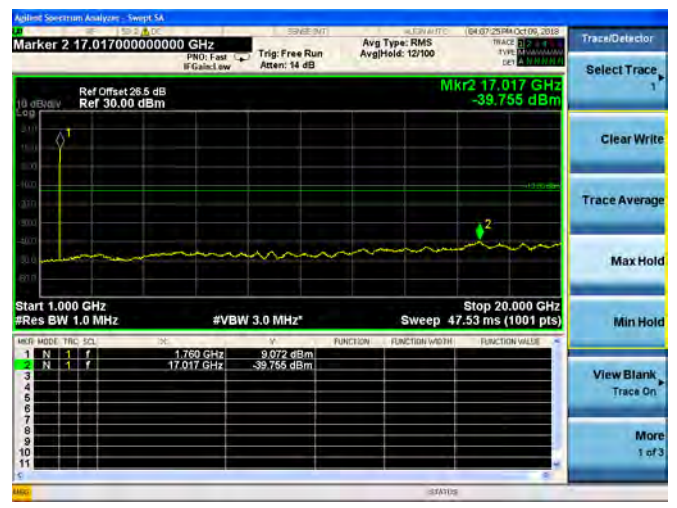
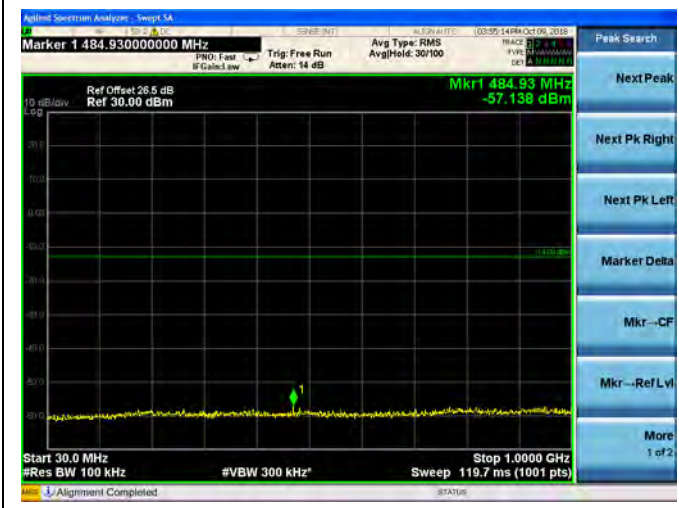


LTE Band 4 5MHz BW High Channel

QPSK



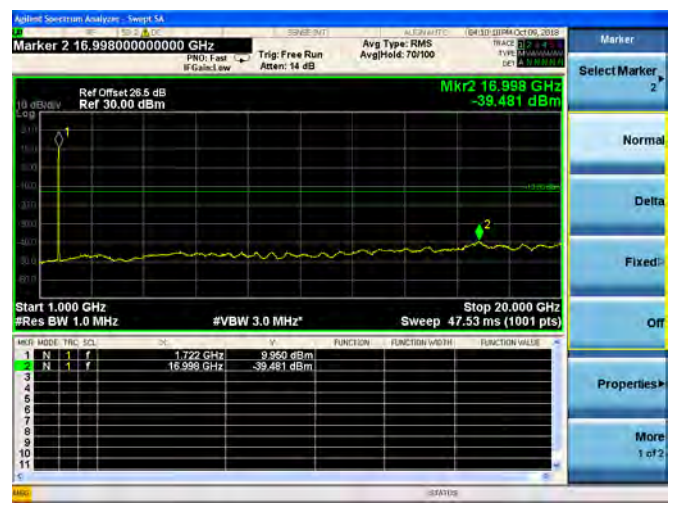
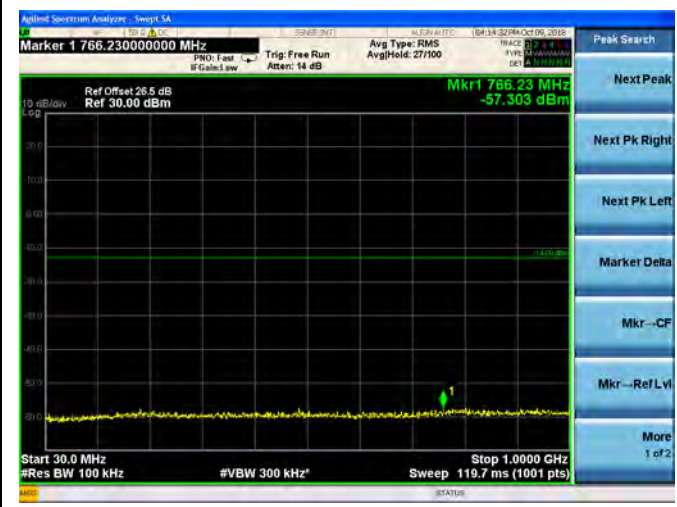
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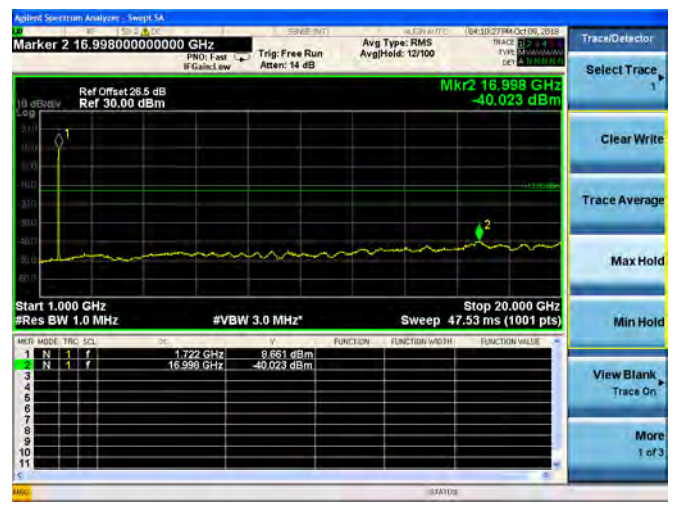
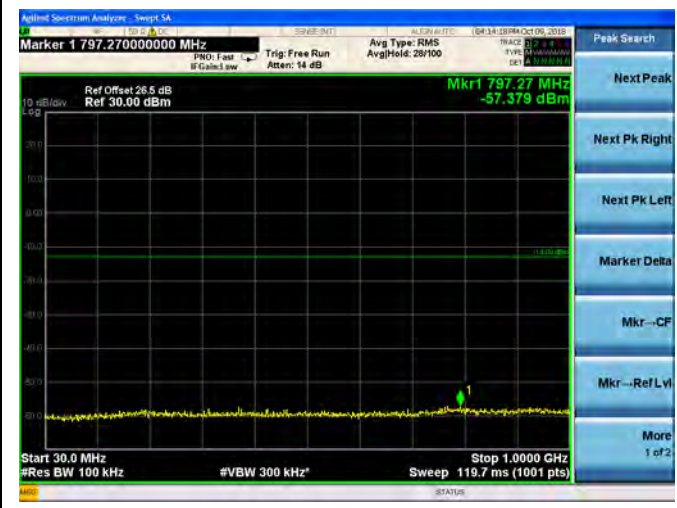


LTE Band 4 10MHz BW Low Channel

QPSK



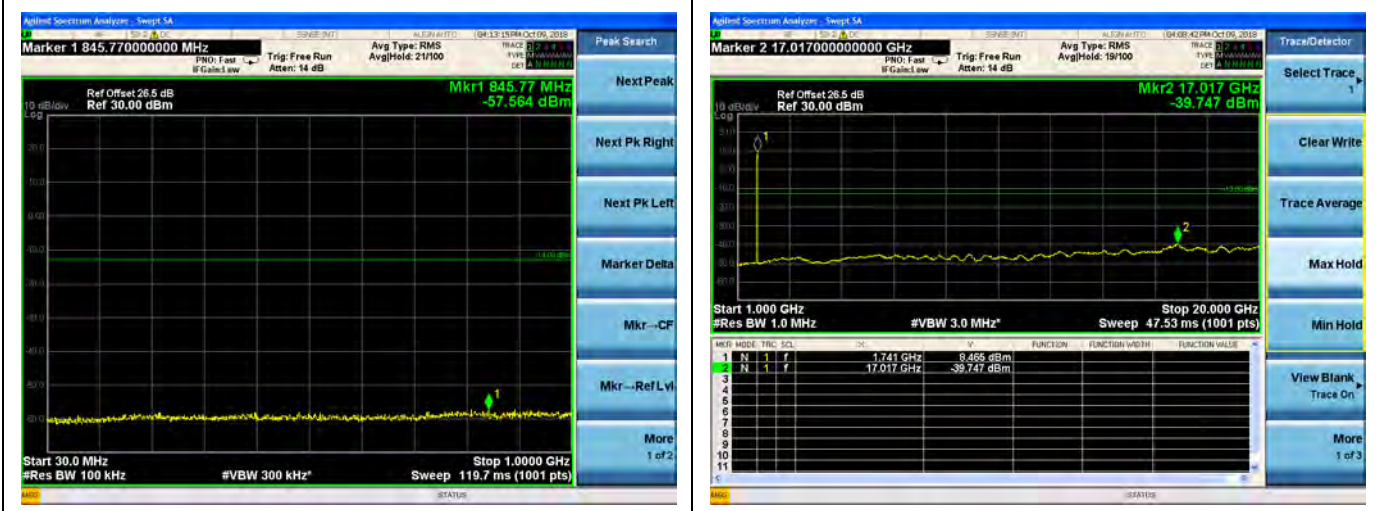
16QAM





LTE Band 4 10MHz BW Mid Channel

QPSK



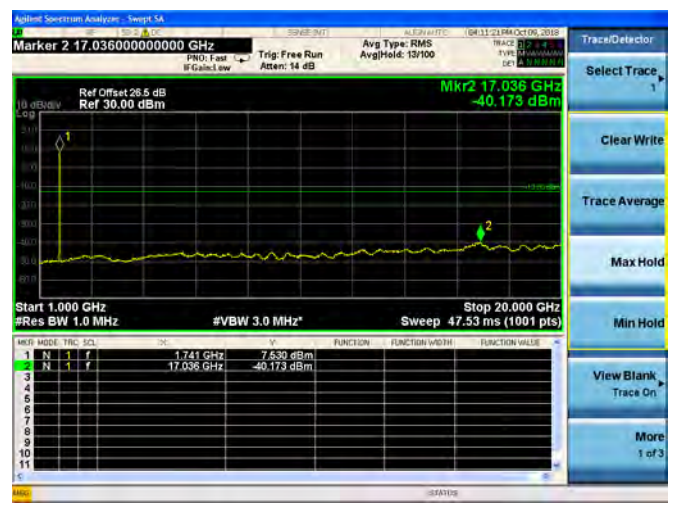
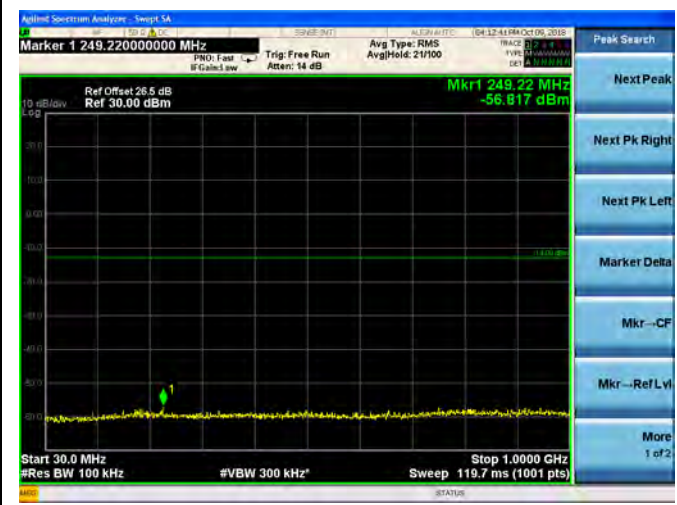
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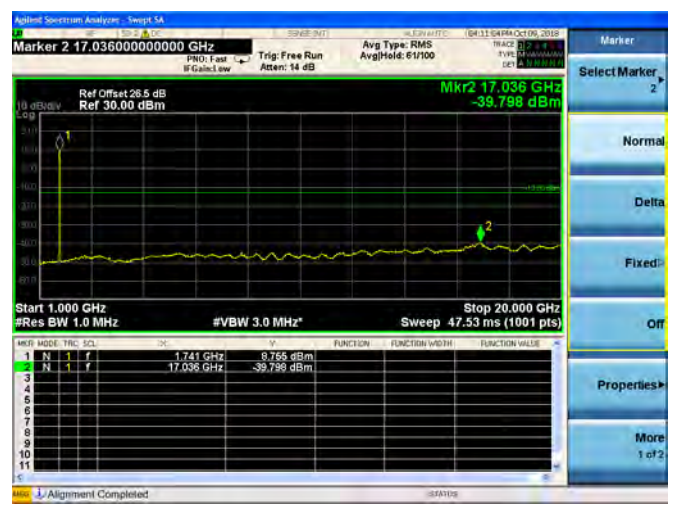
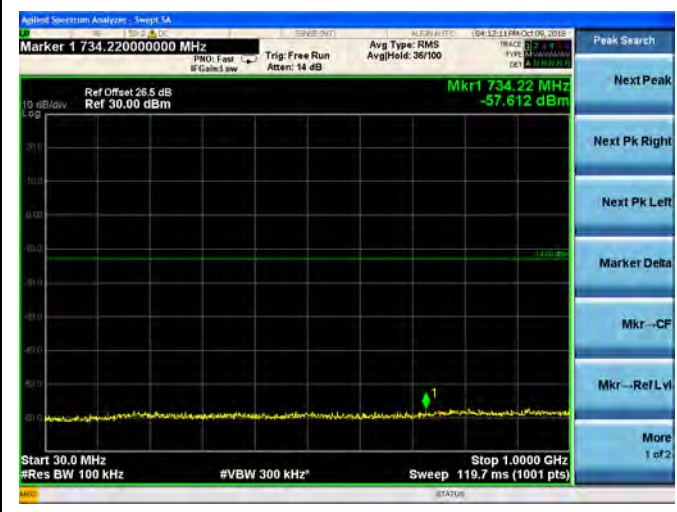


LTE Band 4 10MHz BW High Channel

QPSK



16QAM

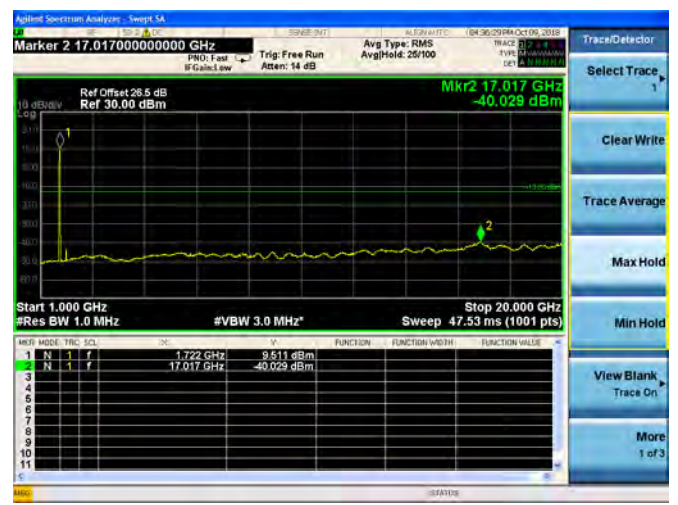
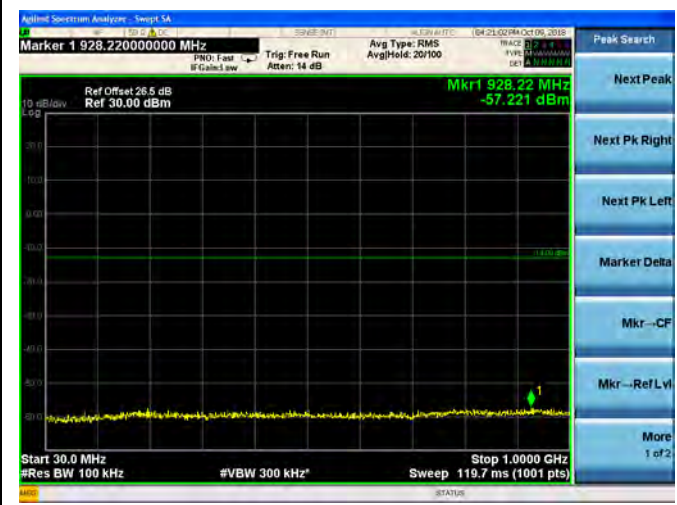




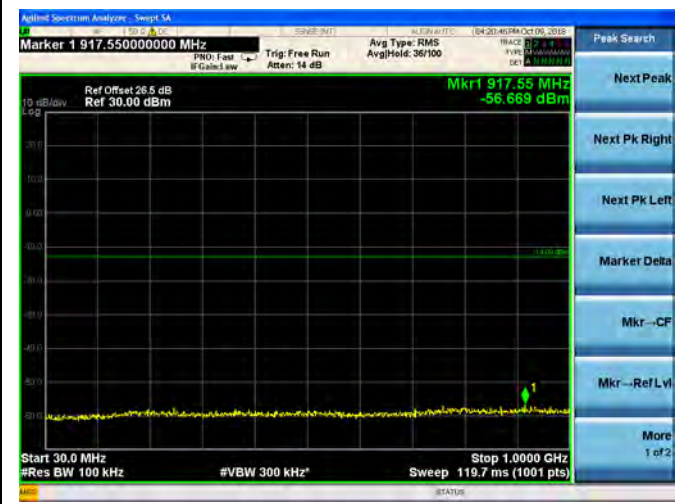


LTE Band 4 15MHz BW Low Channel

QPSK



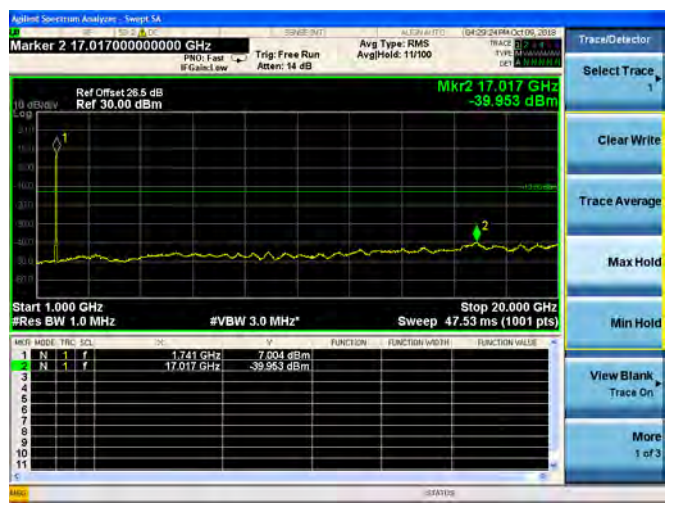
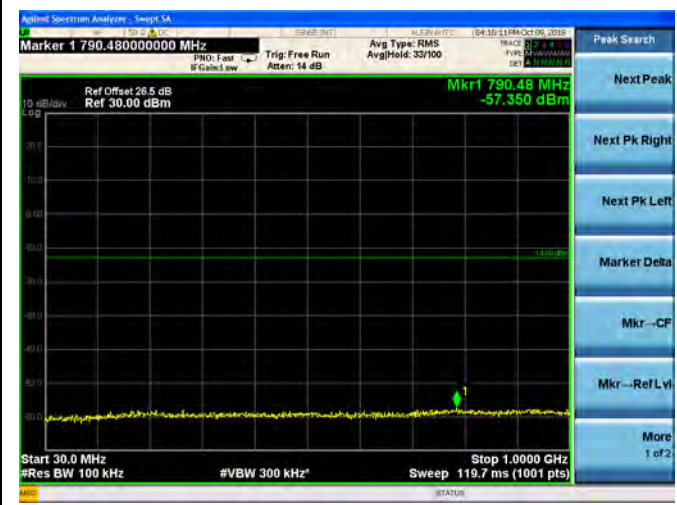
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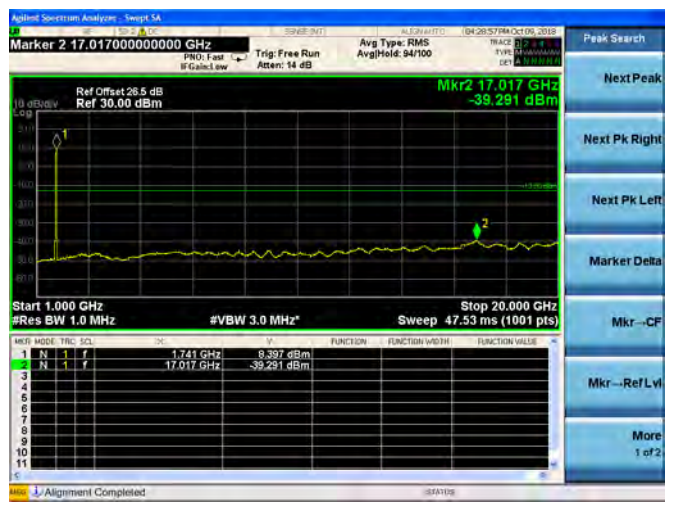
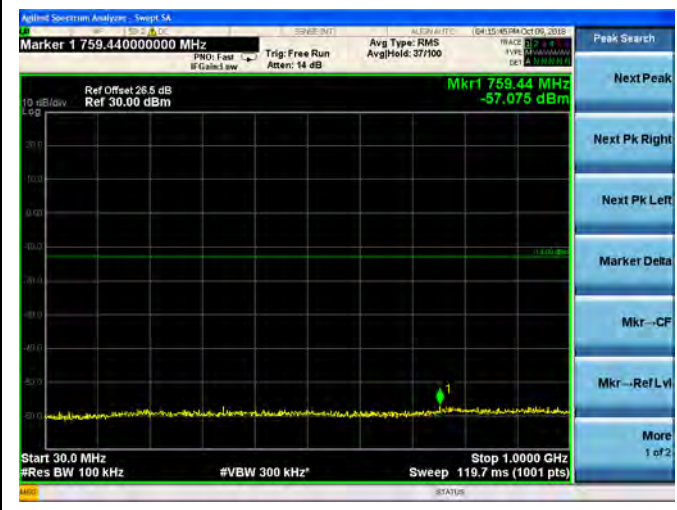


LTE Band 4 15MHz BW Mid Channel

QPSK



16QAM



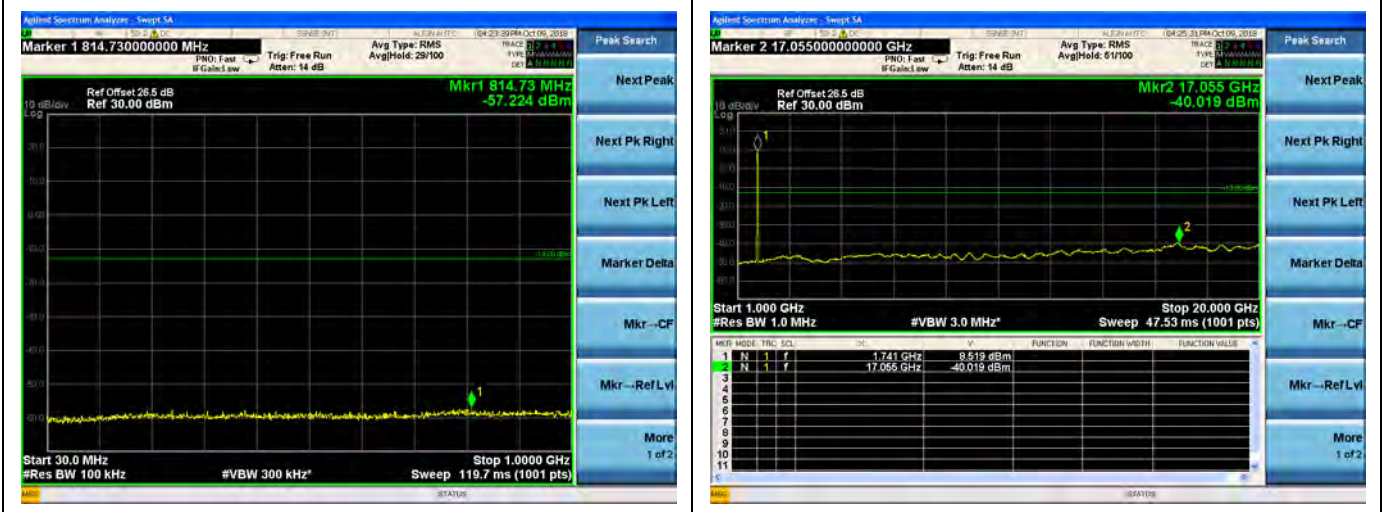


LTE Band 4 15MHz BW High Channel

QPSK



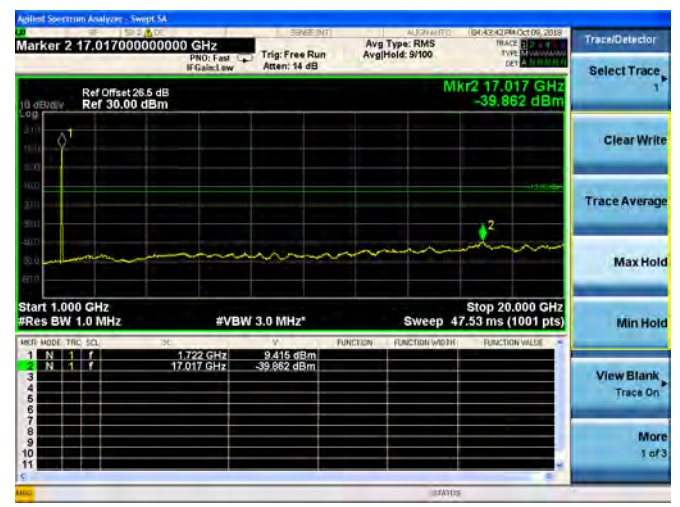
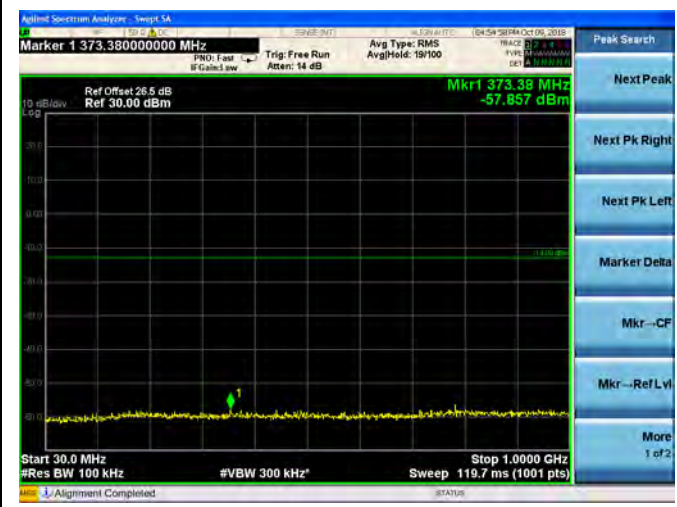
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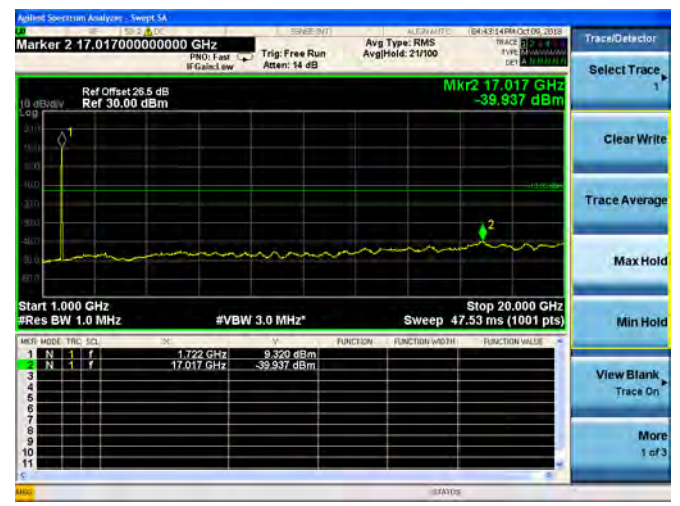
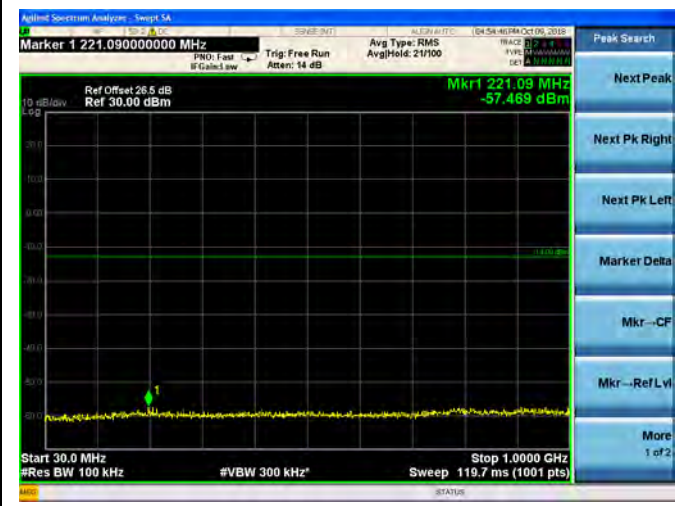


LTE Band 4 20MHz BW Low Channel

QPSK



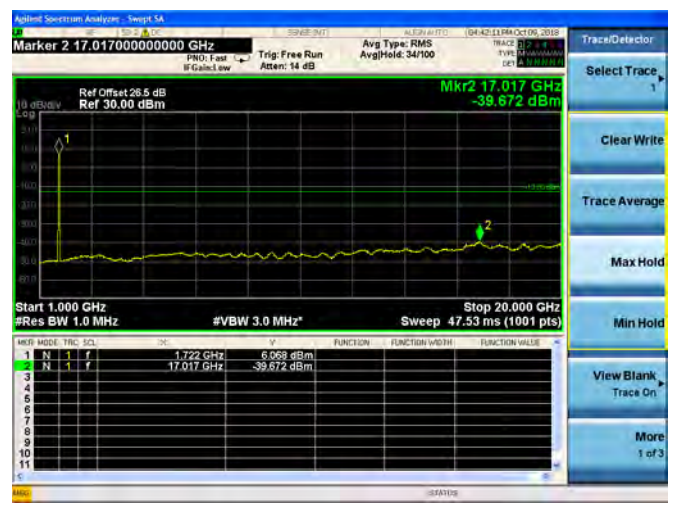
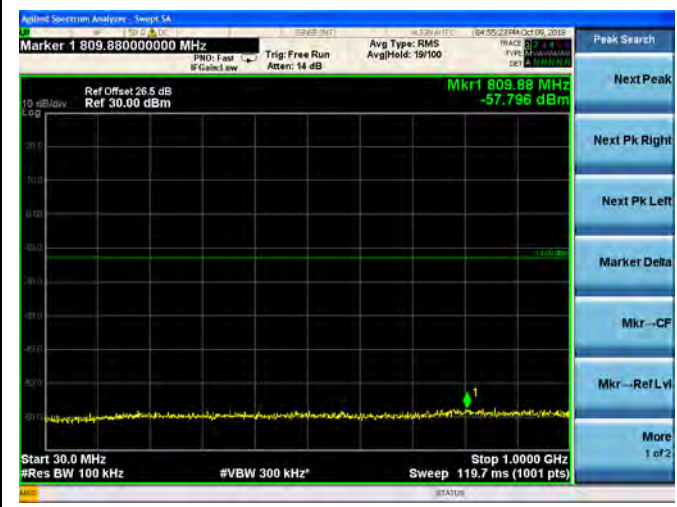
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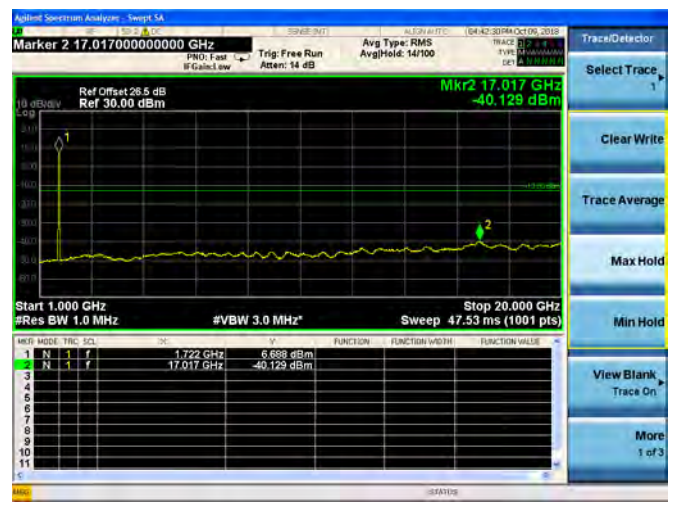
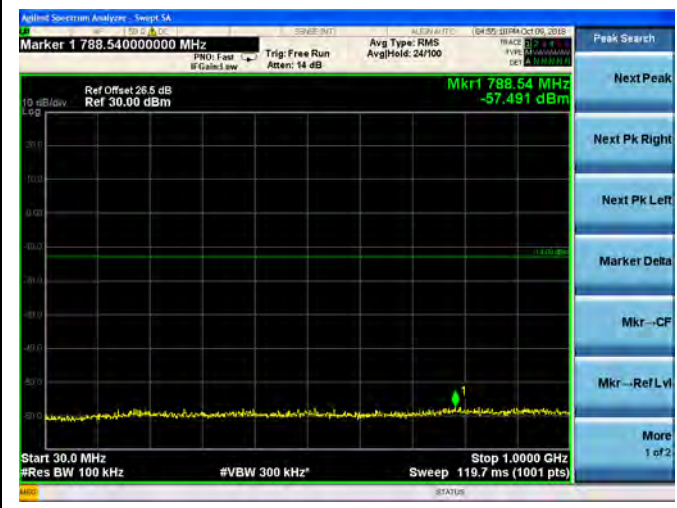


LTE Band 4 20MHz BW Mid Channel

QPSK



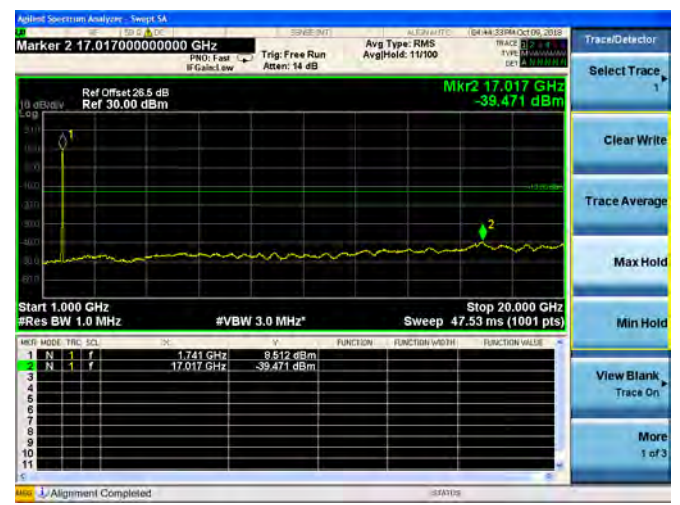
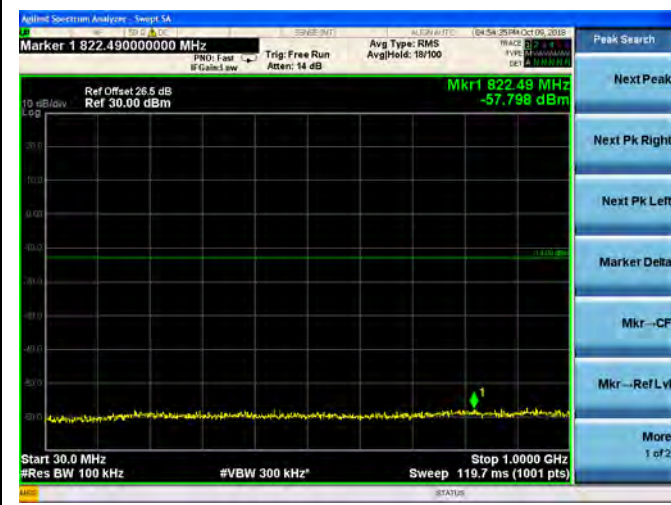
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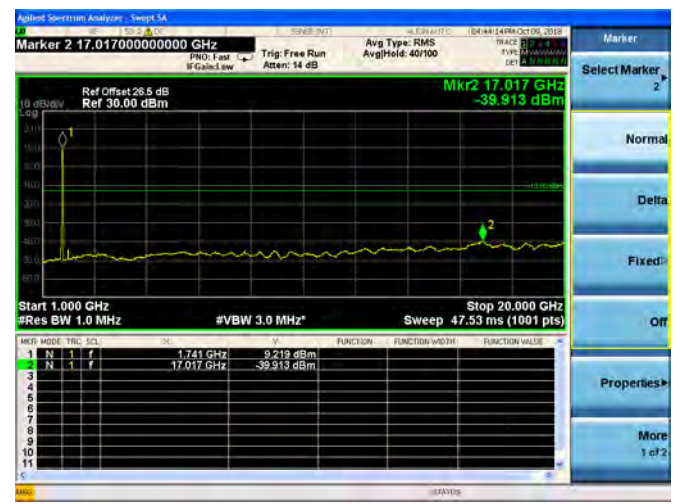


LTE Band 4 20MHz BW High Channel

QPSK



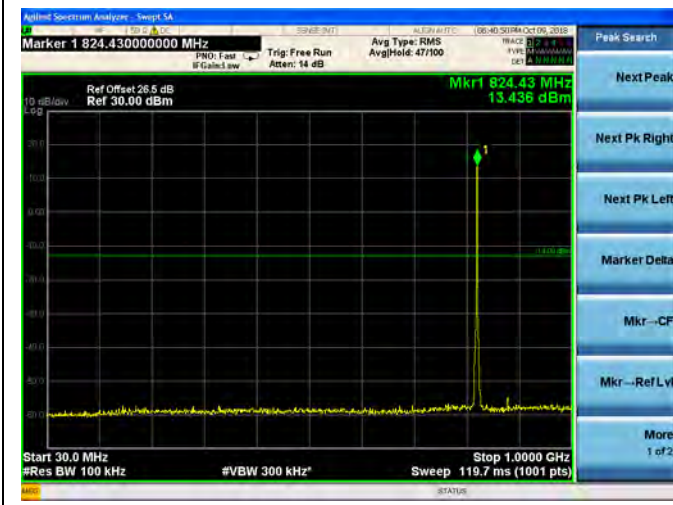
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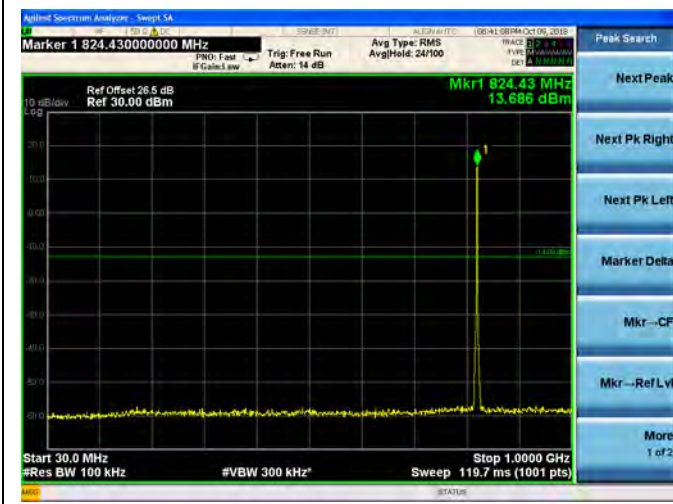


LTE Band 5 1.4MHz BW Low Channel

QPSK



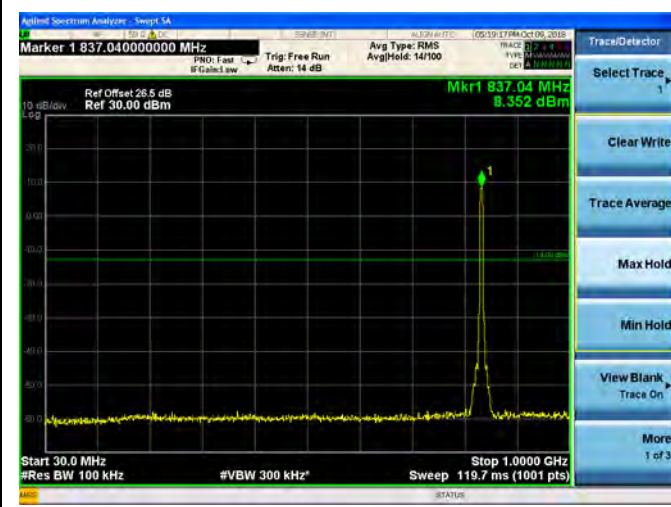
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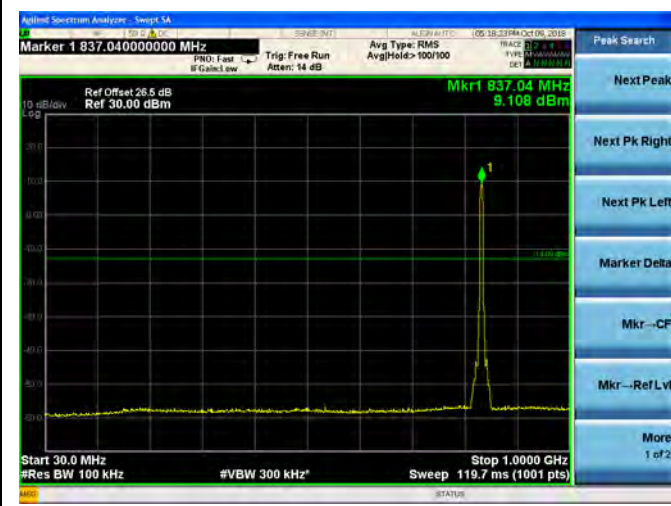


LTE Band 5 1.4MHz BW Mid Channel

QPSK



16QAM

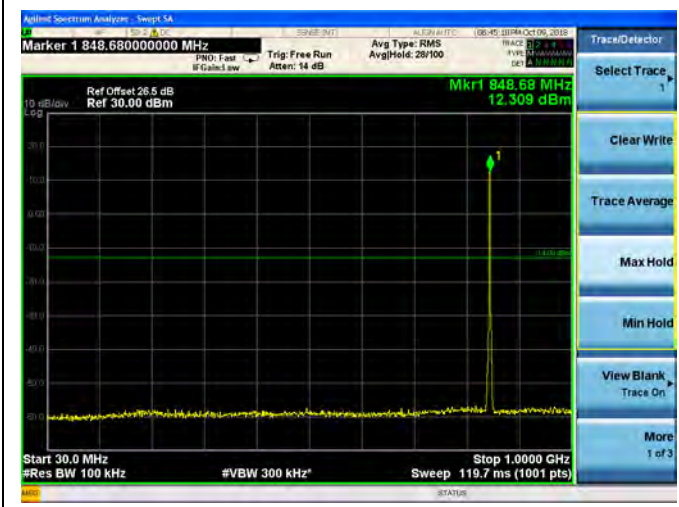




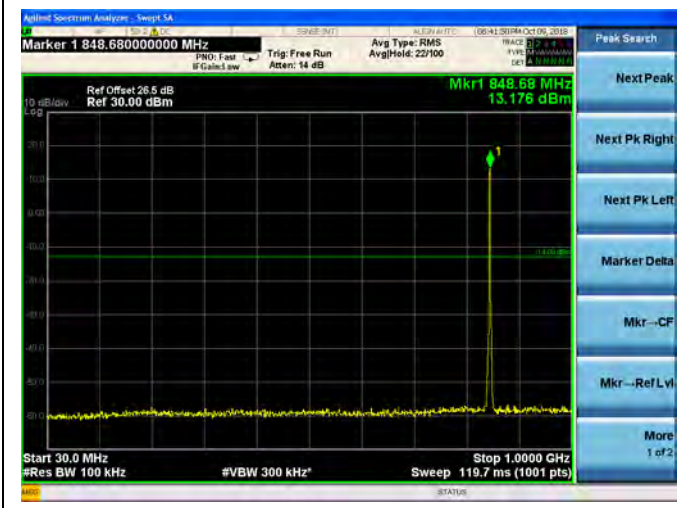


LTE Band 5 1.4MHz BW High Channel

QPSK



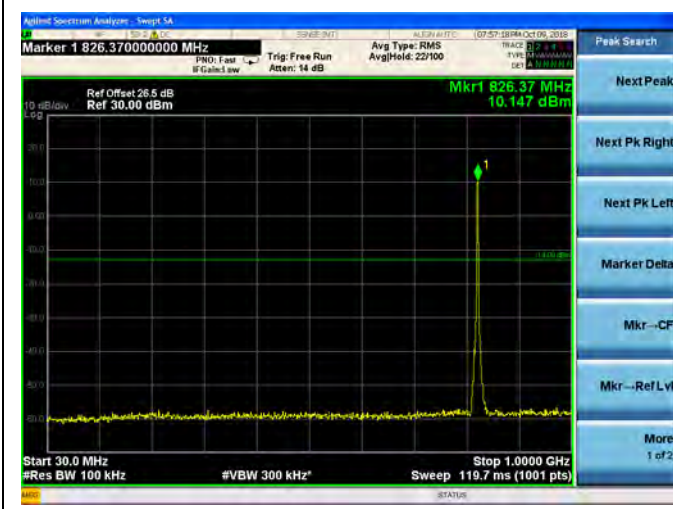
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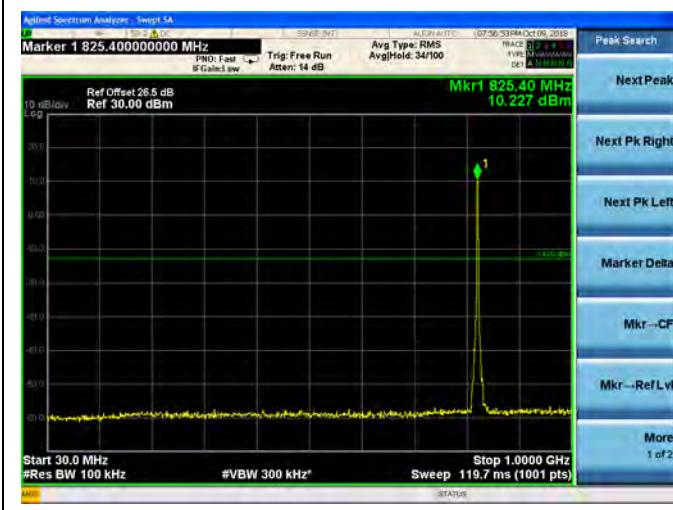


LTE Band 5 3MHz BW Low Channel

QPSK



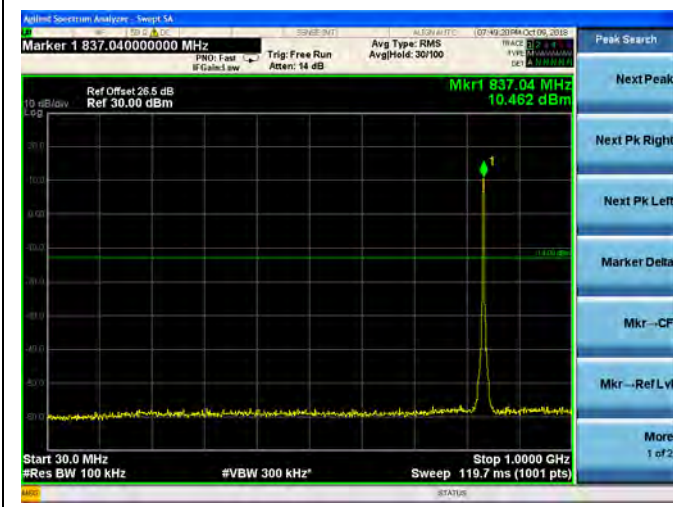
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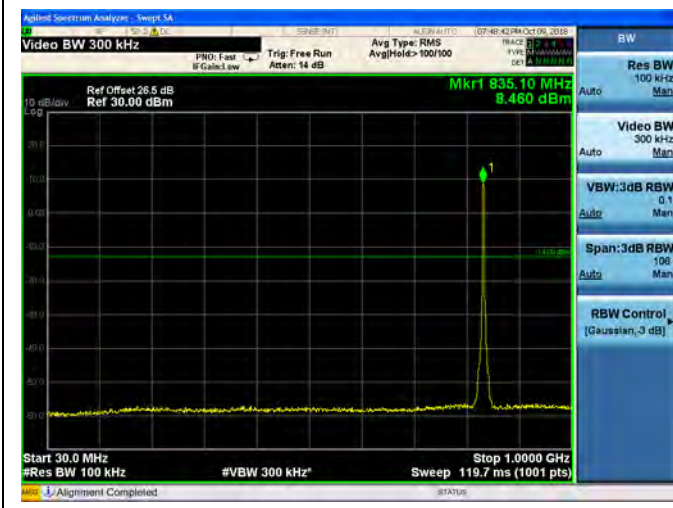


LTE Band 5 3MHz BW Mid Channel

QPSK



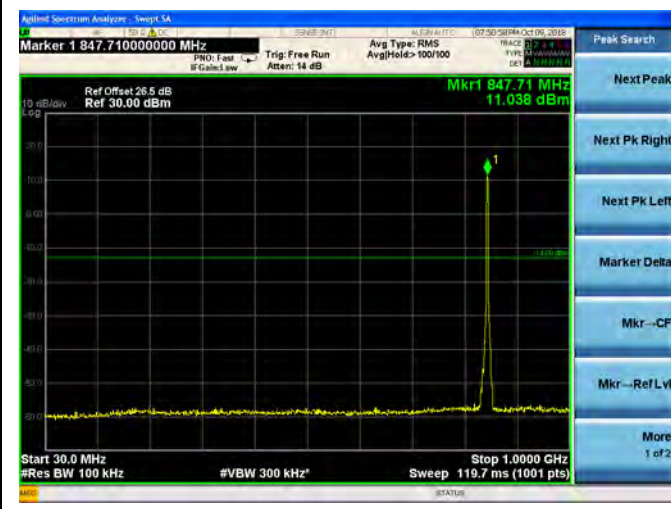
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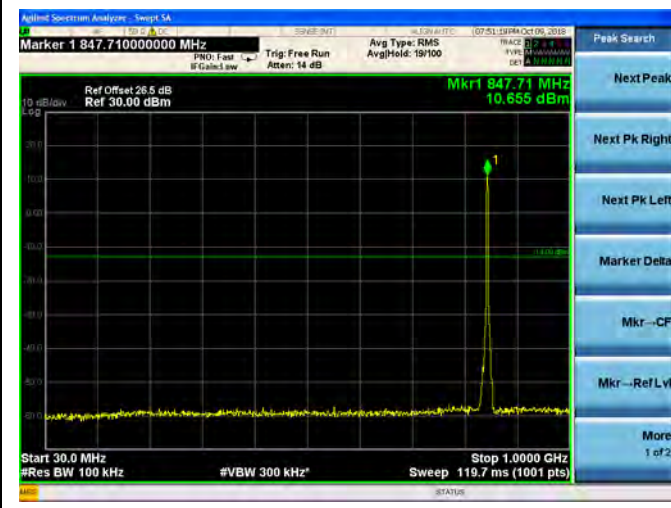


LTE Band 5 3MHz BW High Channel

QPSK



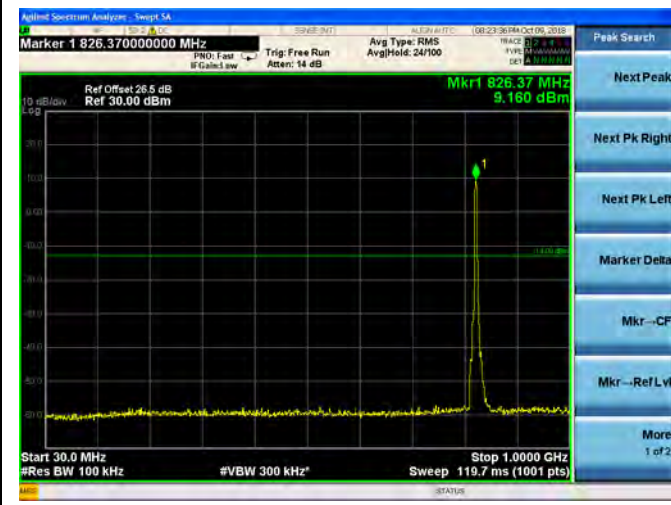
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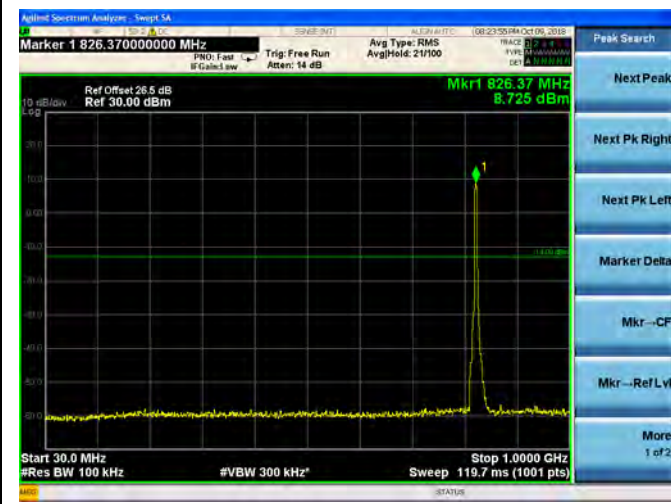


LTE Band 5 5MHz BW Low Channel

QPSK



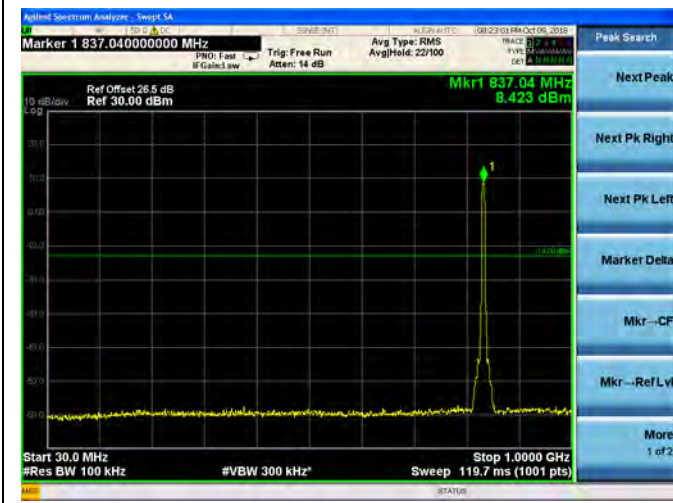
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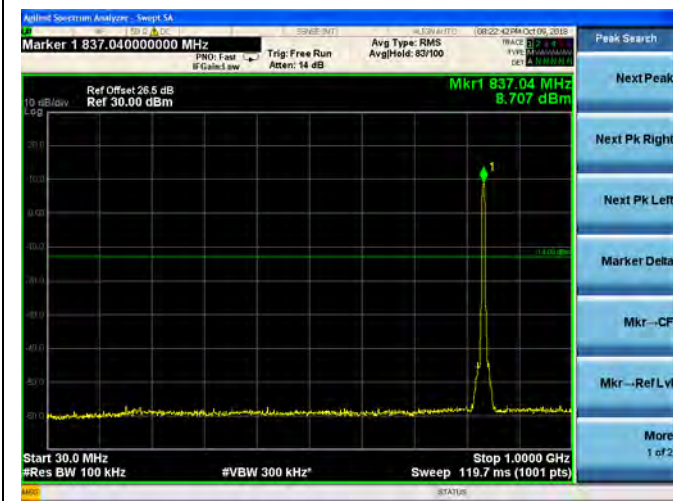


LTE Band 5 5MHz BW Mid Channel

QPSK



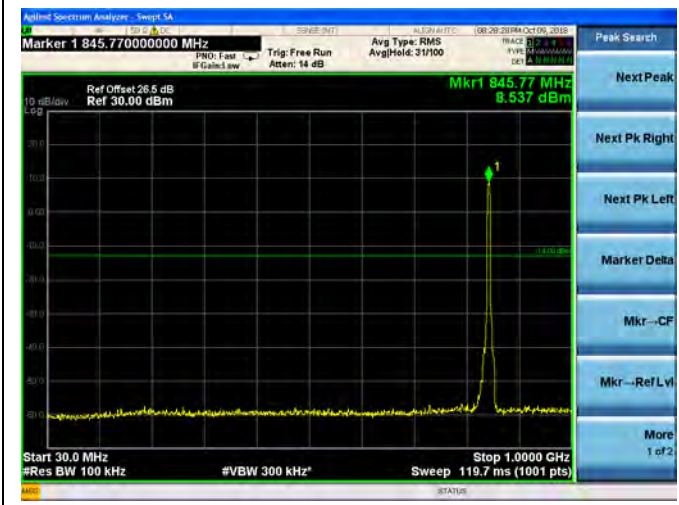
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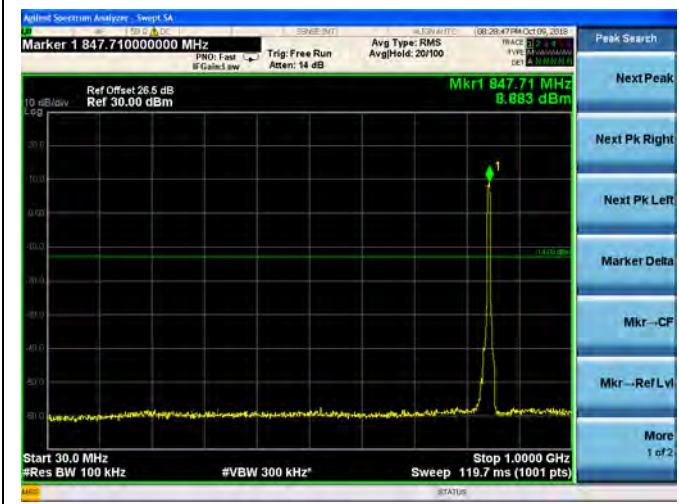


LTE Band 5 5MHz BW High Channel

QPSK



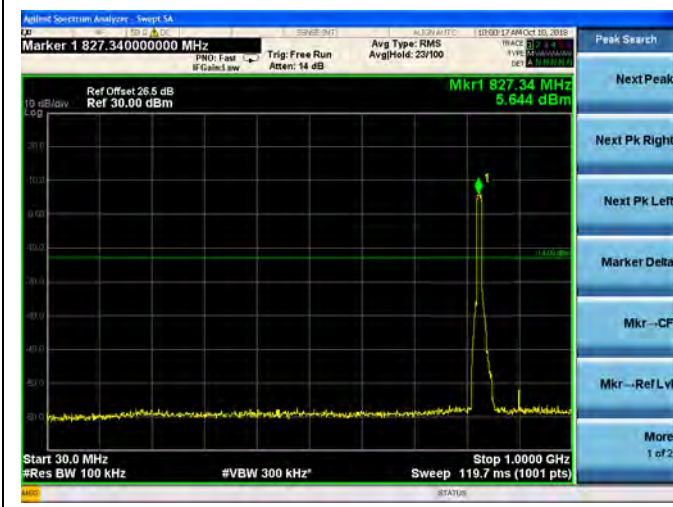
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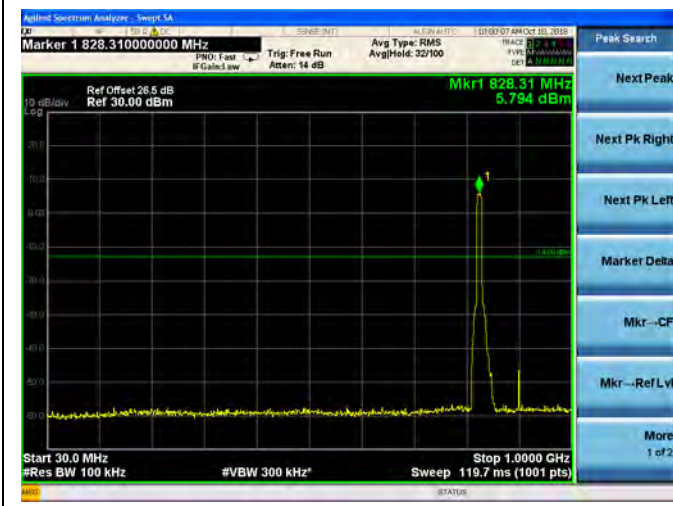


LTE Band 5 10MHz BW Low Channel

QPSK



16QAM

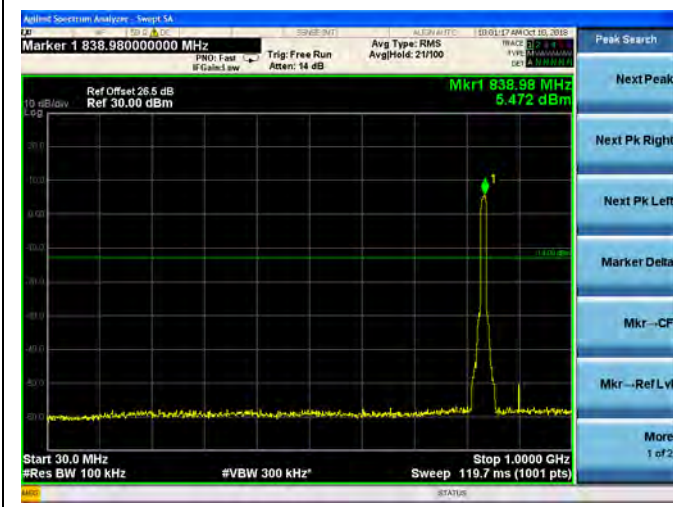




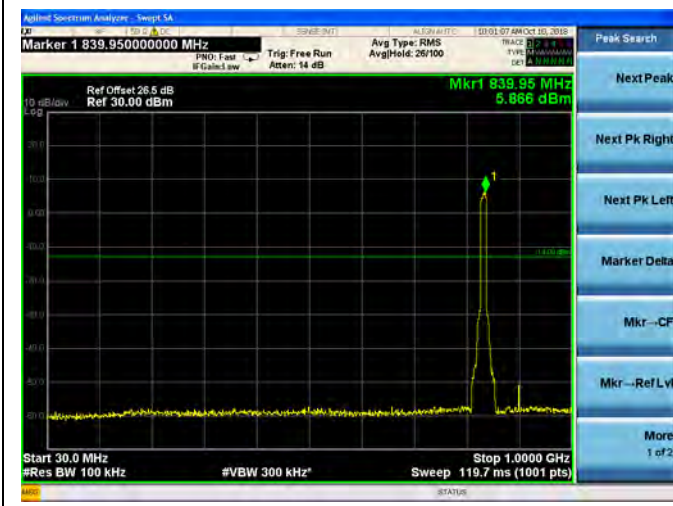


LTE Band 5 10MHz BW Mid Channel

QPSK



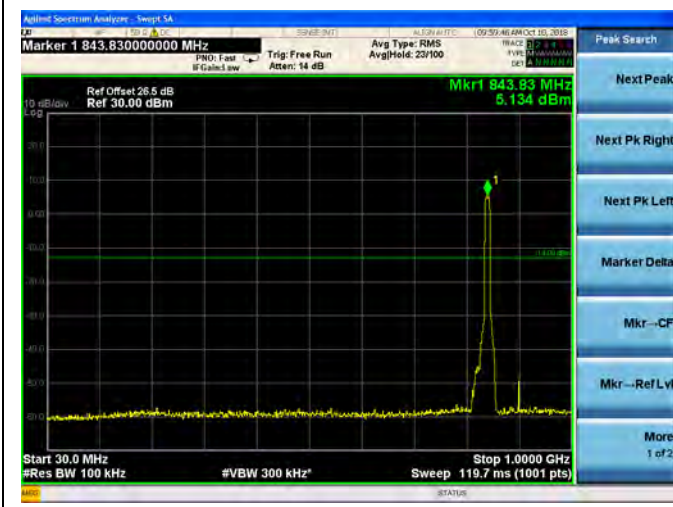
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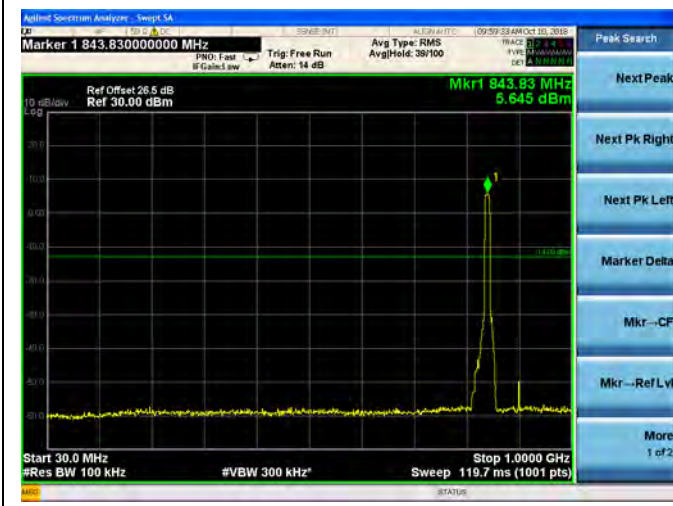


LTE Band 5 10MHz BW High Channel

QPSK



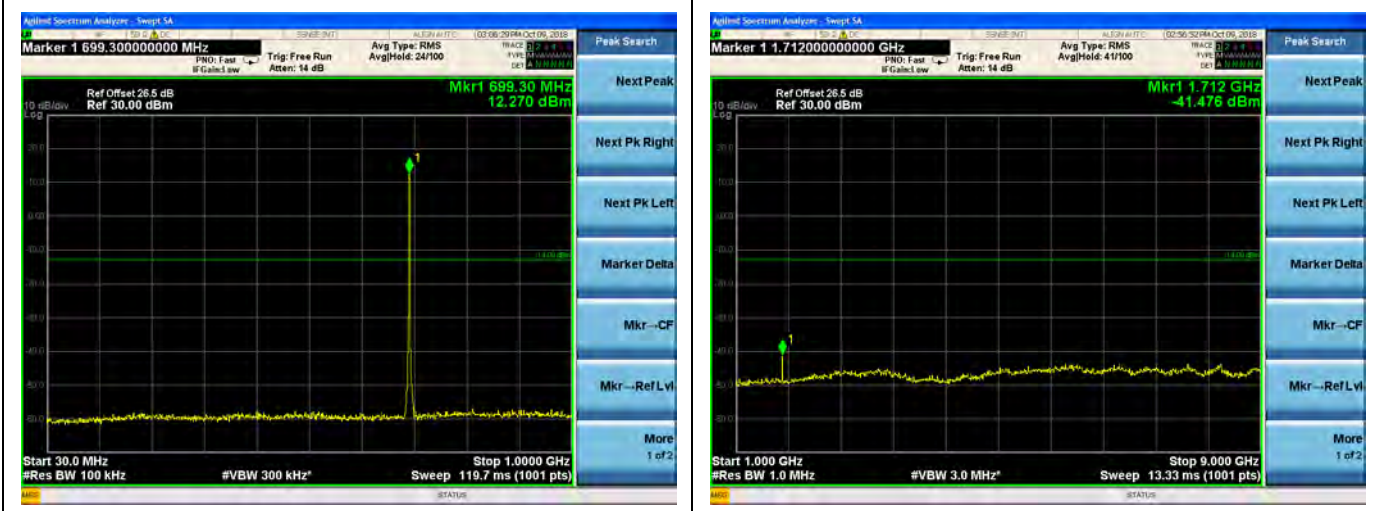
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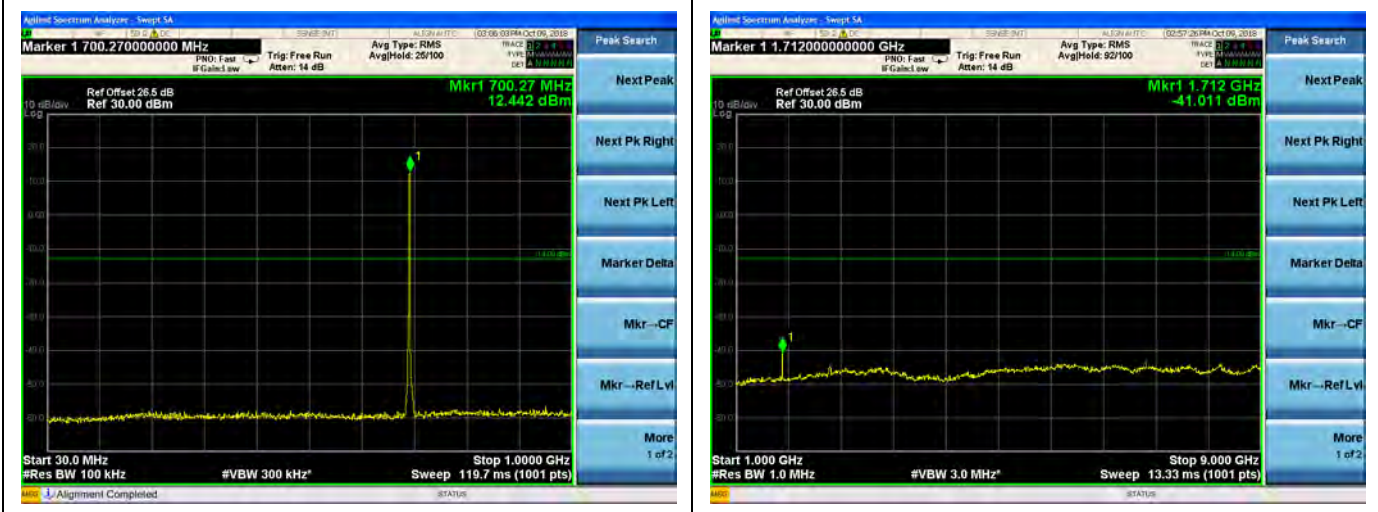


LTE Band 12 1.4MHz BW Low Channel

QPSK



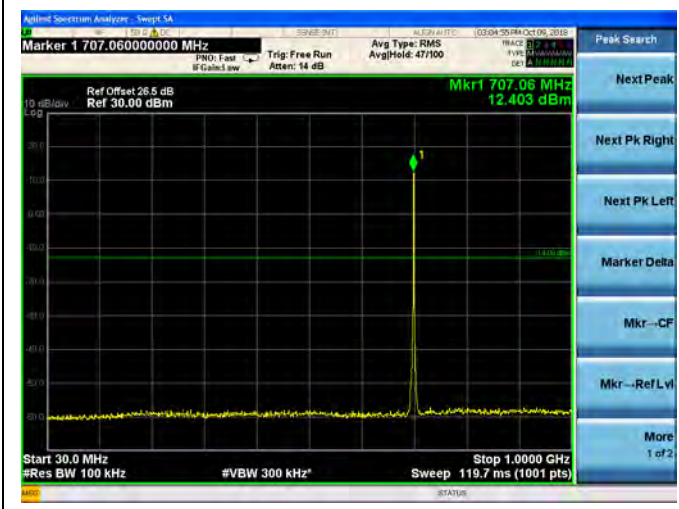
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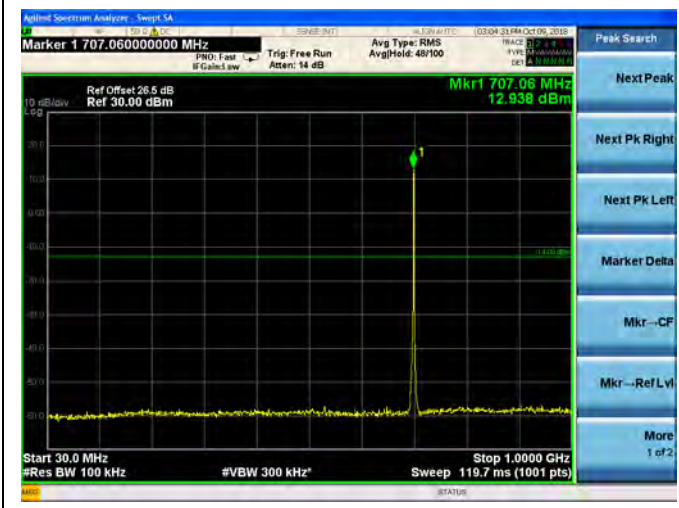


LTE Band 12 1.4MHz BW Mid Channel

QPSK



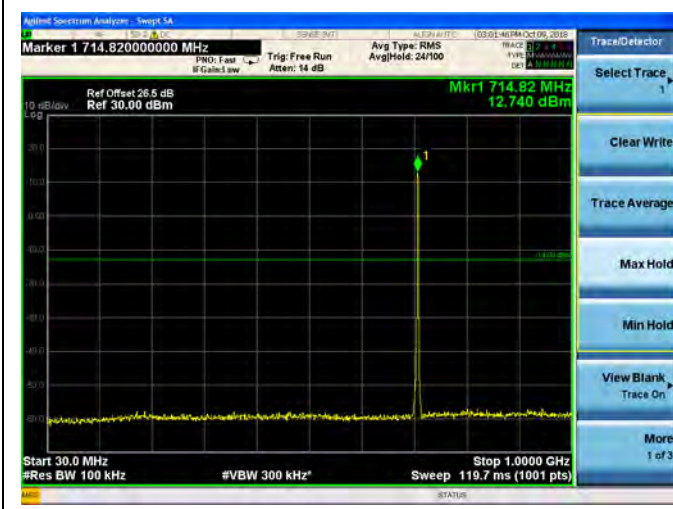
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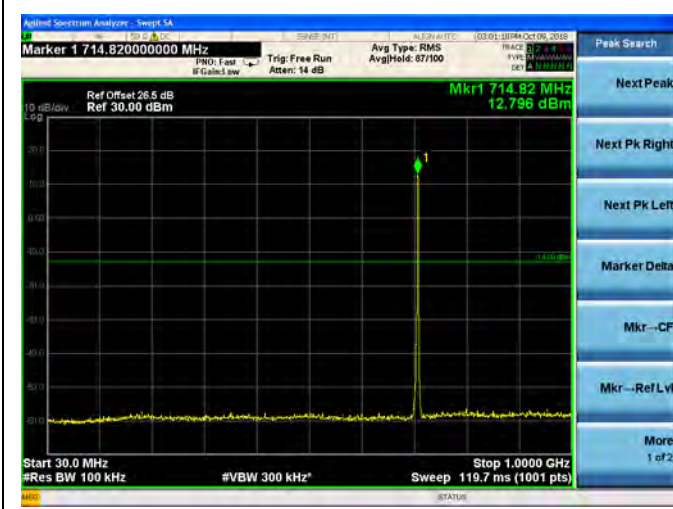


LTE Band 12 1.4MHz BW High Channel

QPSK



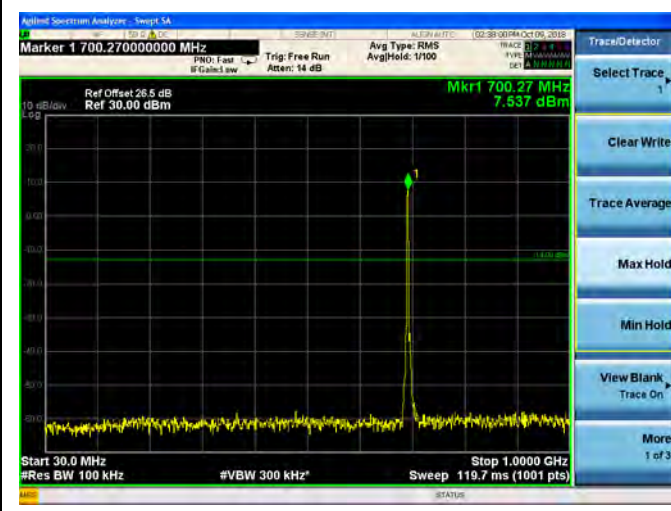
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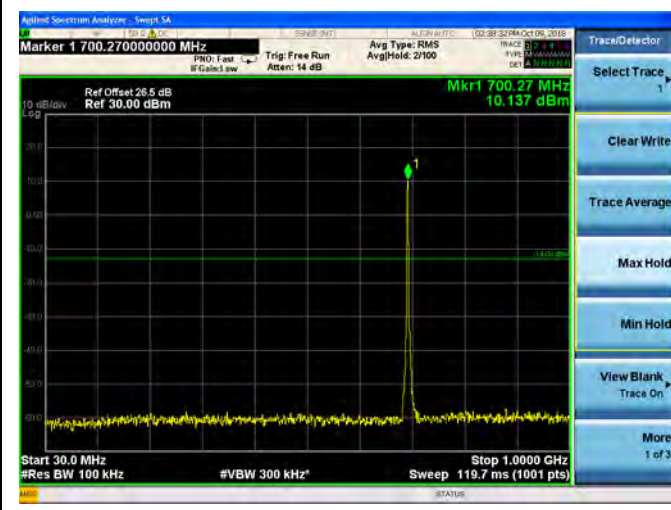


LTE Band 12 3MHz BW Low Channel

QPSK



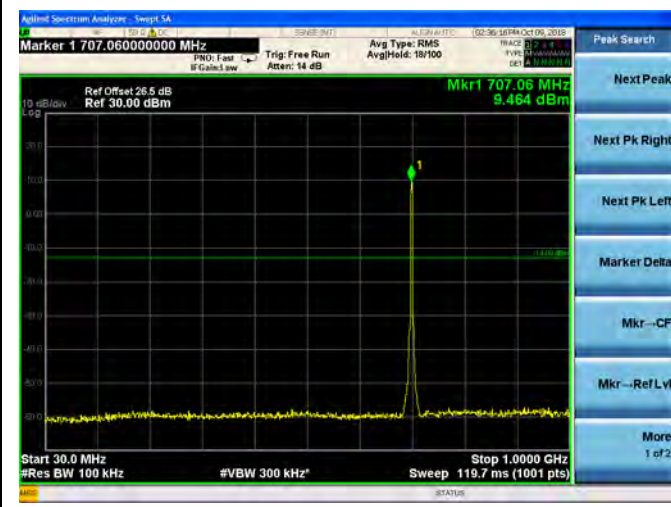
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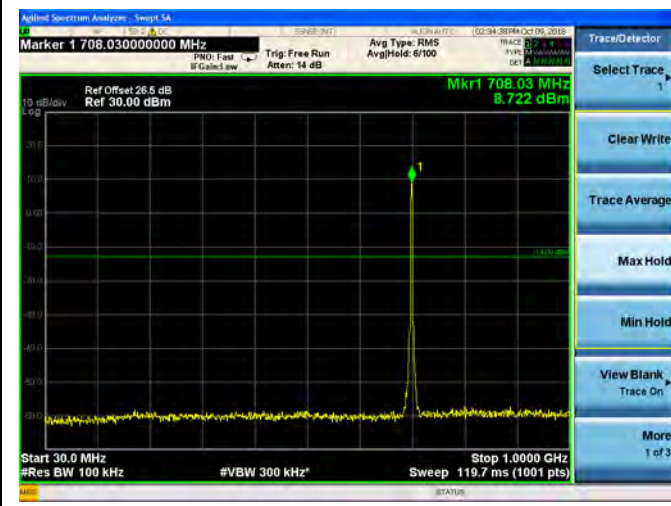


LTE Band 12 3MHz BW Mid Channel

QPSK



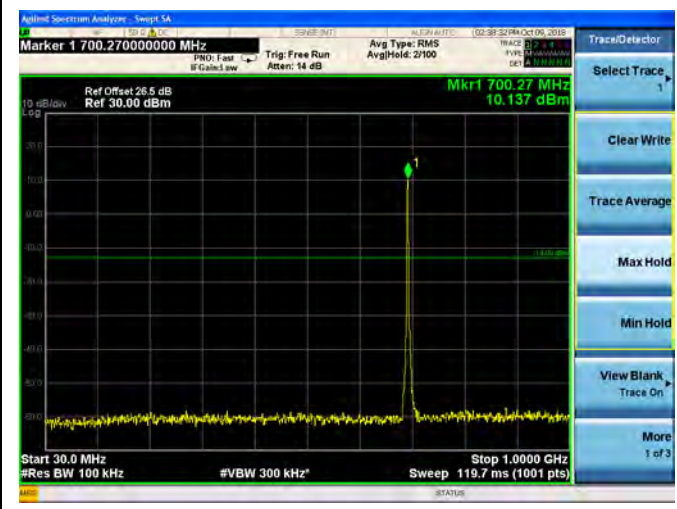
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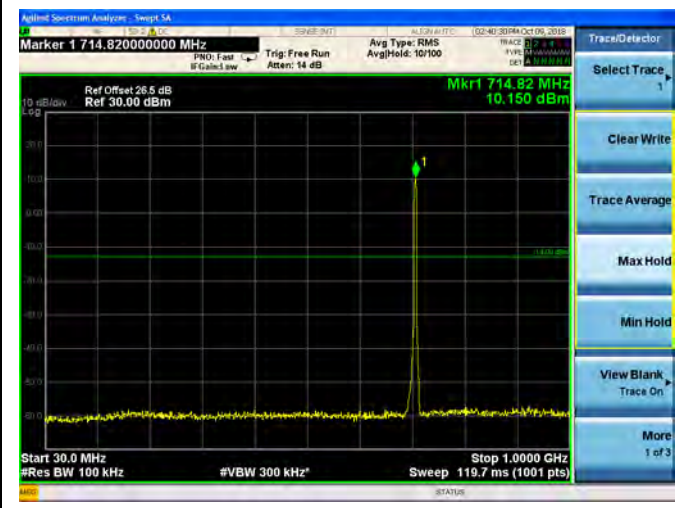


LTE Band 12 3MHz BW High Channel

QPSK



16QAM

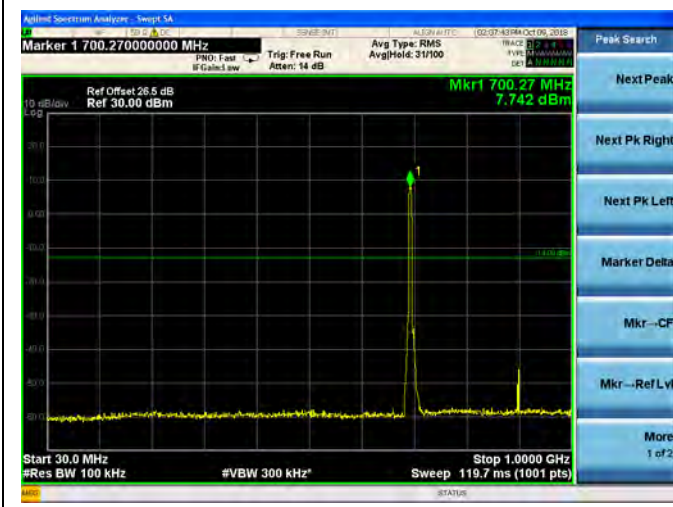




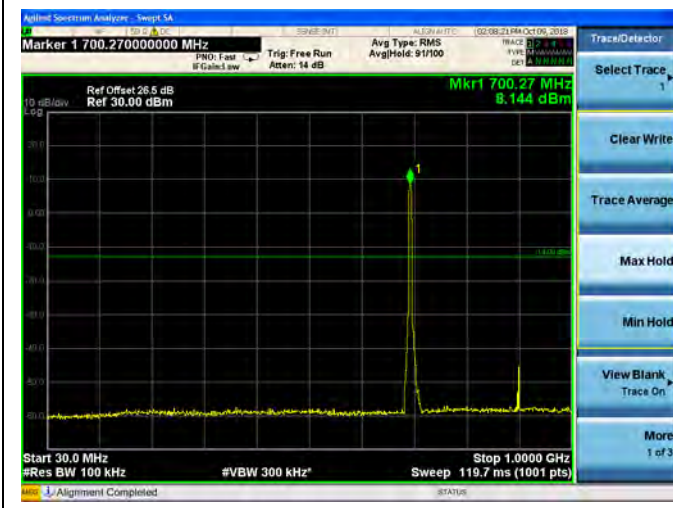


LTE Band 12 5MHz BW Low Channel

QPSK



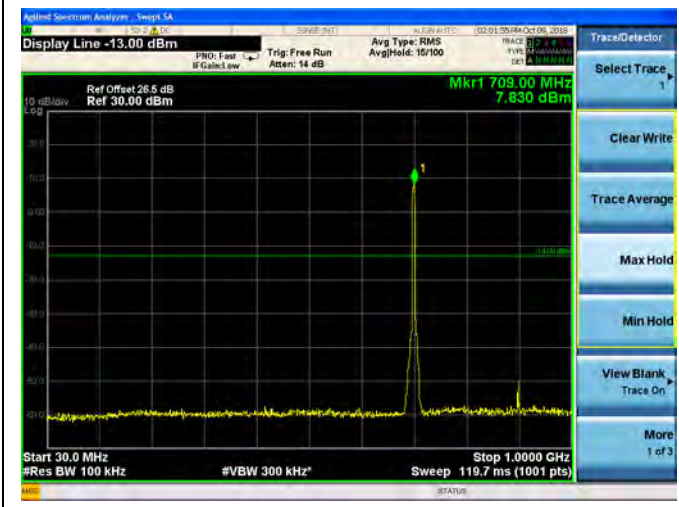
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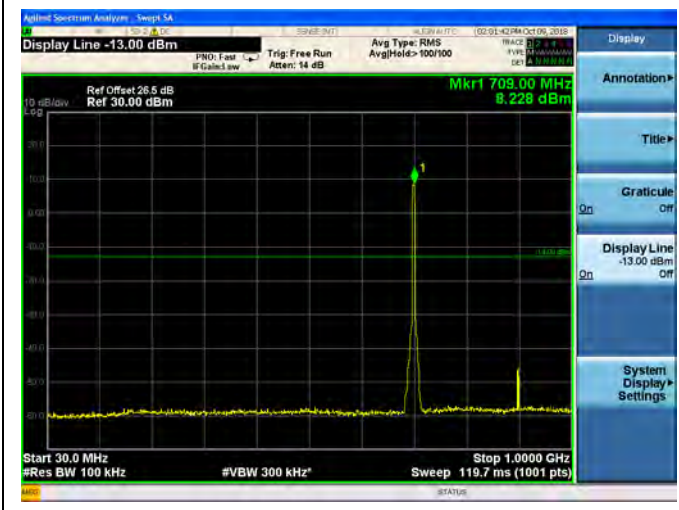


LTE Band 12 5MHz BW Mid Channel

QPSK



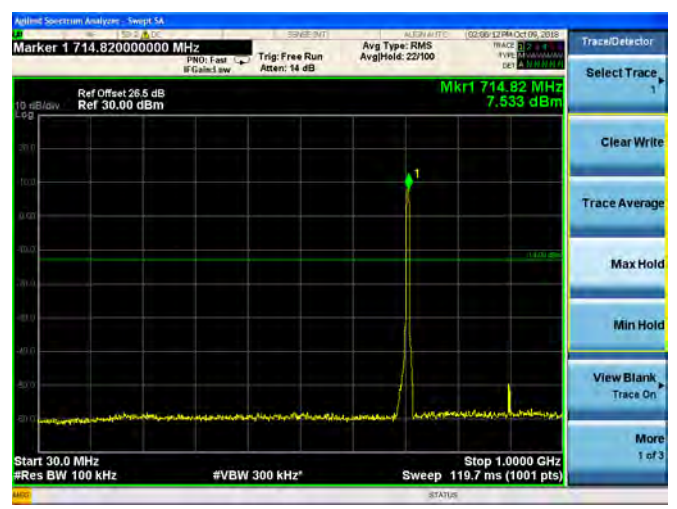
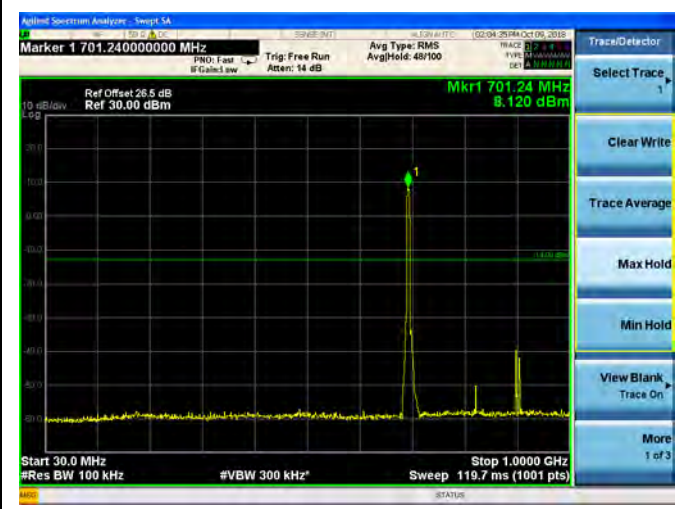
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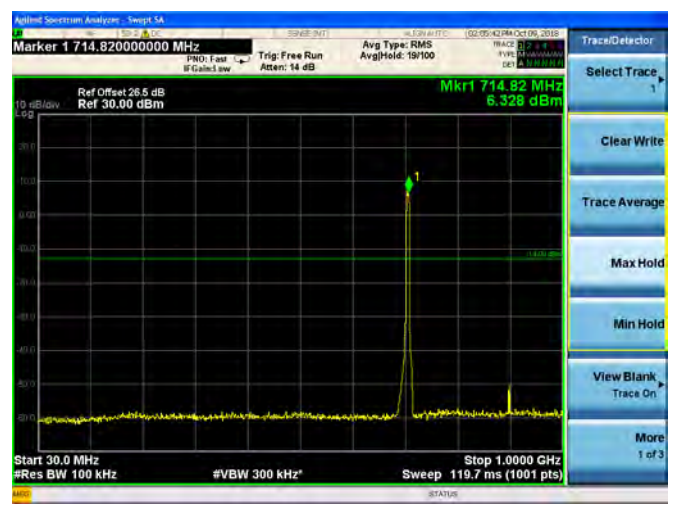
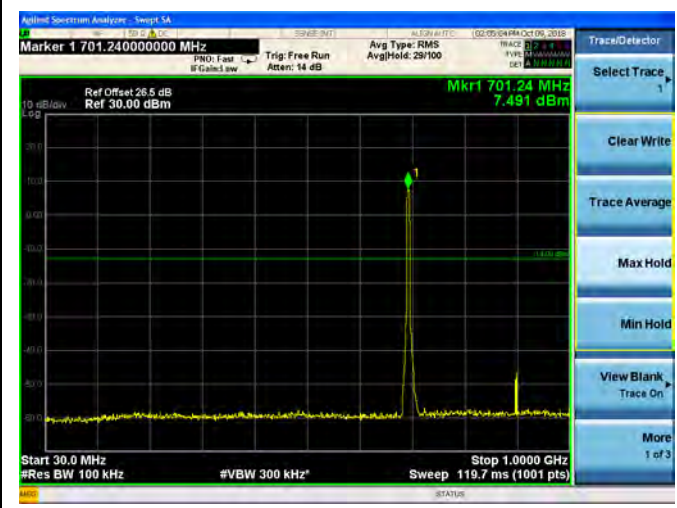


LTE Band 12 5MHz BW High Channel

QPSK



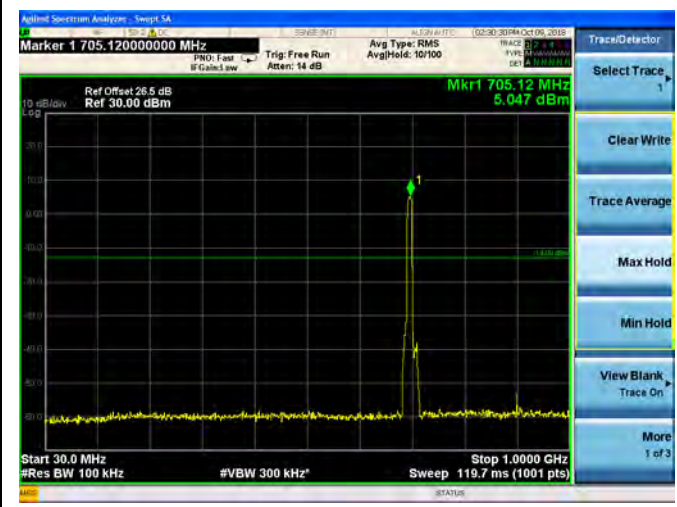
16QAM



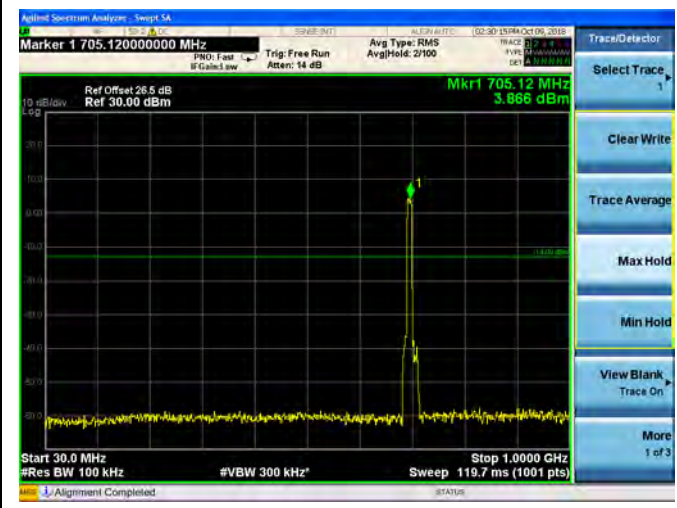


LTE Band 12 10MHz BW Low Channel

QPSK



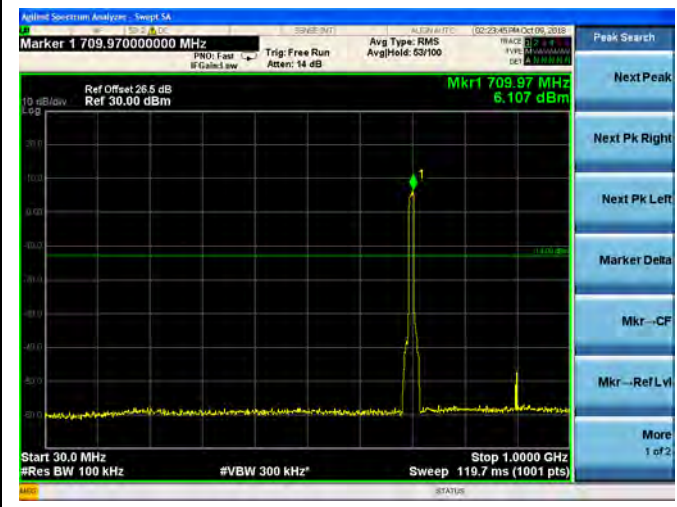
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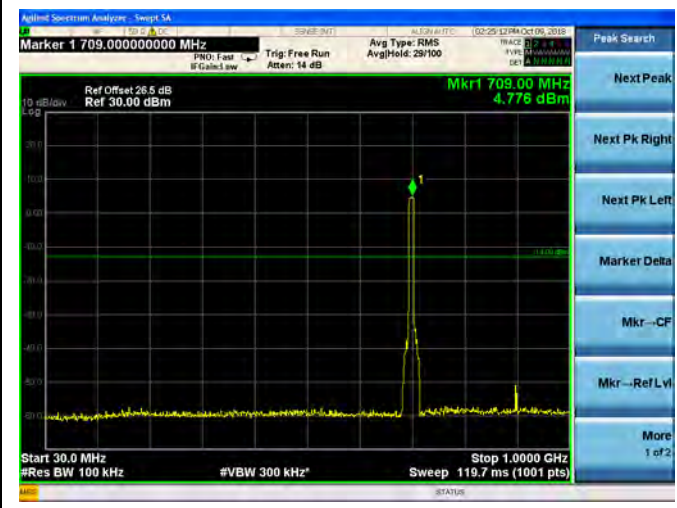


LTE Band 12 10MHz BW Mid Channel

QPSK



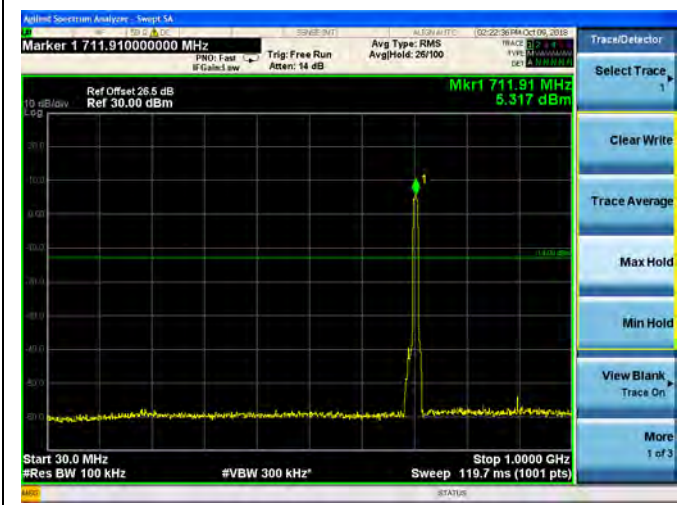
16QAM





LTE Band 12 10MHz BW High Channel

QPSK



16QAM

