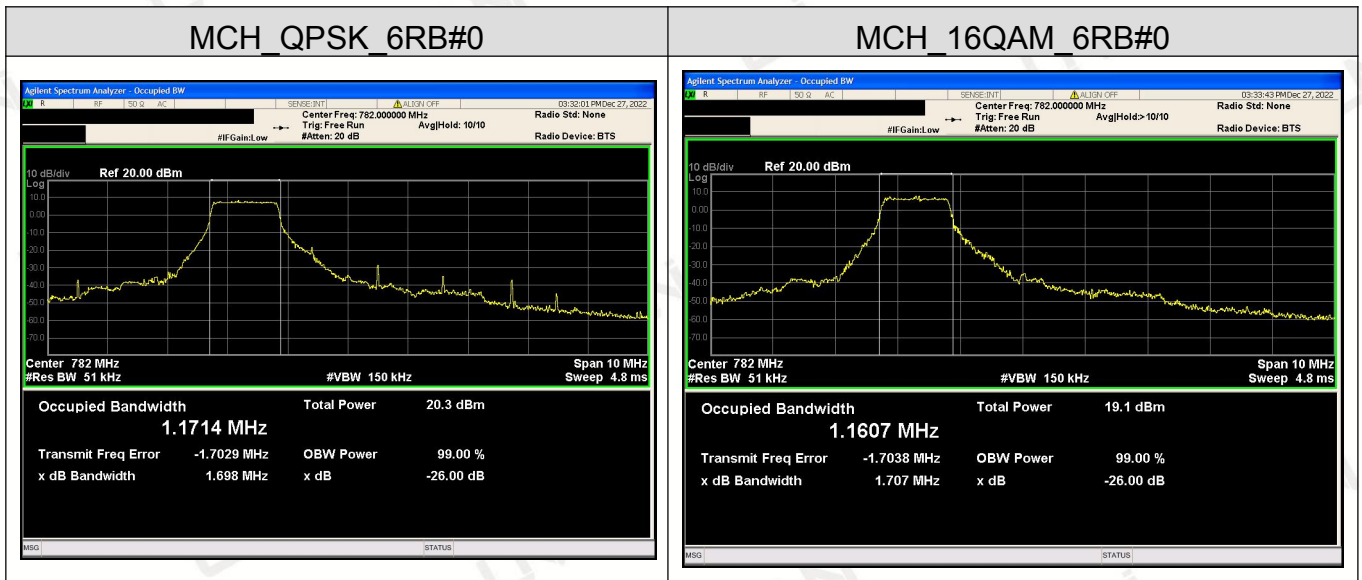
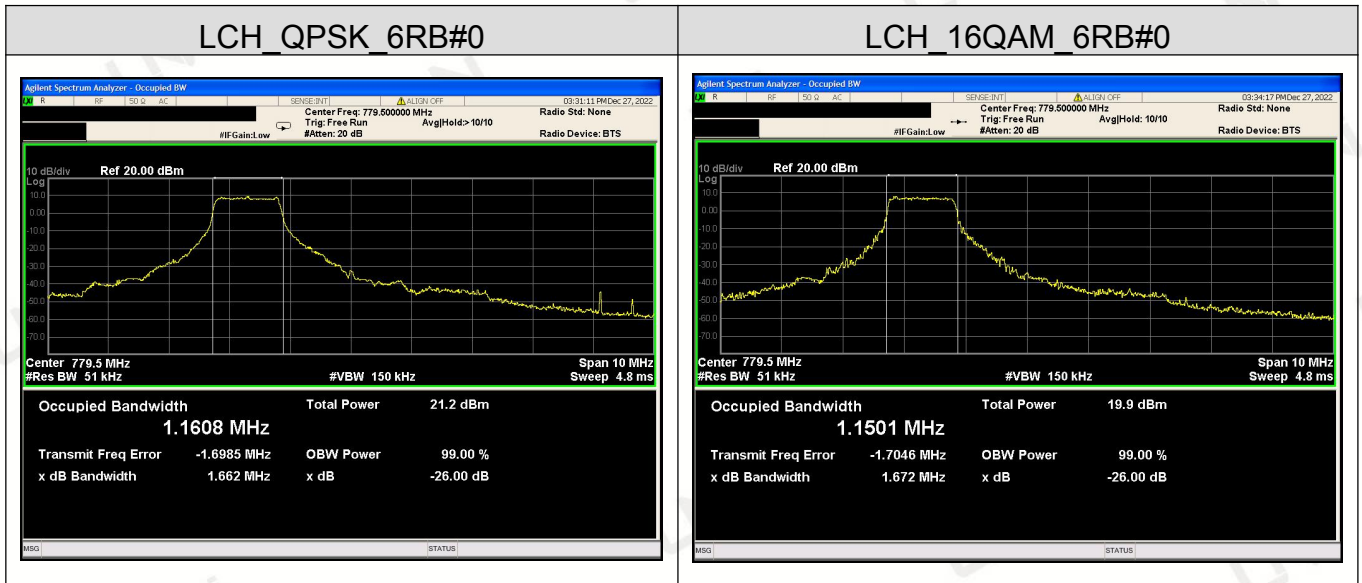
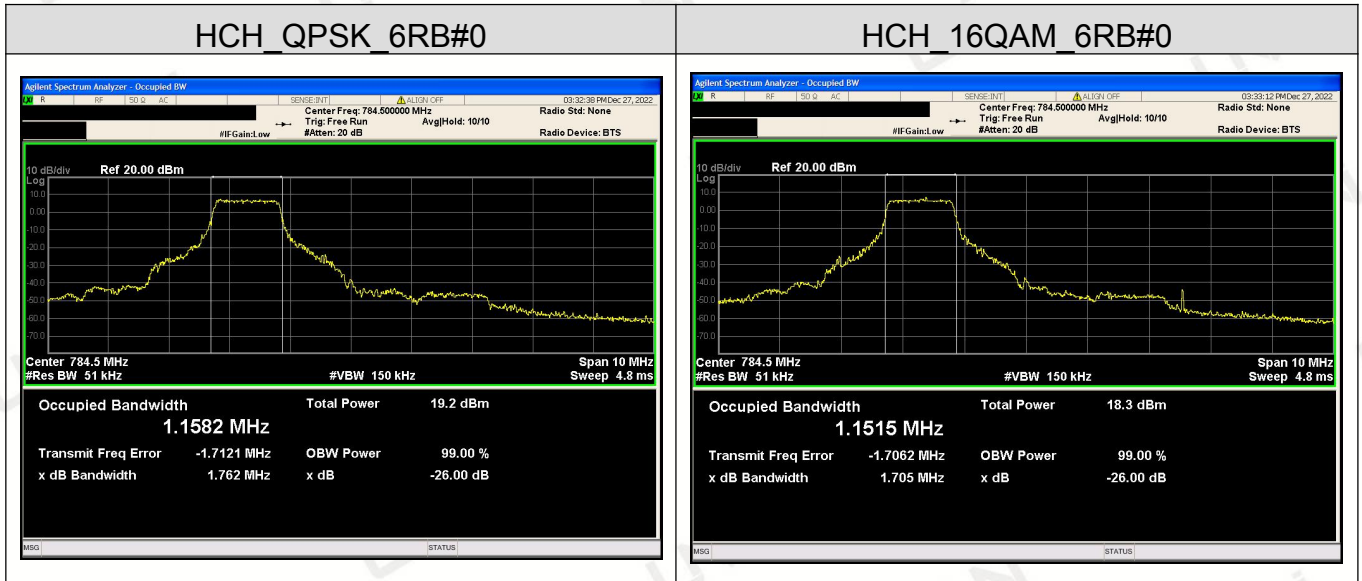
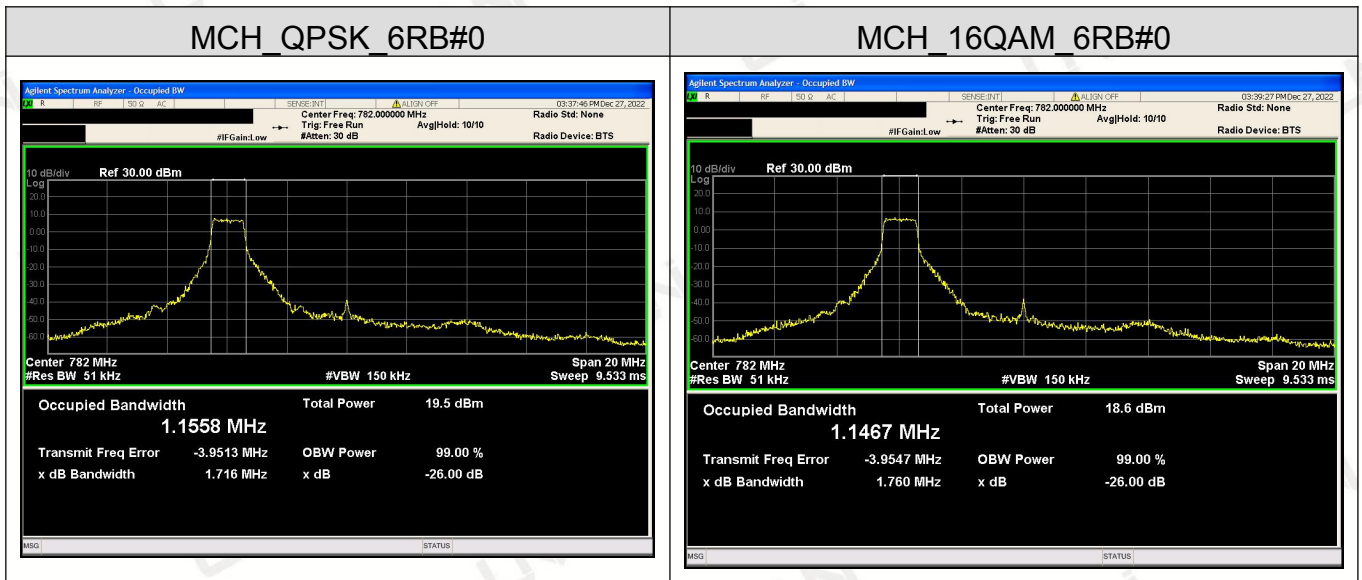


### LTE Band 13 Channel Bandwidth: 5 MHz





### Channel Bandwidth: 10 MHz



## 6 MODULATION CHARACTERISTIC

According to FCC § 2.1047(d), Part 22H & 24E there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

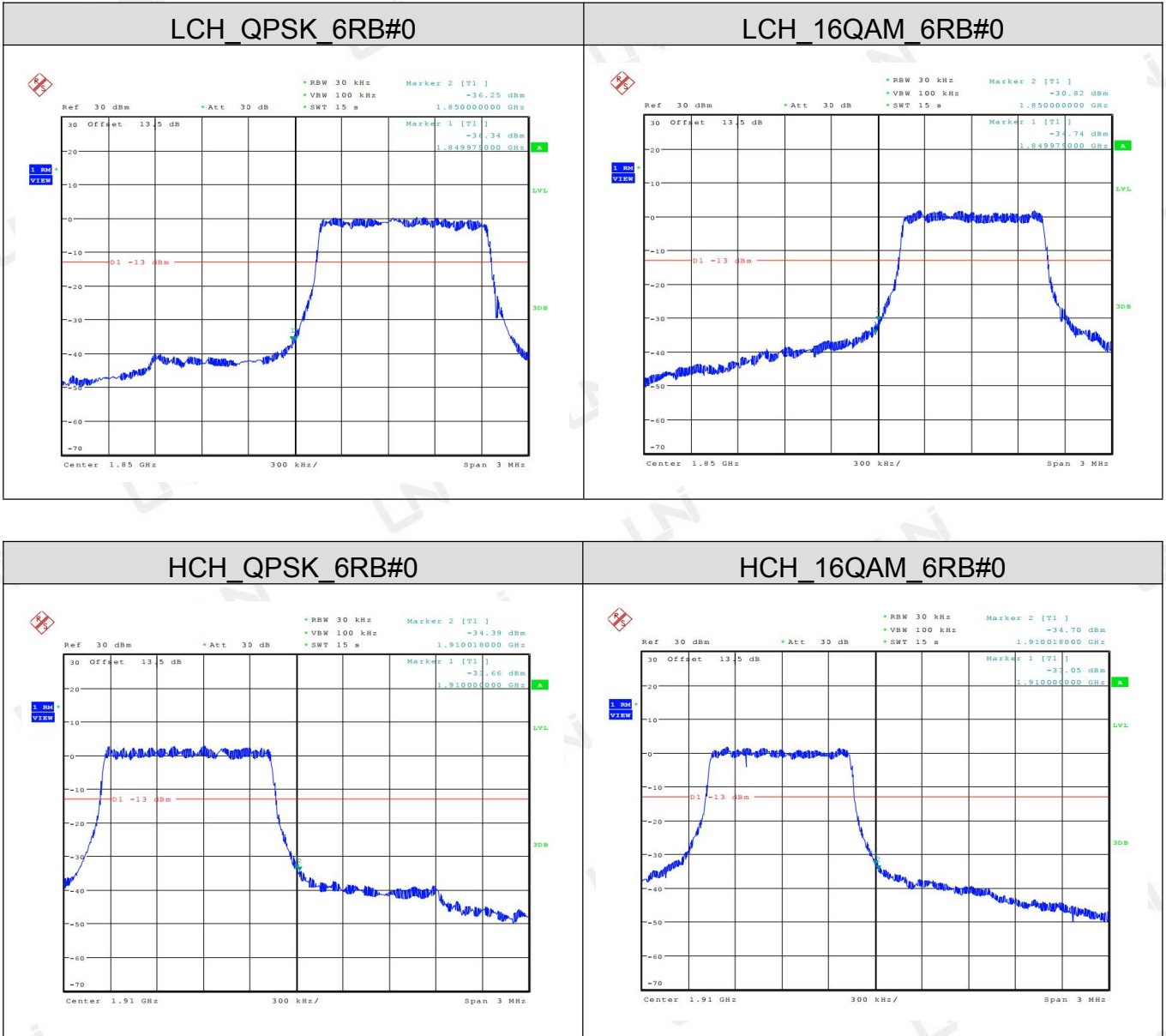
70UT OF BAND EMISSION AT ANTENNA TERMINALS

Test Requirement:	Part 22.917(a), Part 24.238 (a), part 27.53(g), part 27.53(h),
Limit:	<p>§22.917, §24.238, §27.53 (c), (g), (h), §90.691, §90.543 (Band 14)            The minimum permissible attenuation level of any spurious emissions is 43 + 10 log (P) dB where transmitting power (P) in Watts.</p> <p>§27.53 (a) (Band 30, 40)            The minimum permissible attenuation level of any spurious emissions is 70 + 10 log (P) dB where transmitting power (P) in Watts.</p> <p>§27.53 (m) (Band 7, 41)            The minimum permissible attenuation level of any spurious emissions is 55 + 10 log (P) dB where transmitting power (P) in Watts.</p> <p>§96.41            (e) 3.5 GHz Emissions and Interference Limits—            (2) Additional protection levels. Notwithstanding paragraph (d)(1) of this section, the conducted power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.</p>
Test setup:	<p>The diagram illustrates the test setup. On the left, there are two blue units: a 'System simulator' on top and a 'Spectrum Analyzer' on the bottom. A cable connects the output of the System simulator to a 'Splitter'. The other output of the Splitter goes to an 'ATT' (attenuator). The output of the ATT is connected to the 'EUT' (Equipment Under Test), which is represented by a black rectangular device.</p>
Test Procedure:	<ol style="list-style-type: none"> <li>1 The RF output of the transceiver was connected to a spectrum analyzer through appropriateattenuation.</li> <li>2 For the out of band: For Band 5 &amp; 12 &amp; 17 set the RBW=100 kHz, VBW=300 kHz and for Band 2 &amp; 4 &amp; 7 set the RBW=1 MHz, VBW=3 MHz when below 1 GHz, RBW =1 MHz, VBW=3 MHz when above 1 GHz, Start=30MHz, Stop= 10thharmonic.</li> <li>3 Band Edge Requirements: In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions.</li> </ol>
Test Instruments:	Refer to section 2.5 for details
Test mode:	Refer to section 2.3 for details
Test results:	Passed
Remark:	Pre-scan all RB Size and offset, and found the RB Size and offset of worst case, so the report shows only the worst case test data.

7.1 Test Result

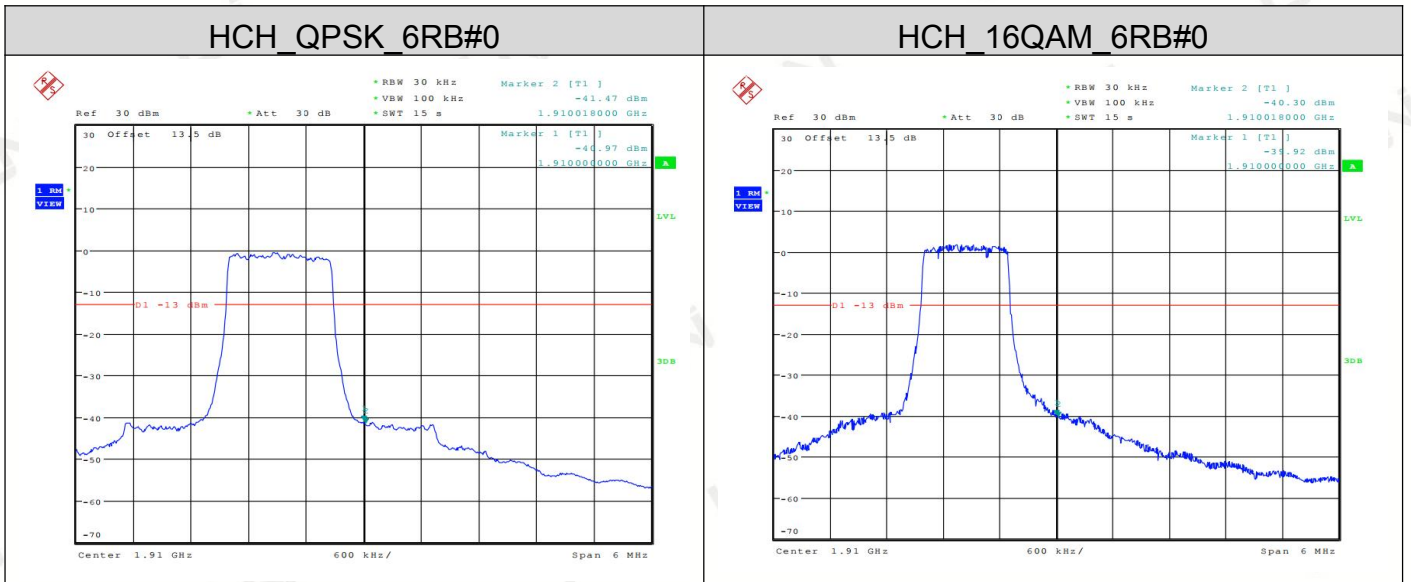
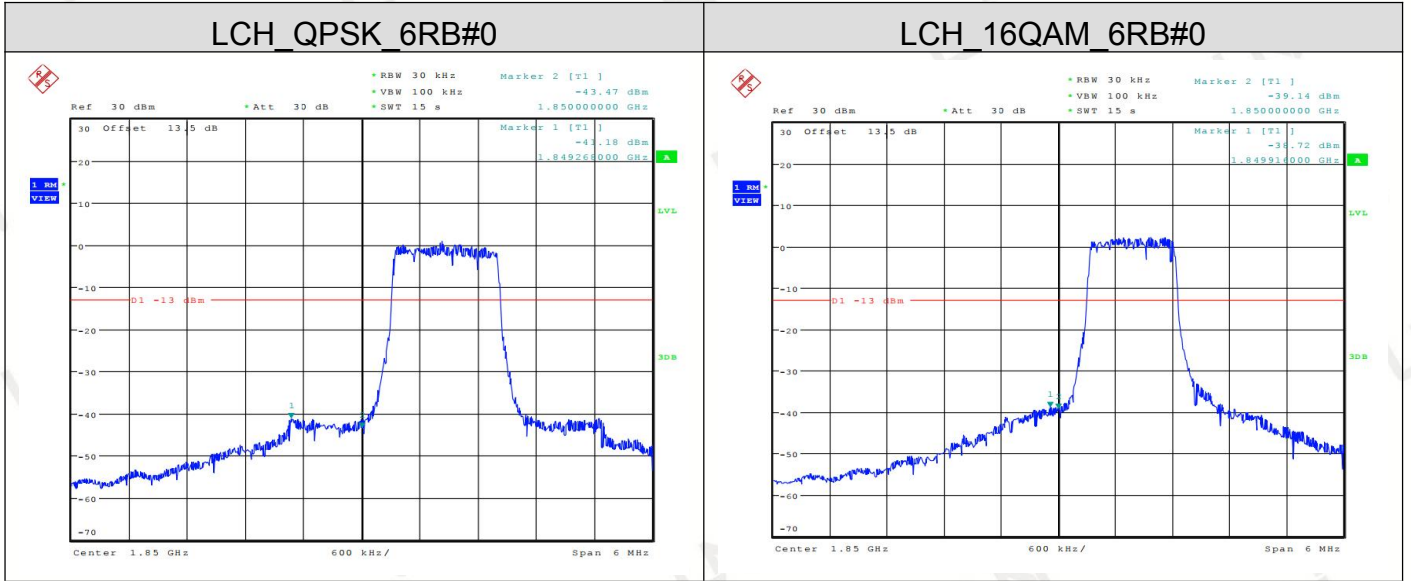
LTE BAND 2

Channel Bandwidth: 1.4 MHz

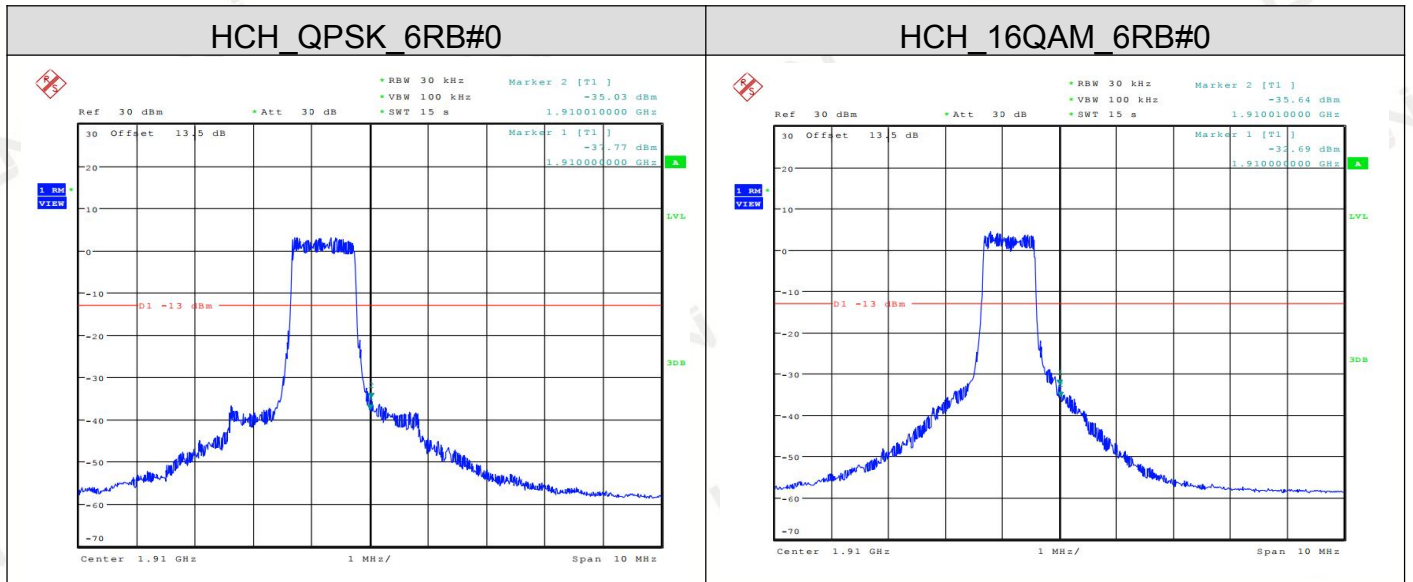
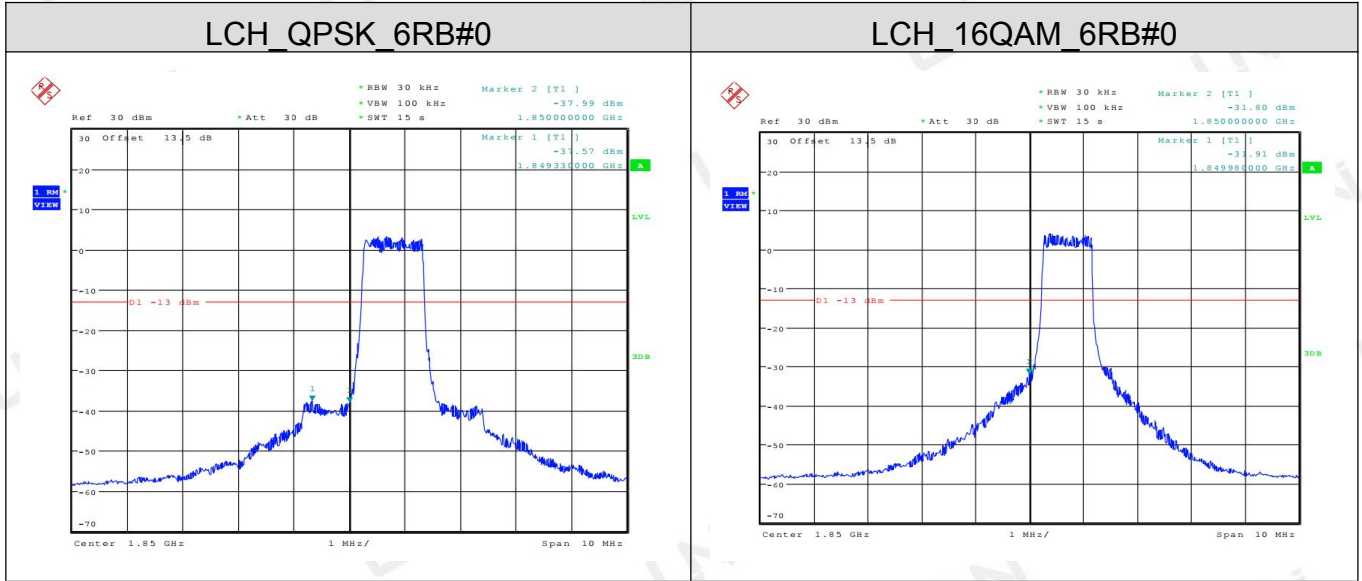




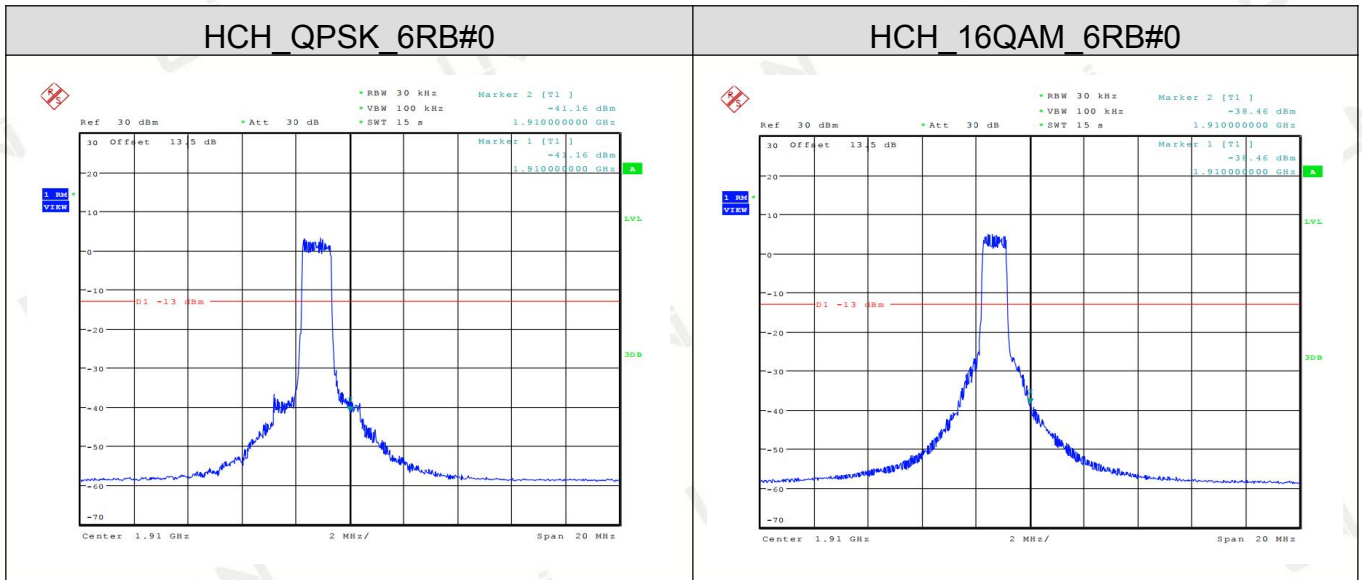
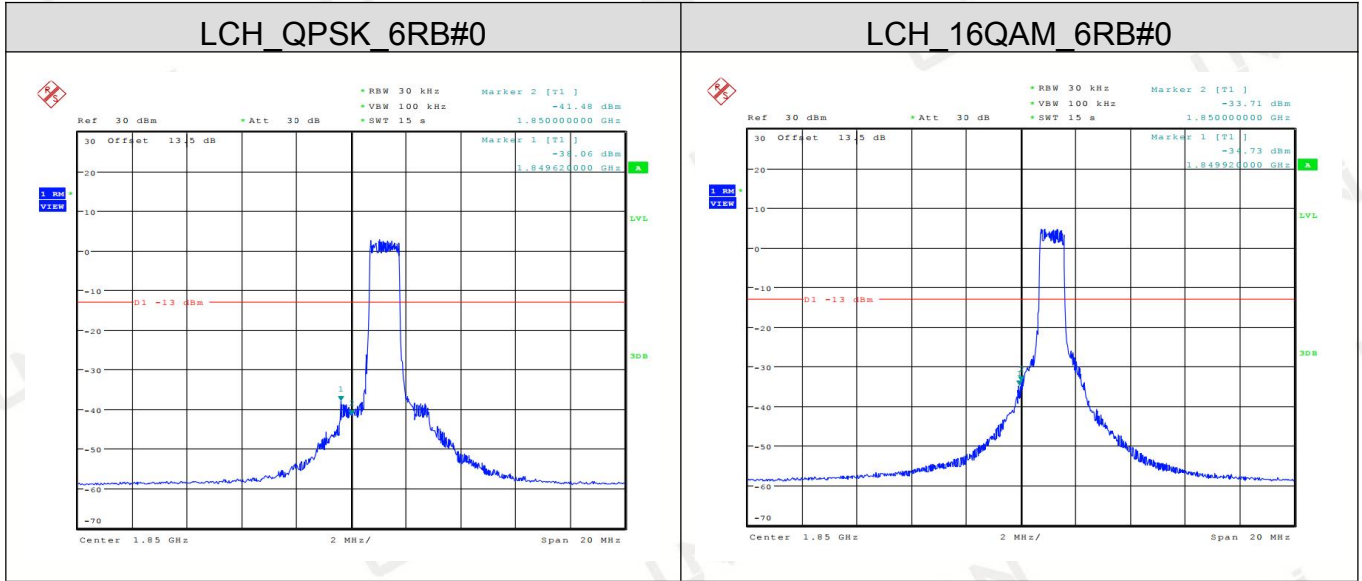
**Channel Bandwidth: 3 MHz**



**Channel Bandwidth: 5 MHz**

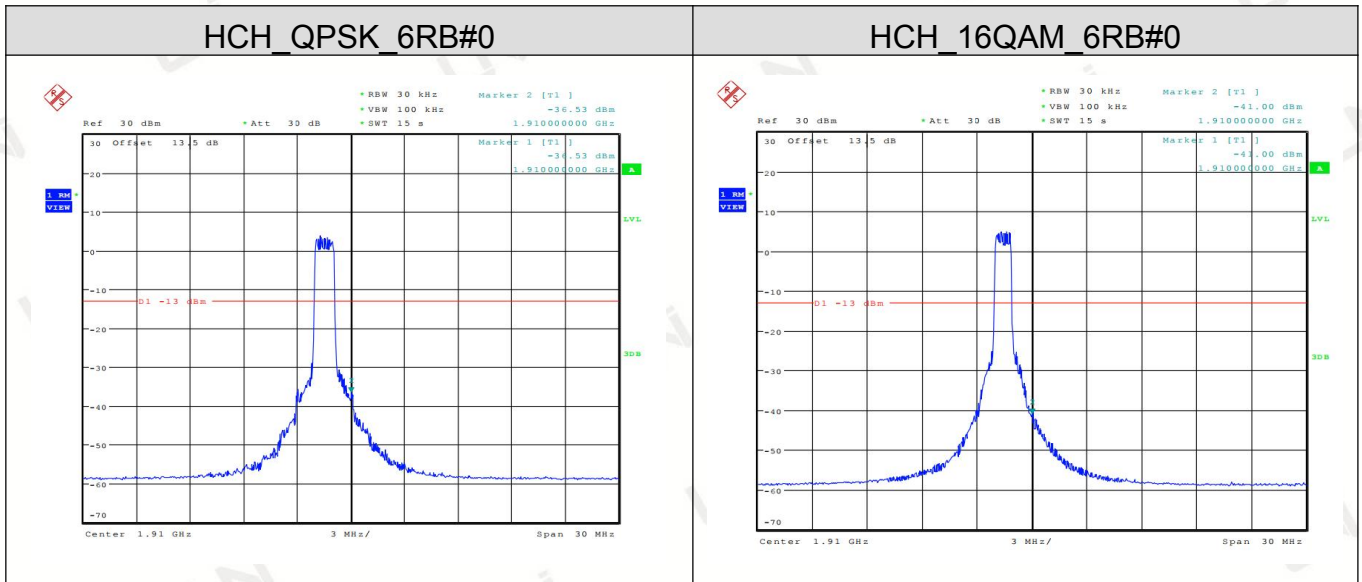
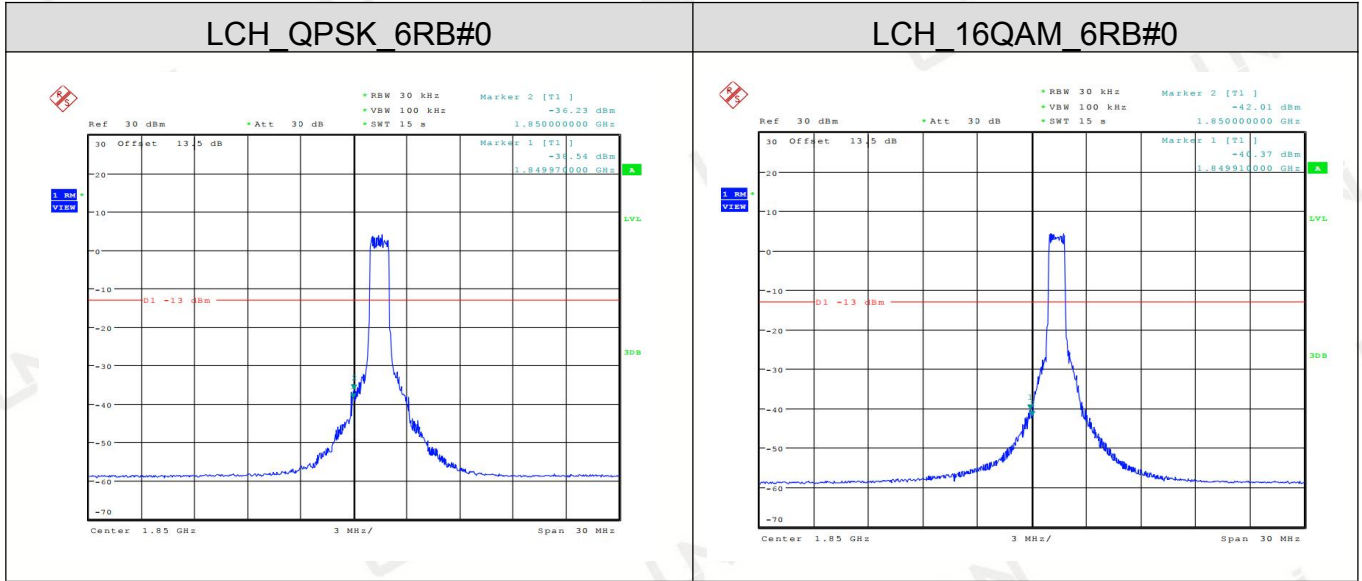


**Channel Bandwidth: 10 MHz**

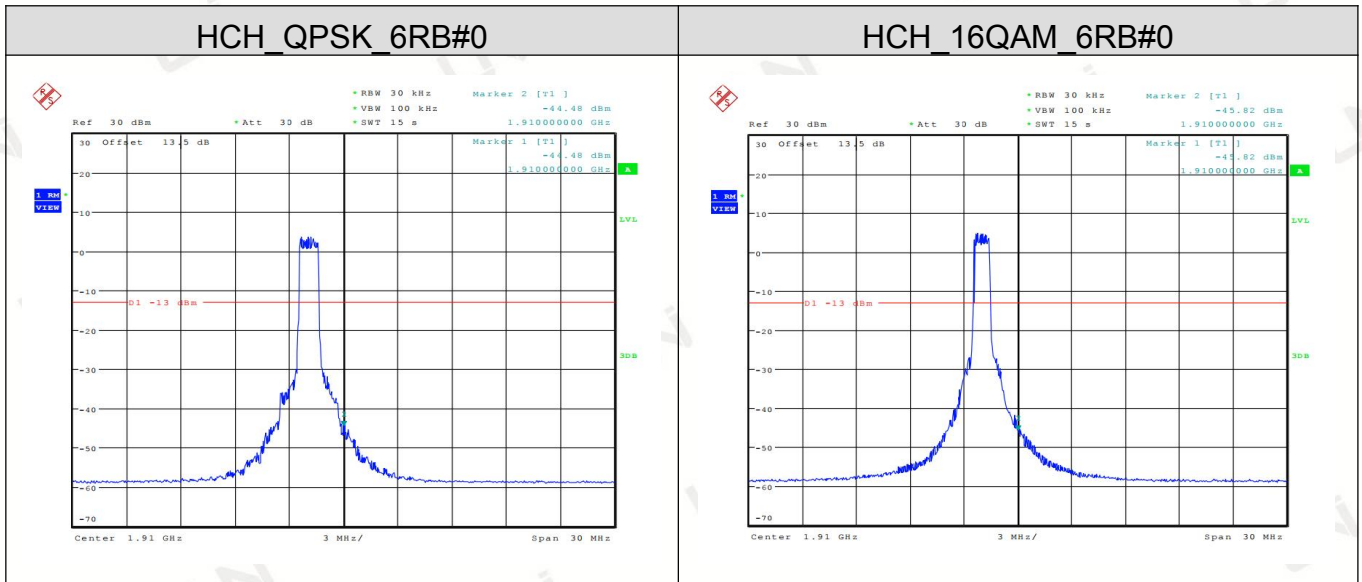
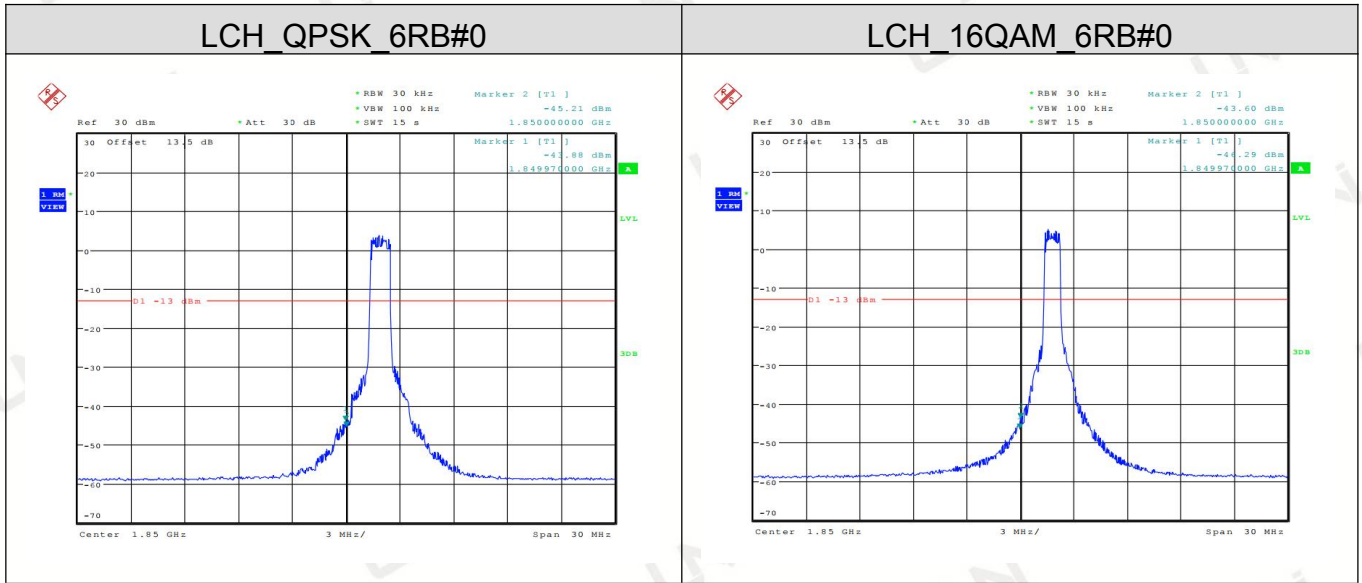




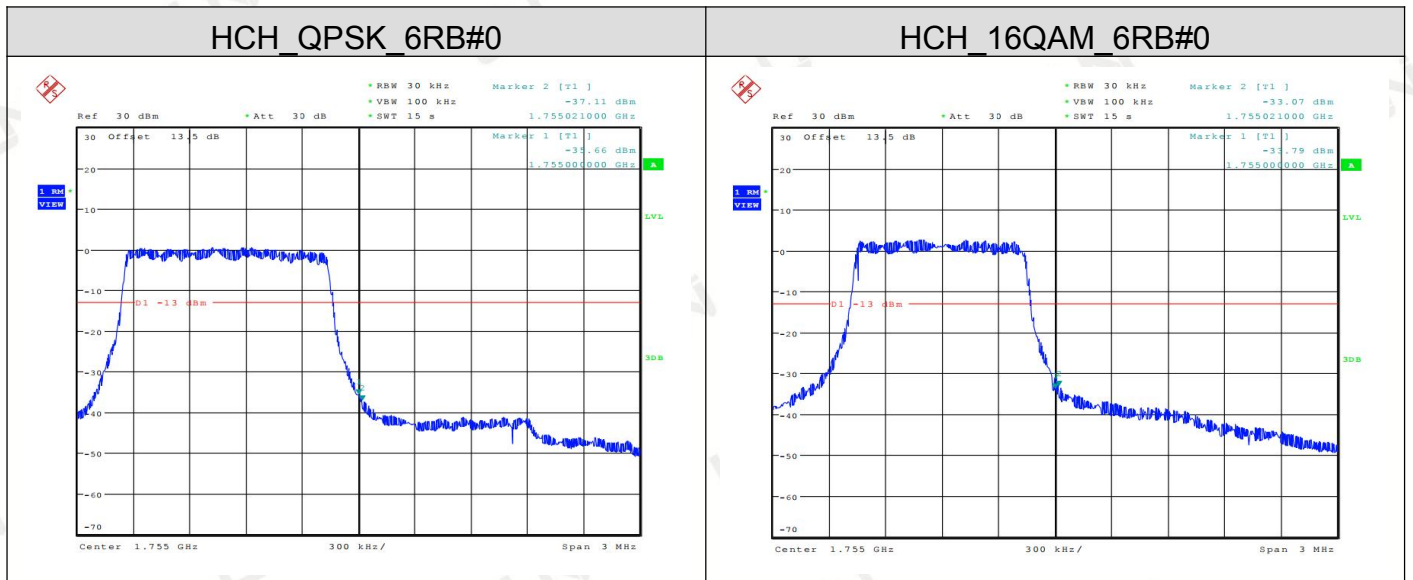
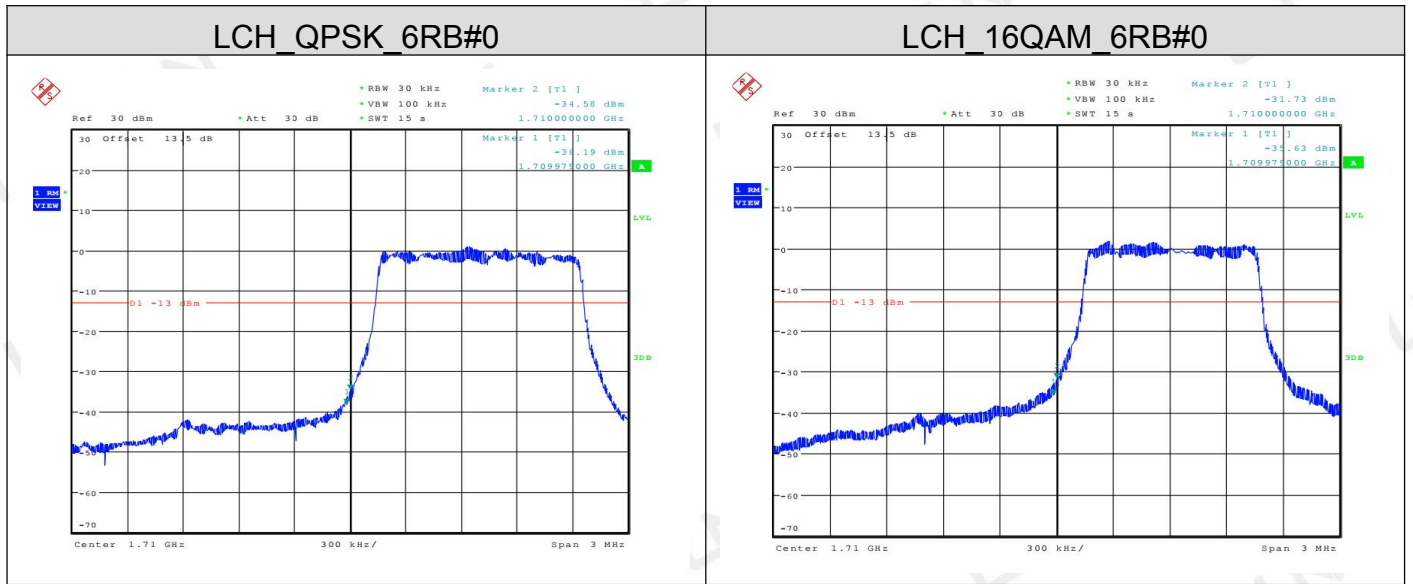
**Channel Bandwidth: 15 MHz**



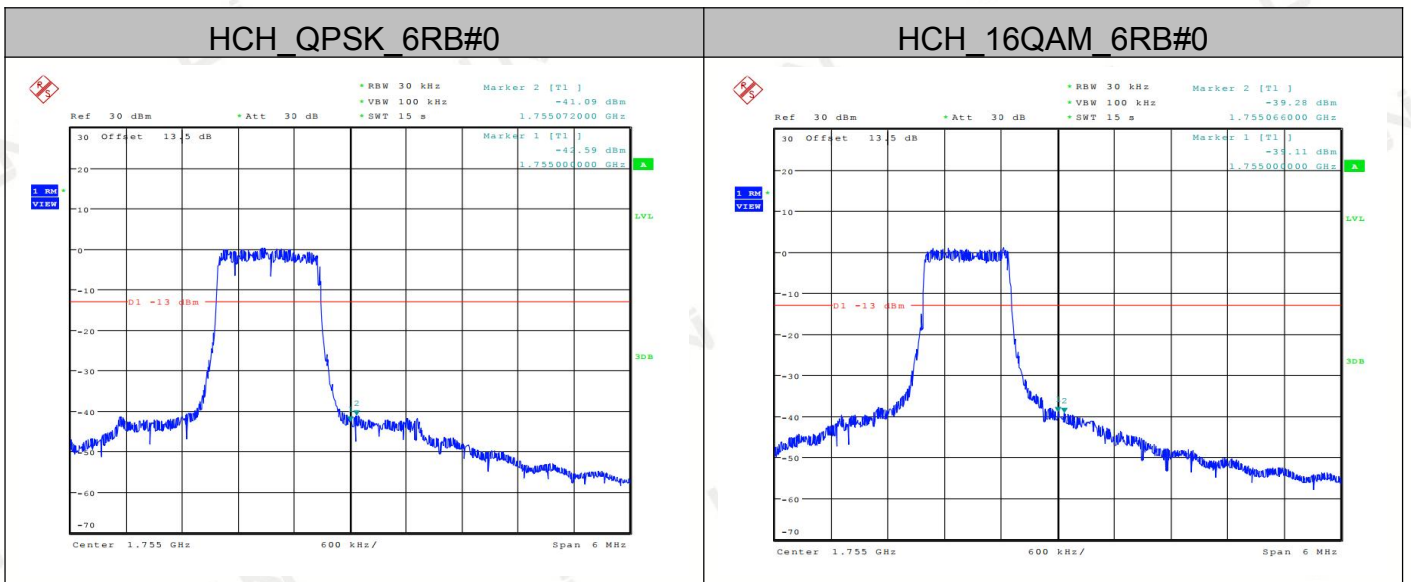
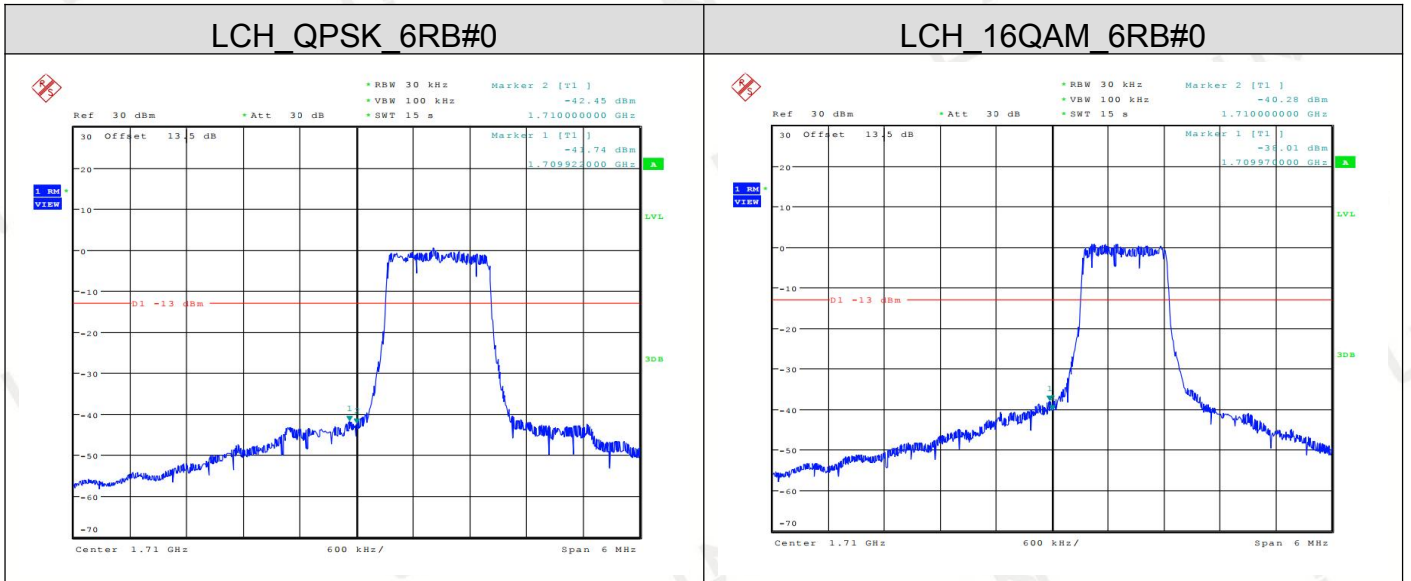
**Channel Bandwidth: 20 MHz**



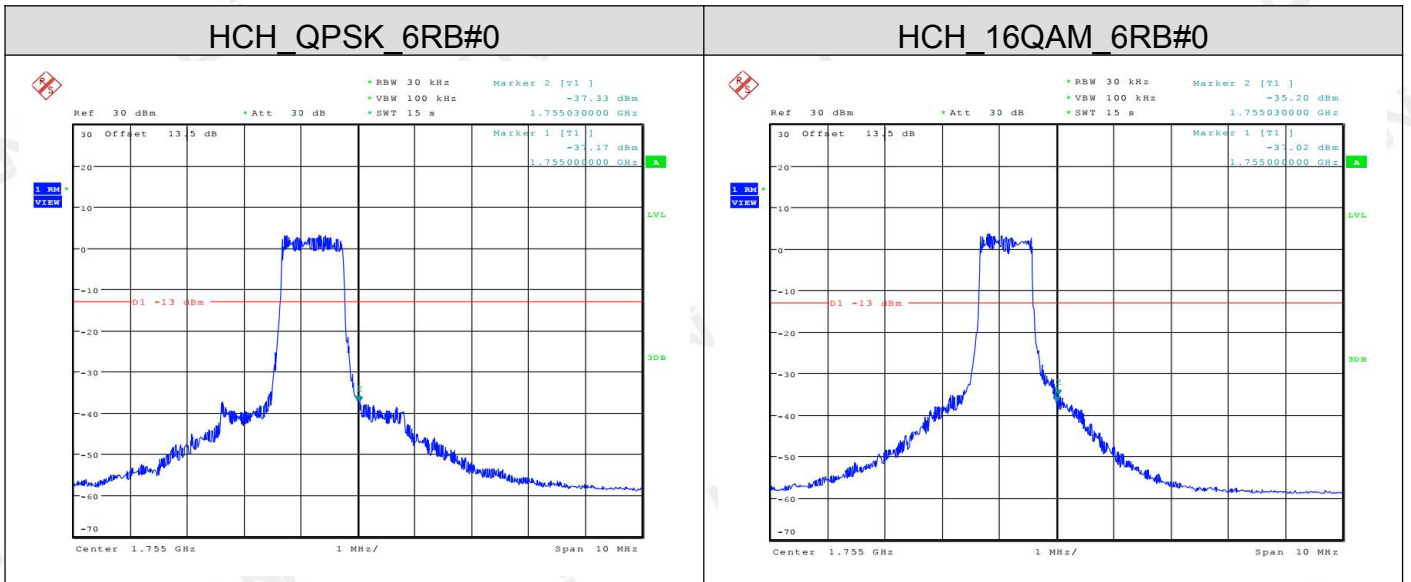
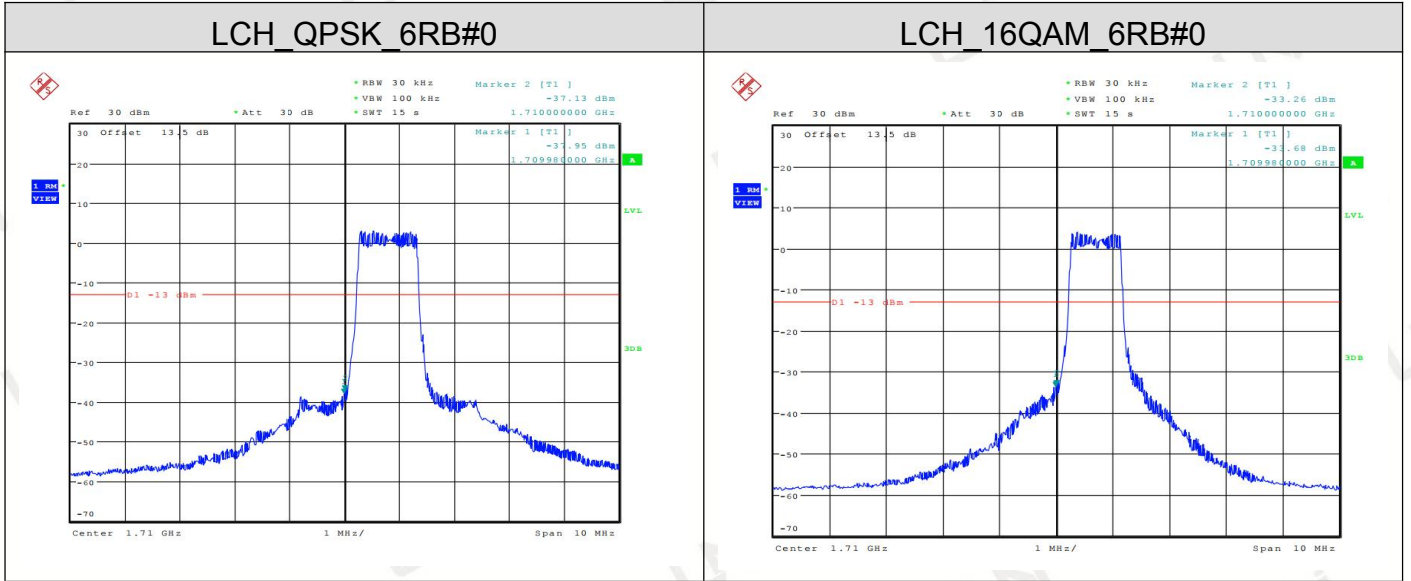
**LTE BAND 4**  
**Channel Bandwidth: 1.4 MHz**



**Channel Bandwidth: 3 MHz**

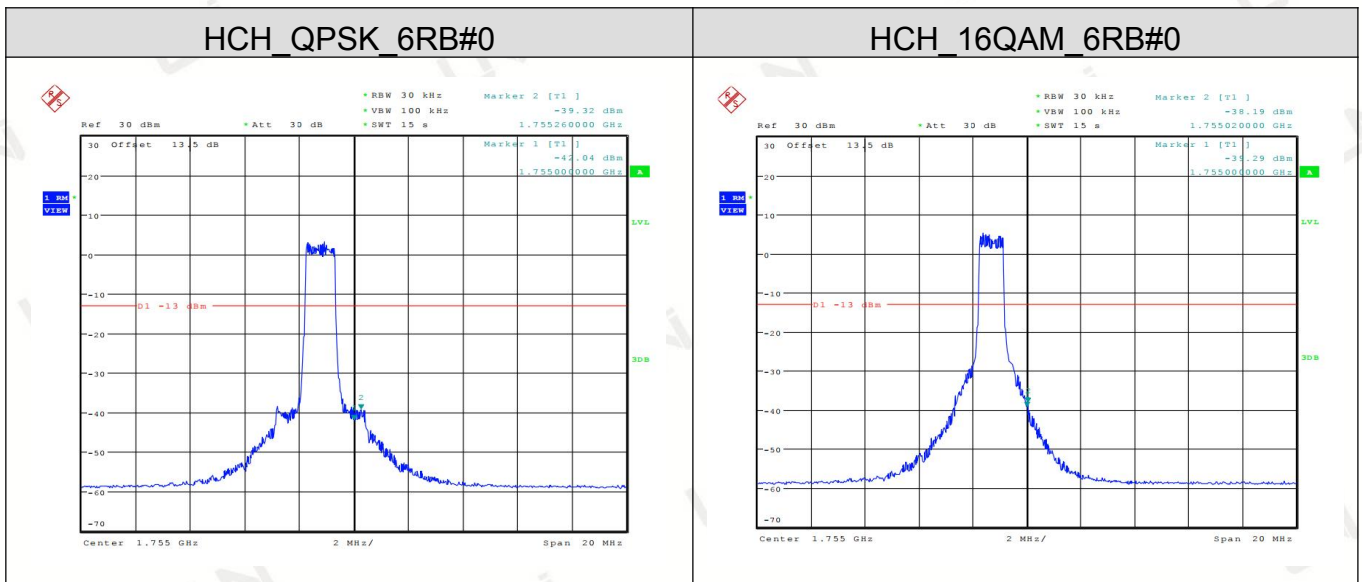
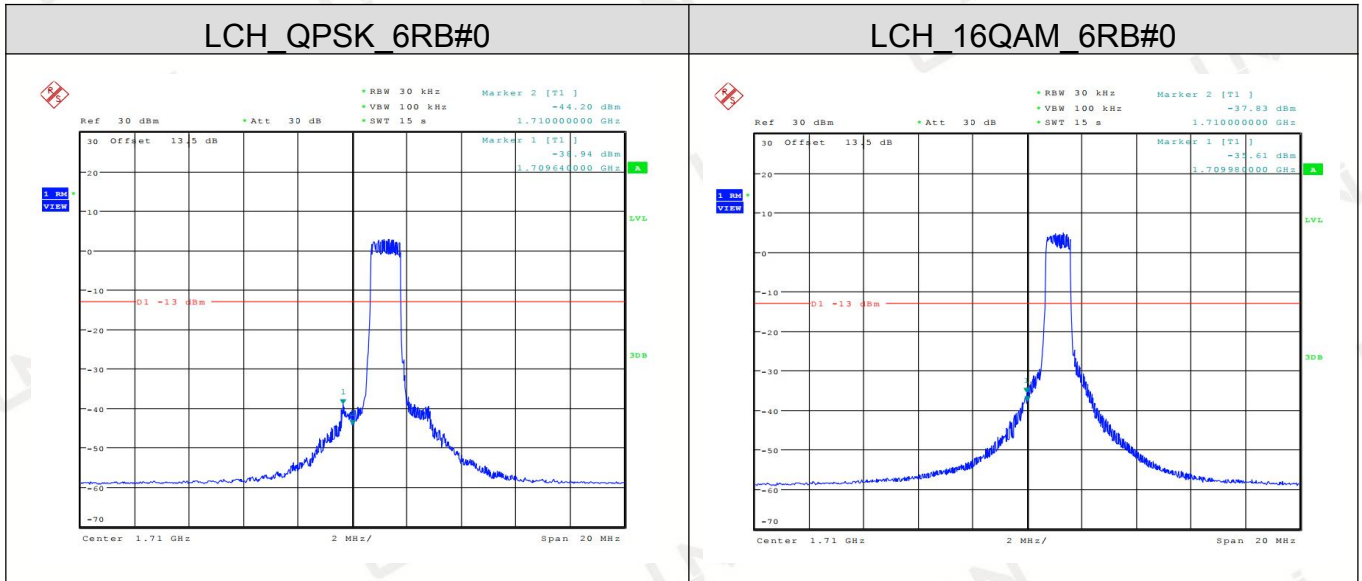


**Channel Bandwidth: 5 MHz**

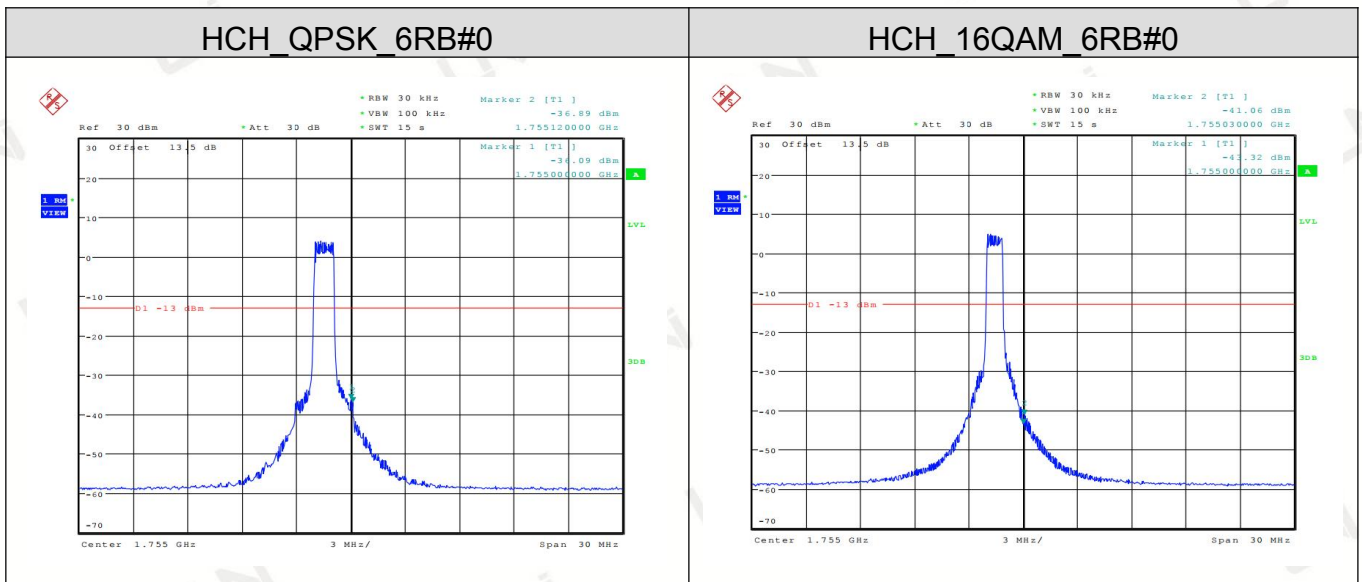
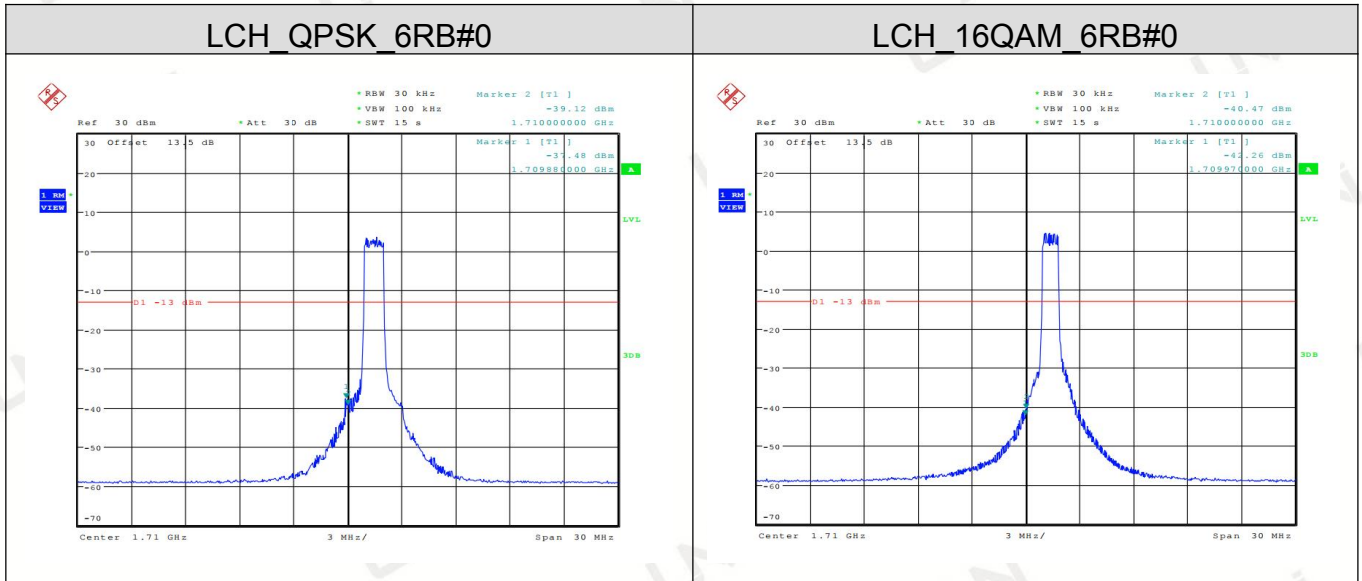




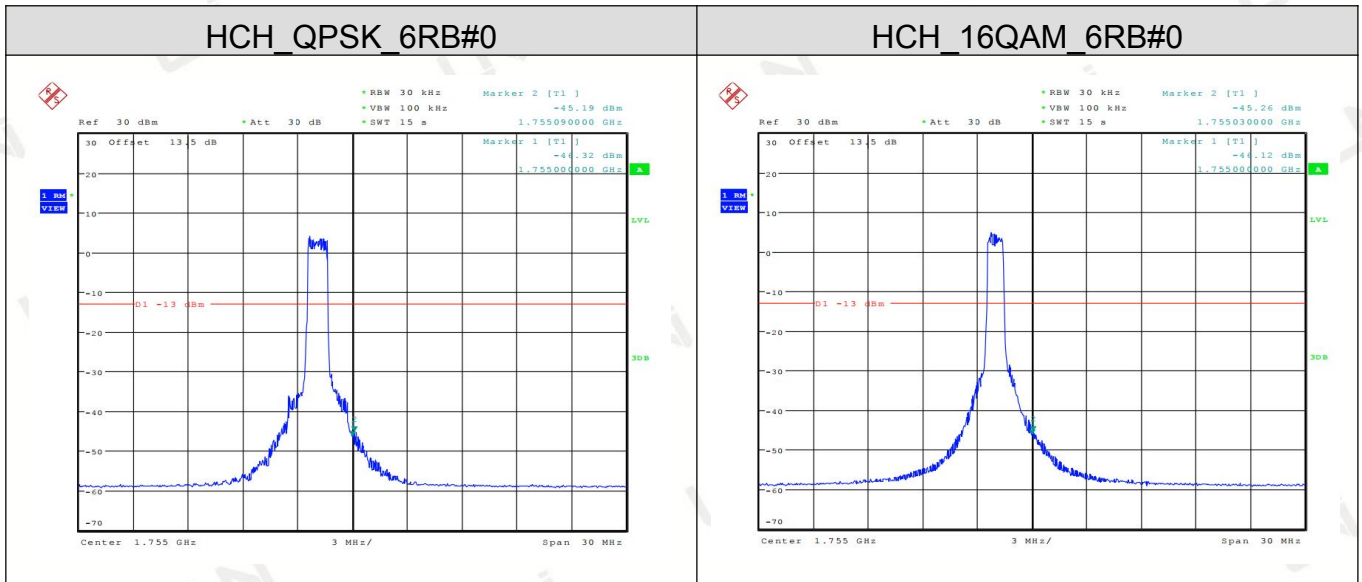
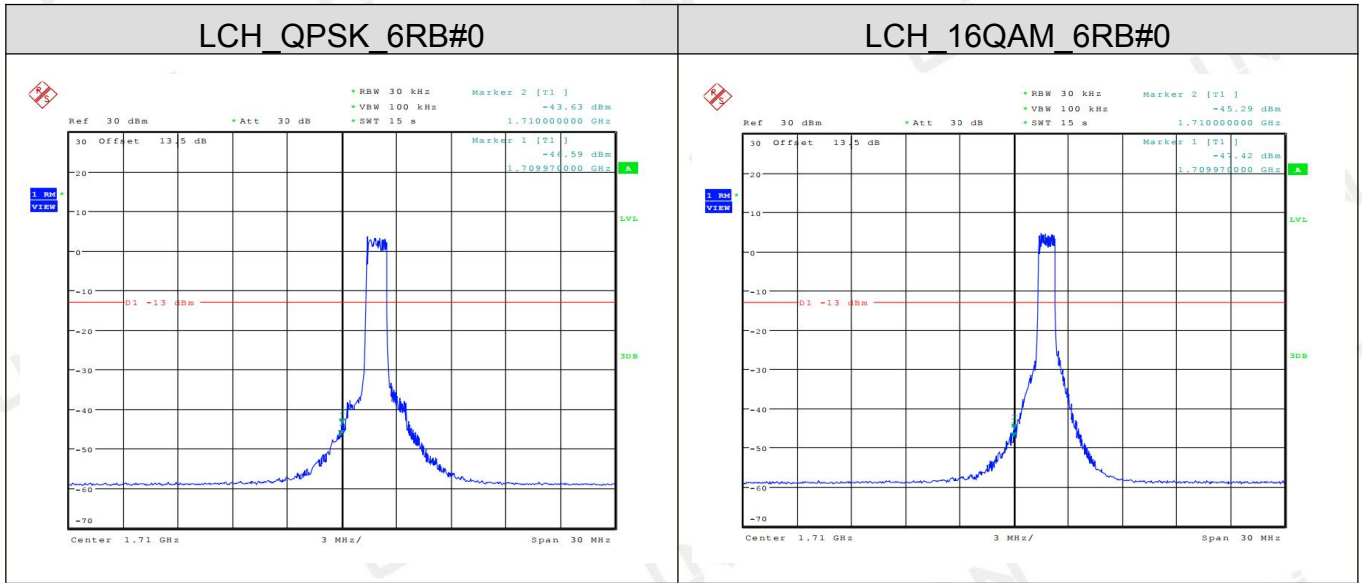
**Channel Bandwidth: 10 MHz**



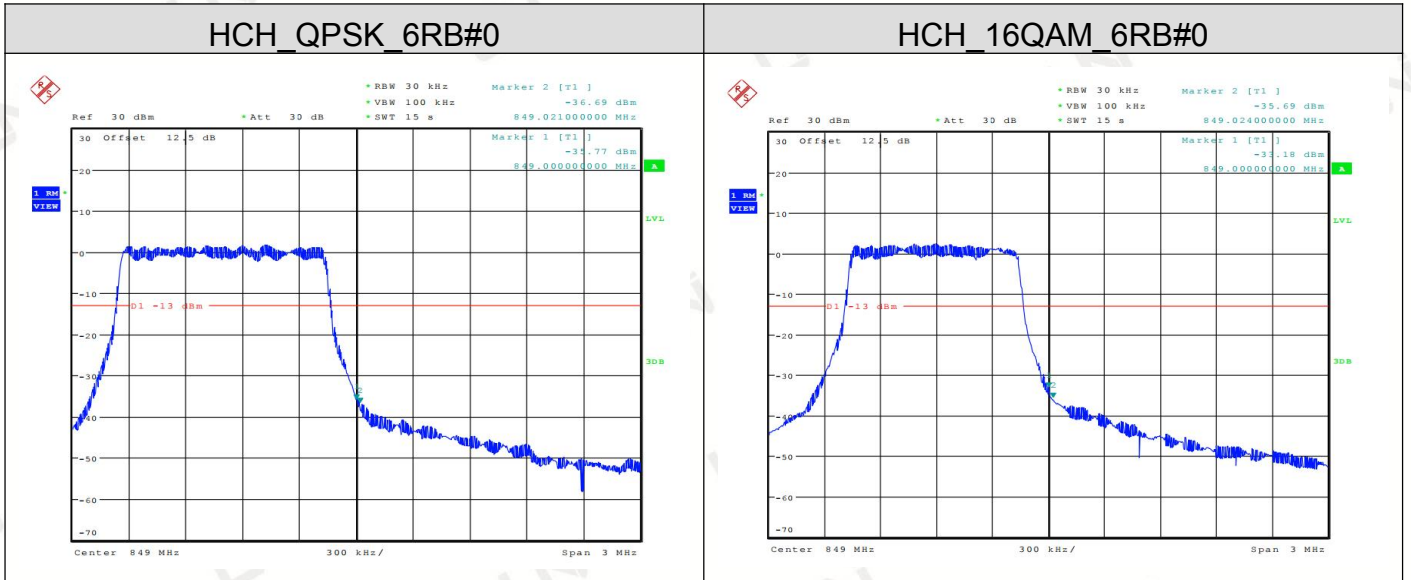
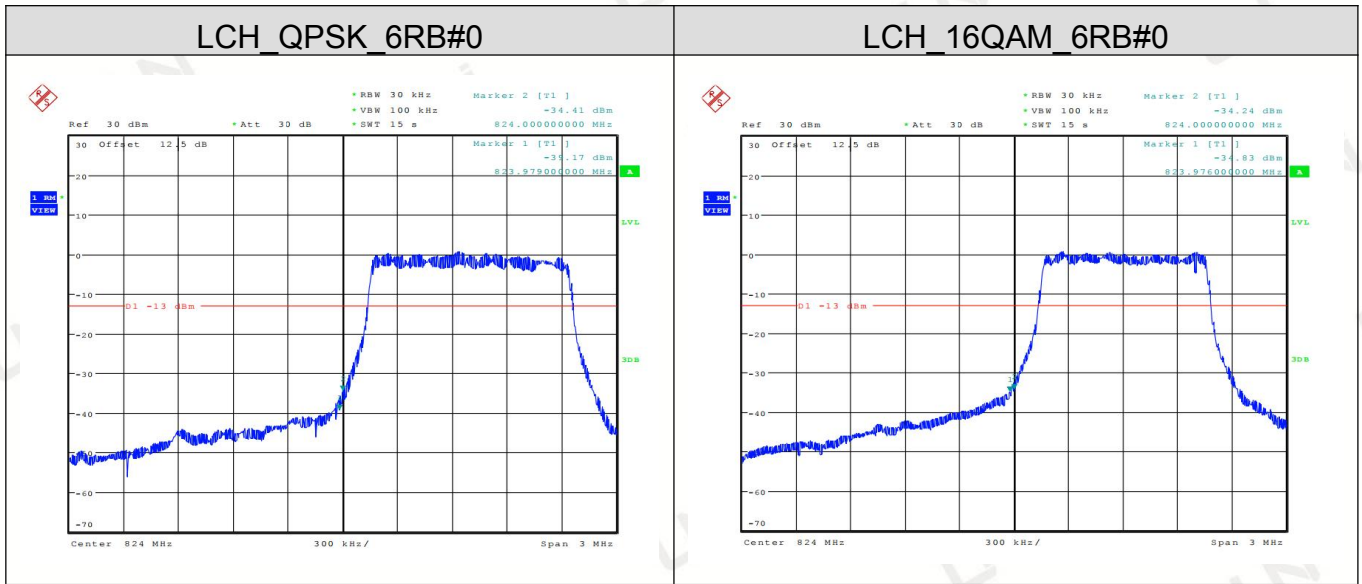
**Channel Bandwidth: 15 MHz**



**Channel Bandwidth: 20 MHz**



LTE BAND 5  
Channel Bandwidth: 1.4 MHz



**Channel Bandwidth: 3 MHz**

