



## LTE Band 5 \_ Peak-to-Average Radio

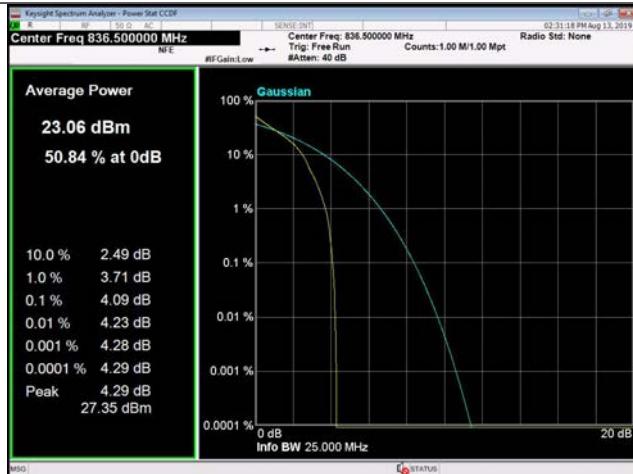
## 1.4MHz / QPSK / Low Channel



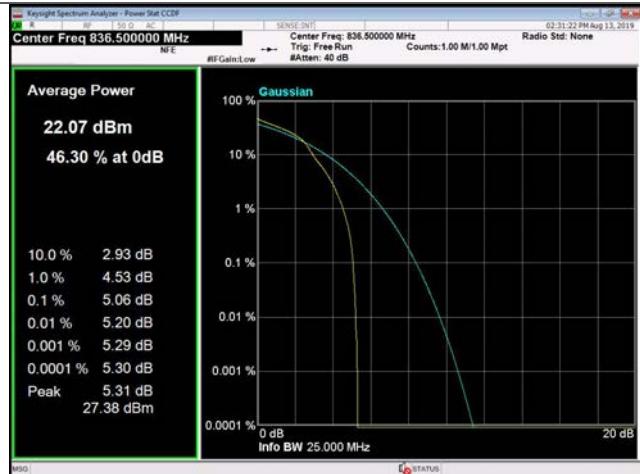
## 1.4MHz / 16QAM / Low Channel



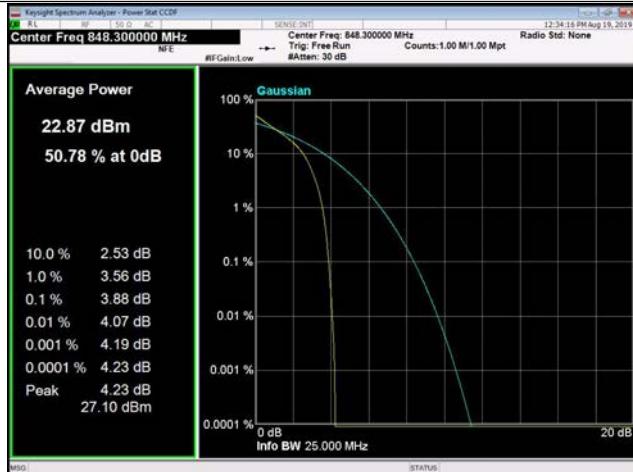
## 1.4MHz / QPSK / Middle Channel



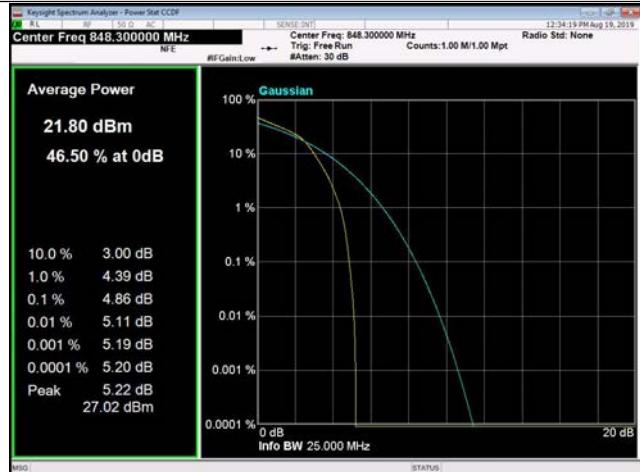
## 1.4MHz / 16QAM / Middle Channel



## 1.4MHz / QPSK / High Channel



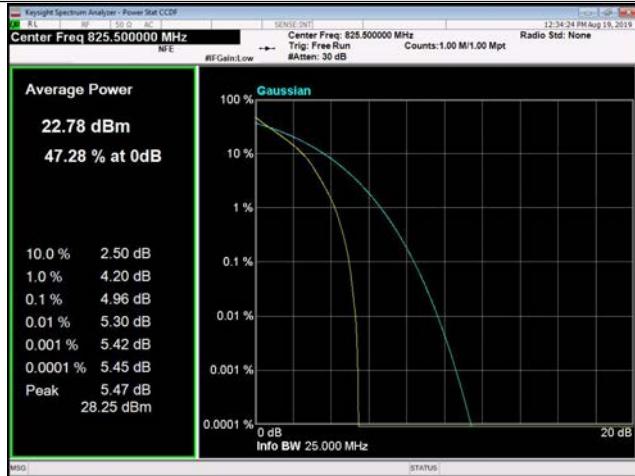
### 1.4MHz / 16QAM / High Channel



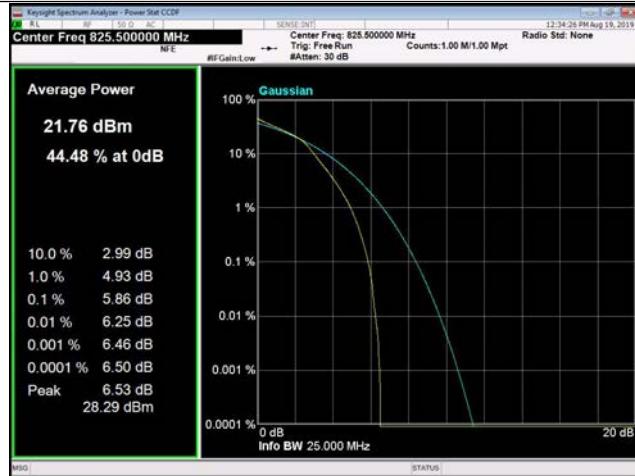


## LTE Band 5 \_ Peak-to-Average Radio

## 3MHz / QPSK / Low Channel



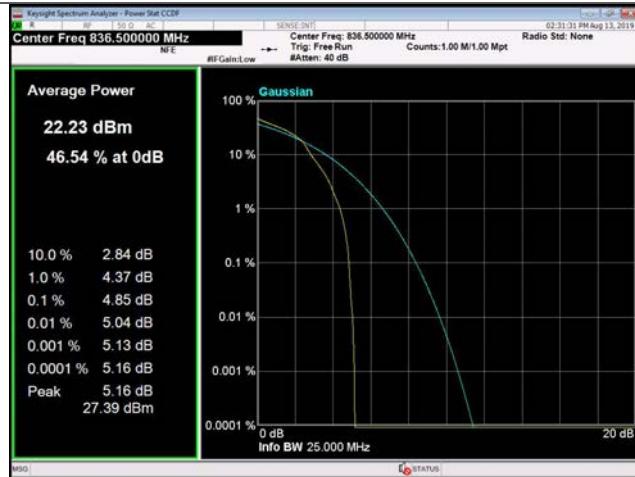
## 3MHz / 16QAM / Low Channel



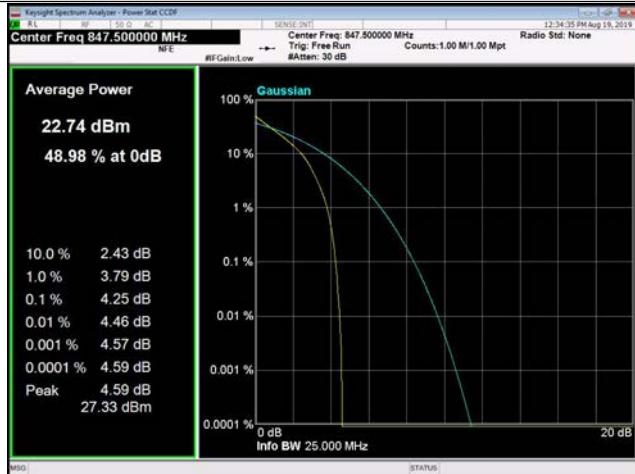
## 3MHz / QPSK / Middle Channel



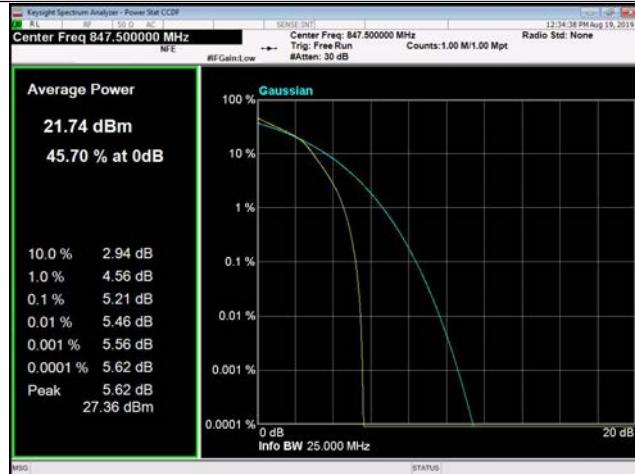
## 3MHz / 16QAM / Middle Channel



## 3MHz / QPSK / High Channel



## 3MHz / 16QAM / High Channel



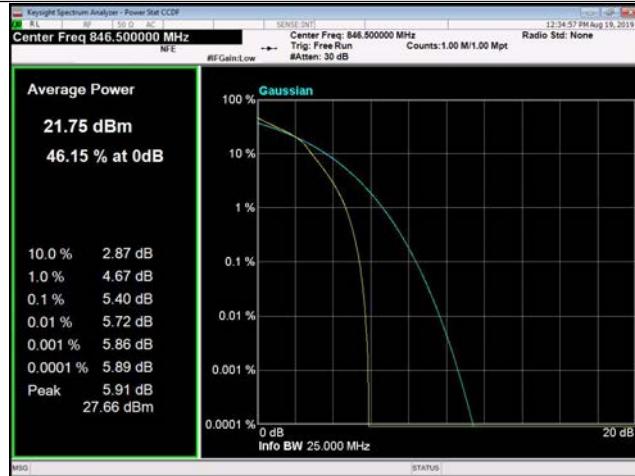
**LTE Band 5 \_ Peak-to-Average Radio**
**5MHz / QPSK / Low Channel**

**5MHz / 16QAM / Low Channel**

**5MHz / QPSK / Middle Channel**

**5MHz / 16QAM / Middle Channel**

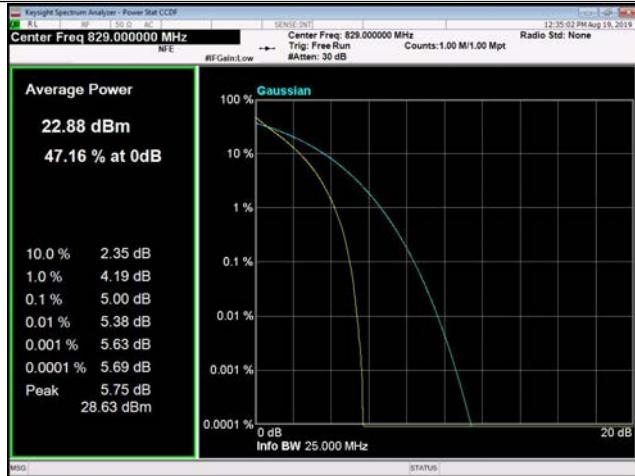
**5MHz / QPSK / High Channel**

**5MHz / 16QAM / High Channel**


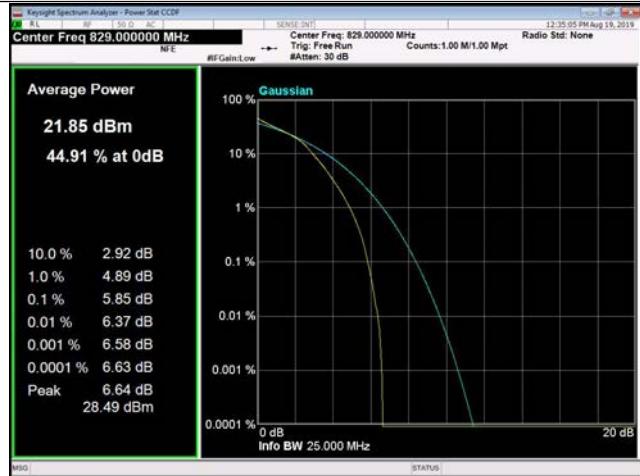


## LTE Band 5 \_ Peak-to-Average Radio

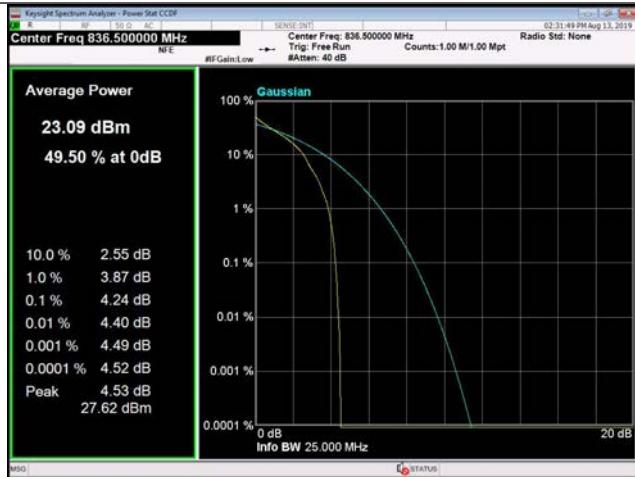
## 10MHz / QPSK / Low Channel



## 10MHz / 16QAM / Low Channel



## 10MHz / QPSK / Middle Channel



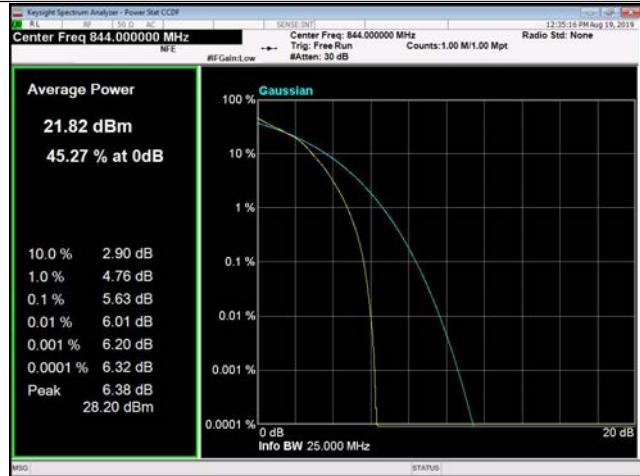
## 10MHz / 16QAM / Middle Channel

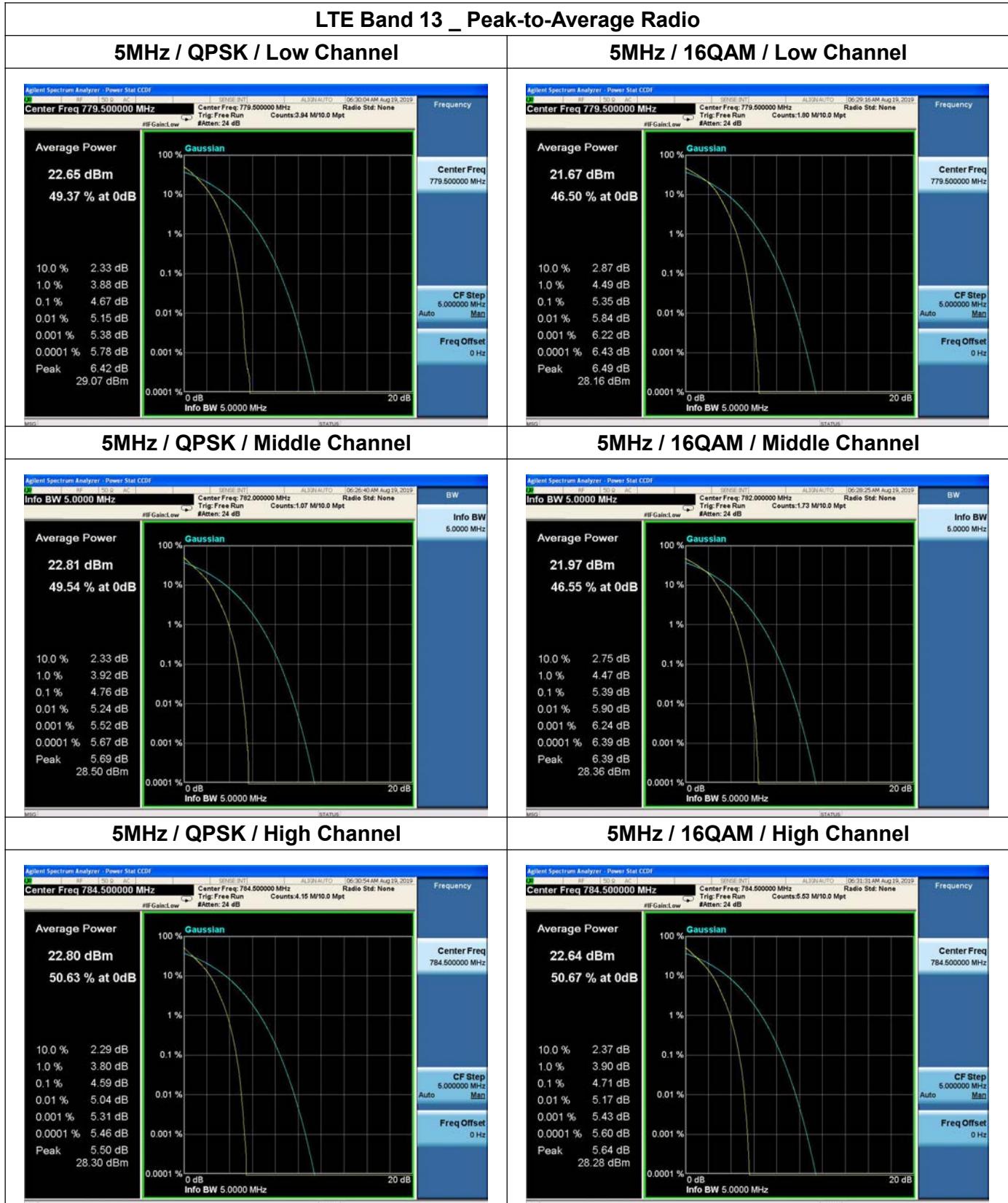


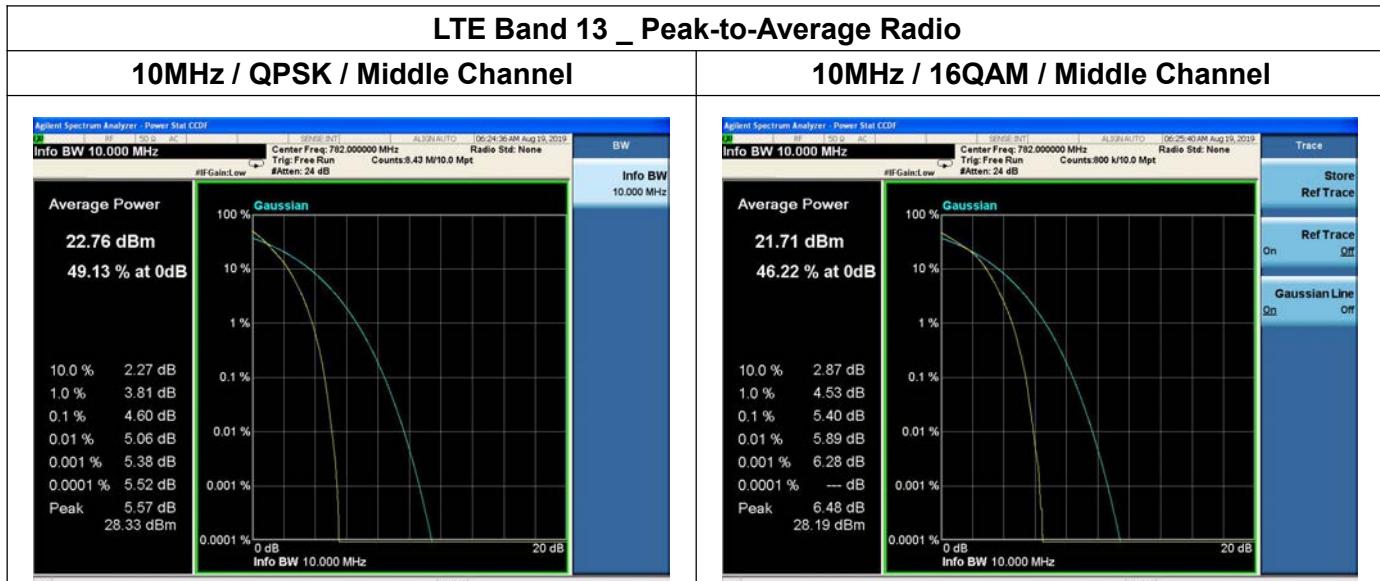
## 10MHz / QPSK / High Channel



## 10MHz / 16QAM / High Channel









## 2.5. Conducted Spurious Emissions

### 2.5.1. Requirement

According to FCC section 22.917(a), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

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

According to FCC section 27.53(c) (2), for any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated below the band below the transmitter power (P) by at least  $43 + 10 \log(P)$  dB.

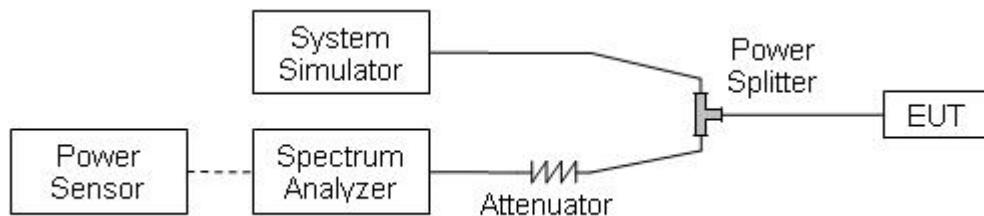
For operating in the 770-788MHz, emissions in the band 1559-1610MHz shall be limited to -70dBW/MHz. The limit of emission is equal to -40dBm

According to FCC section 27.53(g), for operations in the 698–746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least  $43 + 10 \log(P)$  dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

According to FCC section 27.53(h), For operations in the 1710–1785MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least  $43 + 10 \log(P)$  dB.

According to FCC section 27.53(m) (4)(6), For mobile digital stations, the attenuation factor shall be not less than  $40 + 10 \log(P)$  dB on all frequencies between the channel edge and 5 megahertz from the channel edge,  $43 + 10 \log(P)$  dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and  $55 + 10 \log(P)$  dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than  $43 + 10 \log(P)$  dB on all frequencies between 2490.5 MHz and 2496 MHz and  $55 + 10 \log(P)$  dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

## 2.5.2. Test Description

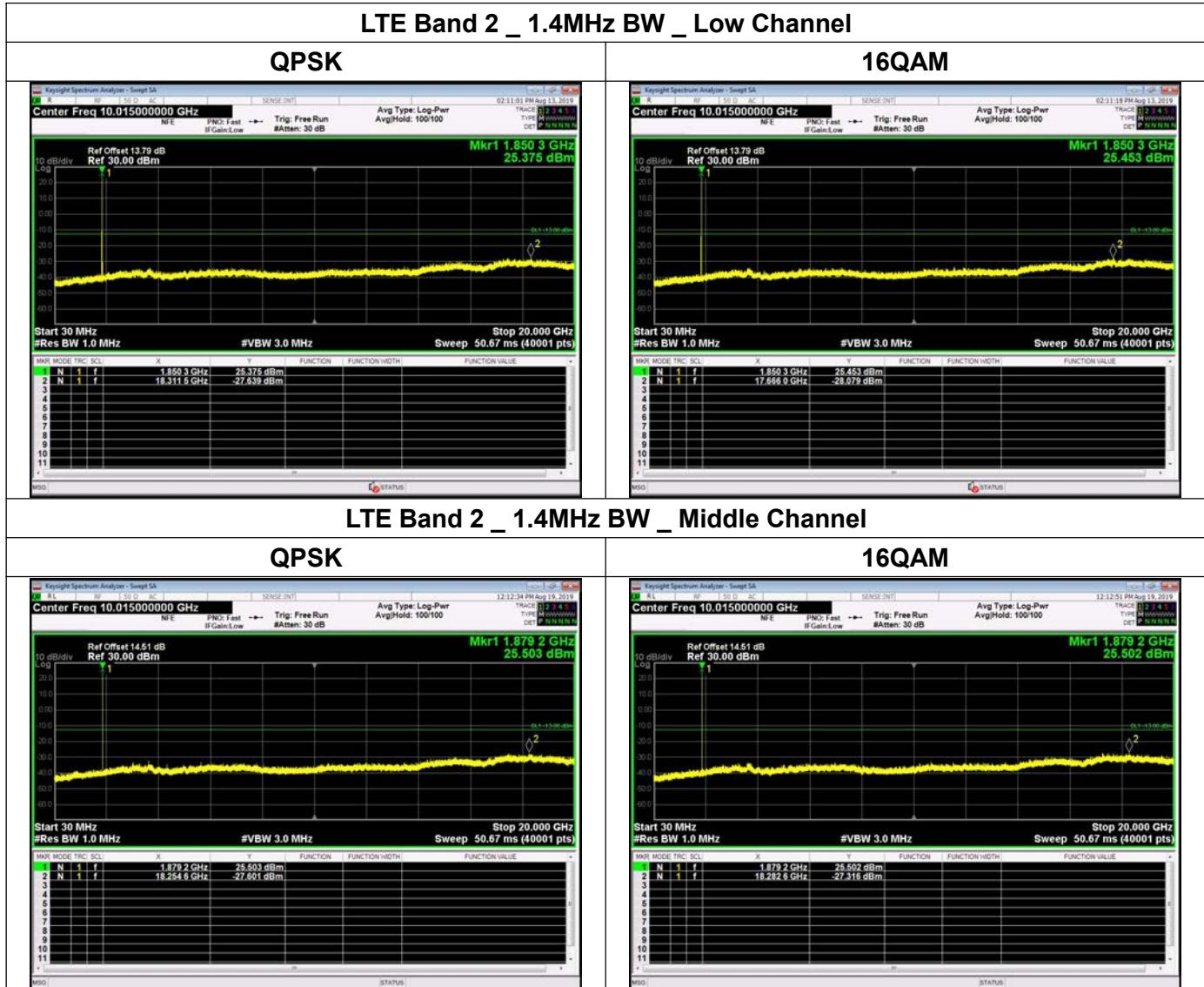


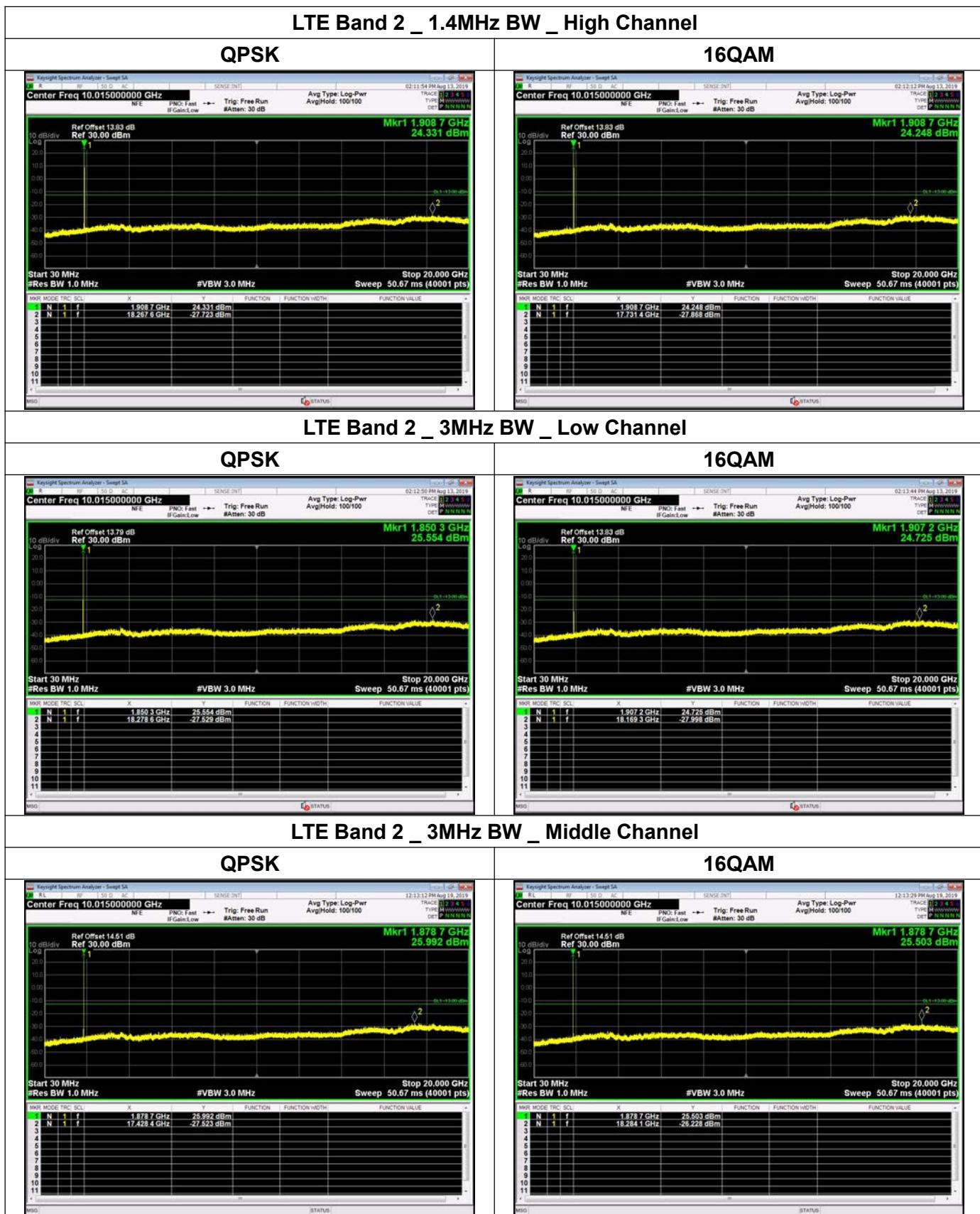
The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum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

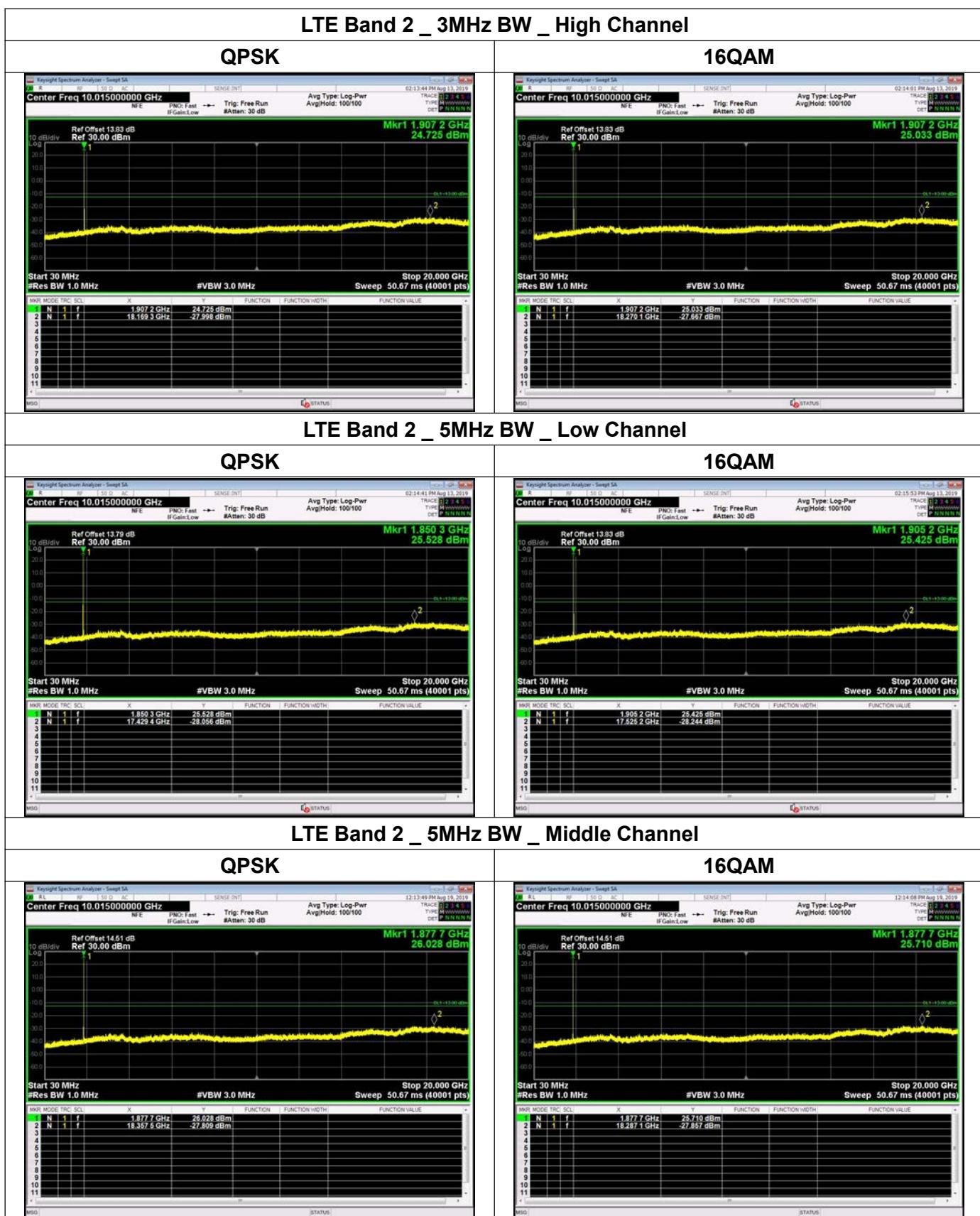
## 2.5.3. Test procedure

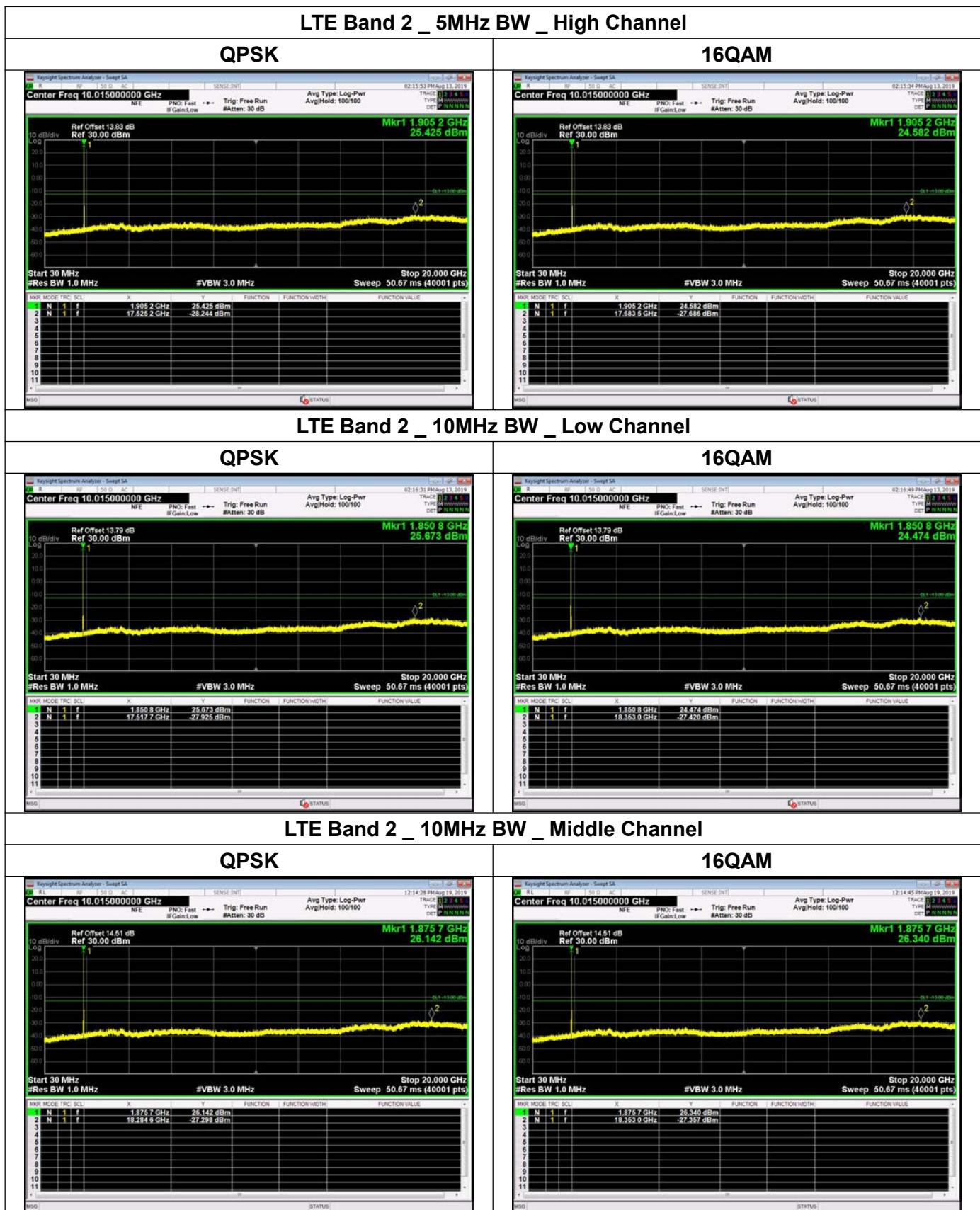
KDB 971168 D01v03r01 Section 6.0 and ANSI/TIA-603-E-2016.

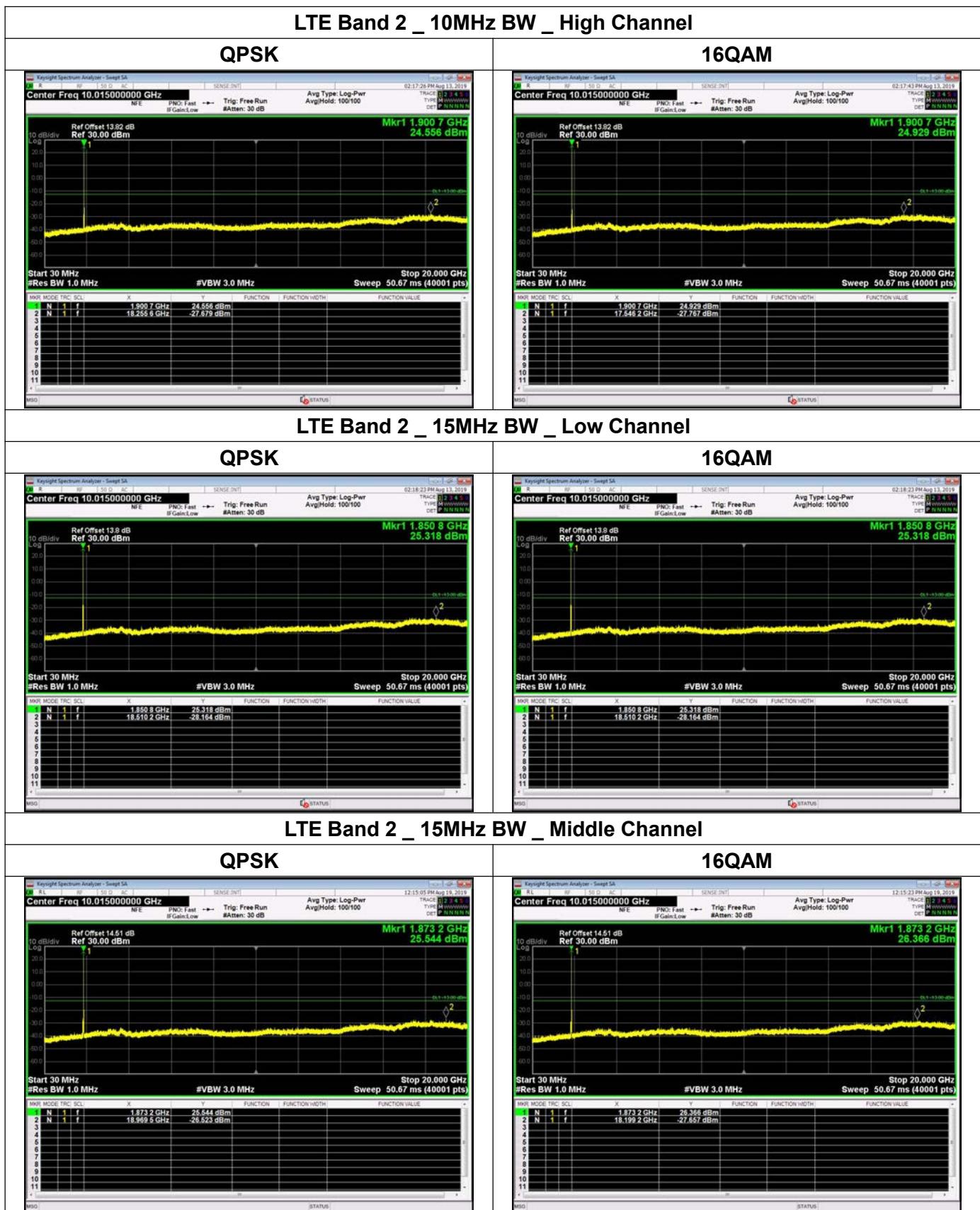
## 2.5.4. Test Result

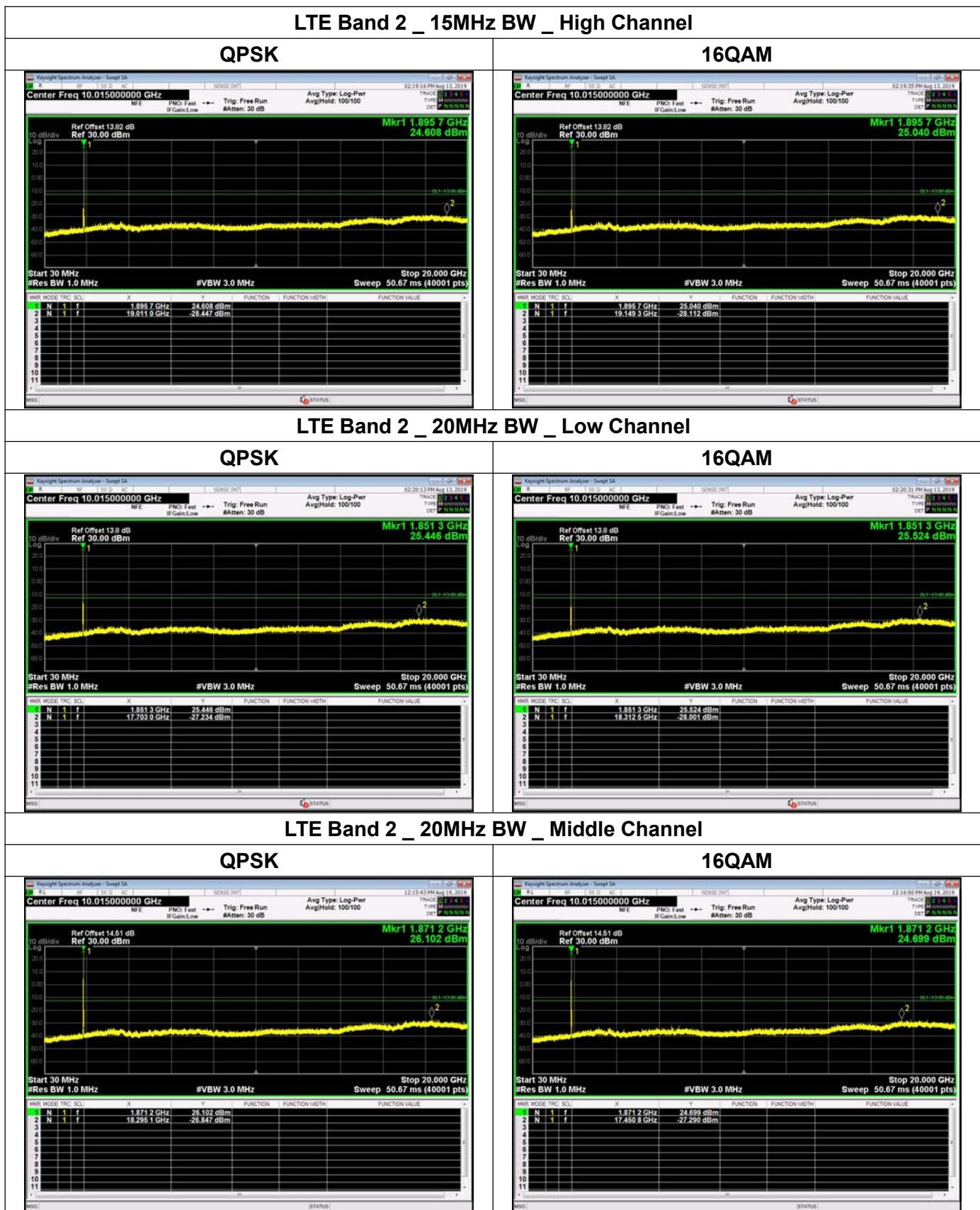


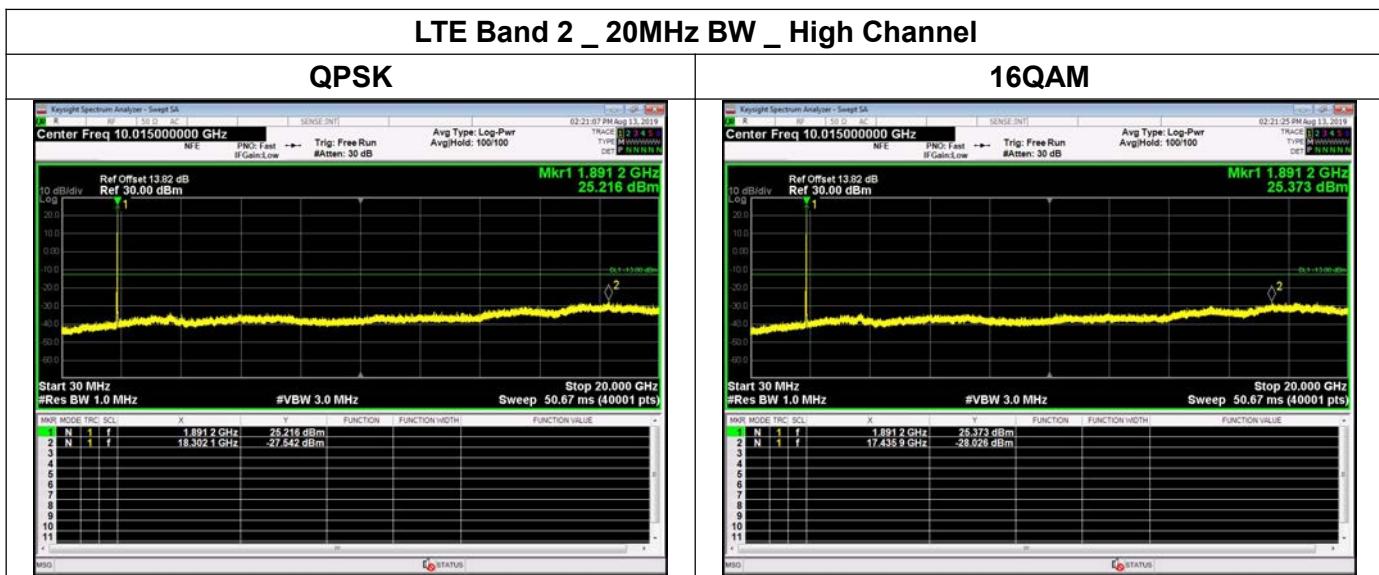


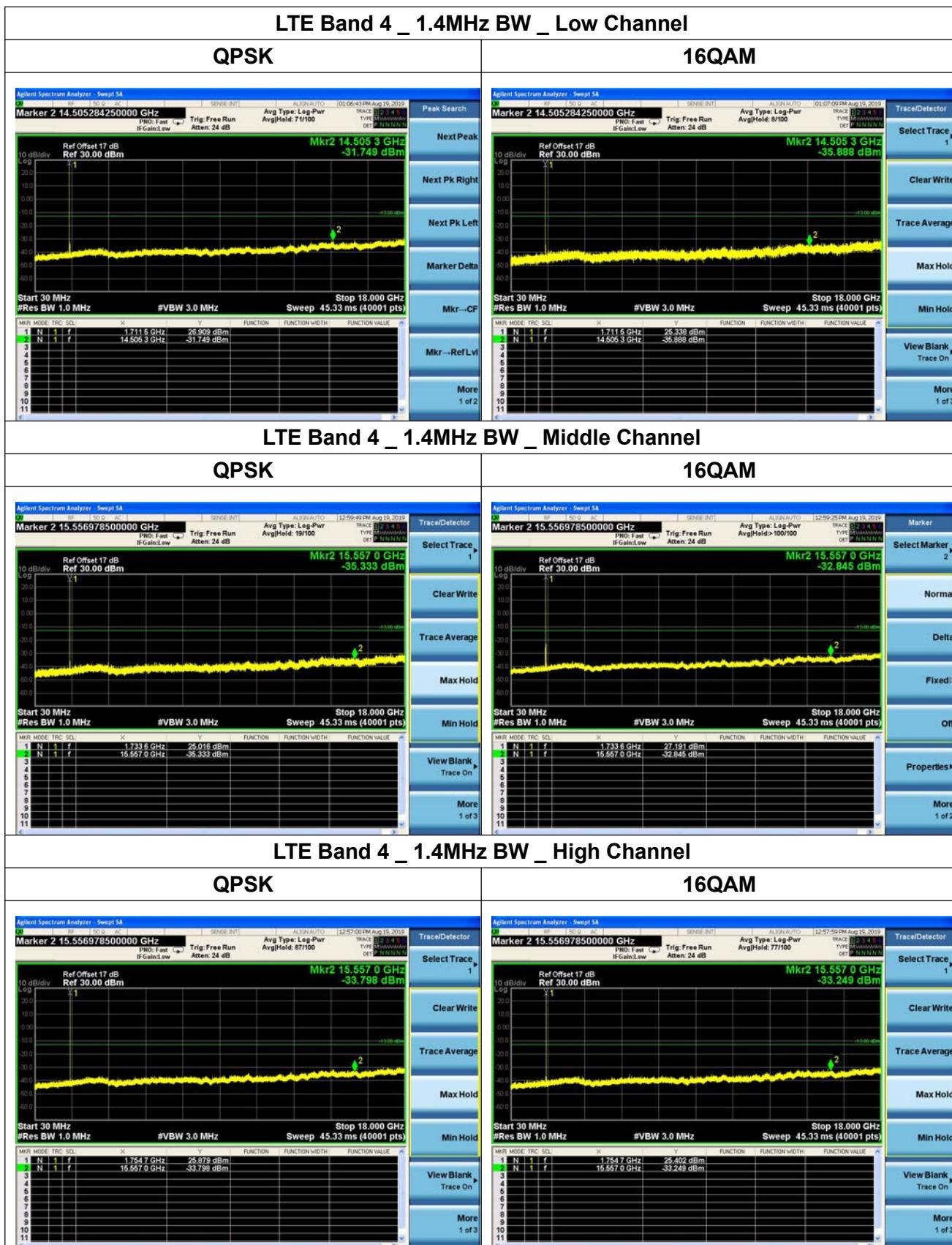


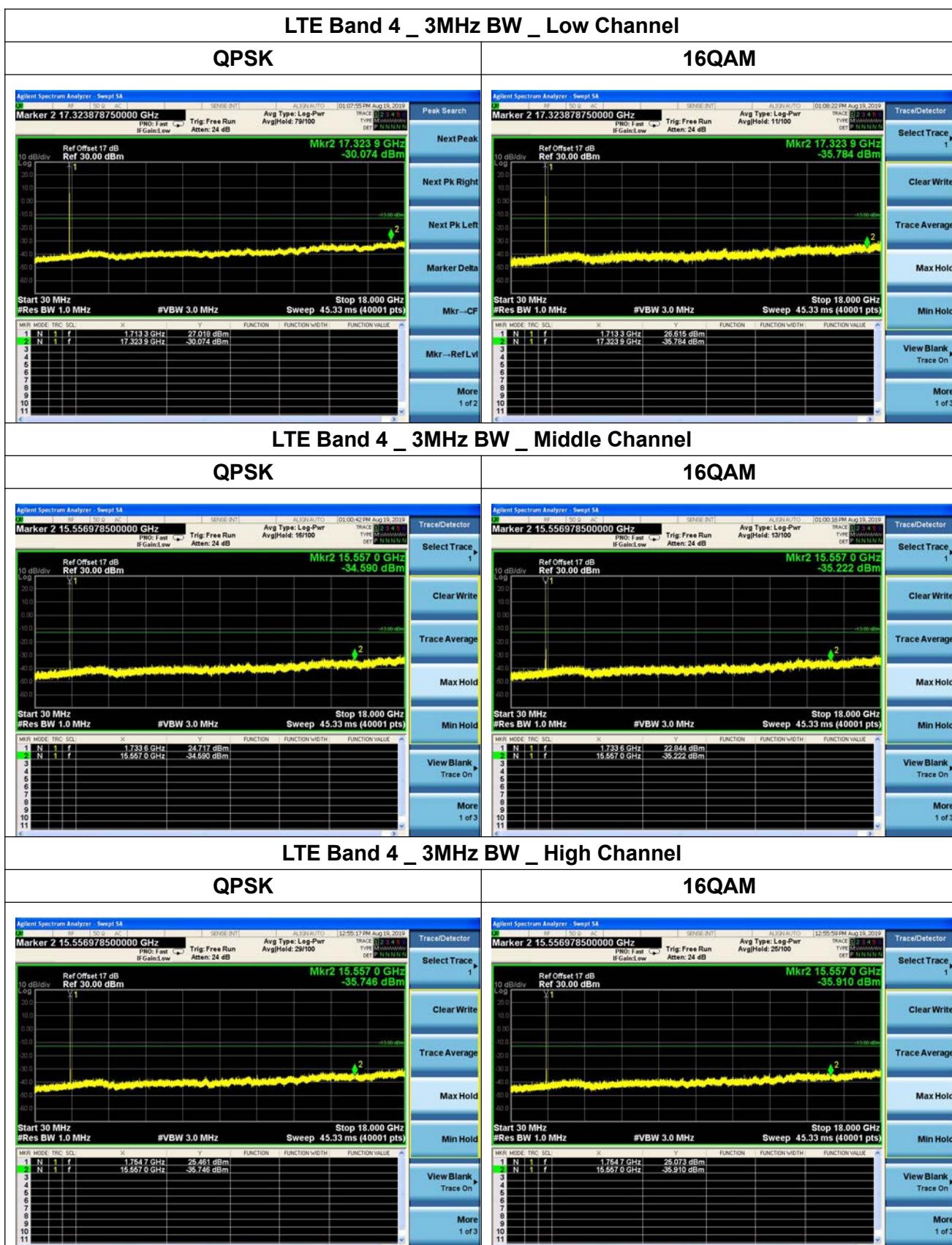


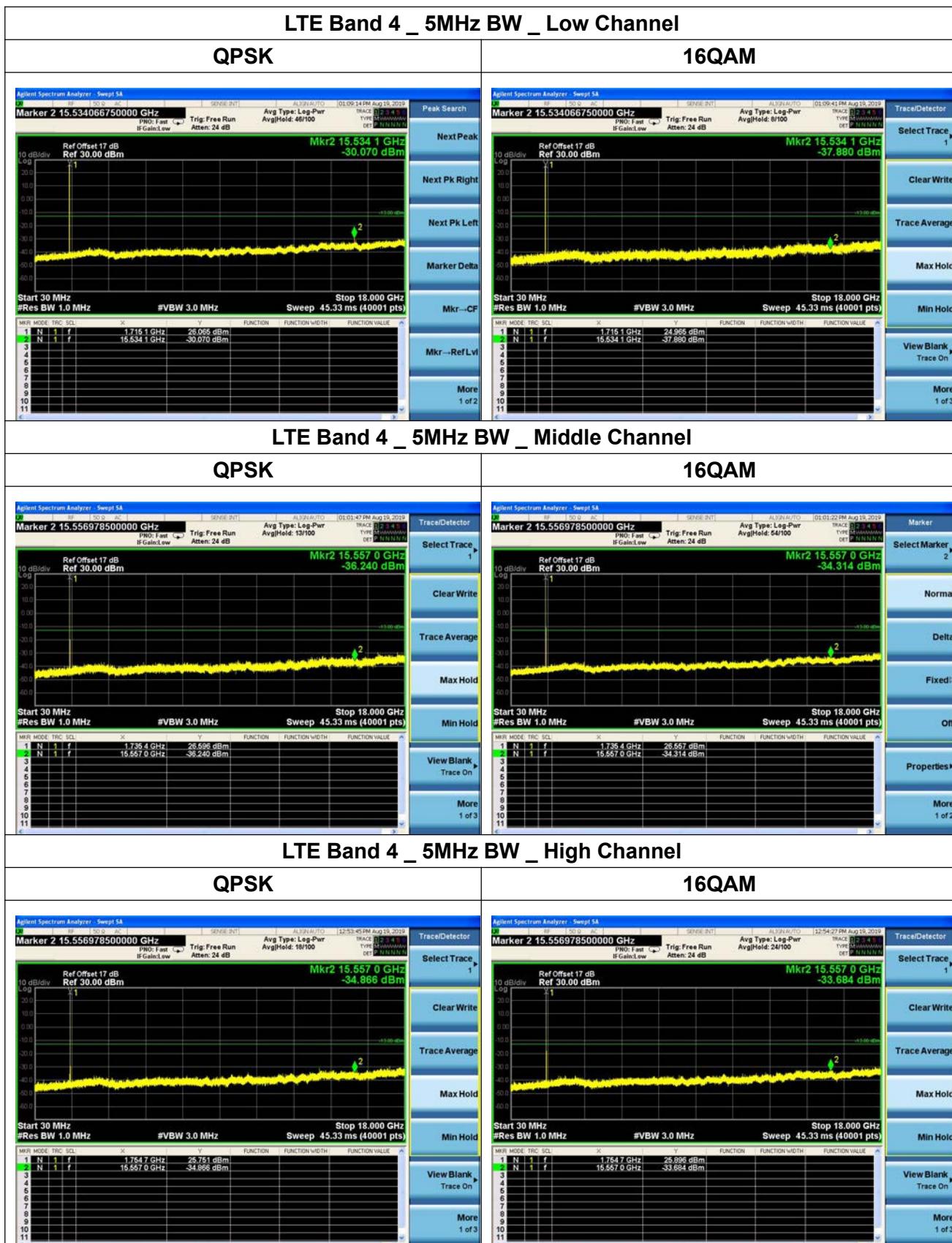


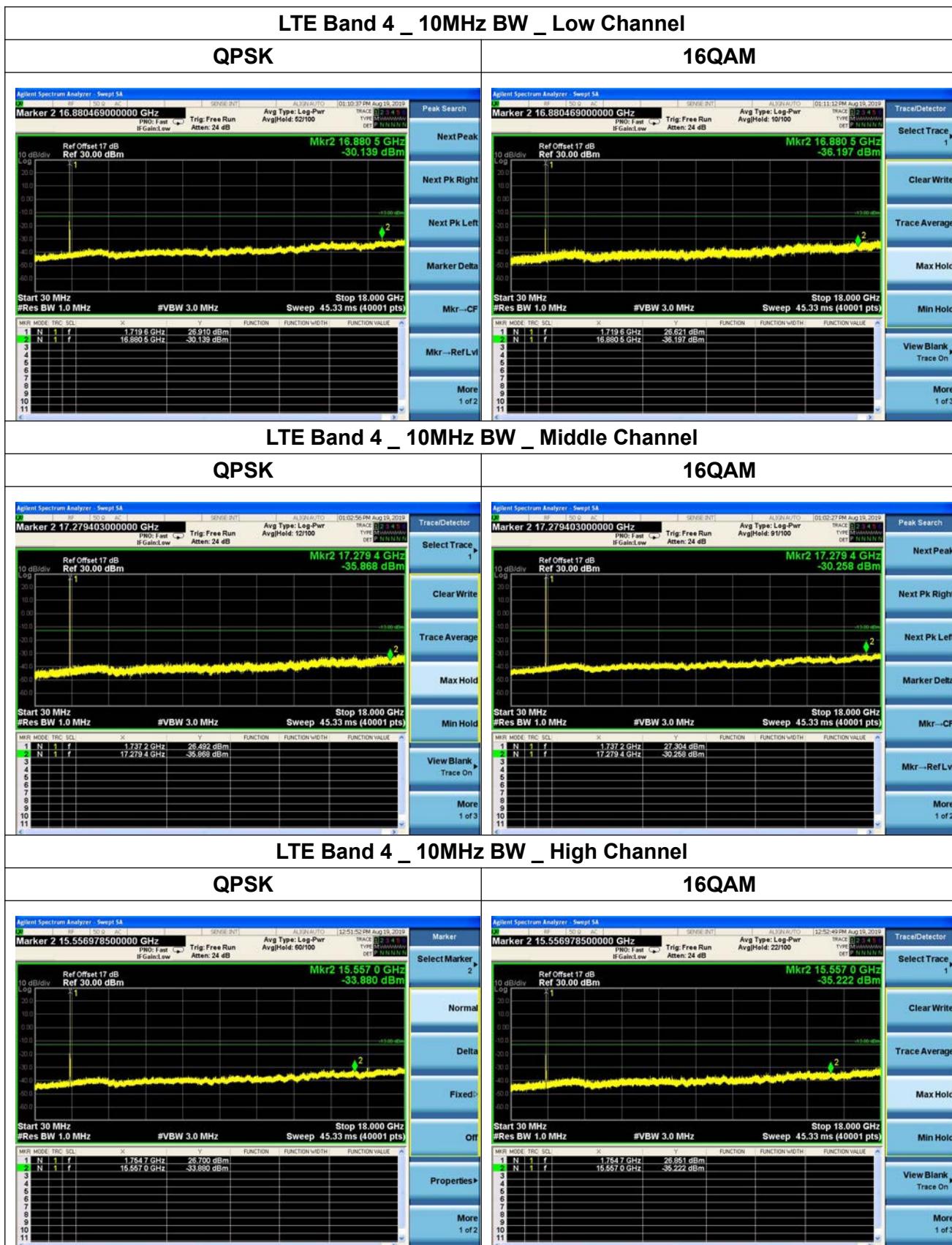


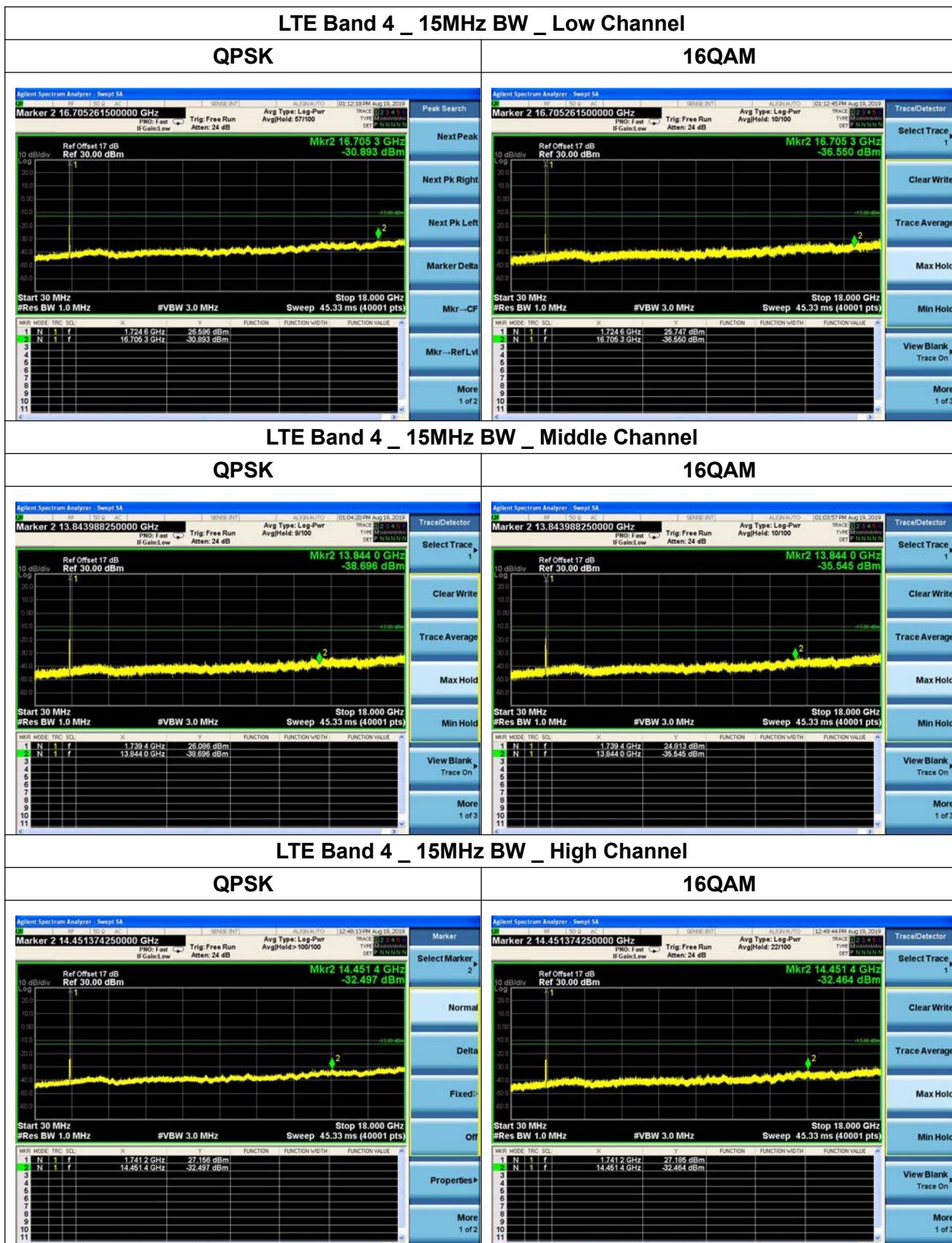


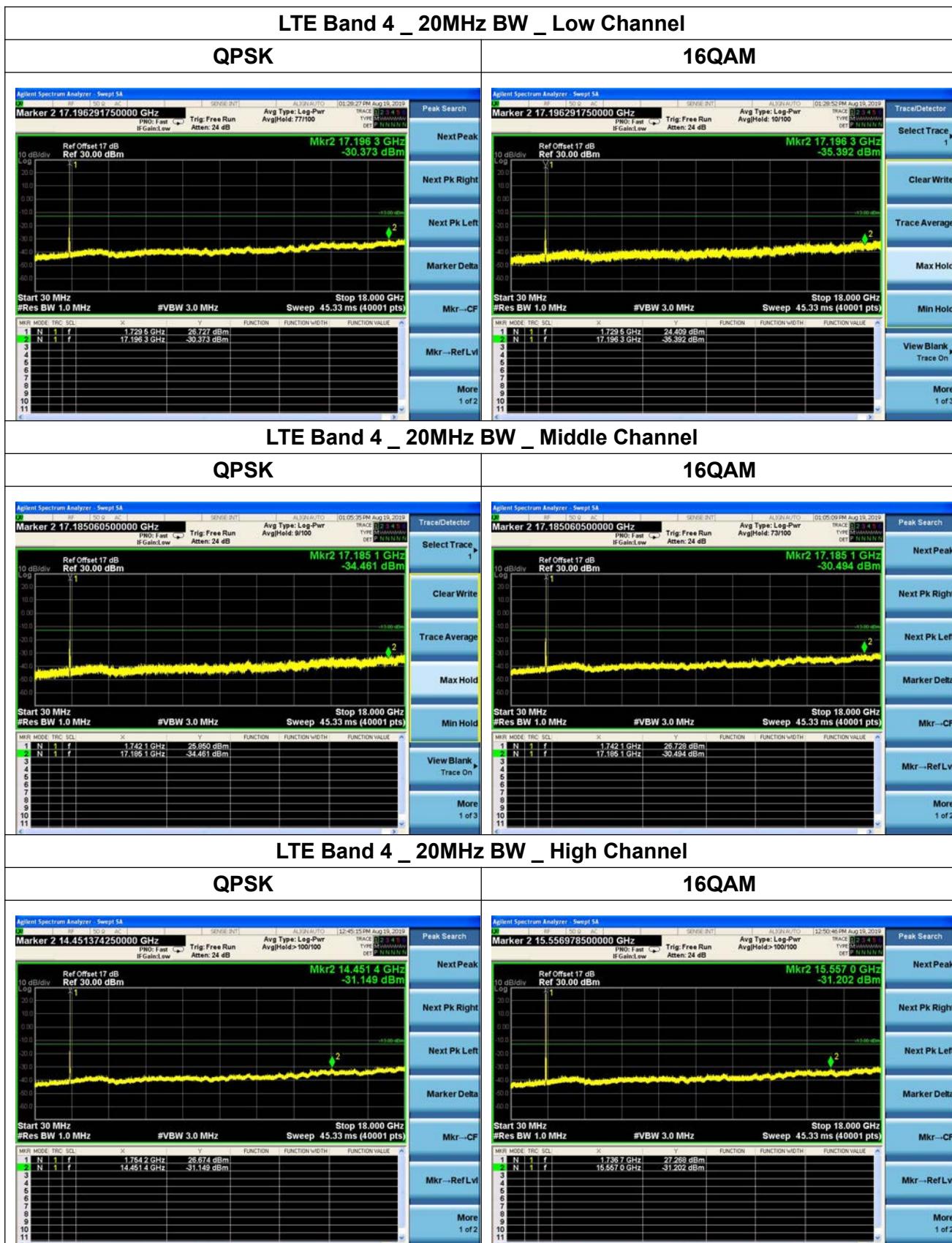


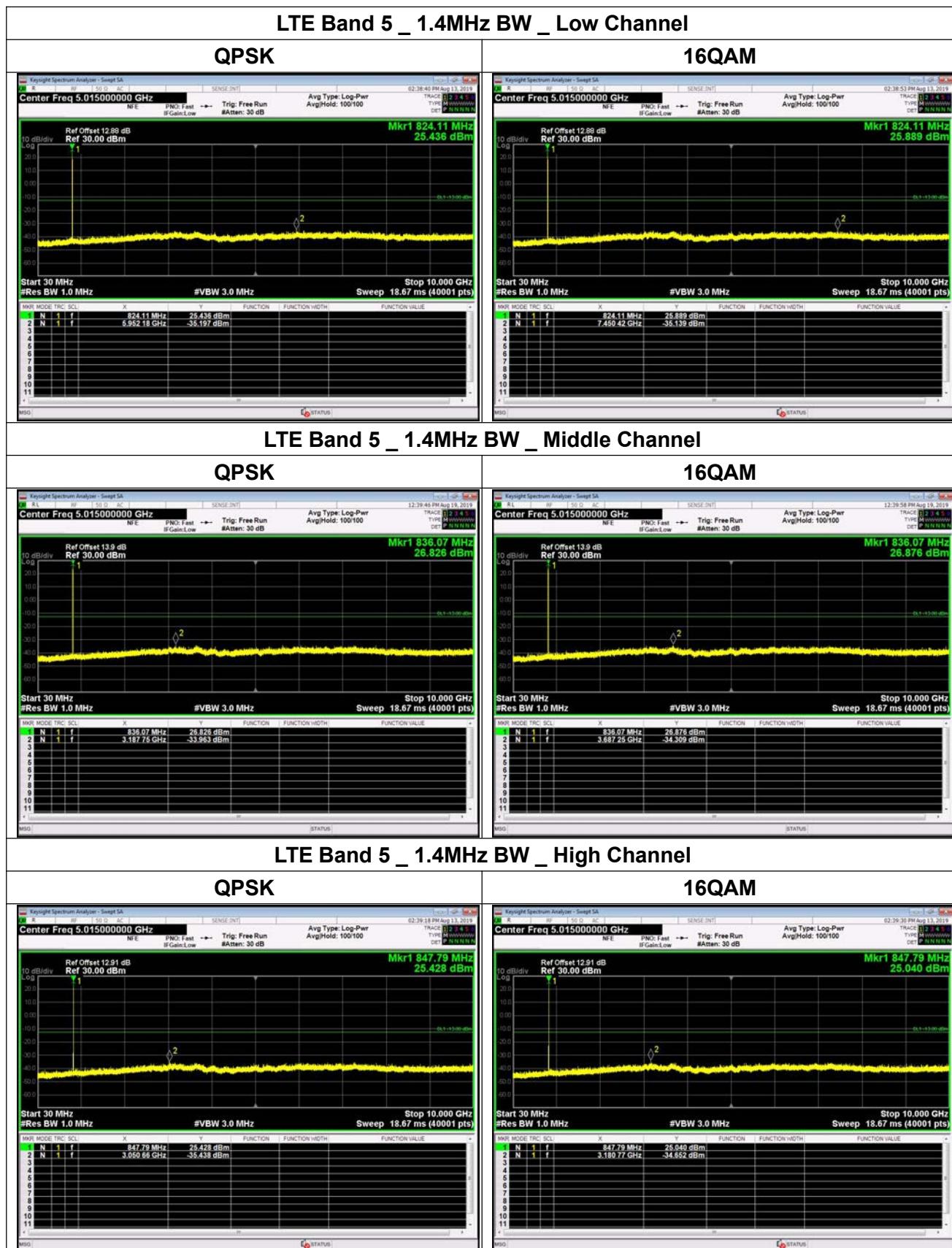


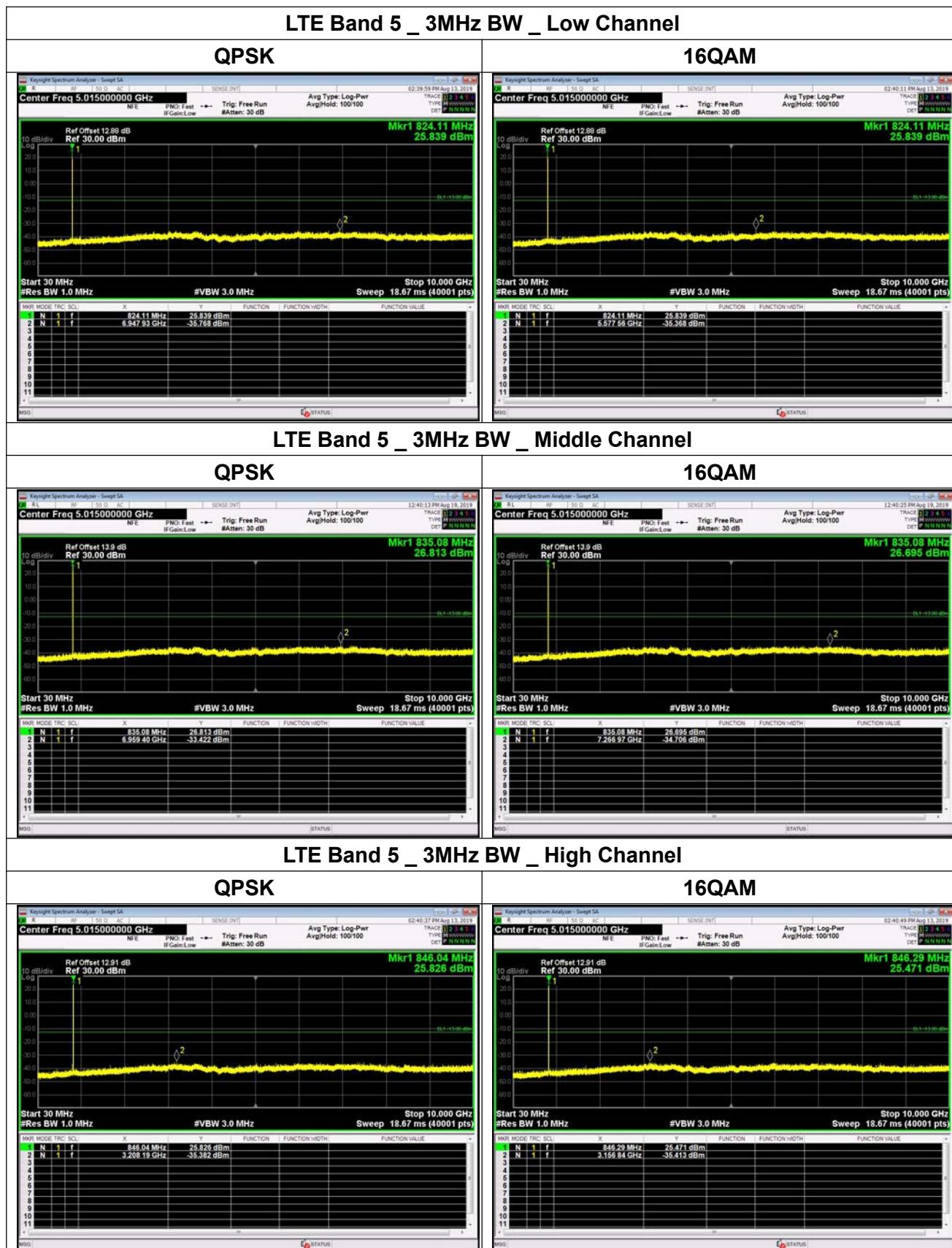


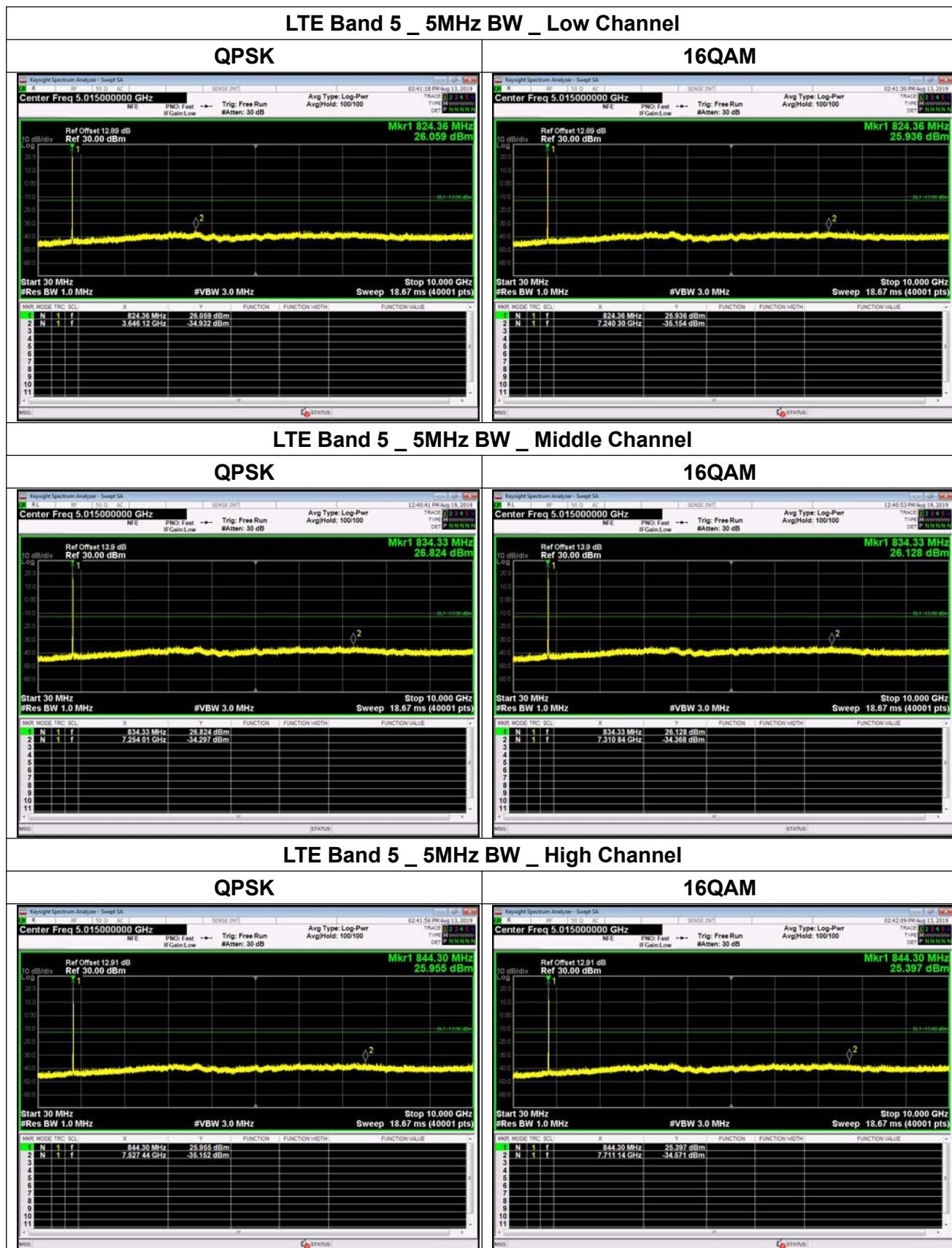


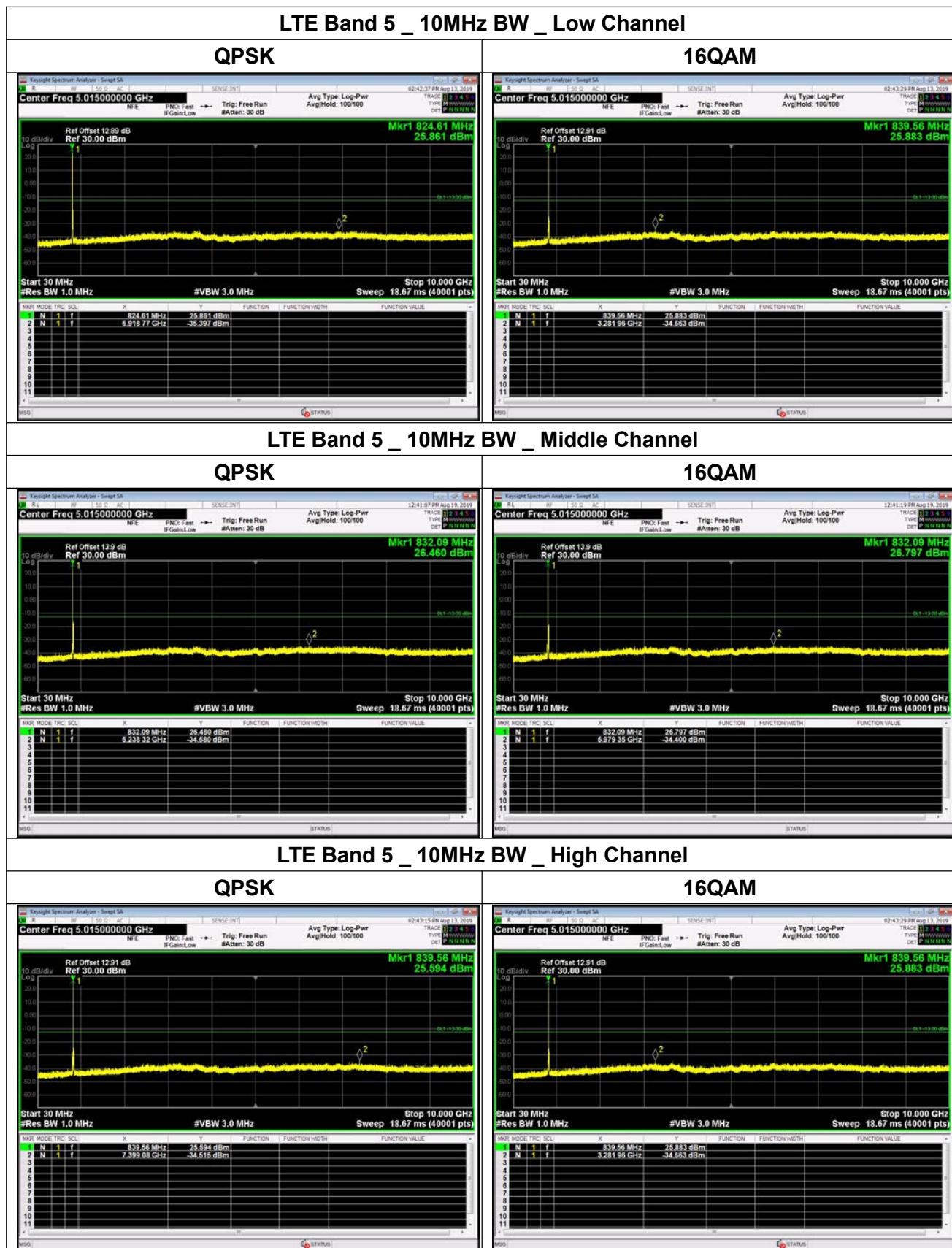


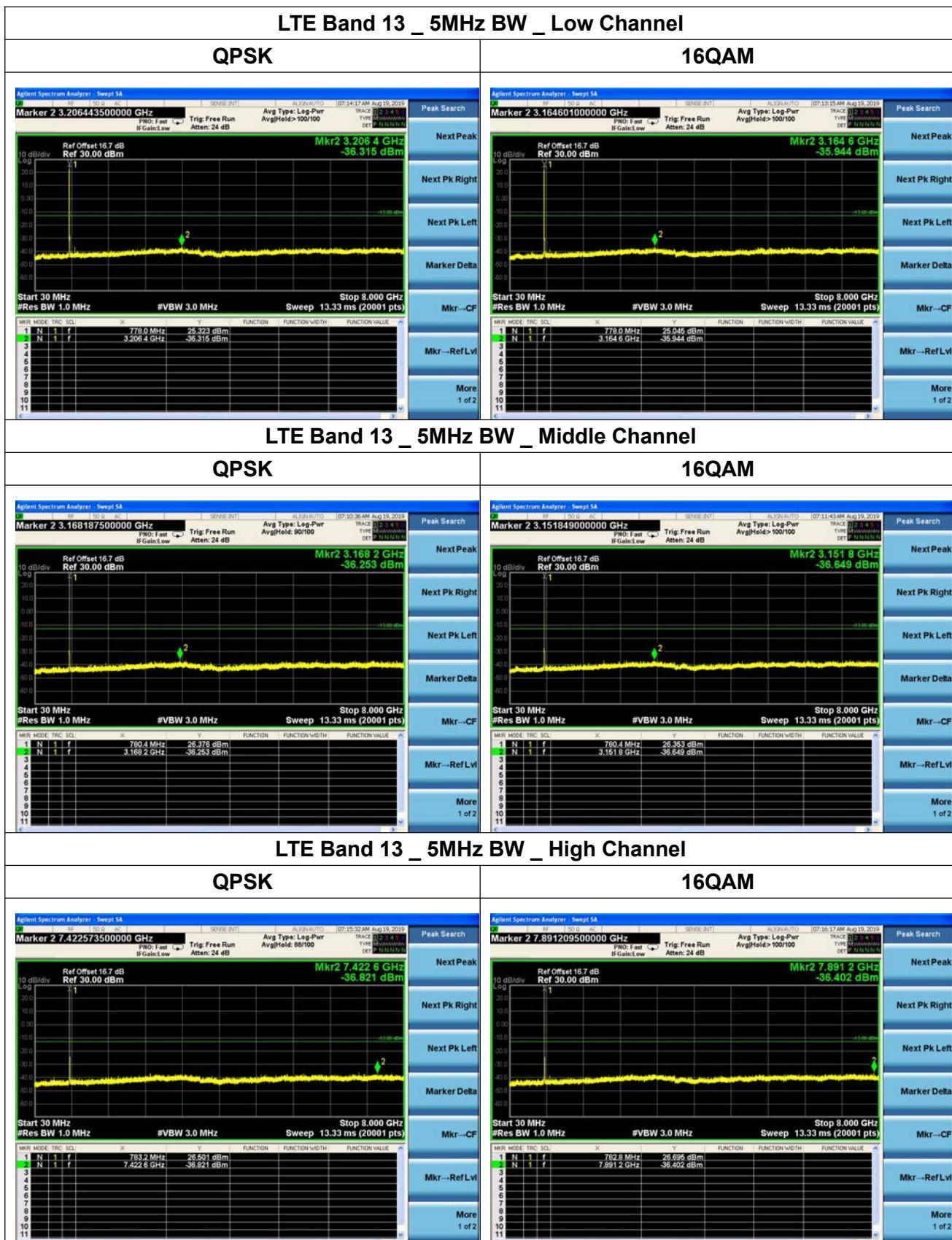


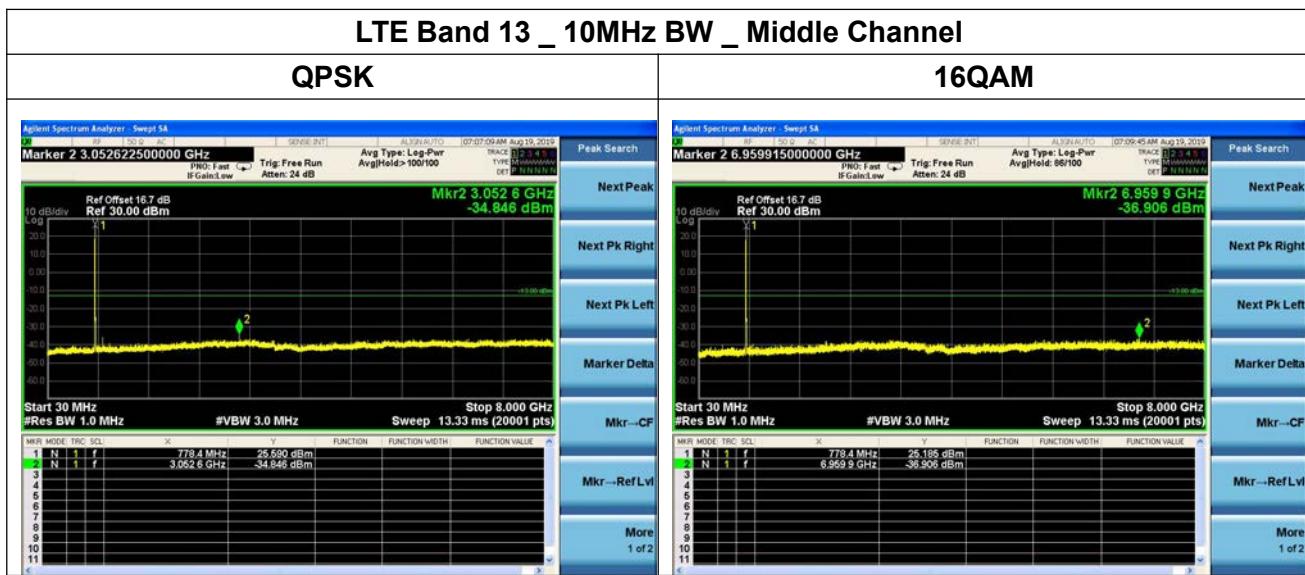














## 2.6. Band Edge

### 2.6.1. Requirement

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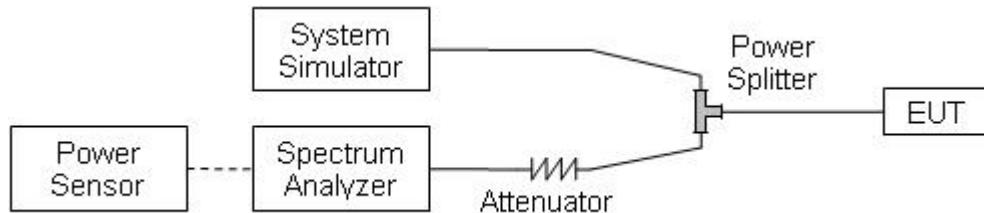
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## 2.6.2. Test Description

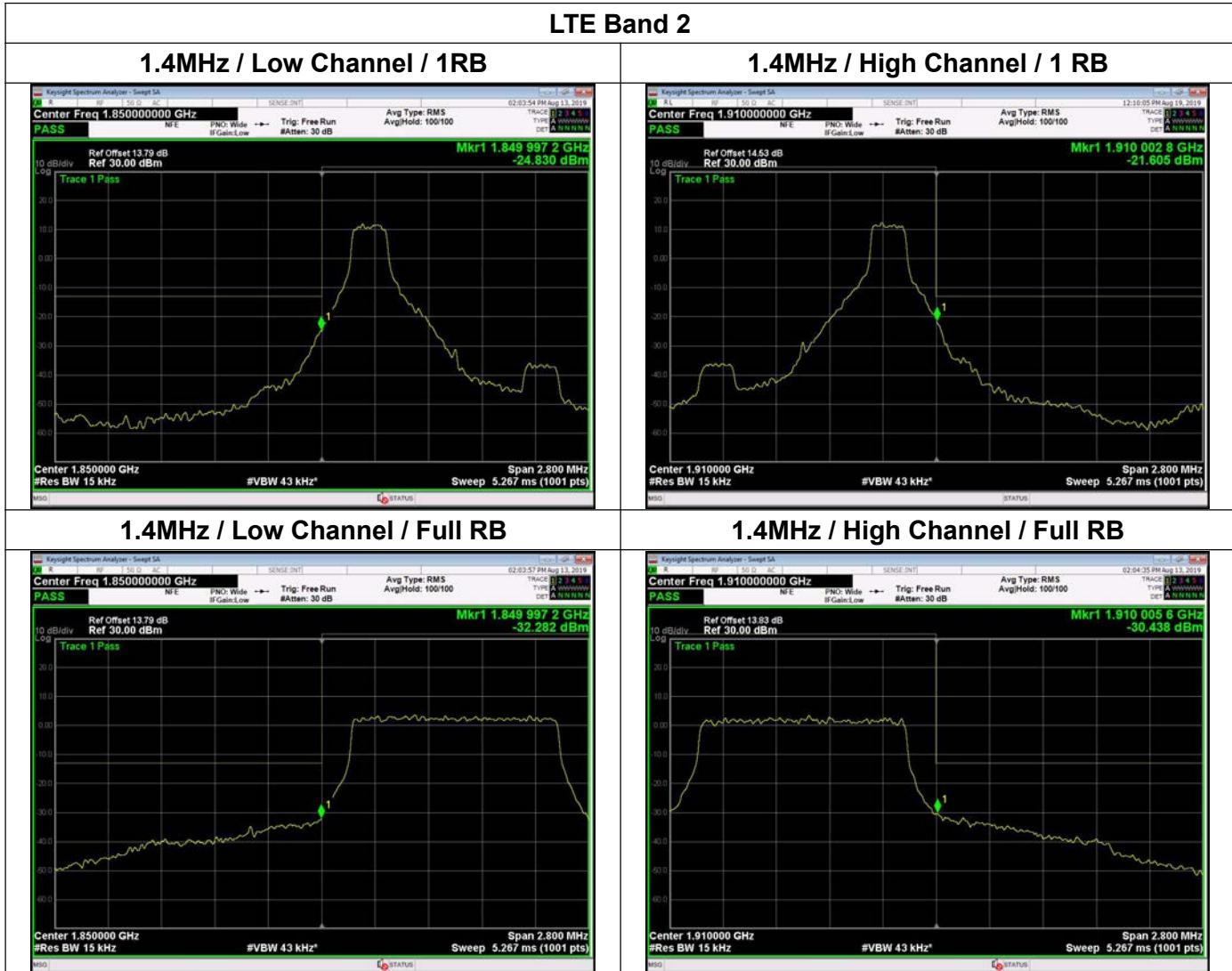


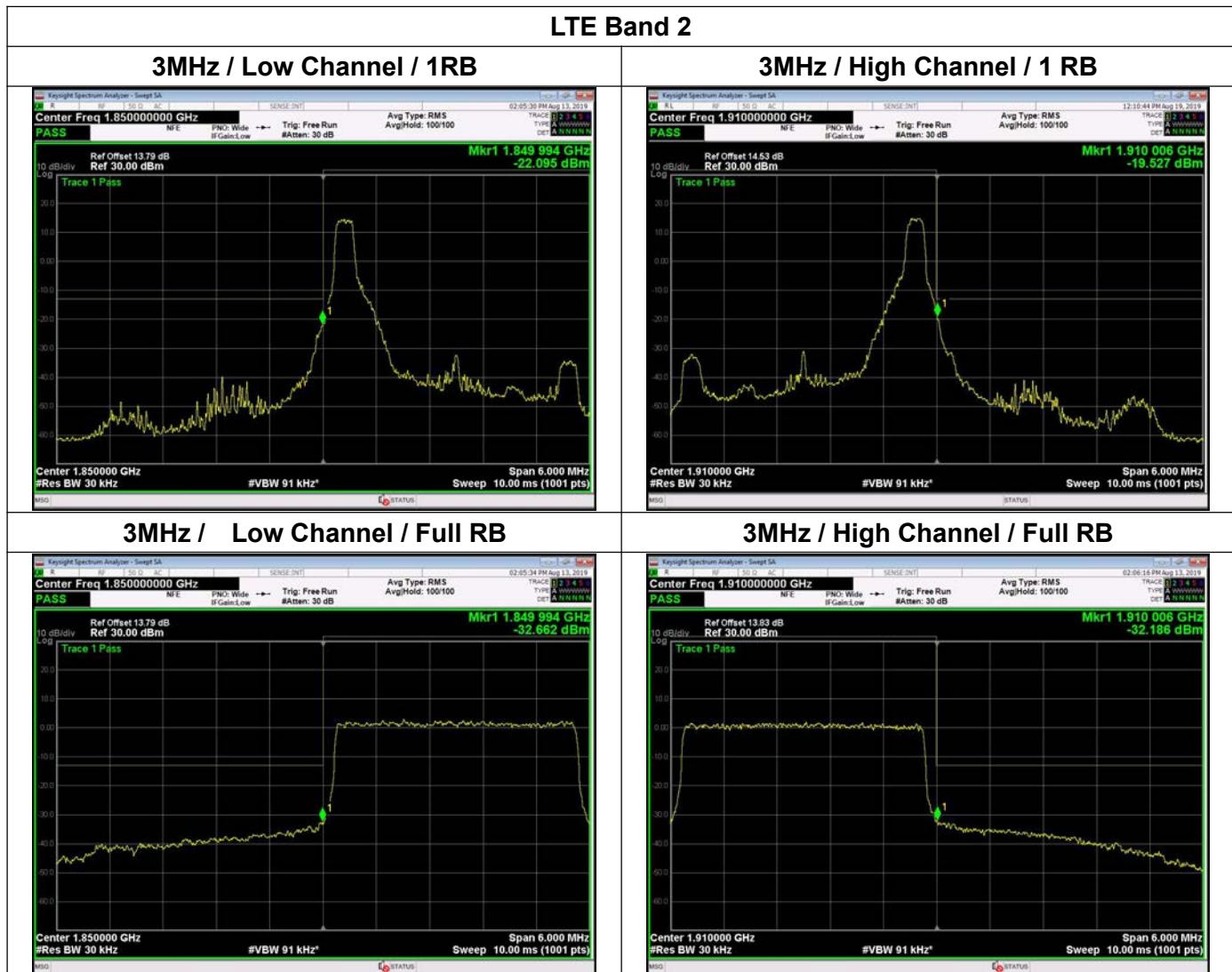
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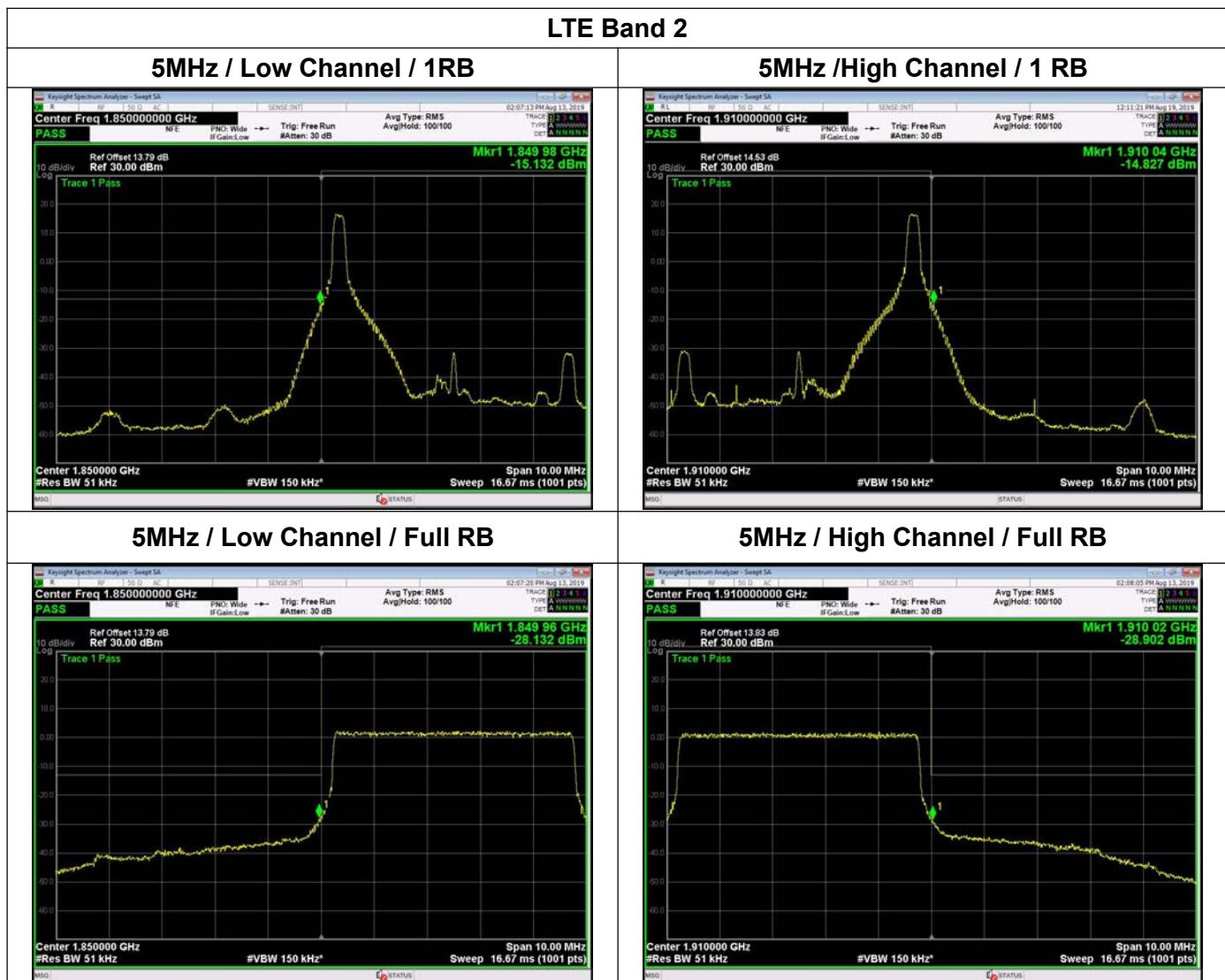
## 2.6.3. Test procedure

KDB 971168 D01v03r01 Section 6.0 and ANSI/TIA-603-E-2016.

## 2.6.4. Test Result







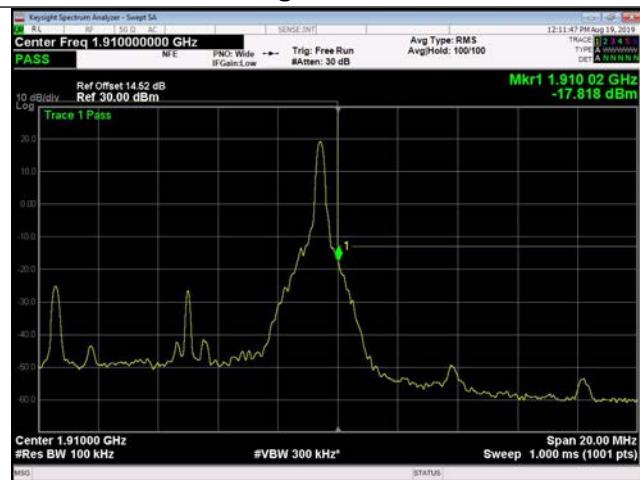


## LTE Band 2

## 10MHz / Low Channel / 1RB



## 10MHz / High Channel / 1 RB



## 10MHz / Low Channel / Full RB



## 10MHz / High Channel / Full RB

