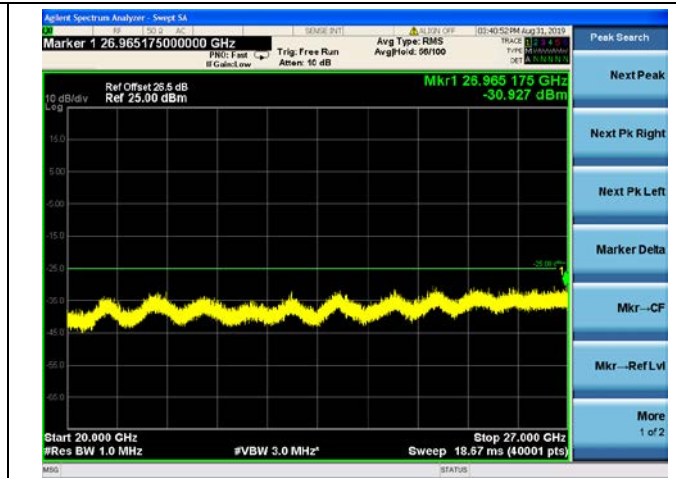
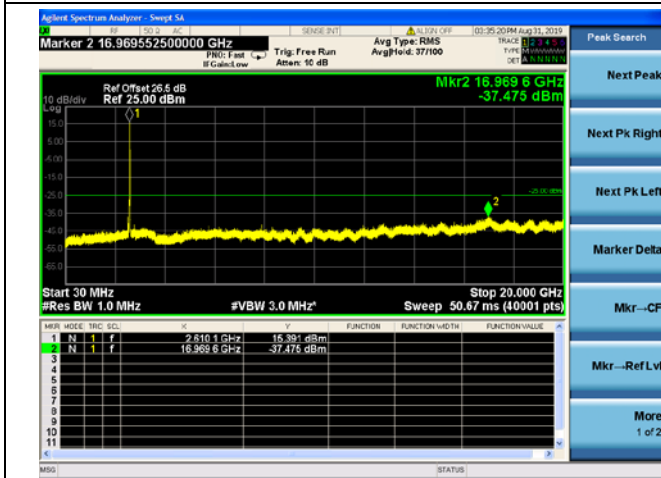
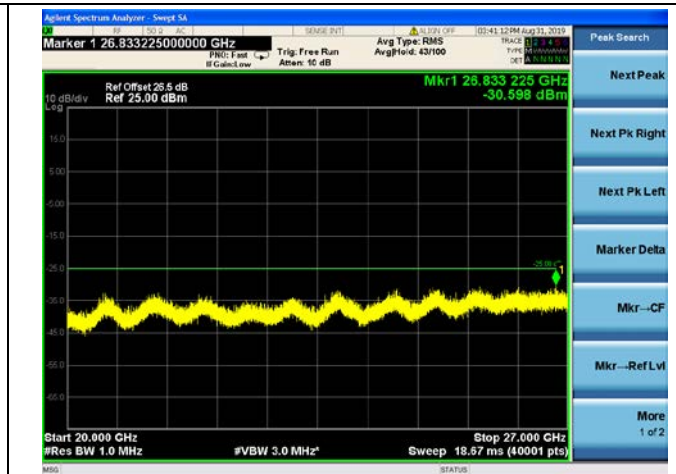
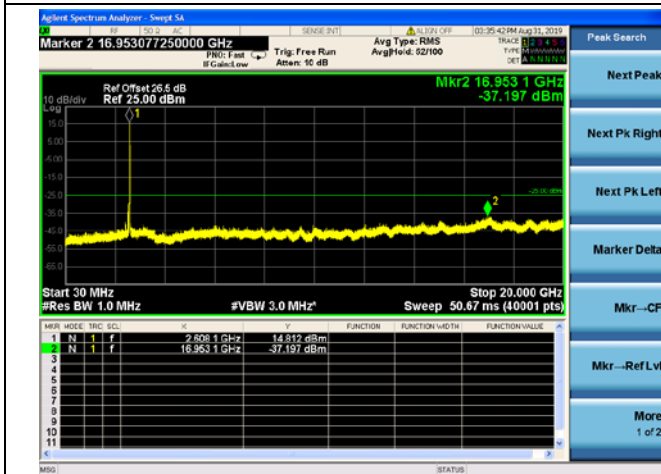




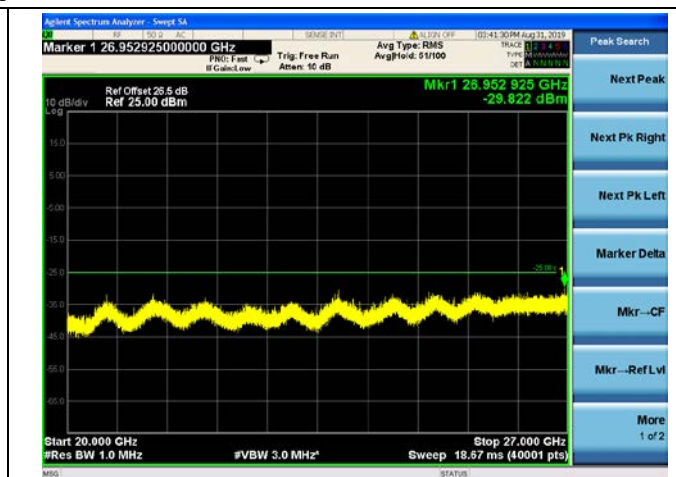
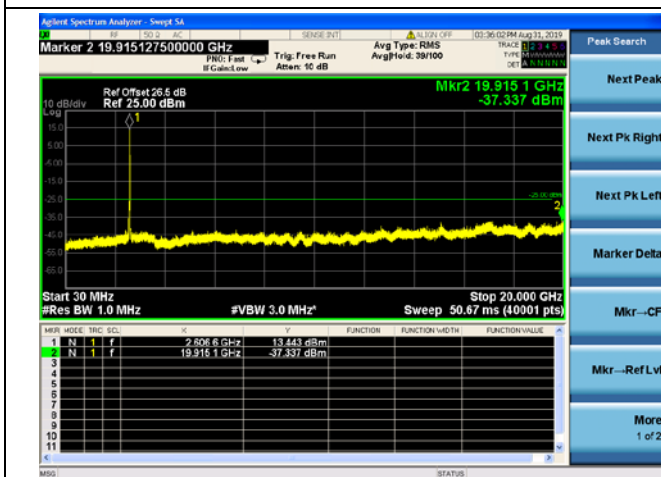
15MHz/QPSK/Mid CH



15MHz/16QAM/Mid CH

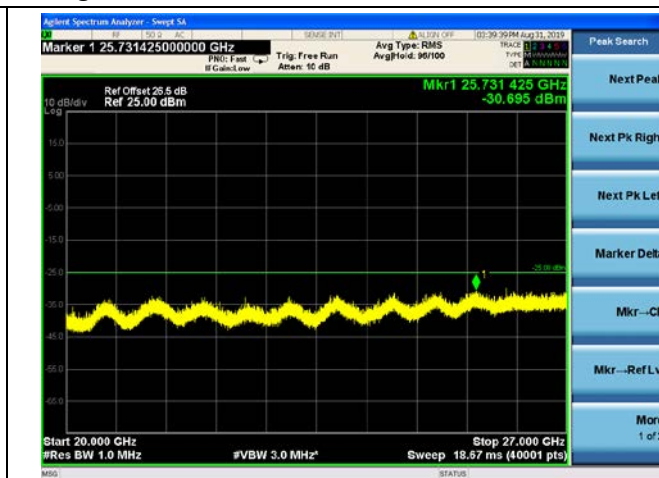
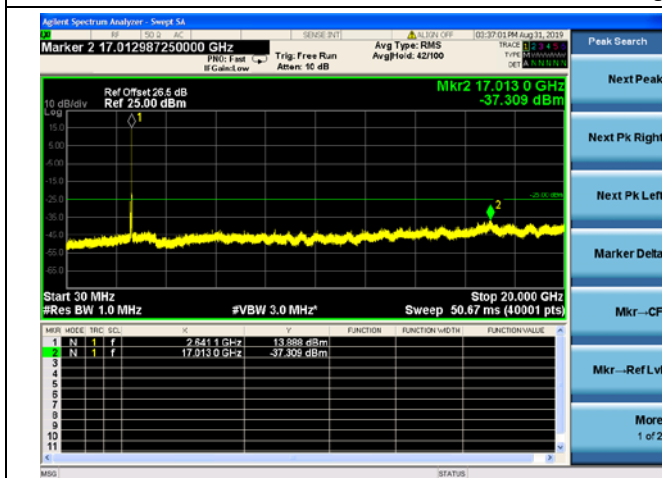


15MHz/64QAM/Mid CH

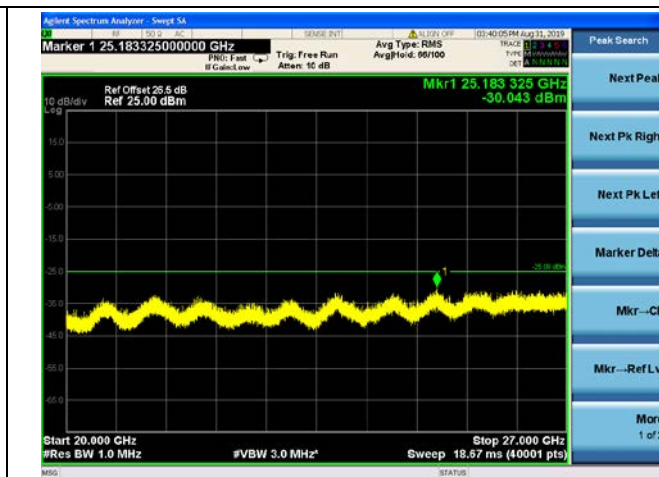
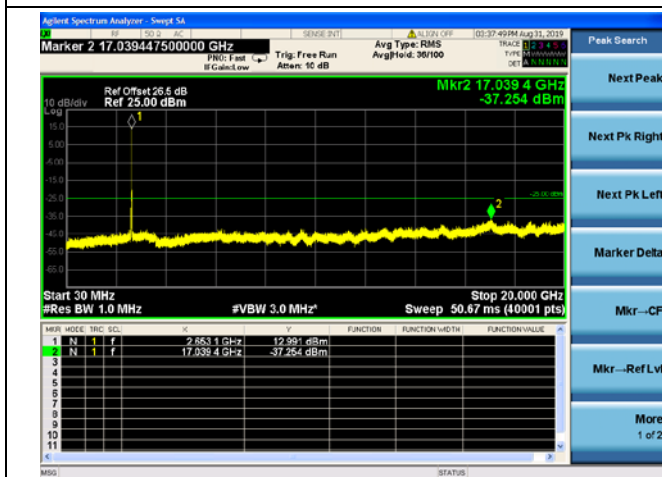




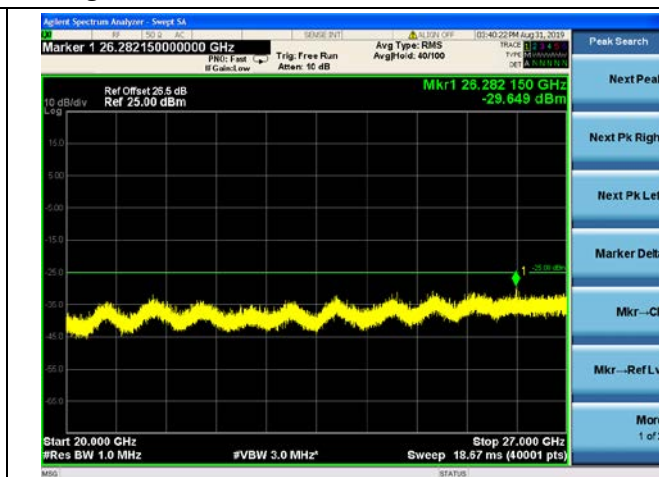
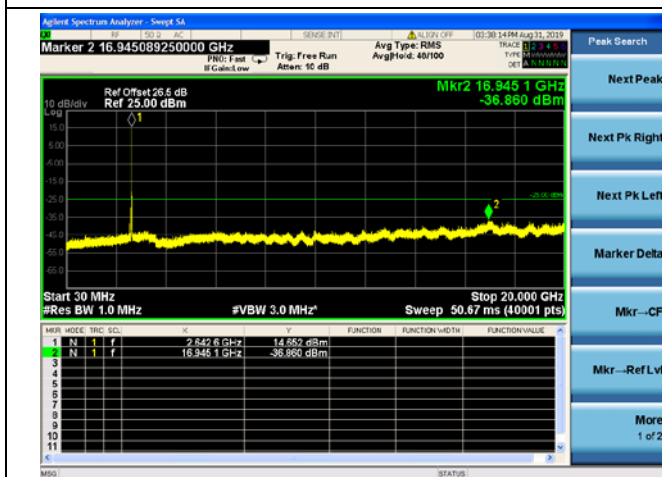
15MHz/QPSK/High CH



15MHz/16QAM/High CH

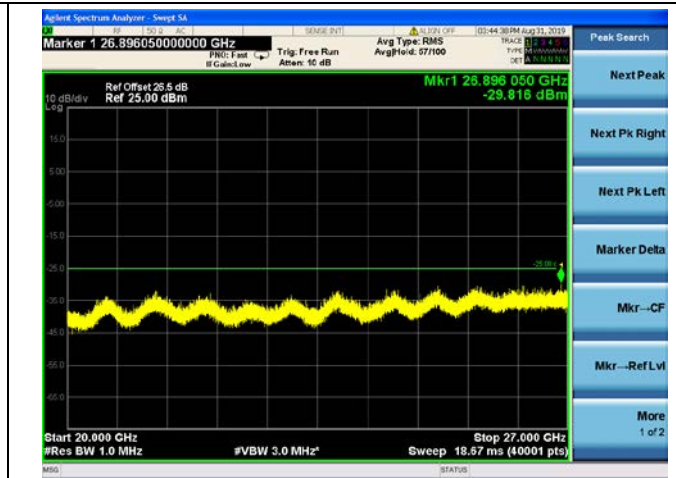
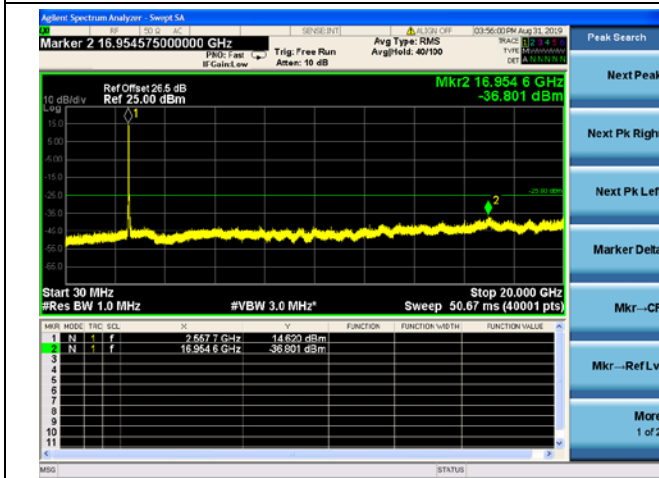


15MHz/64QAM/High CH

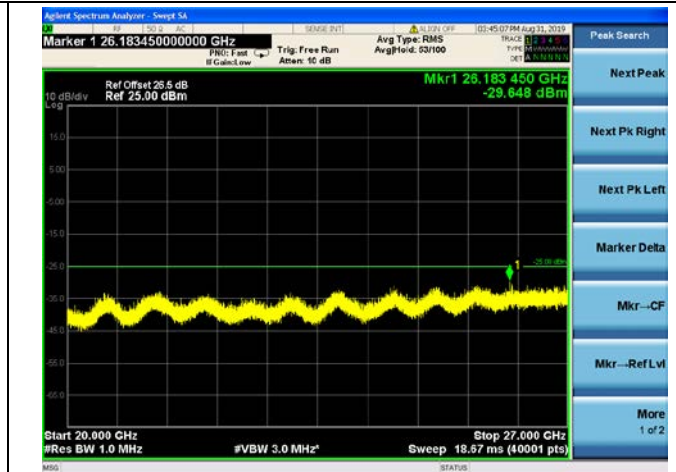
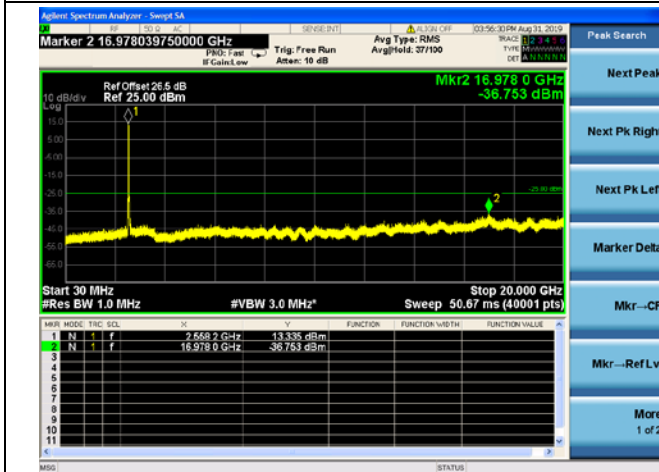




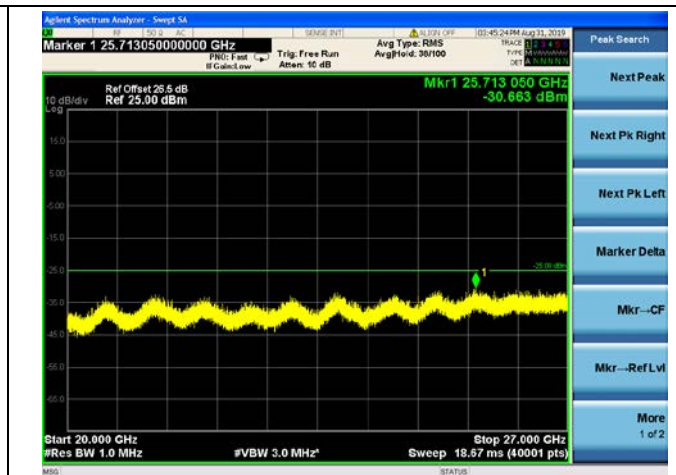
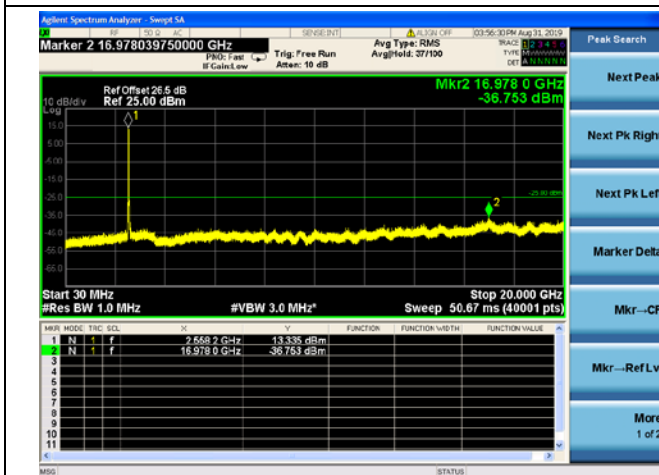
20MHz/QPSK/Low CH



20MHz/16QAM/Low CH

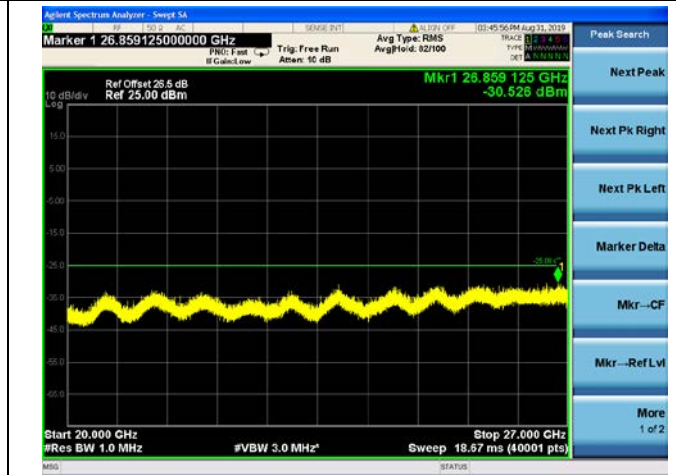
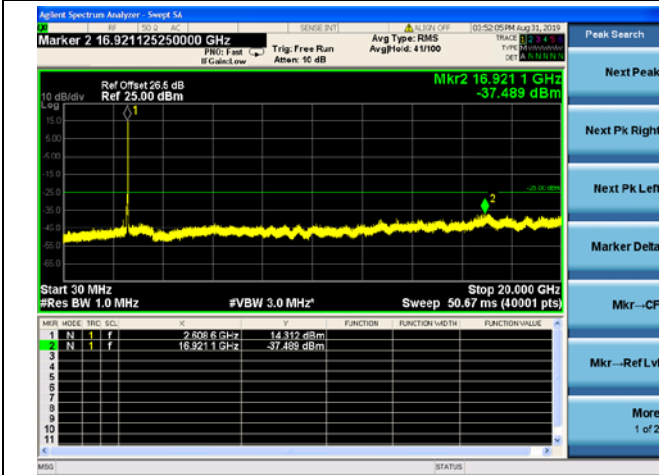


20MHz/64QAM/Low CH

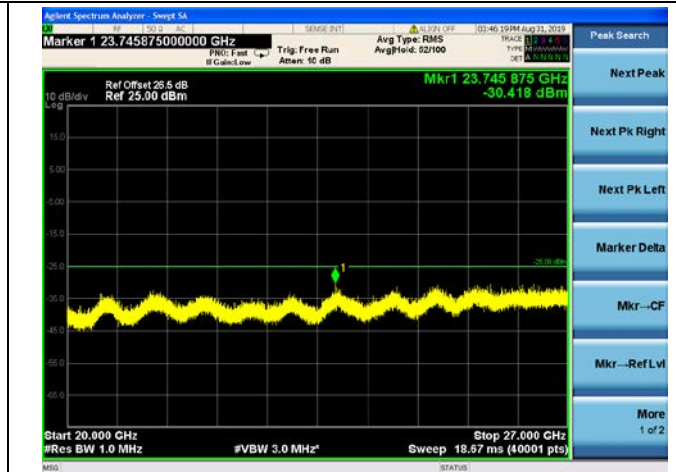
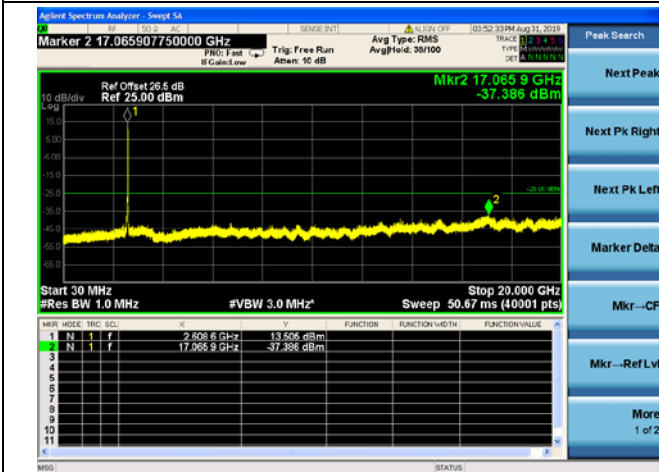




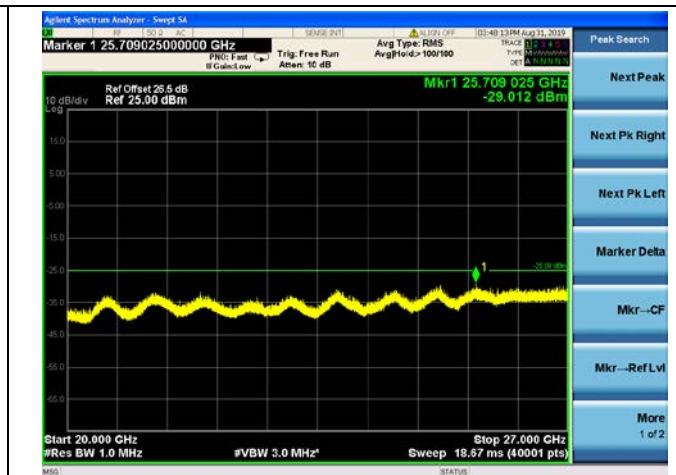
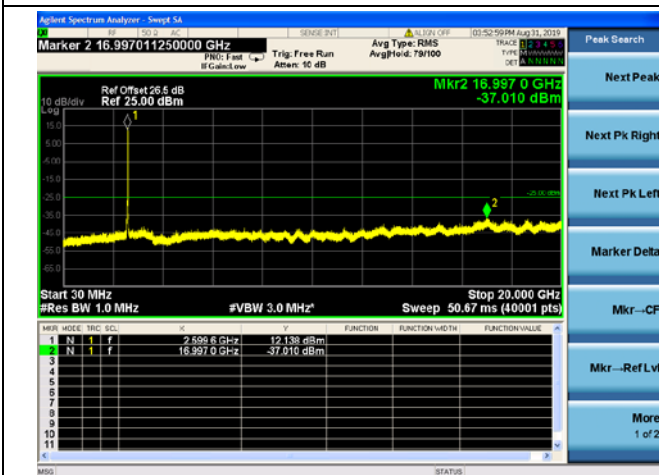
20MHz/QPSK/Mid CH



20MHz/16QAM/Mid CH

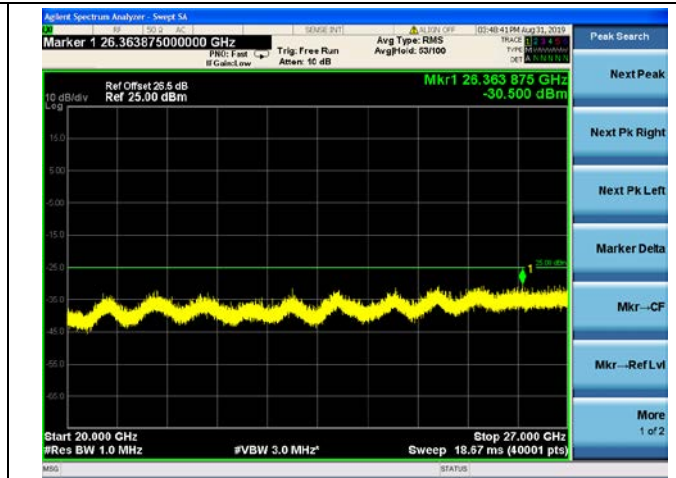
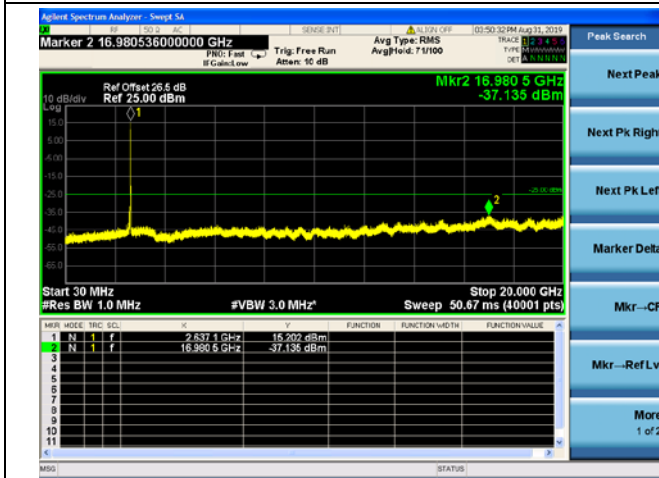


20MHz/64QAM/Mid CH

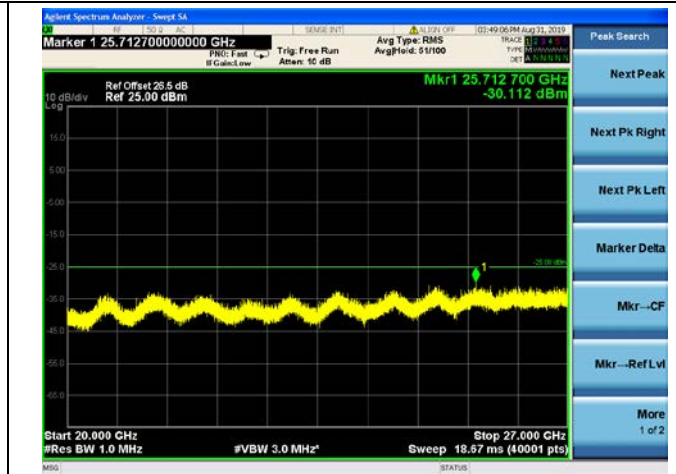
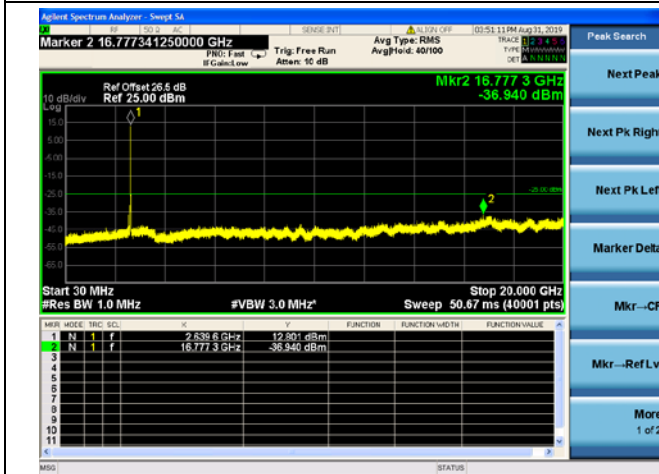




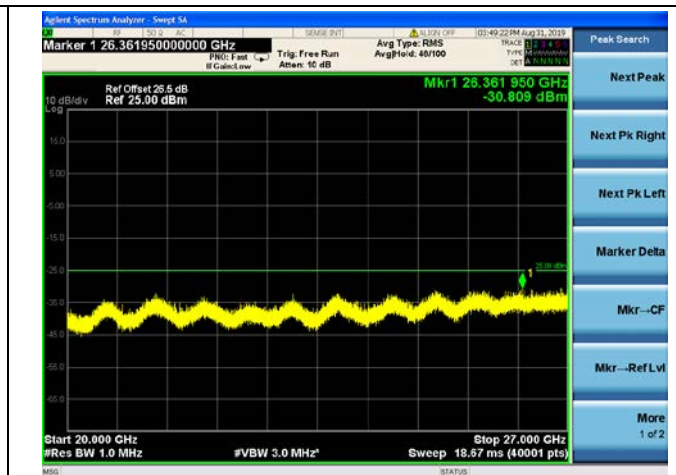
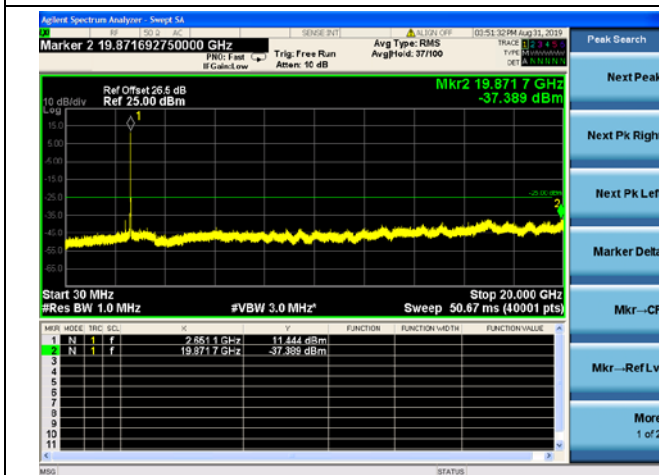
20MHz/QPSK/High CH



20MHz/16QAM/High CH



20MHz/64QAM/High CH





2.6. Band Edge

2.6.1. 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(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 1710–1755MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log_{10}(P)$ dB.

According to FCC section 27.53(m) (4), 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.

```

graph LR
    SS[System Simulator] --> A1[Attenuator 1]
    SA[Spectrum Analyzer] --> A2[Attenuator 2]
    A1 --> PS[Power Splitter]
    A2 --> PS
    PS --> EUT[EUT]
    PSENS[Power Sensor] -.- SA
  
```

2.6.3. Test procedure

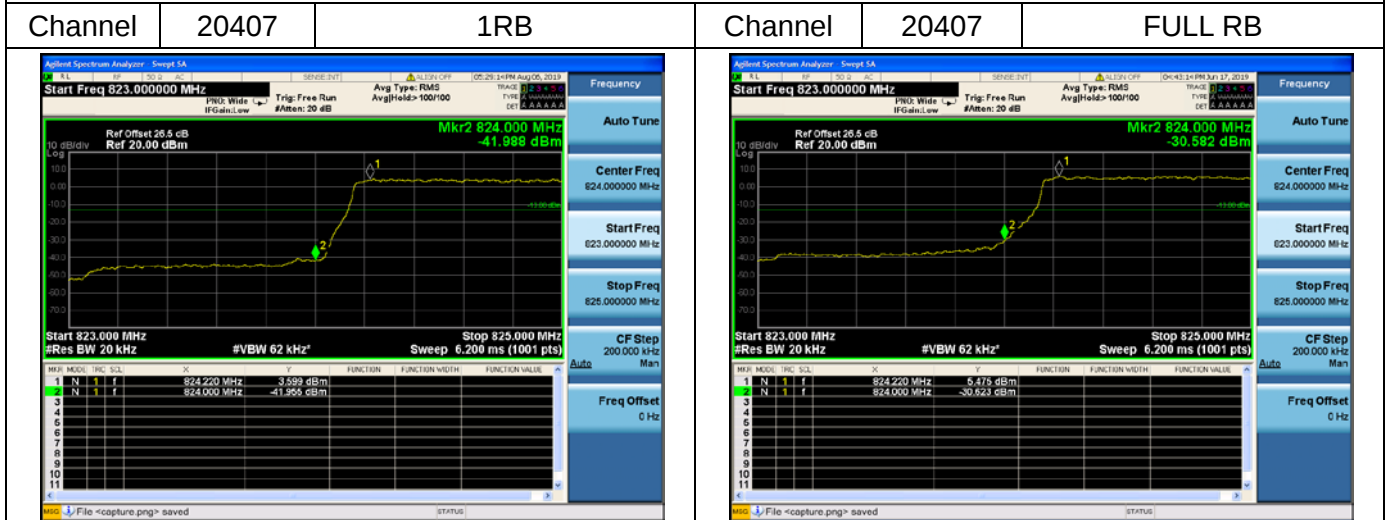
2.6.4. Test Result

MORLAB

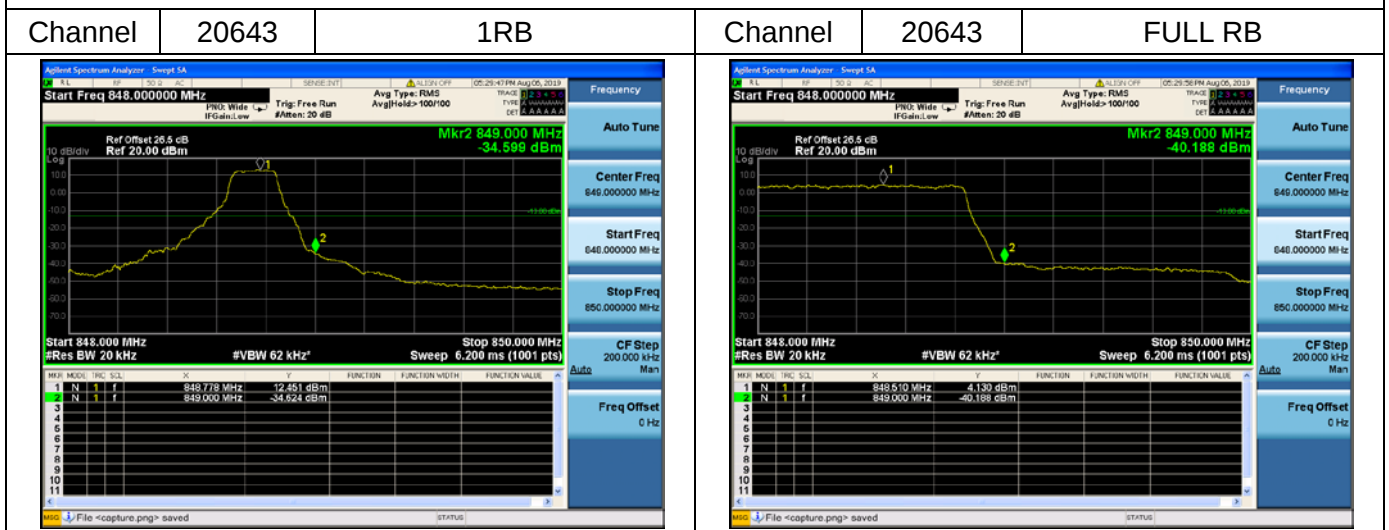


LTE Band 5

Channel Bandwidth: 1.4MHz



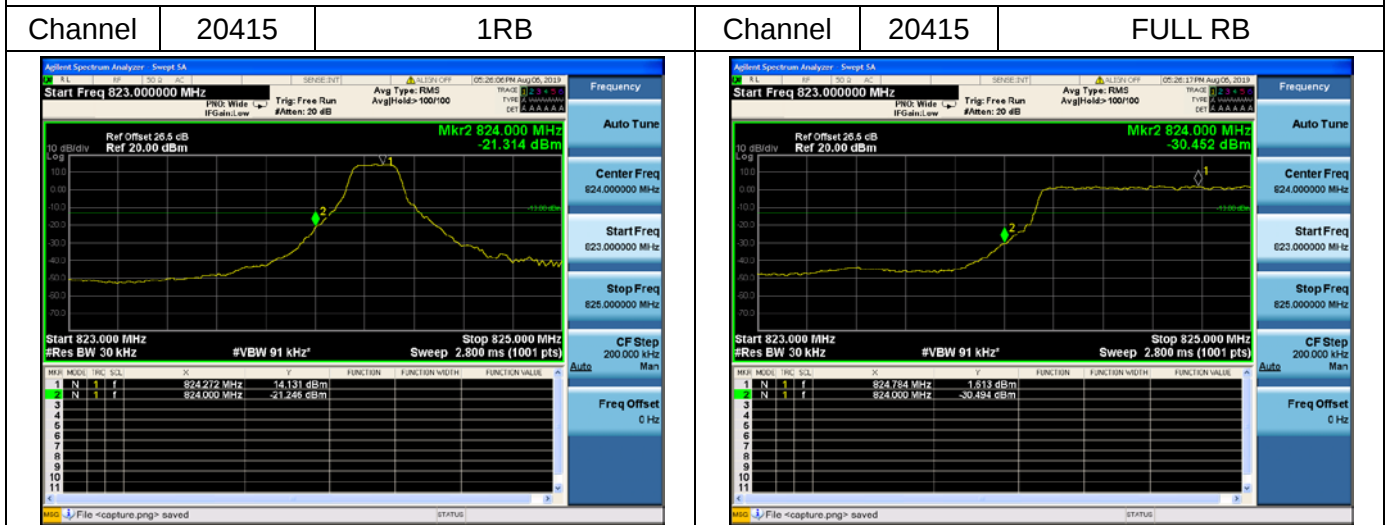
Channel Bandwidth: 1.4MHz



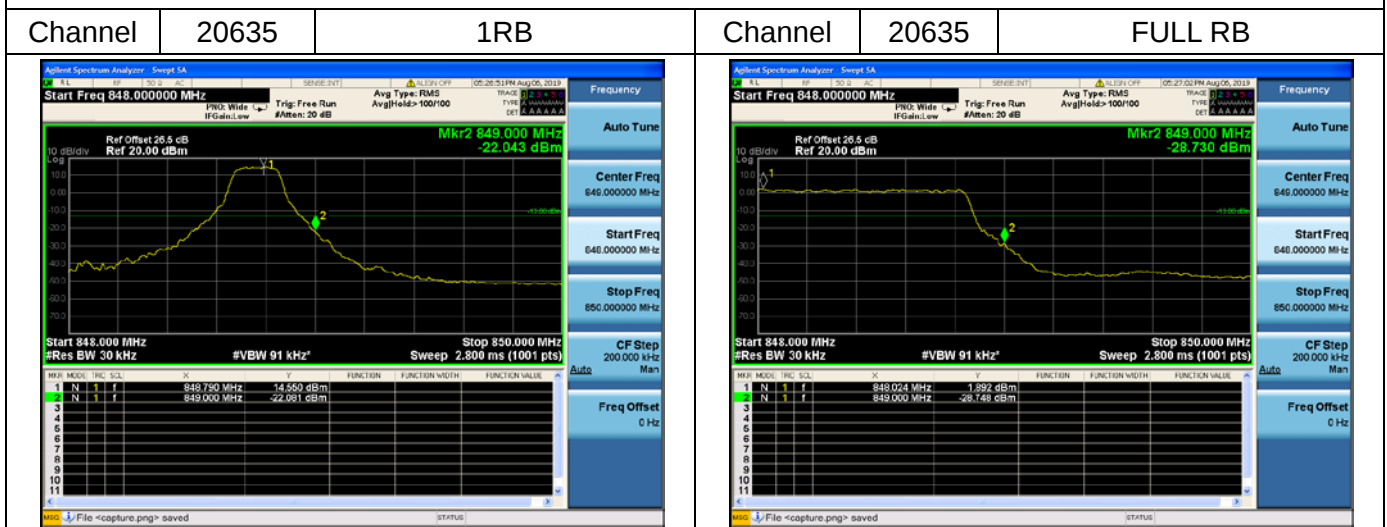


LTE Band 5

Channel Bandwidth: 3MHz



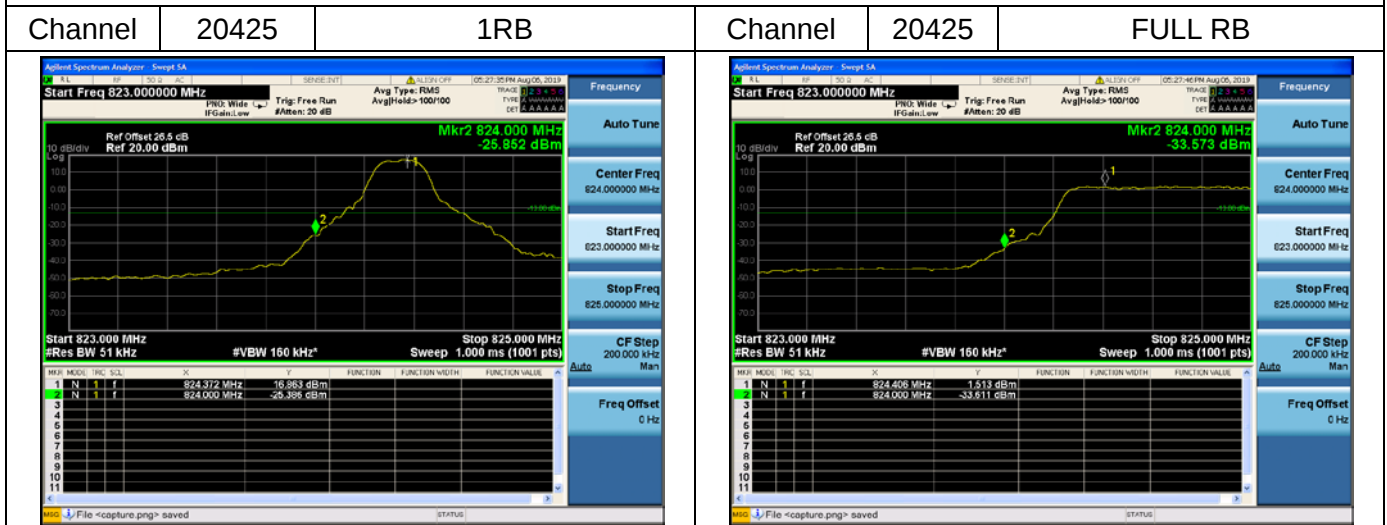
Channel Bandwidth: 3MHz



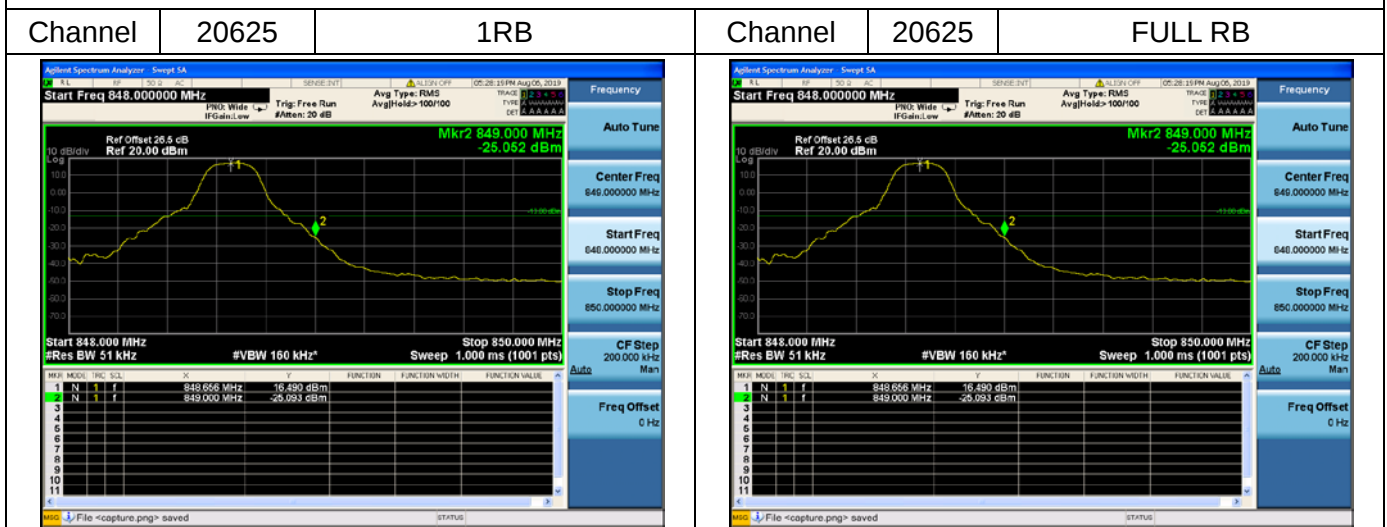


LTE Band 5

Channel Bandwidth: 5MHz



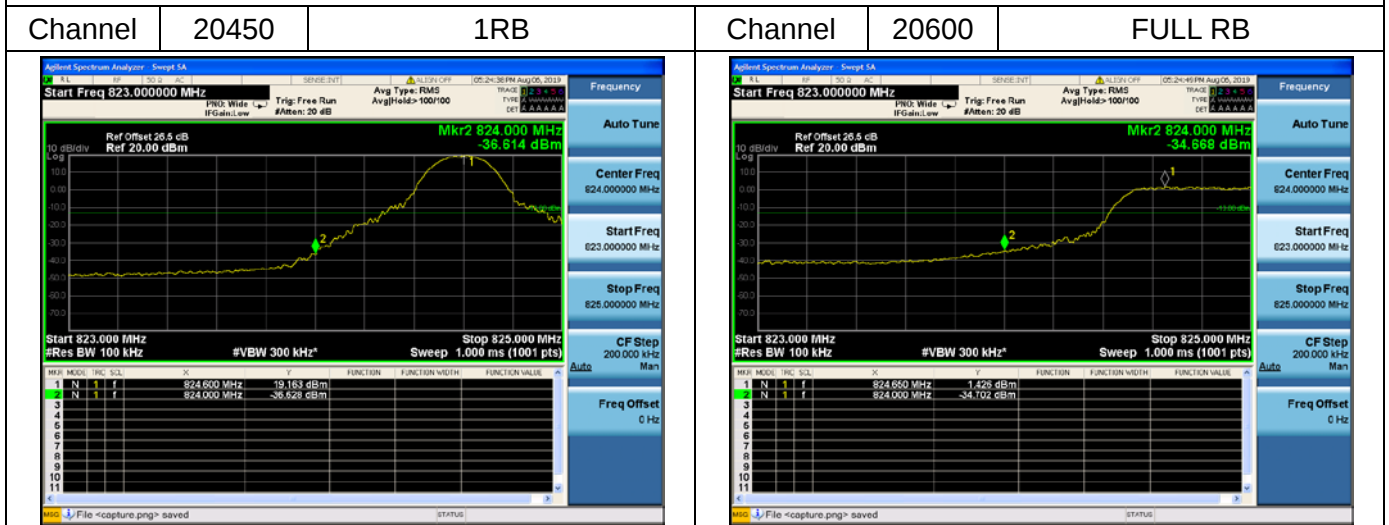
Channel Bandwidth: 5MHz



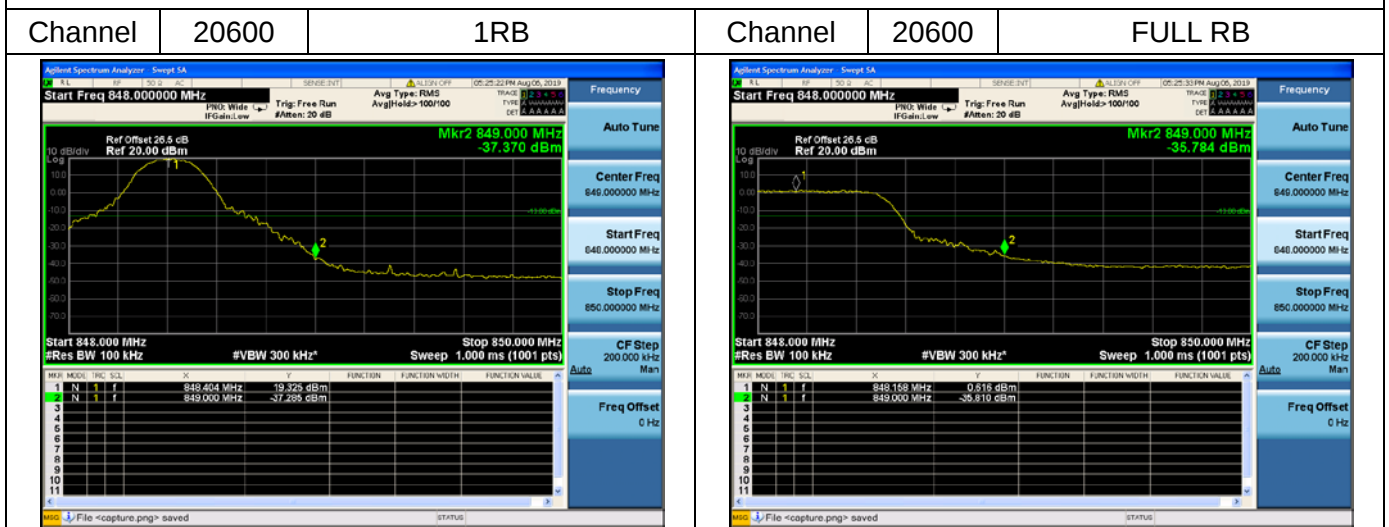


LTE Band 5

Channel Bandwidth: 10MHz



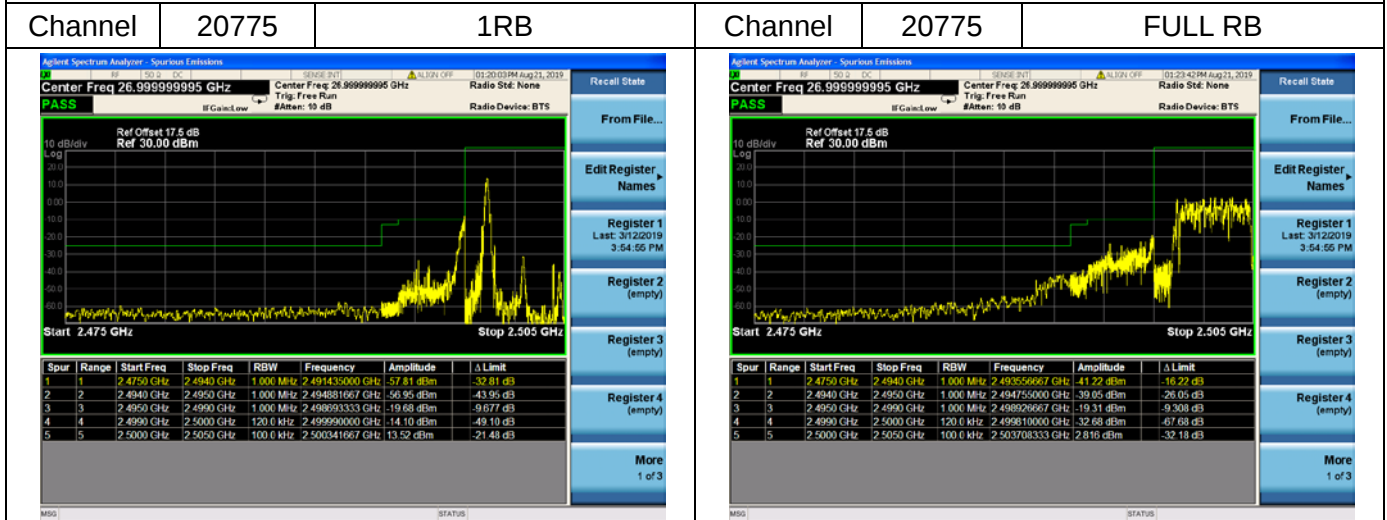
Channel Bandwidth: 10MHz



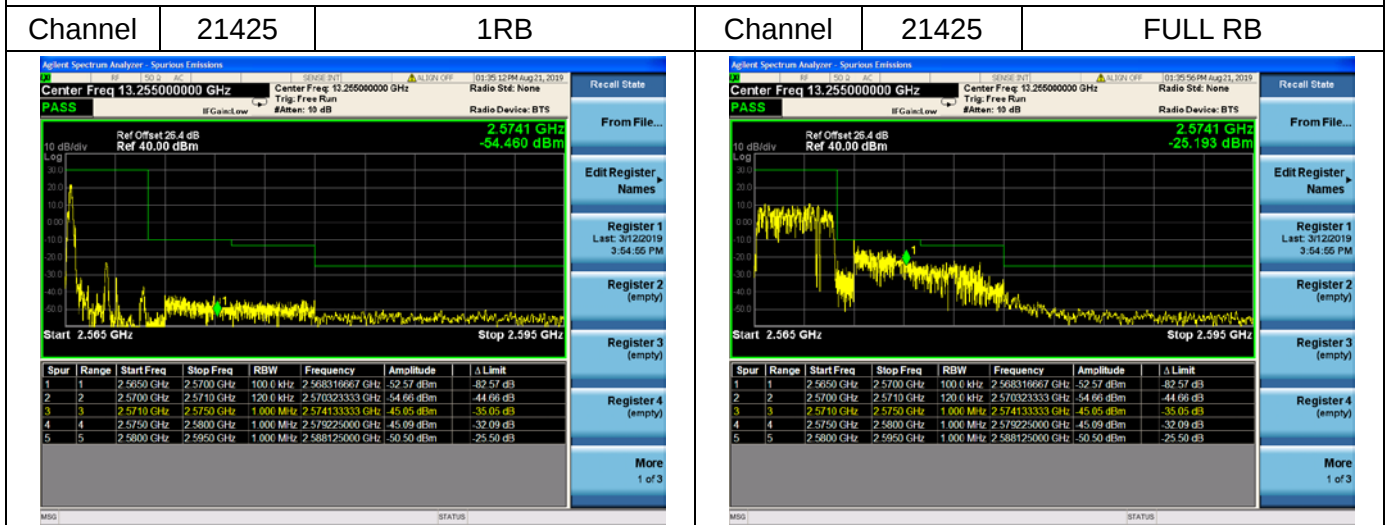


LTE Band 7

Channel Bandwidth: 5MHz



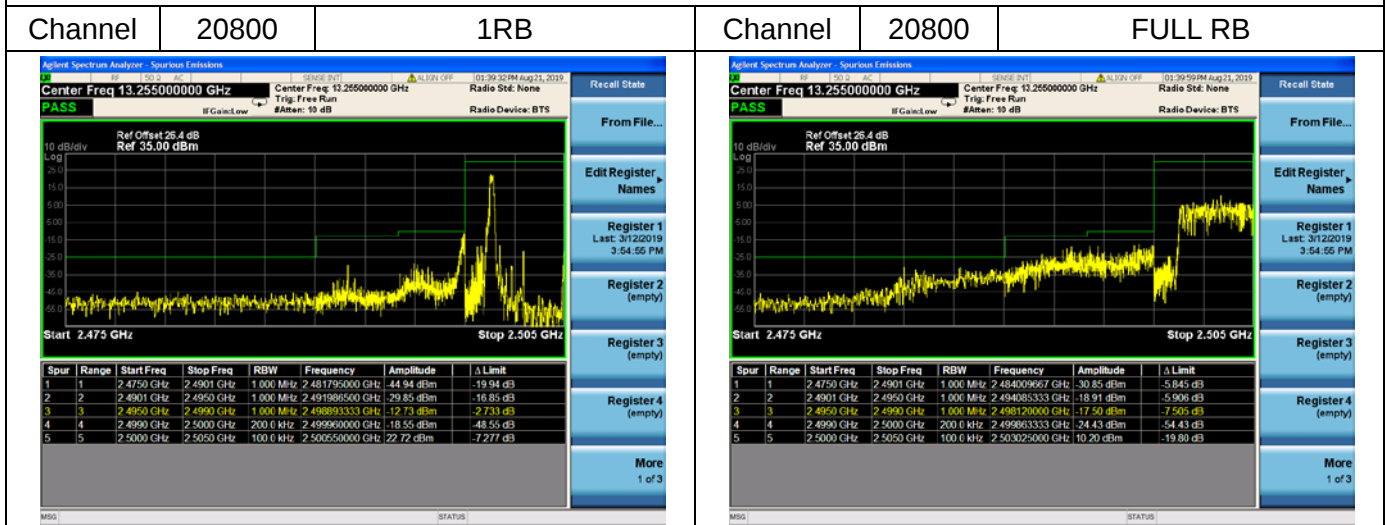
Channel Bandwidth: 5MHz



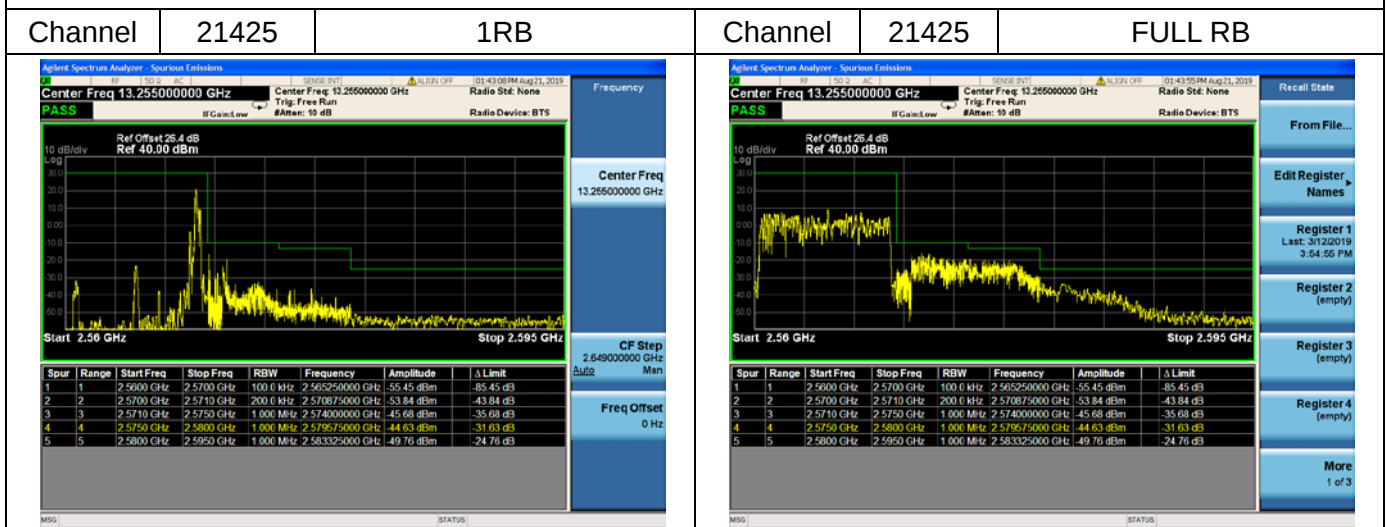


LTE Band 7

Channel Bandwidth: 10MHz



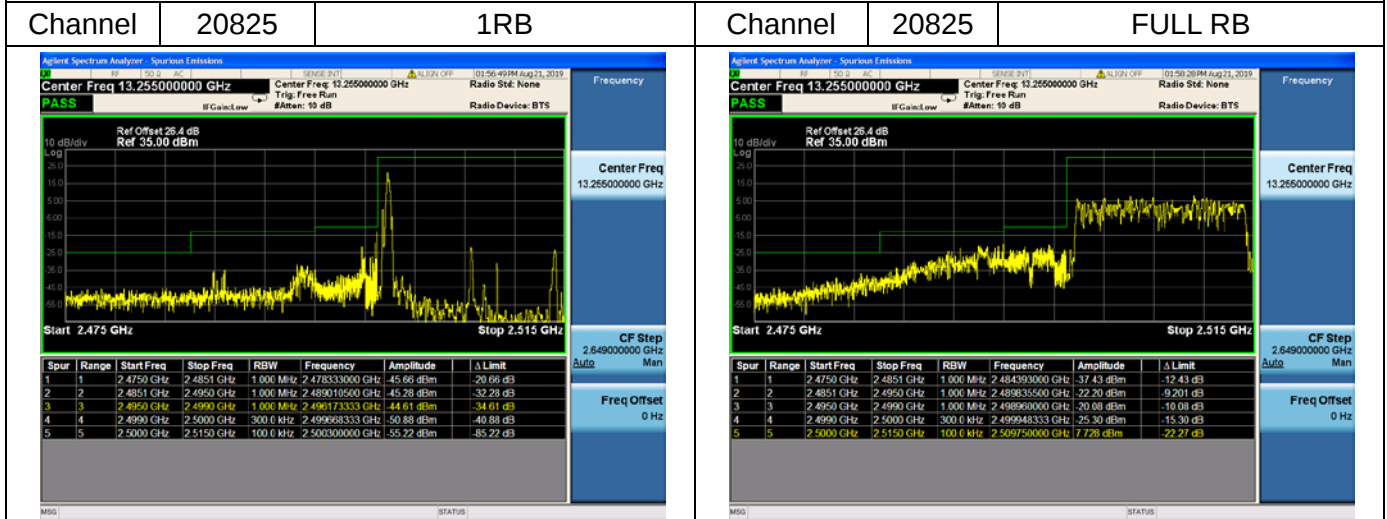
Channel Bandwidth: 10MHz



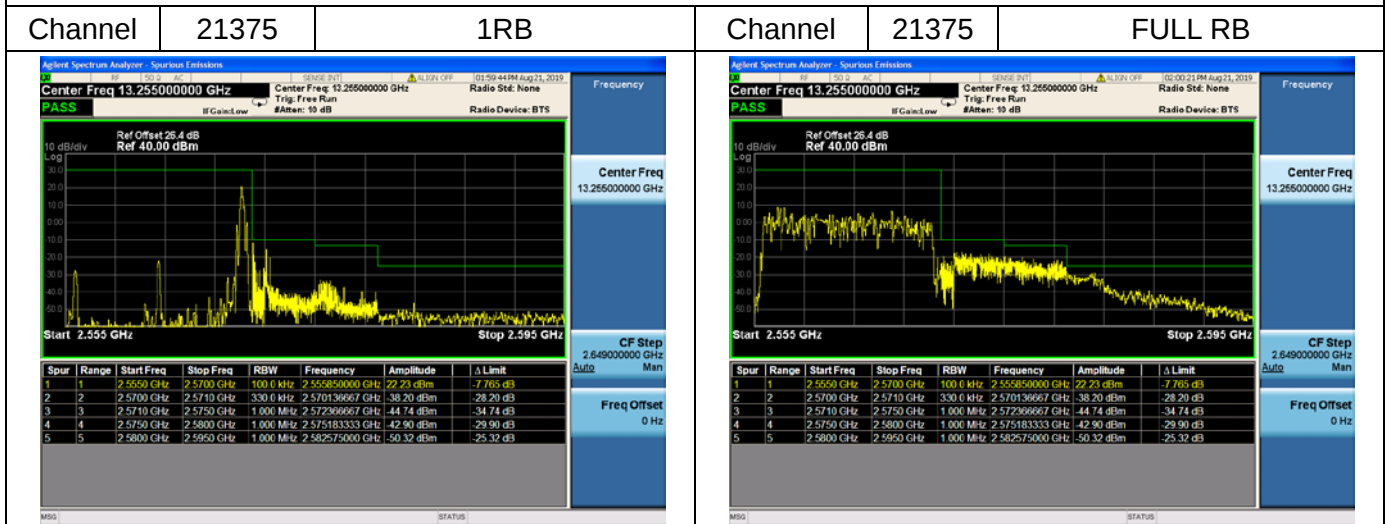


LTE Band 7

Channel Bandwidth: 15MHz



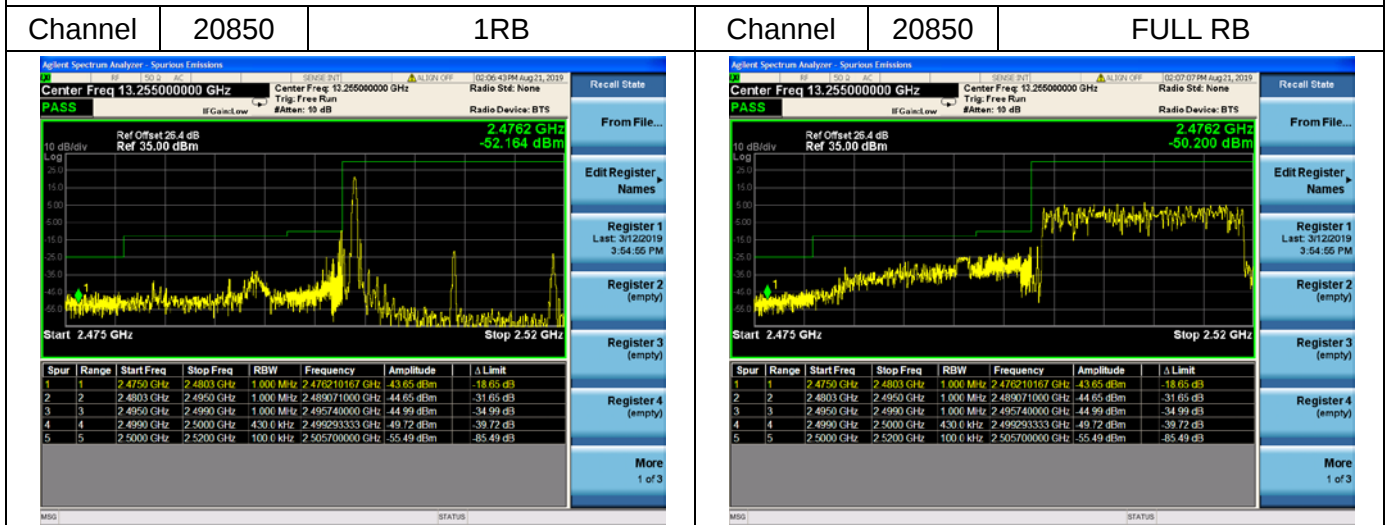
Channel Bandwidth: 15MHz



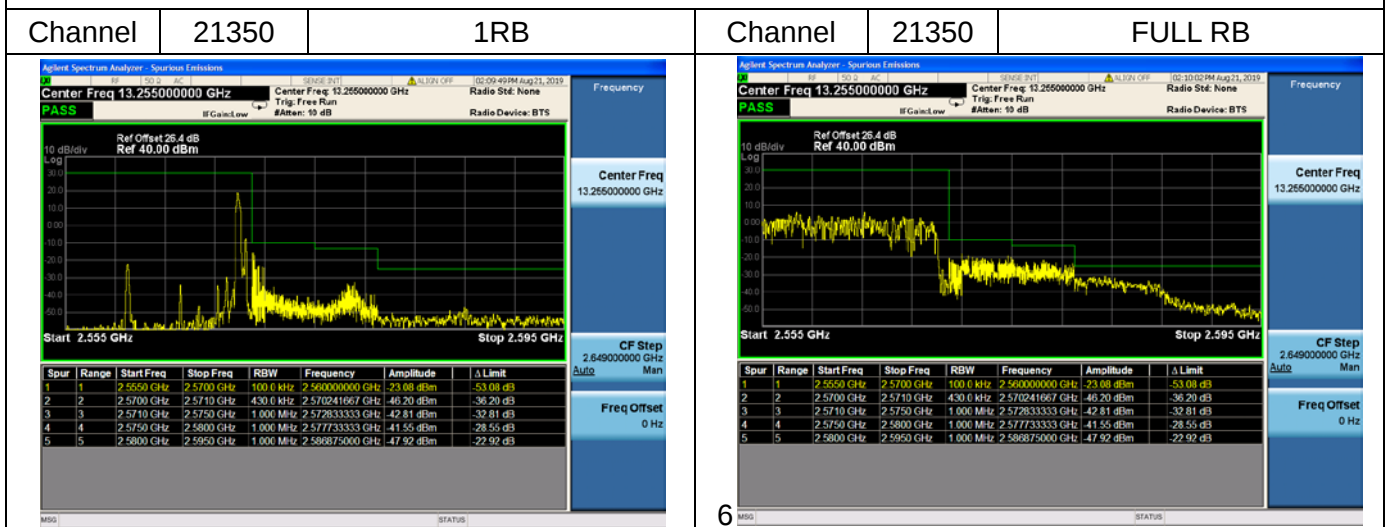


LTE Band 7

Channel Bandwidth: 20MHz



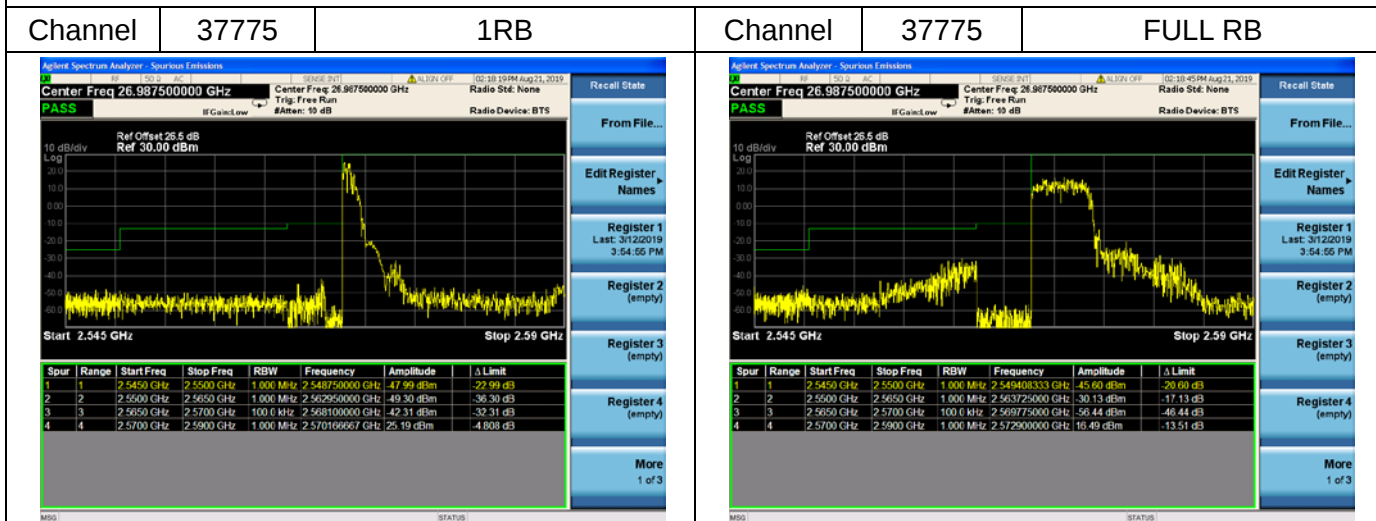
Channel Bandwidth: 20MHz



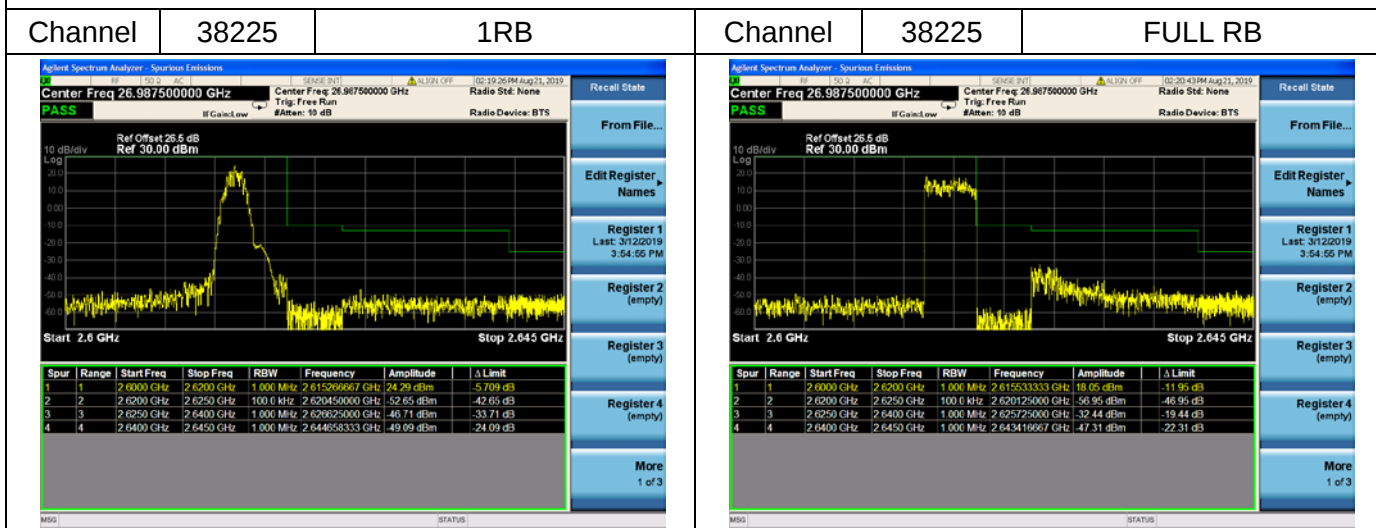


LTE Band 38

Channel Bandwidth: 5MHz



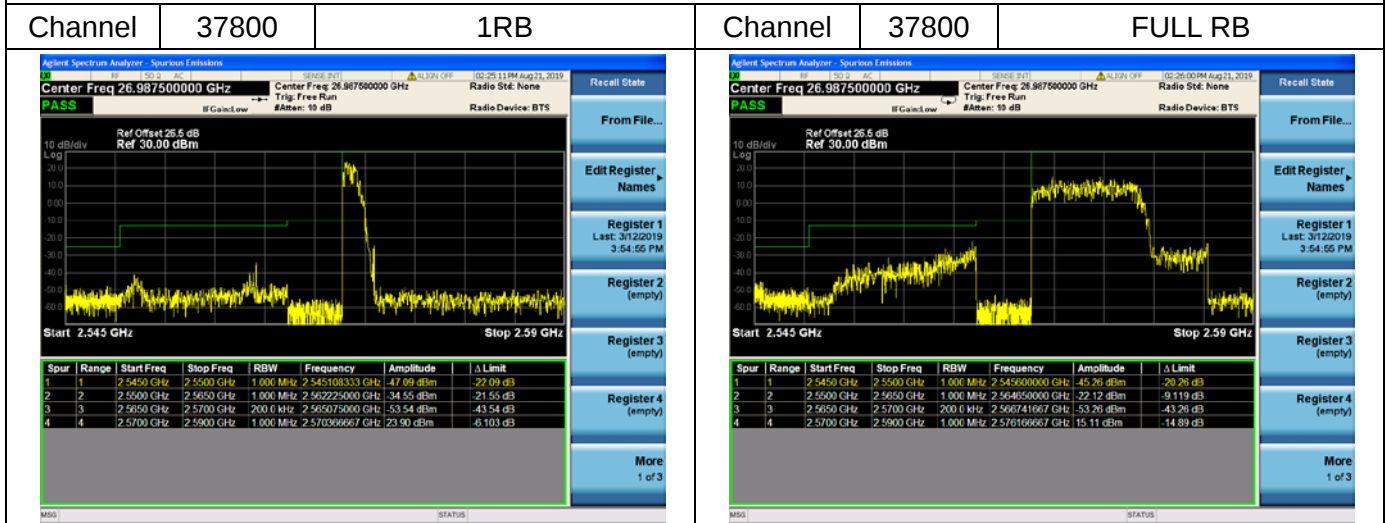
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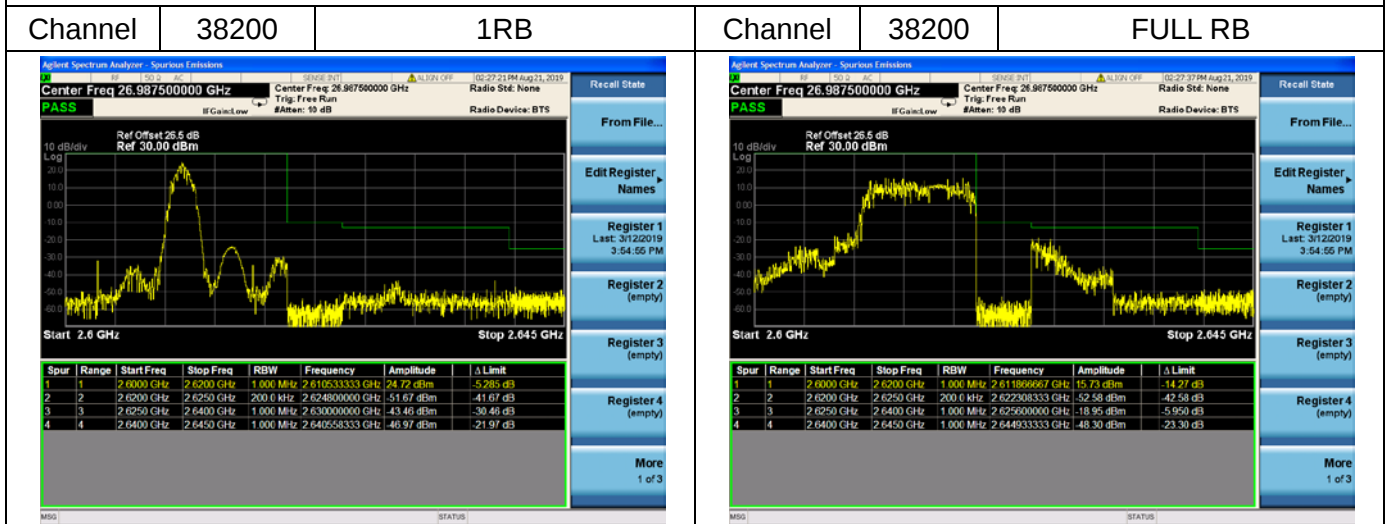


LTE Band 38

Channel Bandwidth: 10MHz



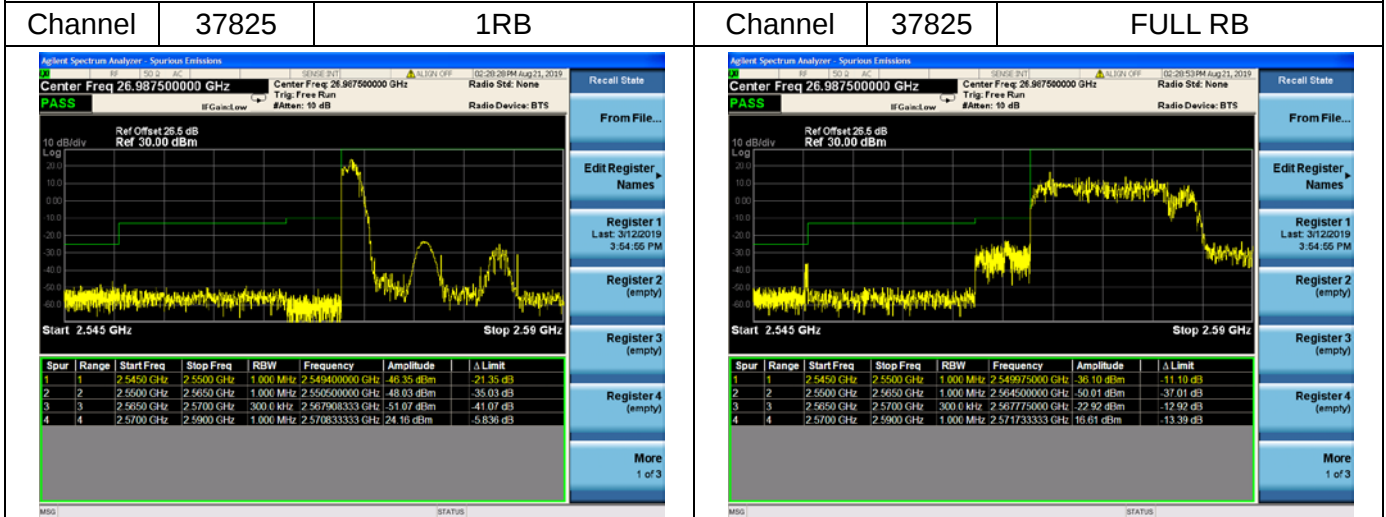
Channel Bandwidth: 10MHz





LTE Band 38

Channel Bandwidth: 15MHz



Channel Bandwidth: 15MHz

