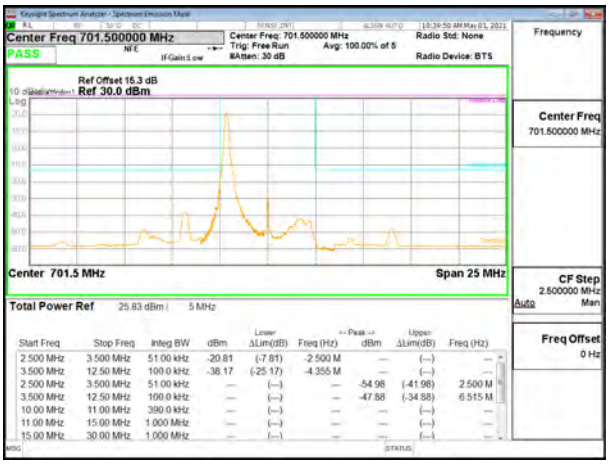
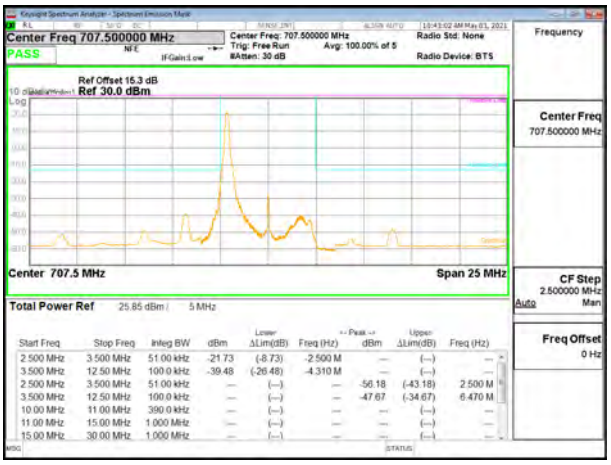


LTE B12 5MHz QPSK Low Channel RB1-0



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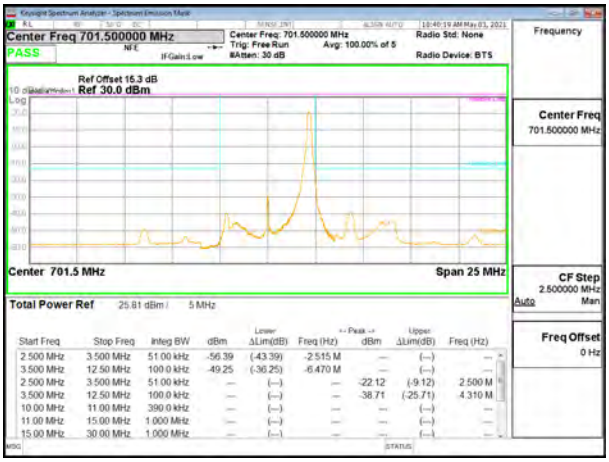
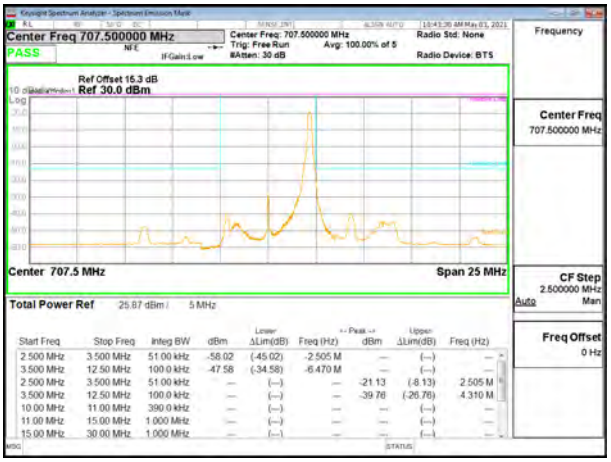
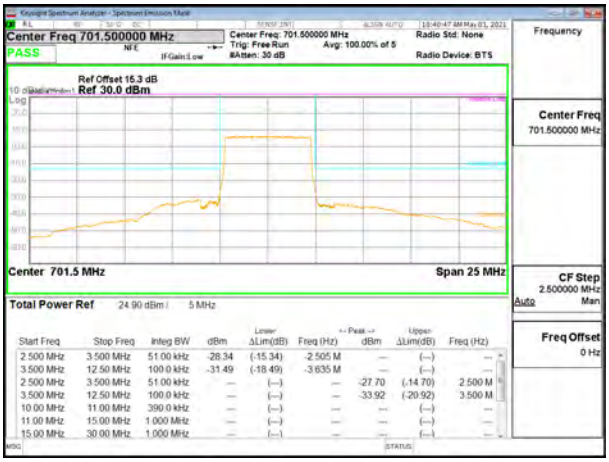


LTE B12 5MHz QPSK Low Channel RB1-24

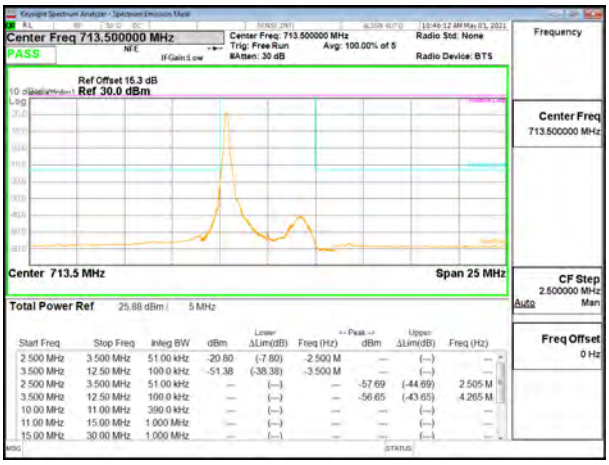


LTE B12 5MHz QPSK Middle Channel RB1-24

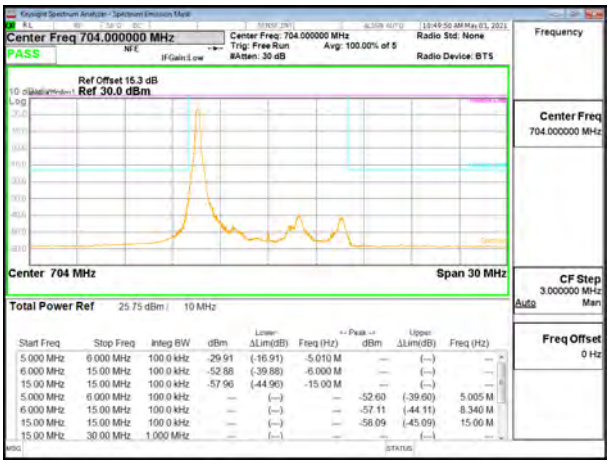


LTE B12 5MHz QPSK Low Channel RB25-0

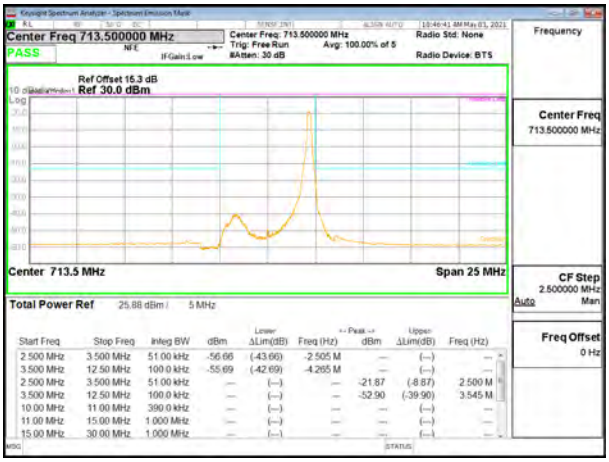
LTE B12 5MHz QPSK Middle Channel RB25-0



LTE B12 5MHz QPSK High Channel RB1-0



LTE B12 10MHz QPSK Low Channel RB1-0



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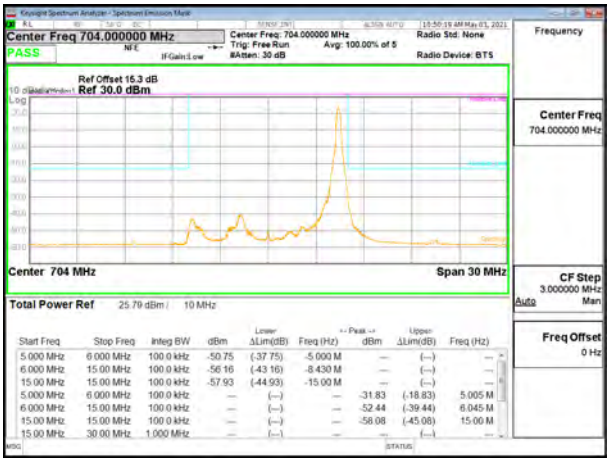
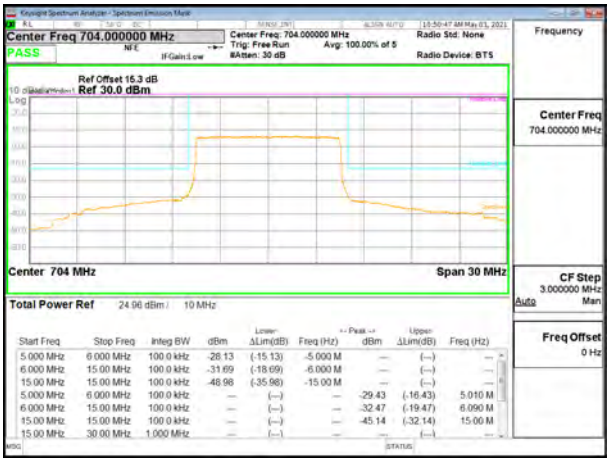
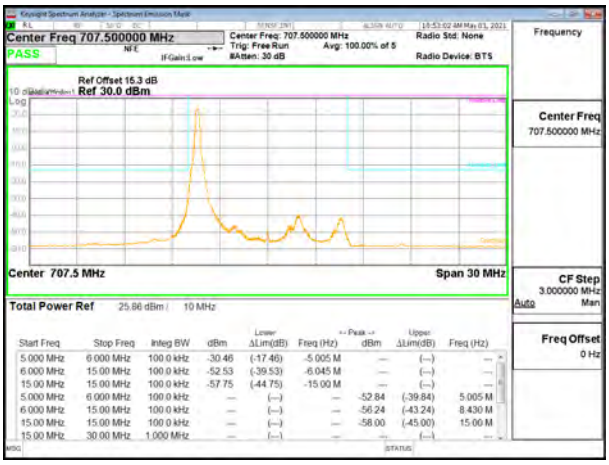


LTE B12 10MHz QPSK Low Channel RB1-49

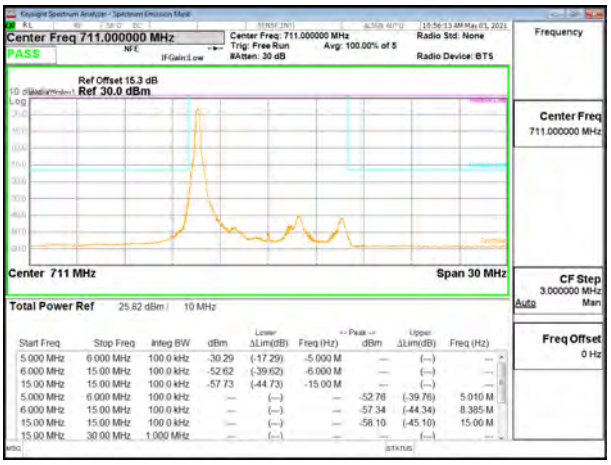
LTE B12 5MHz QPSK High Channel RB25-0



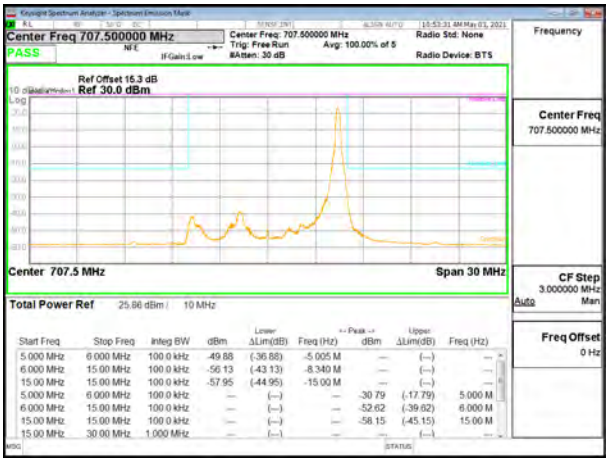
LTE B12 10MHz QPSK Low Channel RB50-0



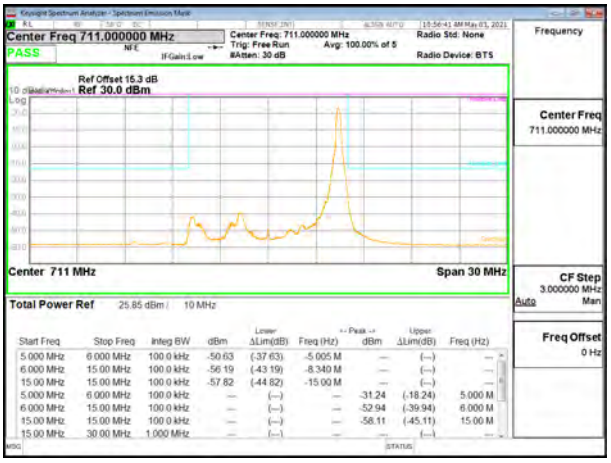
LTE B12 10MHz QPSK Middle Channel RB1-0



LTE B12 10MHz QPSK High Channel RB1-0

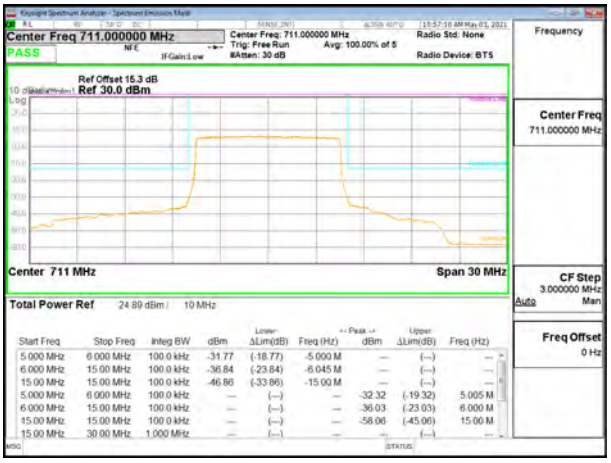


LTE B12 10MHz QPSK Middle Channel RB1-49



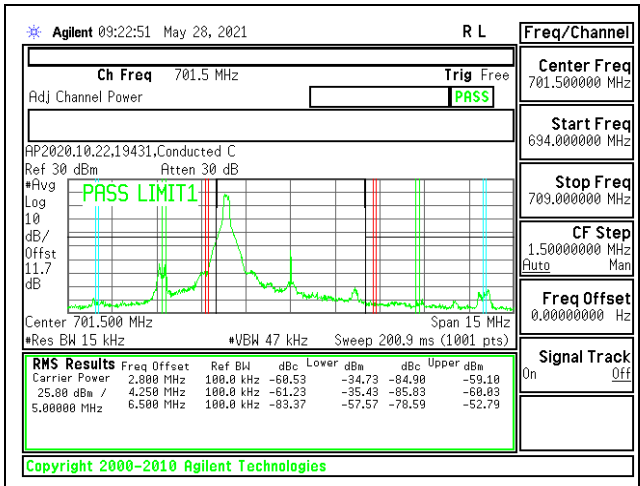
LTE B12 10MHz QPSK High Channel RB1-49

LTE B12 10MHz QPSK Middle Channel RB50-0

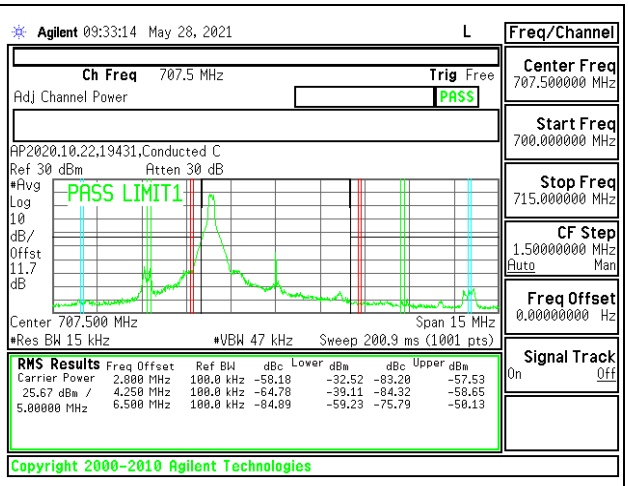


LTE B12 10MHz QPSK High Channel RB50-0

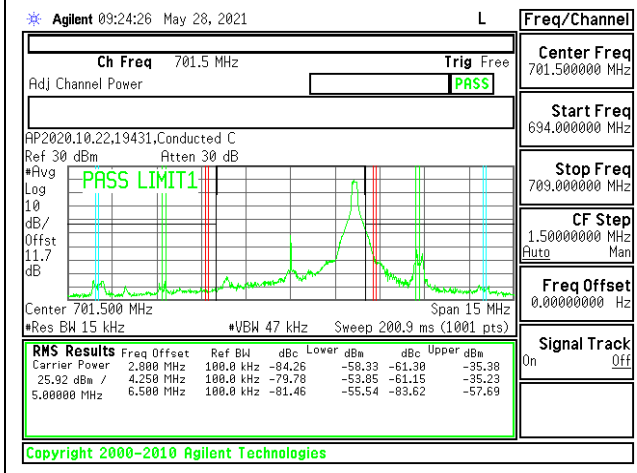
5G NR n12 ADJACENT CHANNEL POWER AND EMISSION MASK



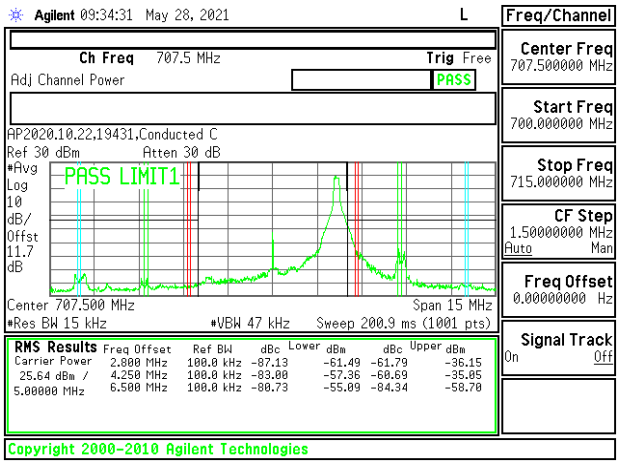
5G NR n12 5MHz BPSK Low Channel RB1-0



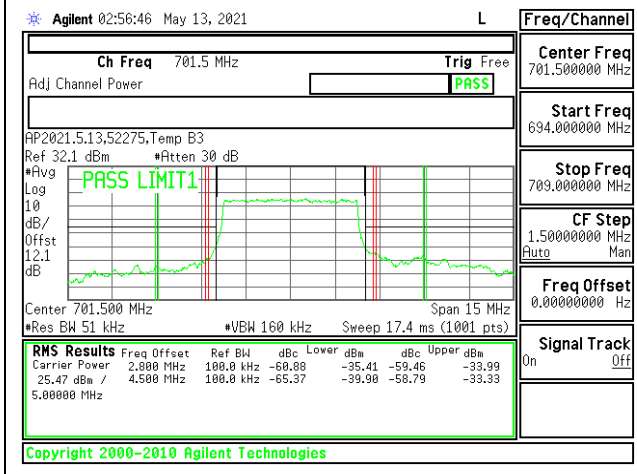
5G NR n12 5MHz BPSK Middle Channel RB1-0



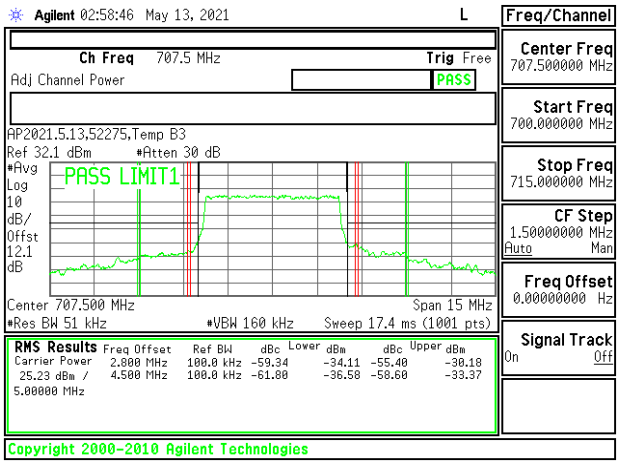
5G NR n12 5MHz BPSK Low Channel RB1-24



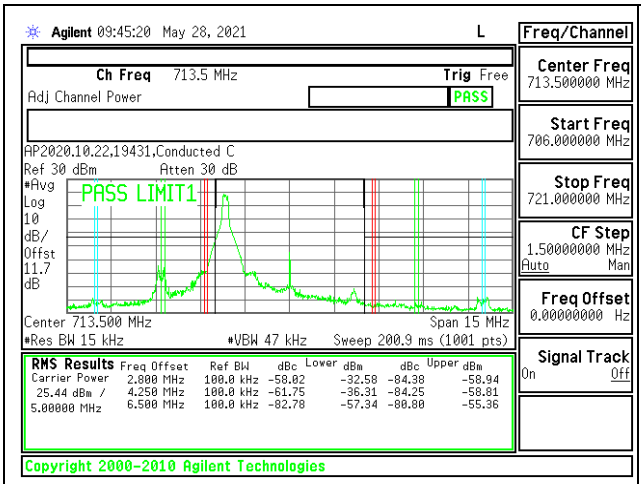
5G NR n12 5MHz BPSK Middle Channel RB1-24



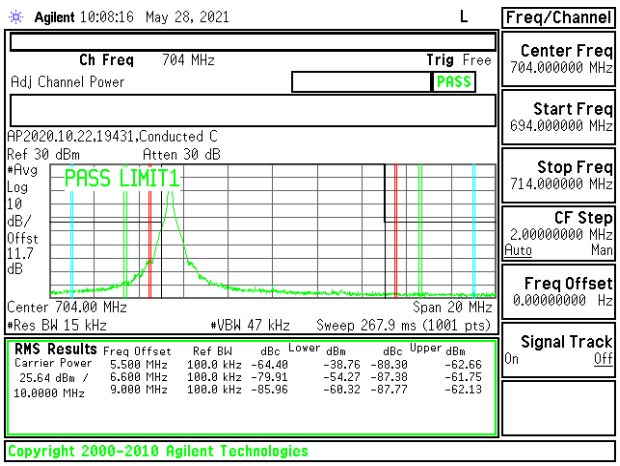
5G NR n12 5MHz BPSK Low Channel RB25-0



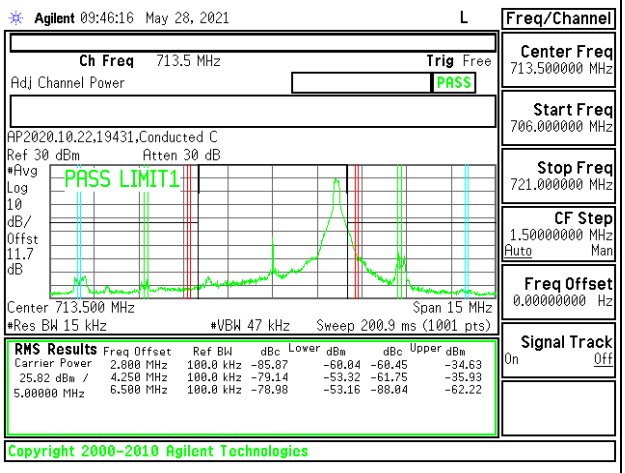
5G NR n12 5MHz BPSK Middle Channel RB25-0



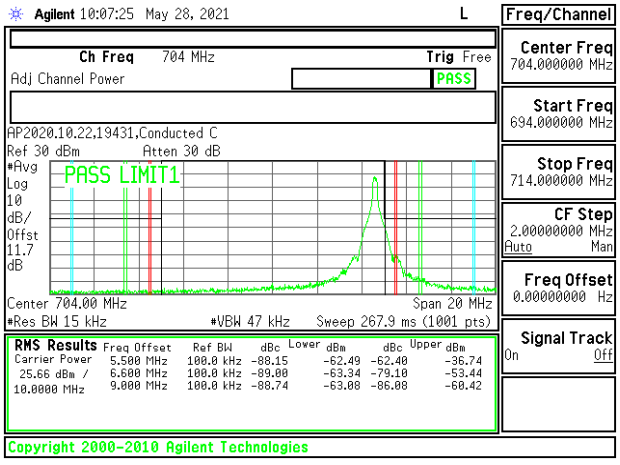
5G NR n12 5MHz BPSK High Channel RB1-0



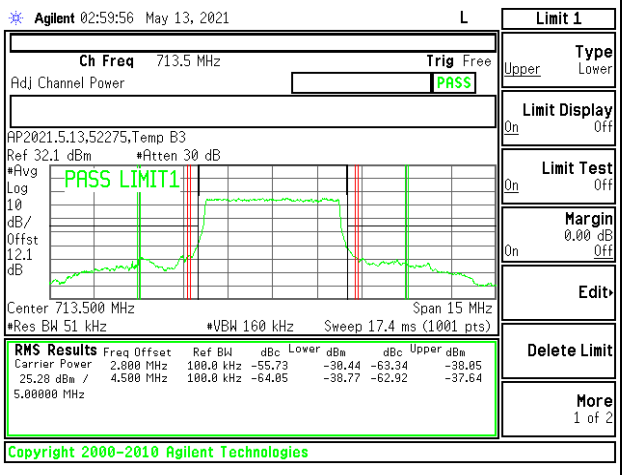
5G NR n12 10MHz BPSK Low Channel RB1-0



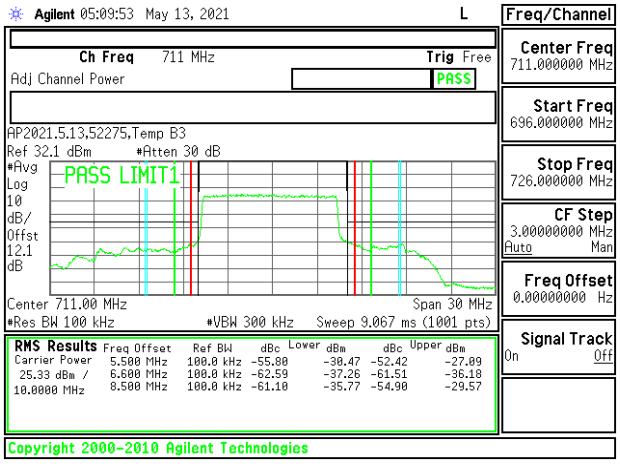
5G NR n12 5MHz BPSK High Channel RB1-24



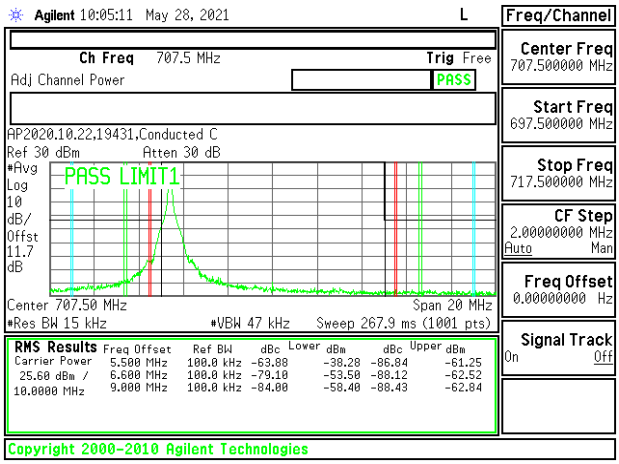
5G NR n12 10MHz BPSK Low Channel RB1-51



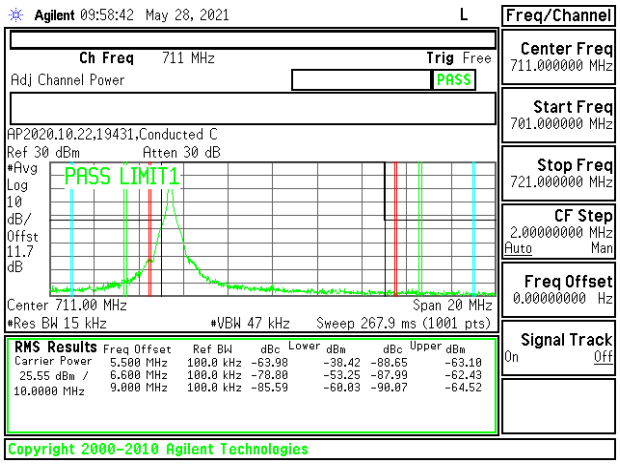
5G NR n12 5MHz BPSK High Channel RB25-0



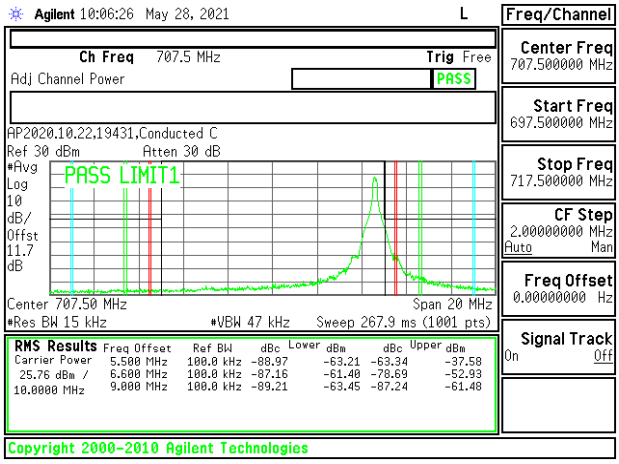
5G NR n12 10MHz BPSK Low Channel RB50-0



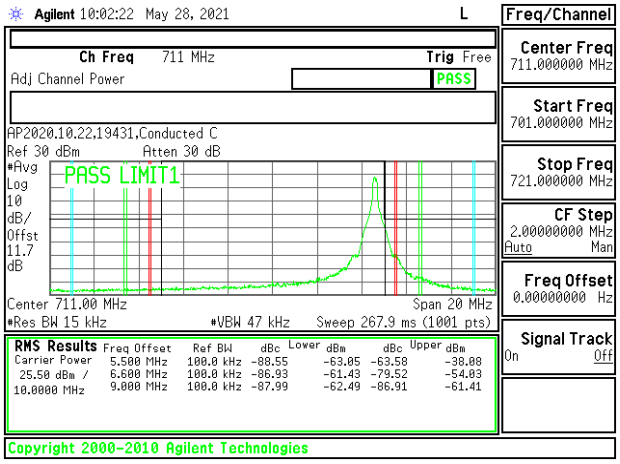
5G NR n12 10MHz BPSK Middle Channel RB1-0



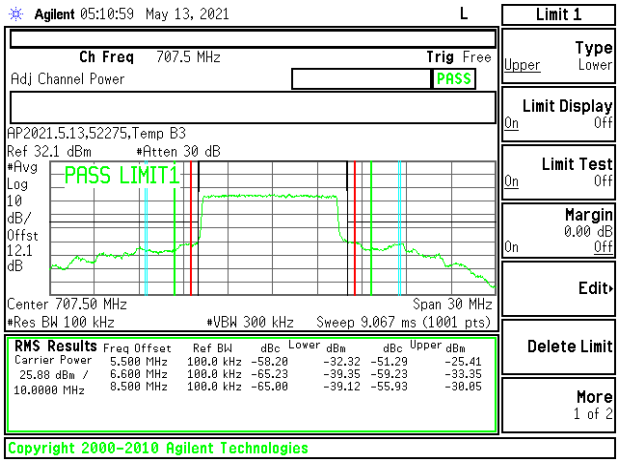
5G NR n12 10MHz BPSK High Channel RB1-0



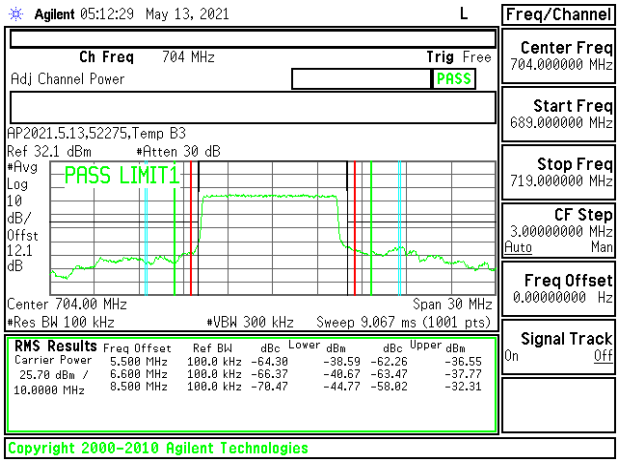
5G NR n12 10MHz BPSK Middle Channel RB1-51



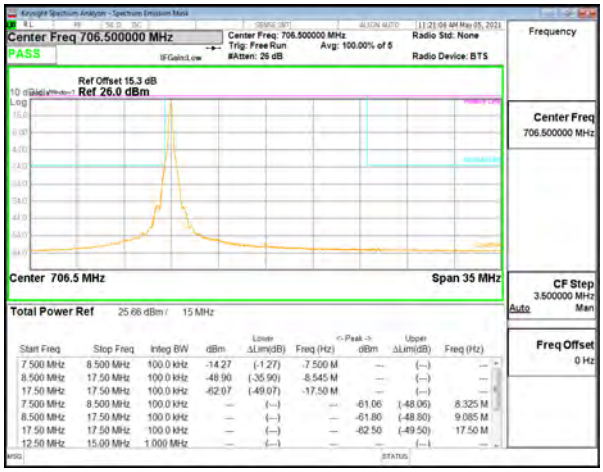
5G NR n12 10MHz BPSK High Channel RB1-51



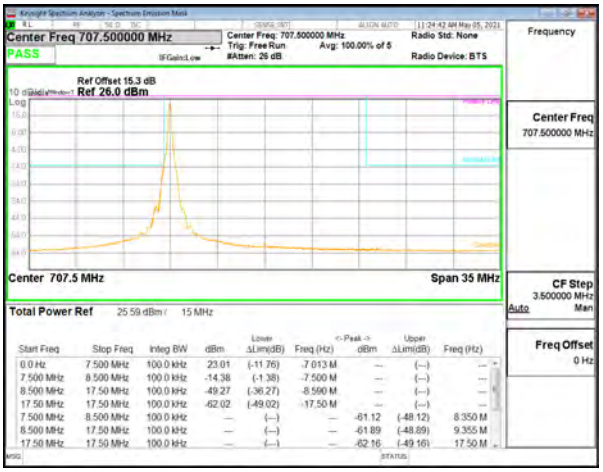
5G NR n12 10MHz BPSK Middle Channel RB50-0



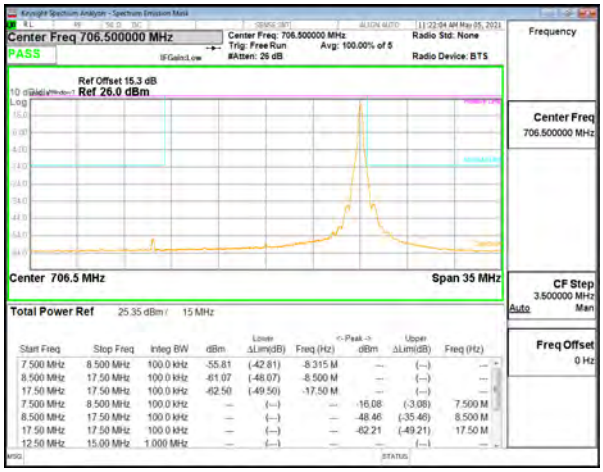
5G NR n12 10MHz BPSK High Channel RB50-0



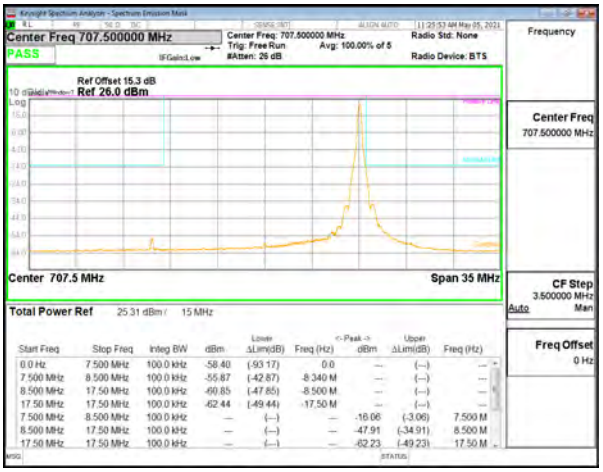
5G NR n12 15MHz BPSK Low Channel RB1-0



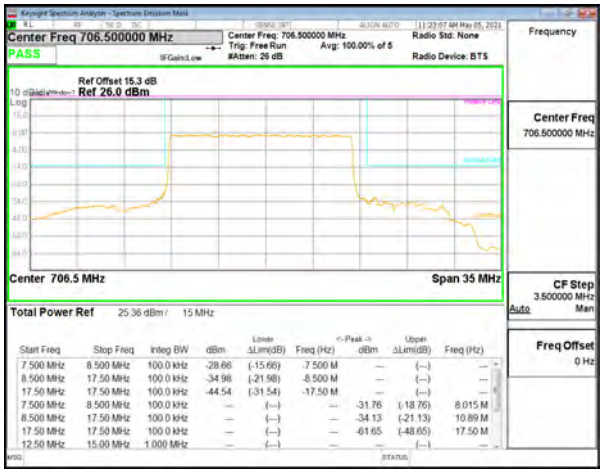
5G NR n12 15MHz BPSK Middle Channel RB1-0



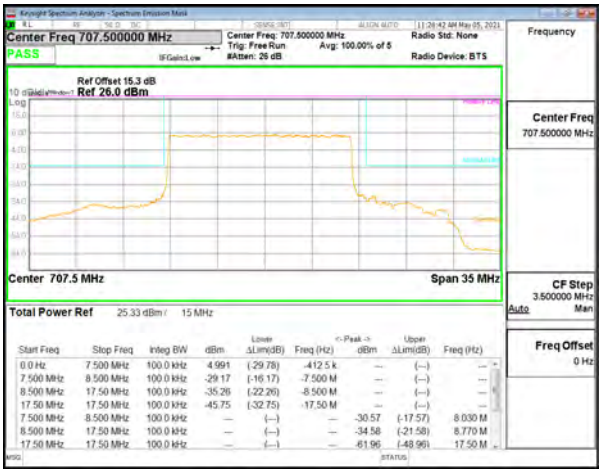
5G NR n12 15MHz BPSK Low Channel RB1-78



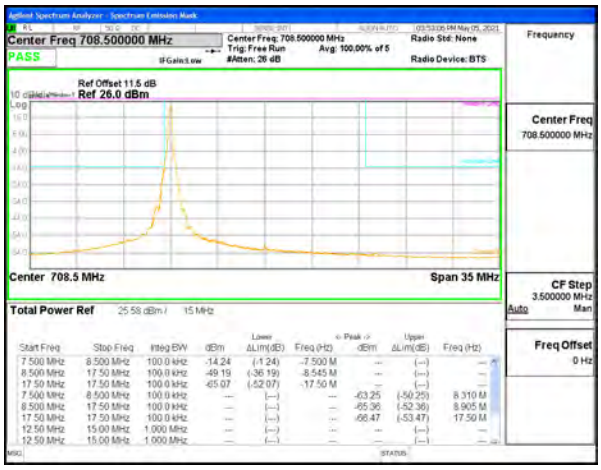
5G NR n12 15MHz BPSK Middle Channel RB1-78



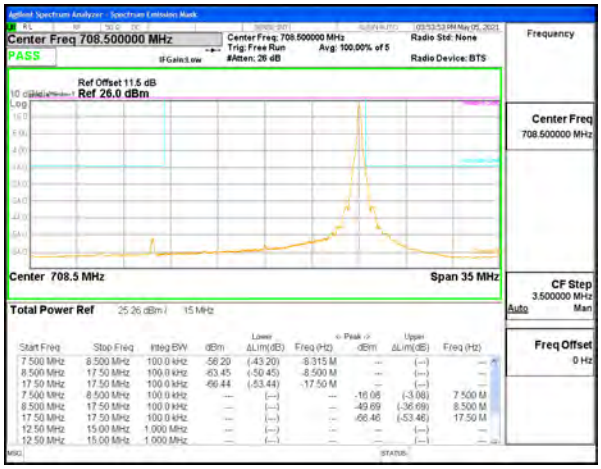
5G NR n12 15MHz BPSK Low Channel RB75-0



5G NR n12 15MHz BPSK Middle Channel RB75-0



5G NR n12 15MHz BPSK High Channel RB1-0



5G NR n12 15MHz BPSK High Channel RB1-78

5G NR n12 15MHz BPSK High Channel RB75-0

9.2.4. LTE BAND 13 ADJACENT CHANNEL POWER

LIMITS

FCC: §27.53

(c)For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the 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, in accordance with the following:

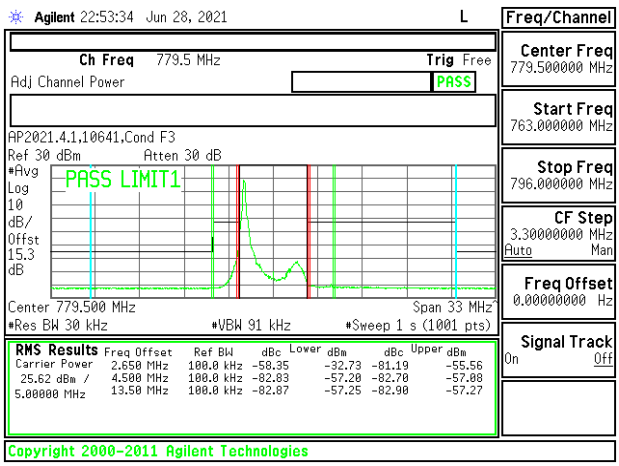
(2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;

(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;

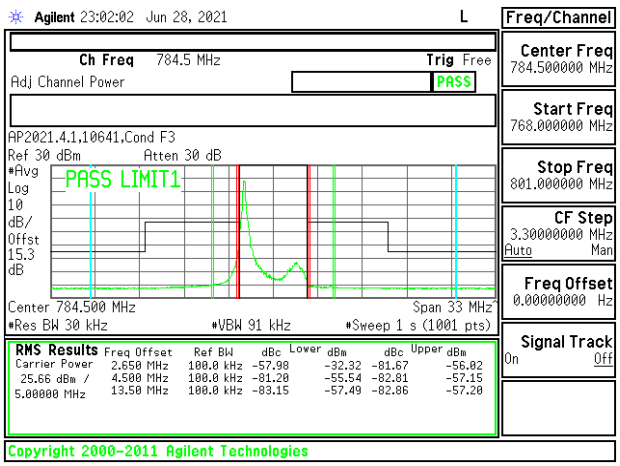
(5) Compliance with the provisions of paragraphs (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;

(6) Compliance with the provisions of paragraphs (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

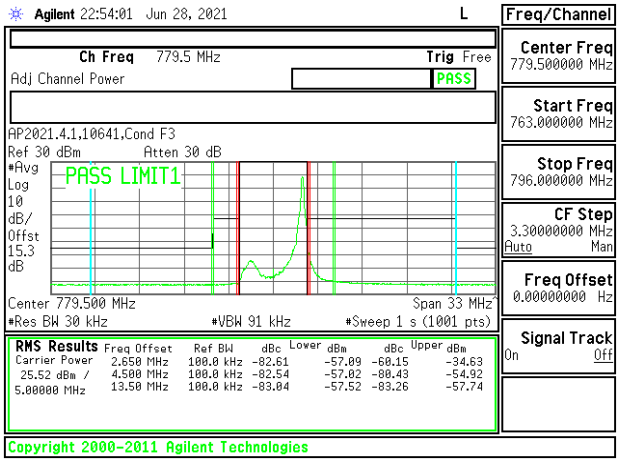
(f) Emissions in the band 1559-1610 MHz shall be limited to −70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals. (-70 dBW/MHz = -40dBm/MHz).



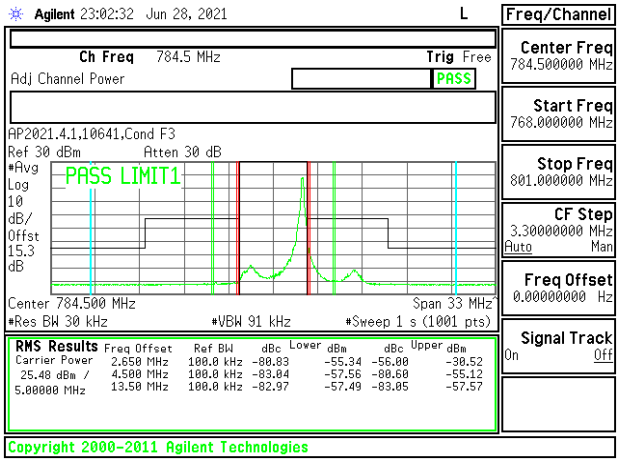
LTE B13 5MHz QPSK Low Channel RB1-0



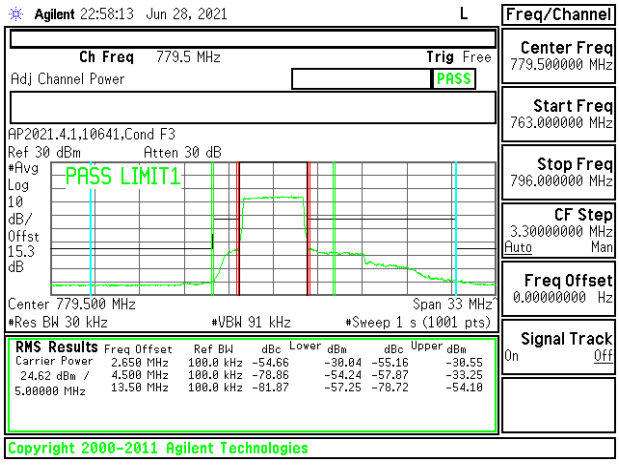
LTE B13 5MHz QPSK High Channel RB1-0



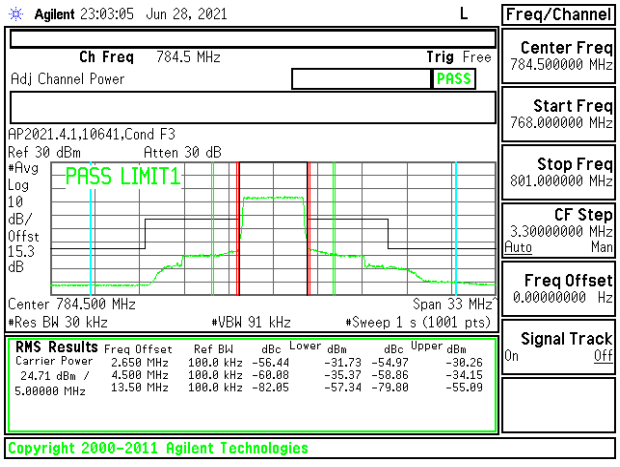
LTE B13 5MHz QPSK Low Channel RB1-24



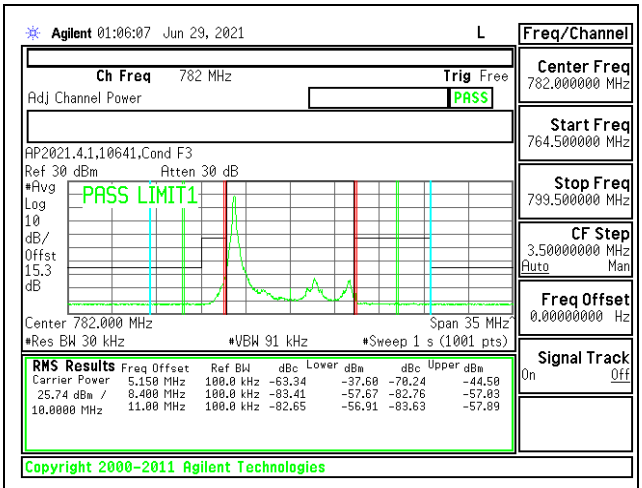
LTE B13 5MHz QPSK High Channel RB1-24



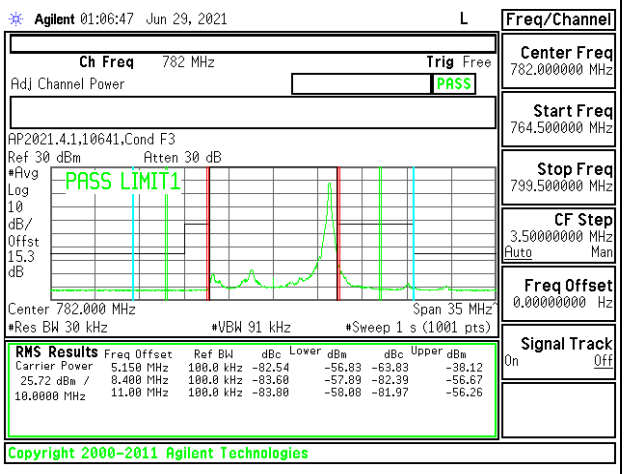
LTE B13 5MHz QPSK Low Channel RB25-0



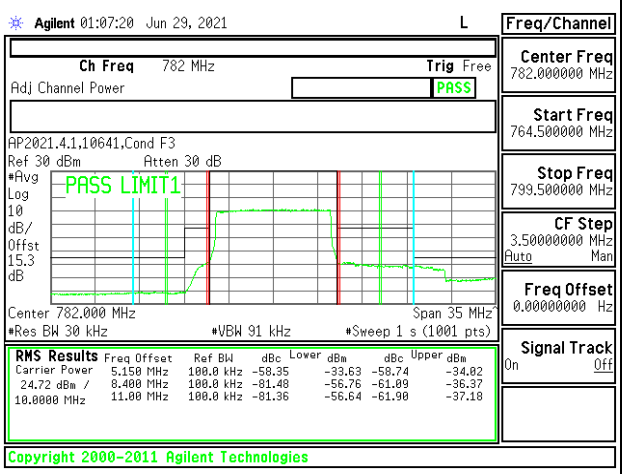
LTE B13 5MHz QPSK High Channel RB25-0



LTE B13 10MHz QPSK Middle Channel RB1-0



LTE B13 10MHz QPSK Middle Channel RB1-49



LTE B13 10MHz QPSK Middle Channel RB50-0

9.2.5. LTE BAND 14 ADJACENT CHANNEL POWER

LIMITS

FCC: §90.543 Emission Limitations.
(e) For operations in the 758-768 MHz and the 788-798 MHz bands, the power of any emission outside the 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, in accordance with the following:

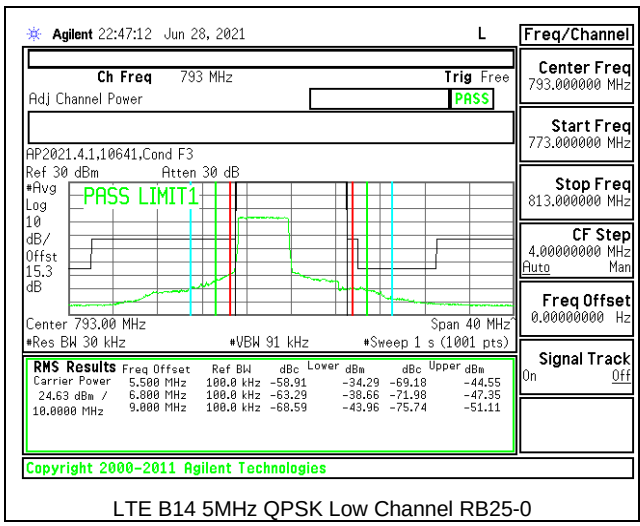
(2) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations.

(3) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least 43 + 10 log (P) dB.

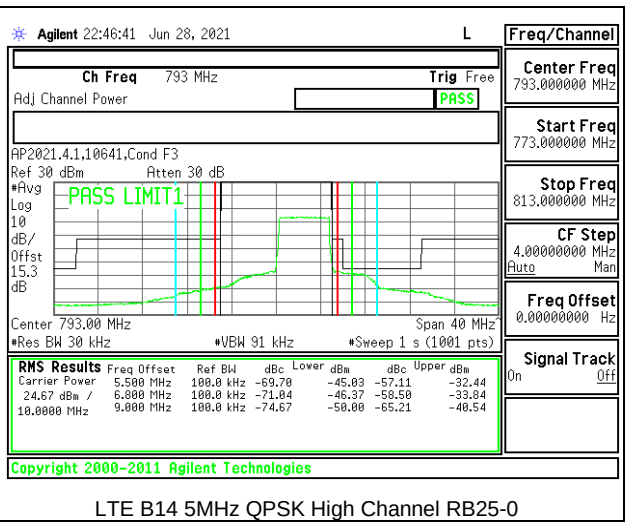
(4) Compliance with the provisions of paragraphs (e)(1) and (2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

(5) Compliance with the provisions of paragraph (e)(3) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of 30 kHz may be employed.

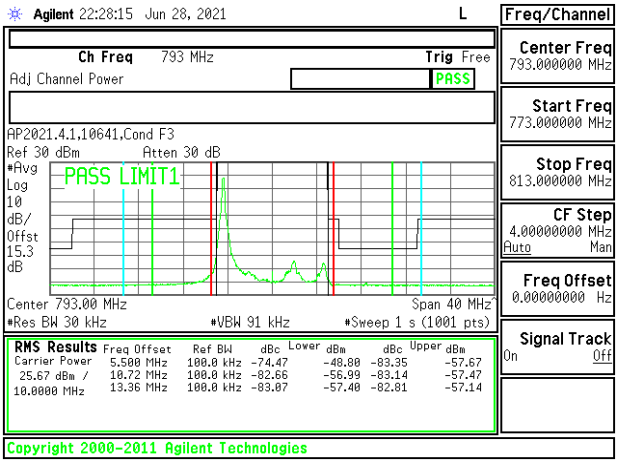
(f) For operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the band 1559-1610 MHz shall be limited to −70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and −80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.



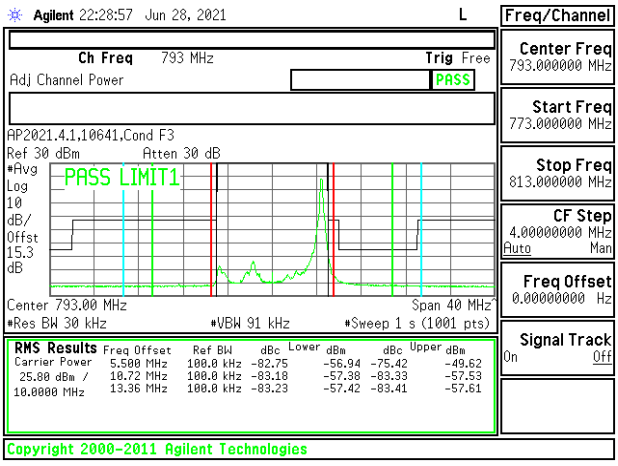
LTE B14 5MHz QPSK Low Channel RB25-0



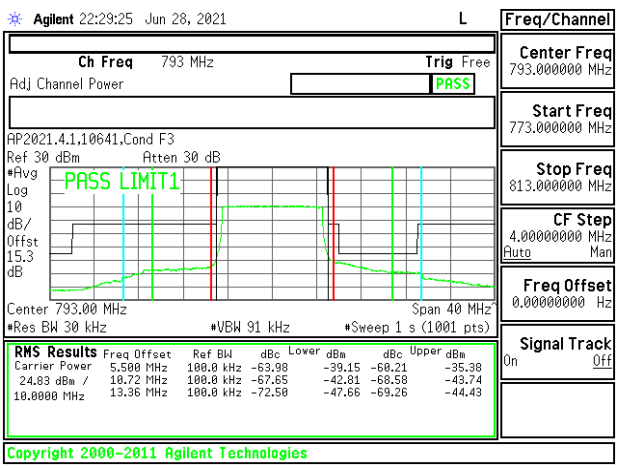
LTE B14 5MHz QPSK High Channel RB25-0



LTE B14 10MHz QPSK Middle Channel RB1-0



LTE B14 10MHz QPSK Middle Channel RB1-49



LTE B14 10MHz QPSK Middle Channel RB50-0

9.2.6. LTE BAND 17 EMISSION MASK

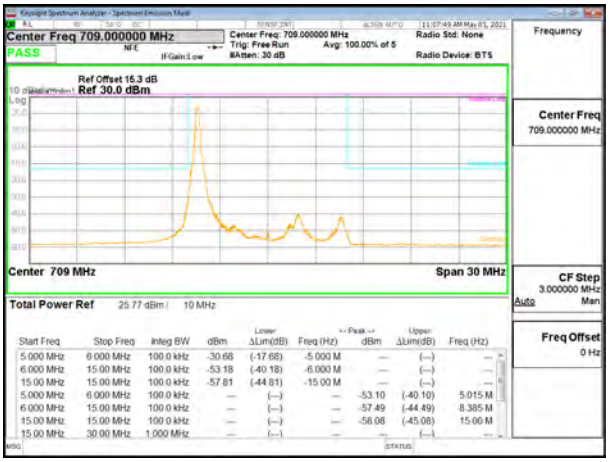
LIMITS

FCC: §27.53

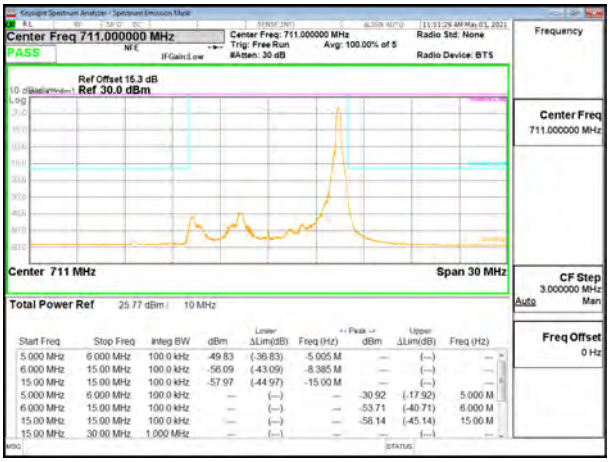
(g) For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43 + 10 log (P) dB. Compliance with 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.

LTE B17 5MHz QPSK Low Channel RB25-0

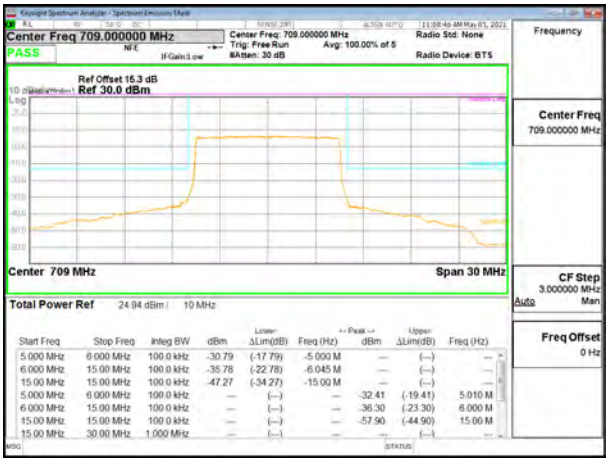
LTE B17 5MHz QPSK High Channel RB25-0



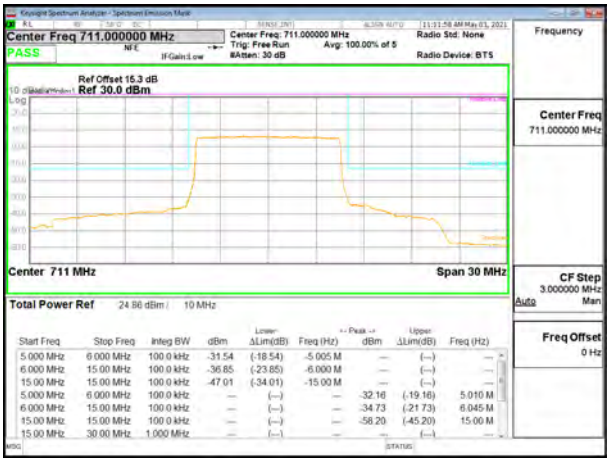
LTE B17 10MHz QPSK Low Channel RB1-0



LTE B17 10MHz QPSK High Channel RB1-49



LTE B17 10MHz QPSK Low Channel RB50-0



LTE B17 10MHz QPSK High Channel RB50-0

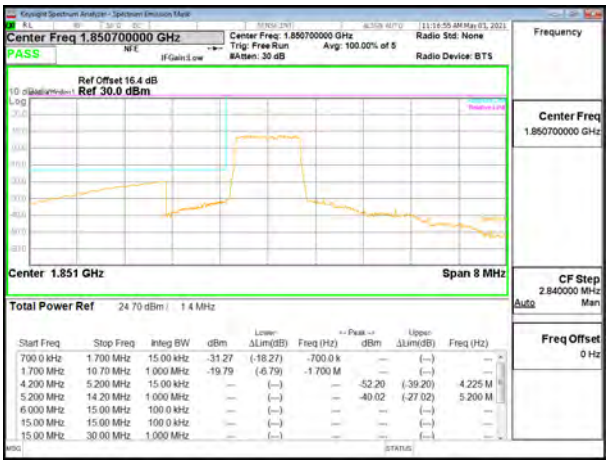
9.2.7. LTE BAND 25 AND 5G NR n25 ADJACENT CHANNEL POWER AND EMISSION MASK

LIMITS

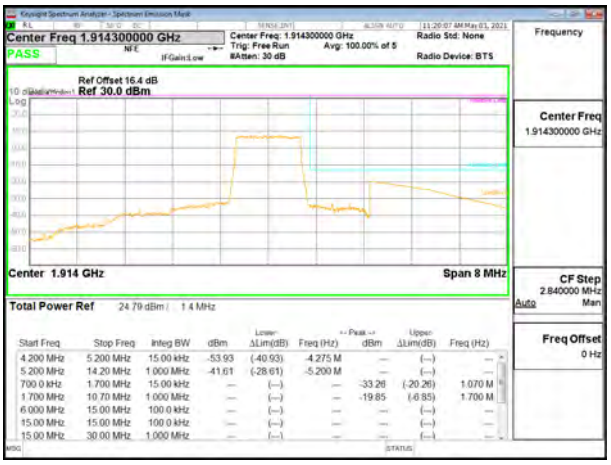
FCC: §24.238 (a)

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.

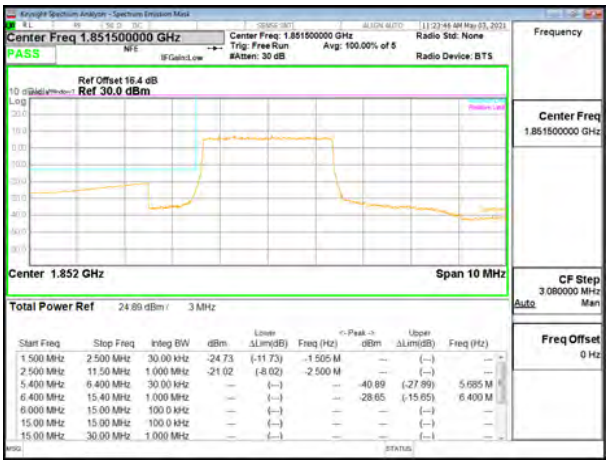
LTE BAND 25 EMISSION MASK



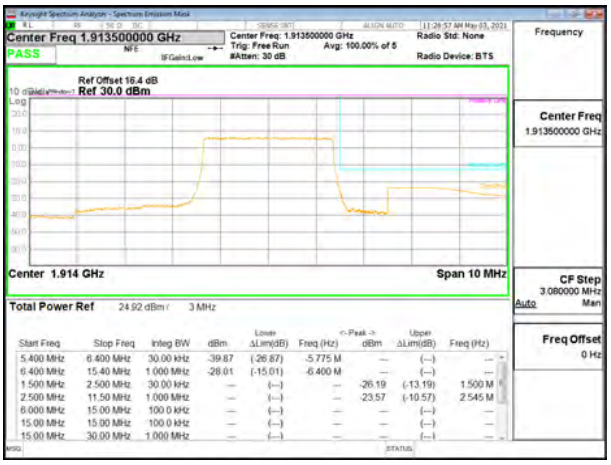
LTE B25 1.4MHz QPSK Low Channel RB6-0



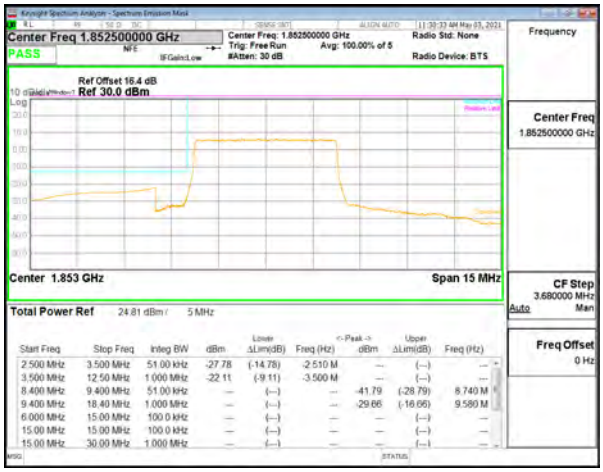
LTE B25 1.4MHz QPSK High Channel RB6-0



LTE B25 3MHz QPSK Low Channel RB15-0

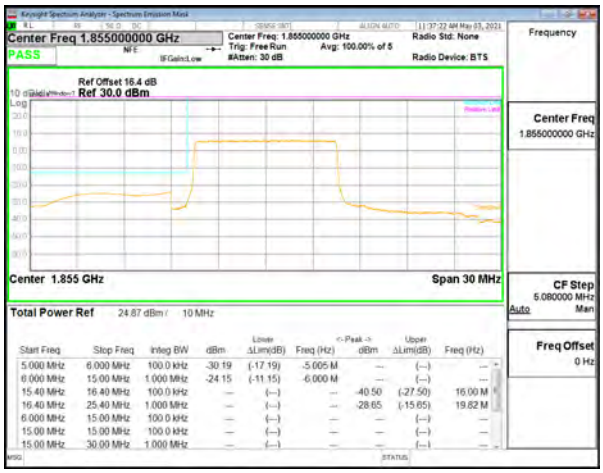


LTE B25 3MHz QPSK High Channel RB15-0

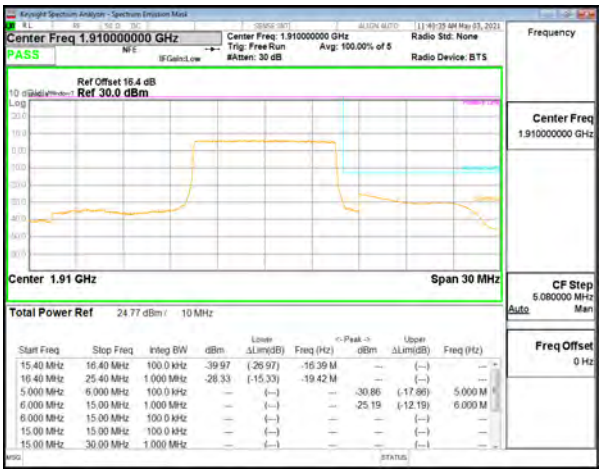


LTE B25 5MHz QPSK Low Channel RB25-0

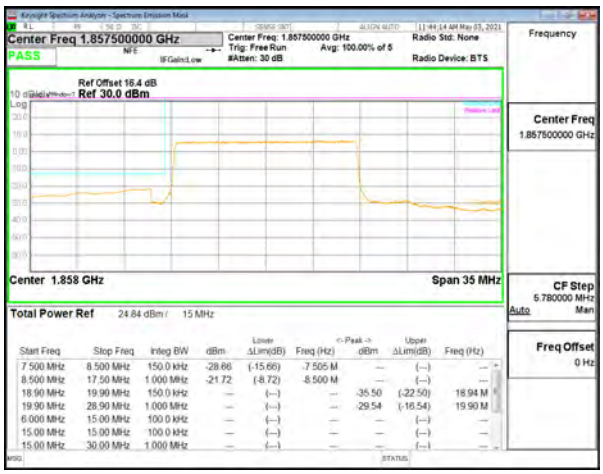
LTE B25 5MHz QPSK High Channel RB25-0



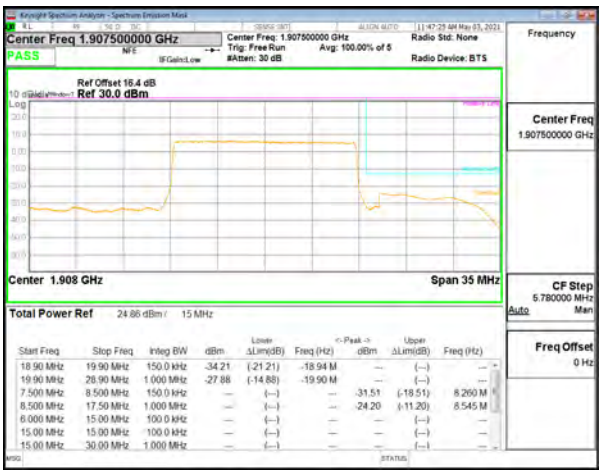
LTE B25 10MHz QPSK Low Channel RB50-0



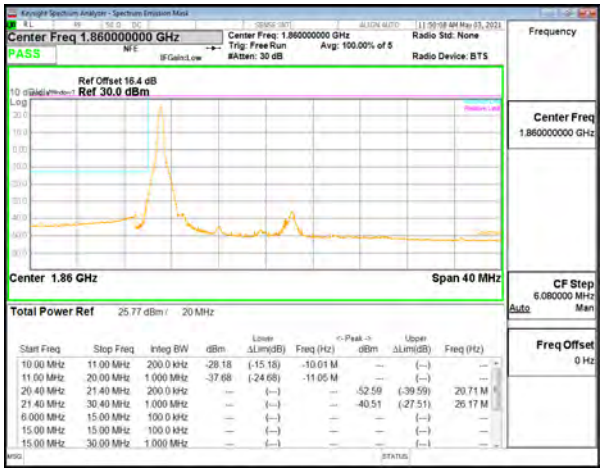
LTE B25 10MHz QPSK High Channel RB50-0



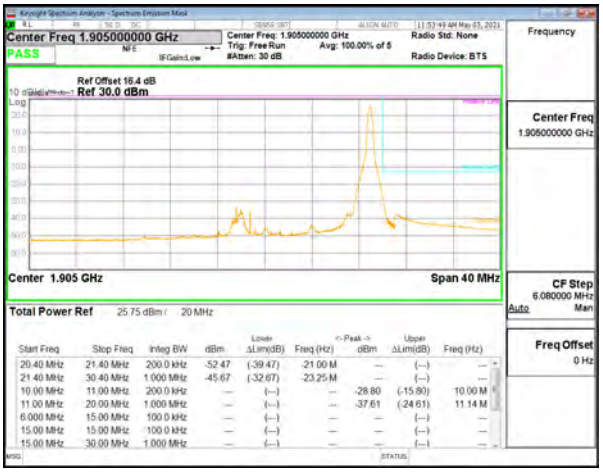
LTE B25 15MHz QPSK Low Channel RB75-0



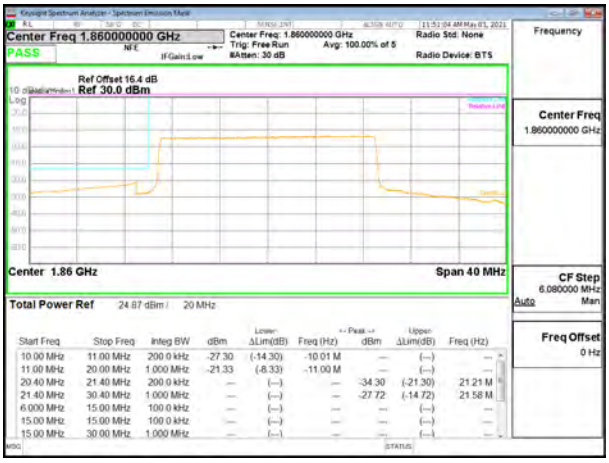
LTE B25 15MHz QPSK High Channel RB75-0



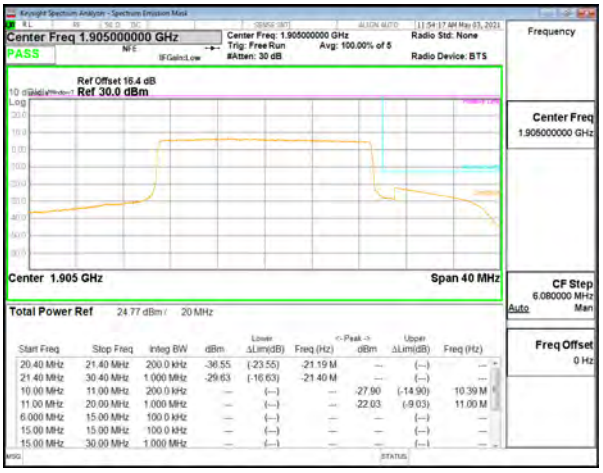
LTE B25 20MHz QPSK Low Channel RB1-0



LTE B25 20MHz QPSK High Channel RB1-99

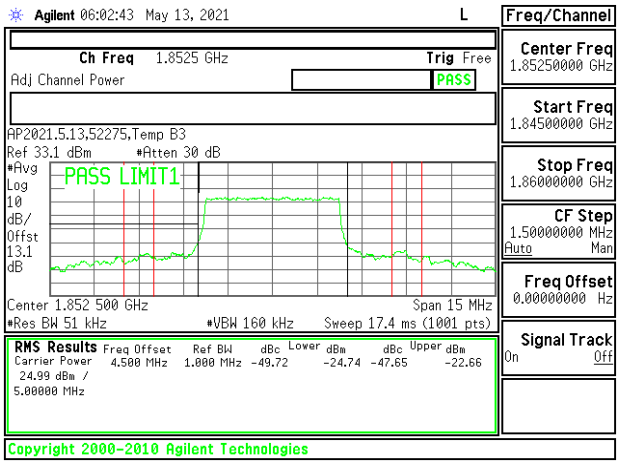


LTE B25 20MHz QPSK Low Channel RB100-0

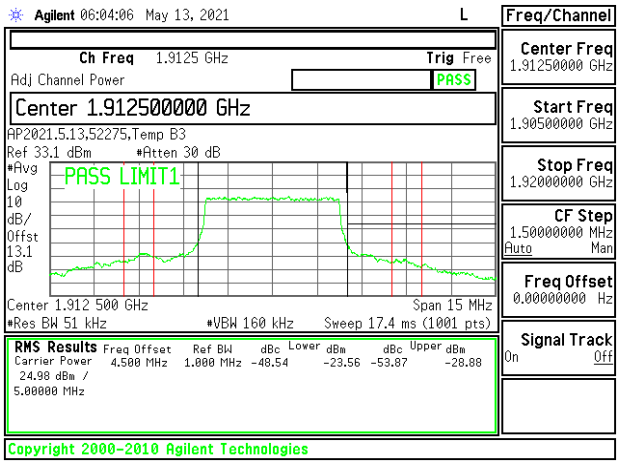


LTE B25 20MHz QPSK High Channel RB100-0

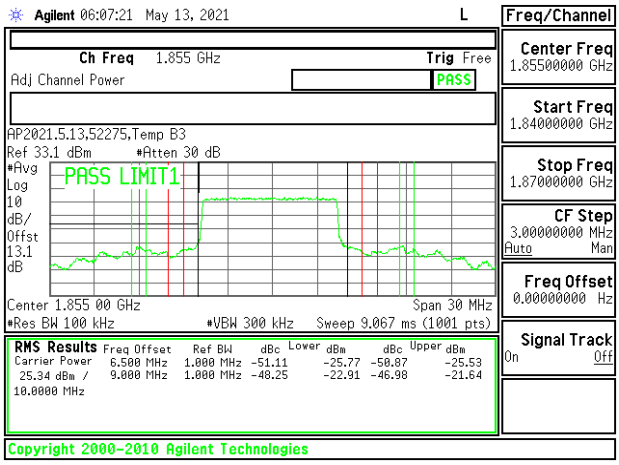
5G NR n25 ADJACENT CHANNEL POWER



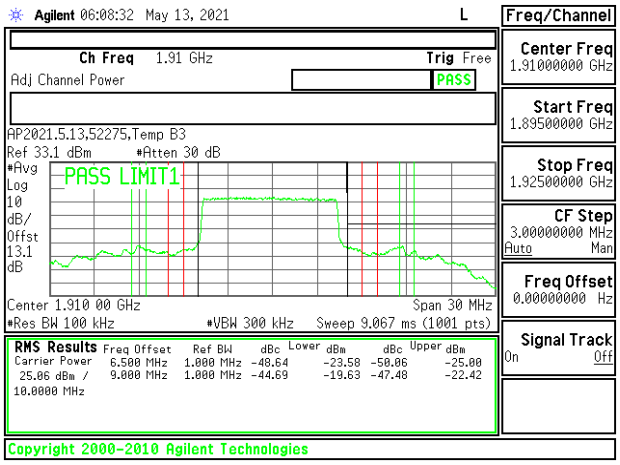
5G NR n25 5MHz BPSK Low Channel RB25-0



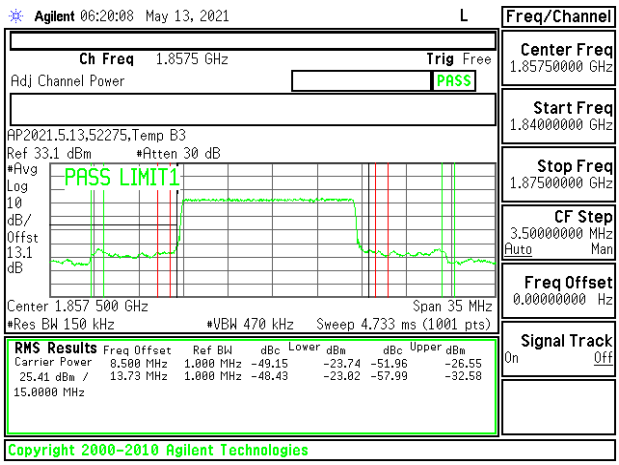
5G NR n25 5MHz BPSK High Channel RB25-0



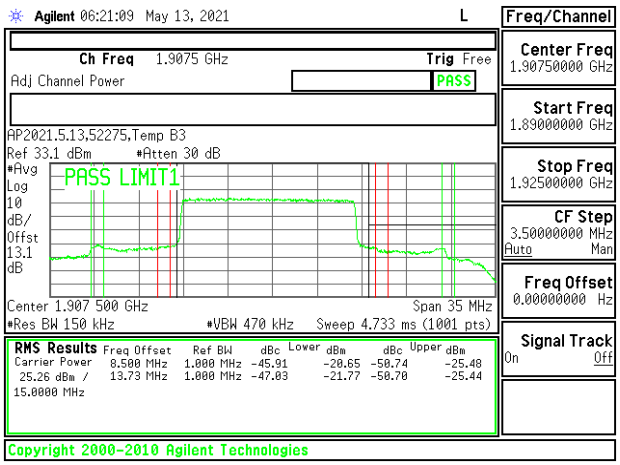
5G NR n25 10MHz BPSK Low Channel RB50-0



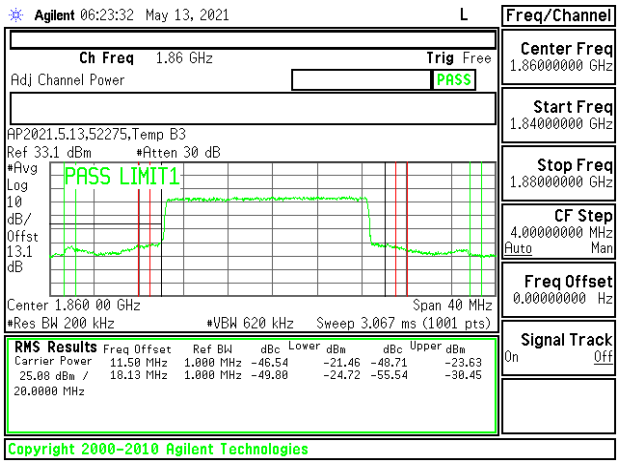
5G NR n25 10MHz BPSK High Channel RB50-0



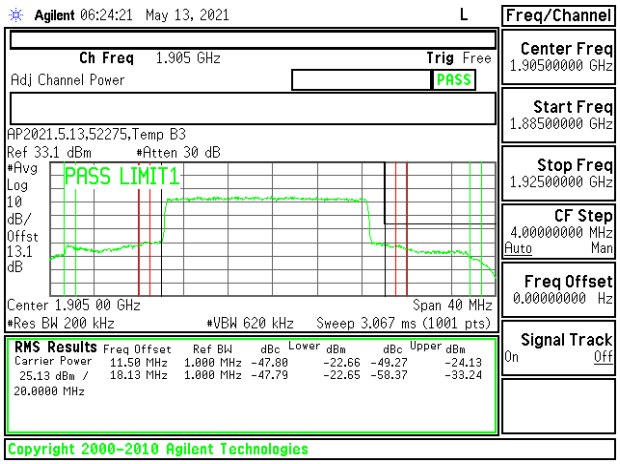
5G NR n25 15MHz BPSK Low Channel RB75-0



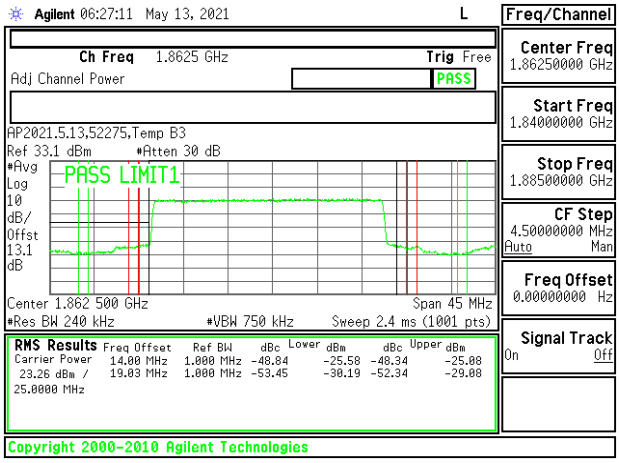
5G NR n25 15MHz BPSK High Channel RB75-0



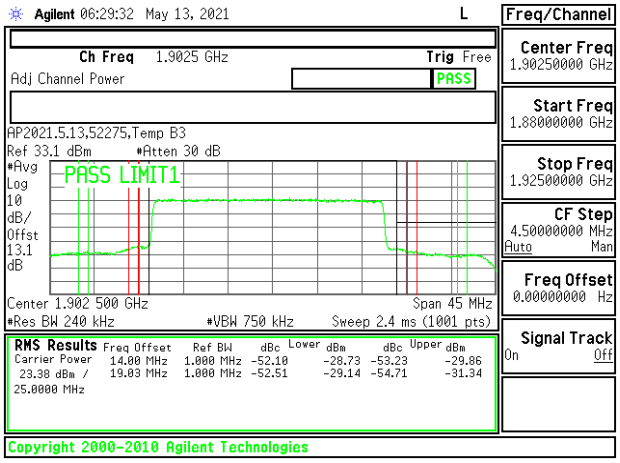
5G NR n25 20MHz BPSK Low Channel RB100-0



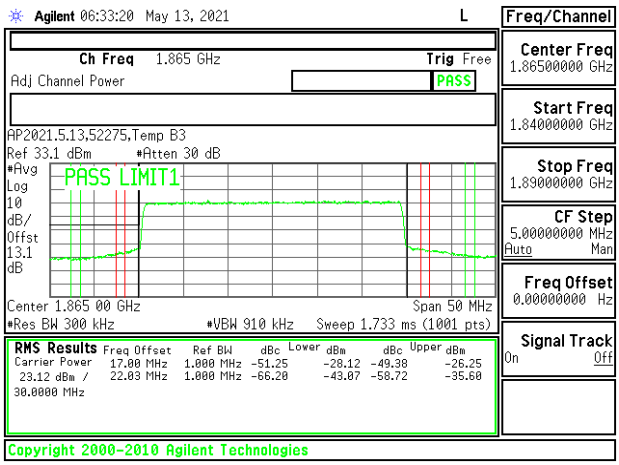
5G NR n25 20MHz BPSK High Channel RB100-0



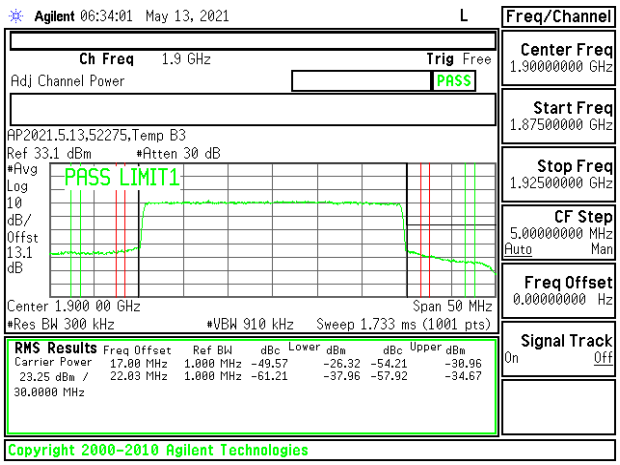
5G NR n25 25MHz BPSK Low Channel RB128-0



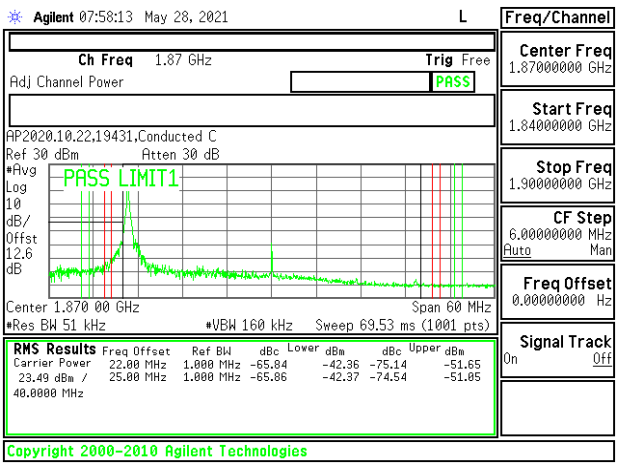
5G NR n25 25MHz BPSK High Channel RB128-0



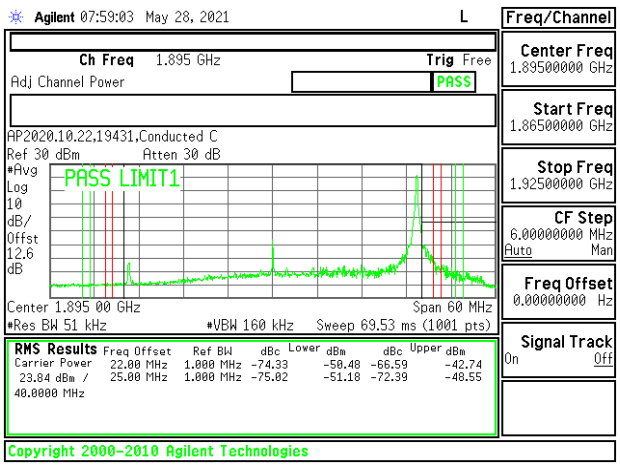
5G NR n25 30MHz BPSK Low Channel RB160-0



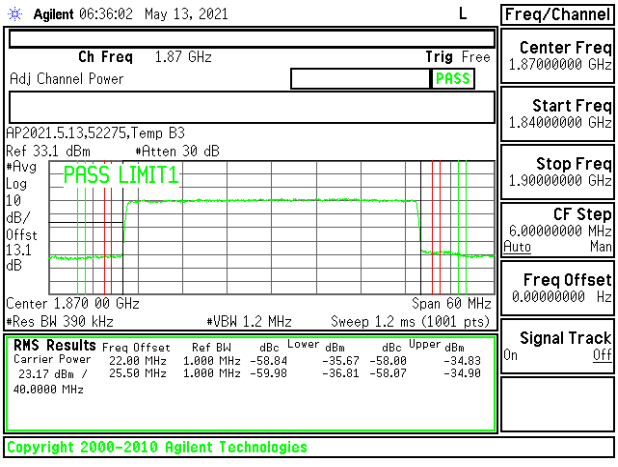
5G NR n25 30MHz BPSK High Channel RB160-0



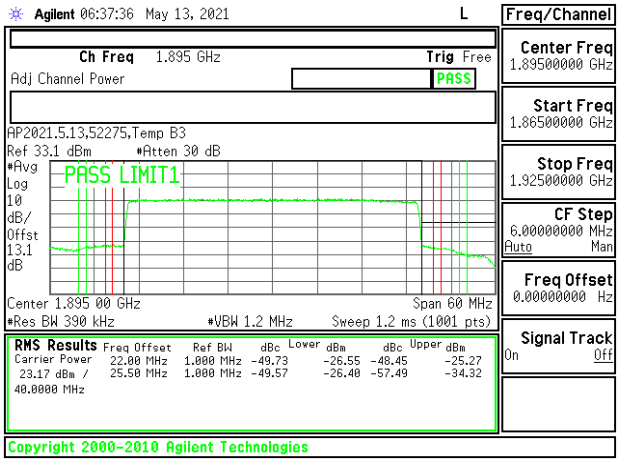
5G NR n25 40MHz BPSK Low Channel RB1-0



5G NR n25 40MHz BPSK High Channel RB1-215



5G NR n25 40MHz BPSK Low Channel RB216-0



5G NR n25 40MHz BPSK High Channel RB216-0

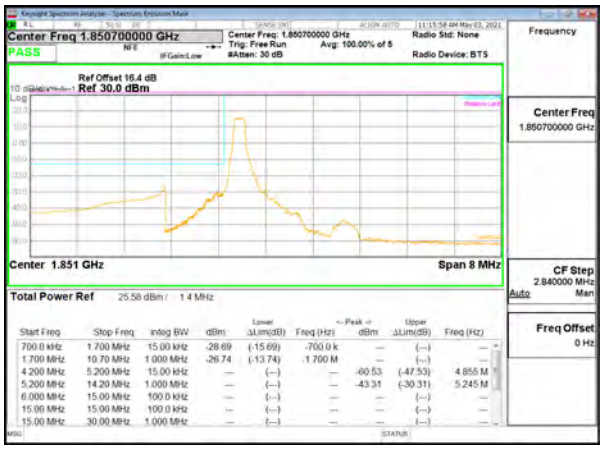
9.2.8. LTE BAND 26 ADJACENT CHANNEL POWER AND EMISSION MASK (PART 90S)

LIMITS

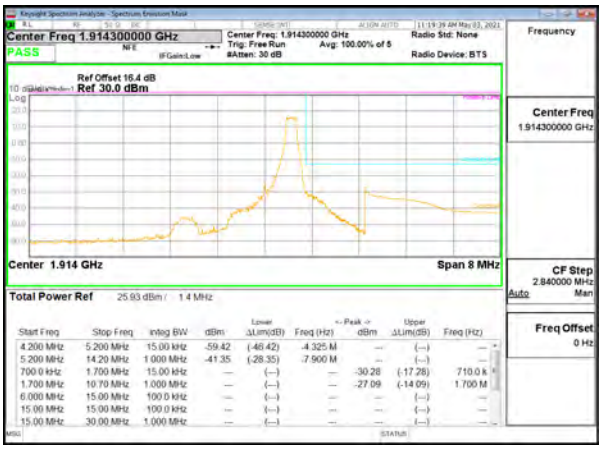
FCC: §90.691 Emission mask requirements for EA-based systems.
(a) Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels or 50 + 10 Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

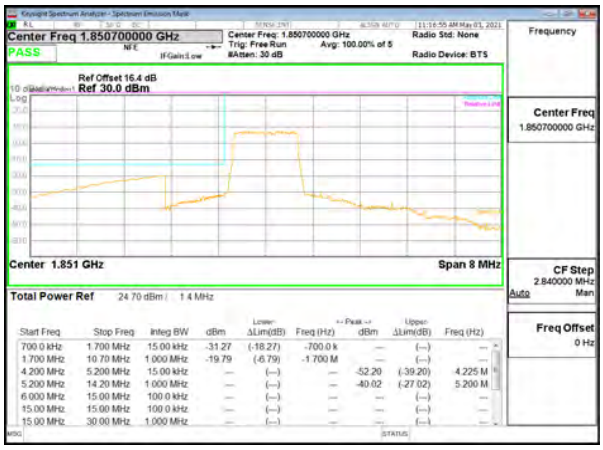
(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + 10Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.



LTE B26 1.4MHz QPSK Low Channel RB1-0

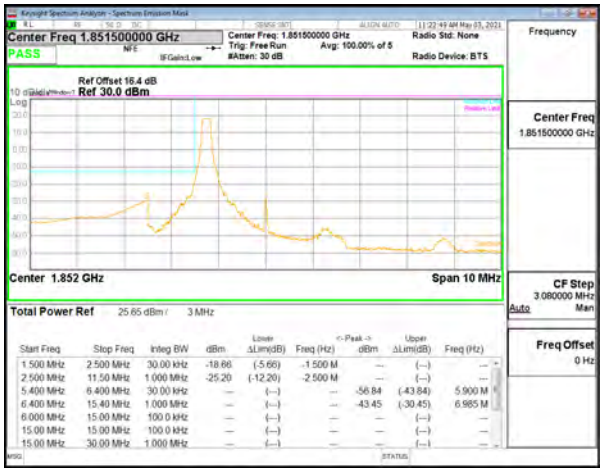


LTE B26 1.4MHz QPSK High Channel RB1-5

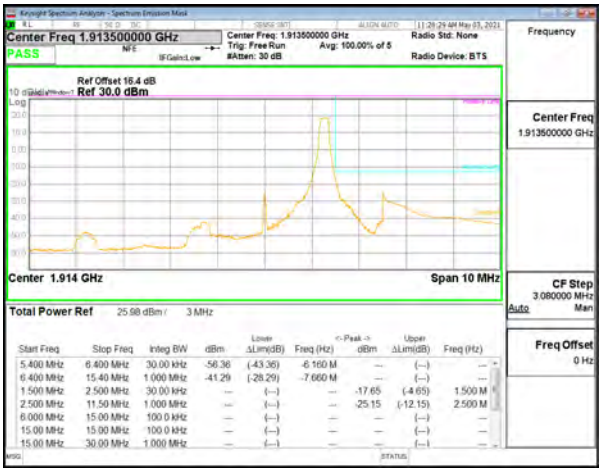


LTE B26 1.4MHz QPSK Low Channel RB6-0

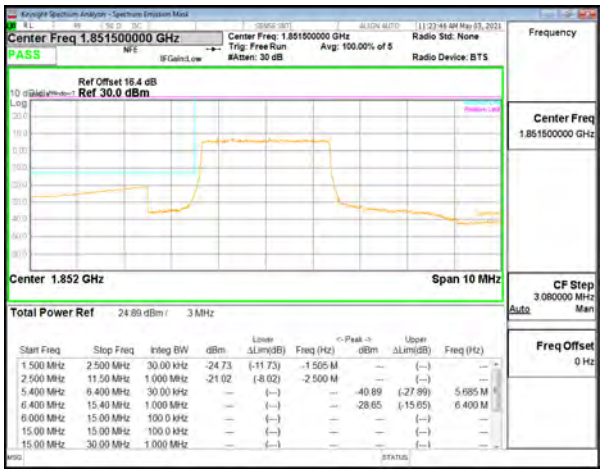
LTE B26 1.4MHz QPSK High Channel RB6-0



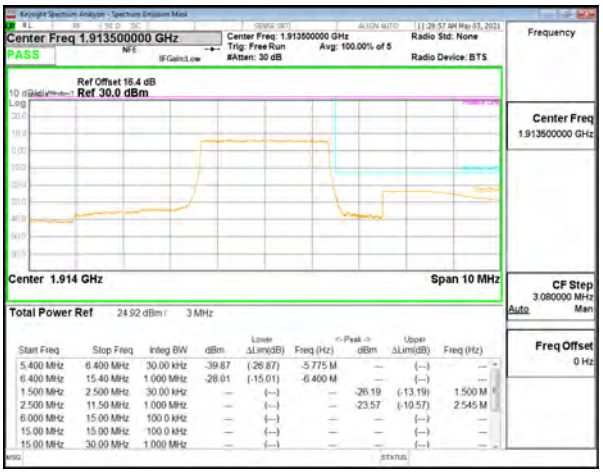
LTE B26 3MHz QPSK Low Channel RB1-0



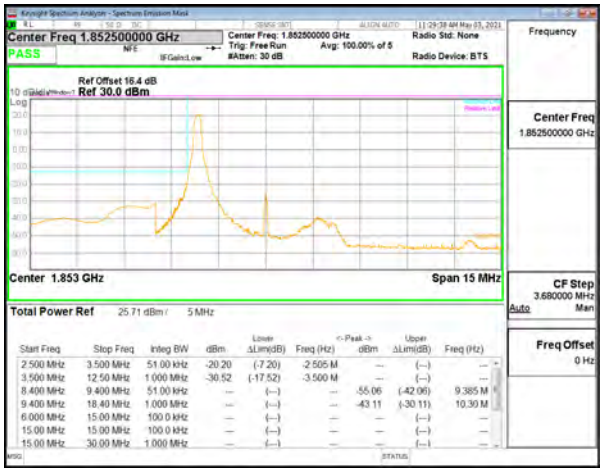
LTE B26 3MHz QPSK High Channel RB1-14



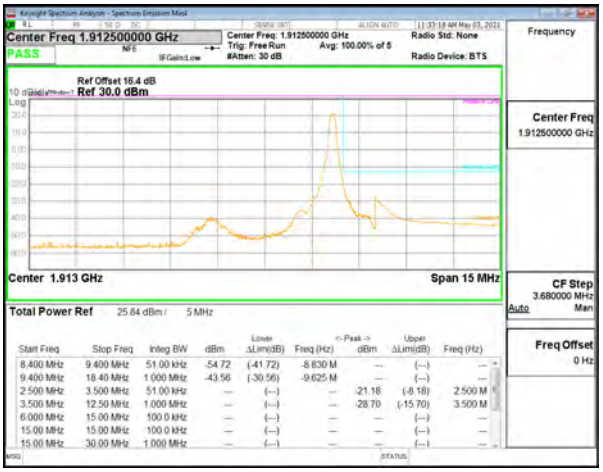
LTE B26 3MHz QPSK Low Channel RB15-0



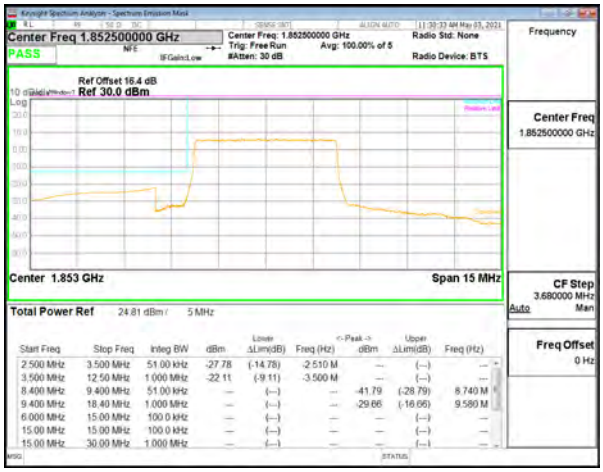
LTE B26 3MHz QPSK High Channel RB15-0



LTE B26 5MHz QPSK Low Channel RB1-0

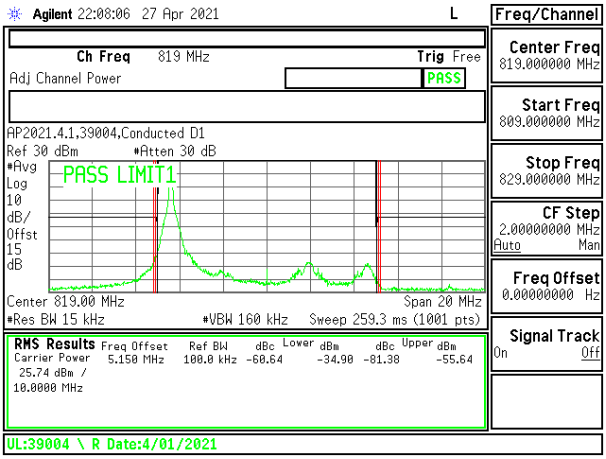


LTE B26 5MHz QPSK High Channel RB1-24

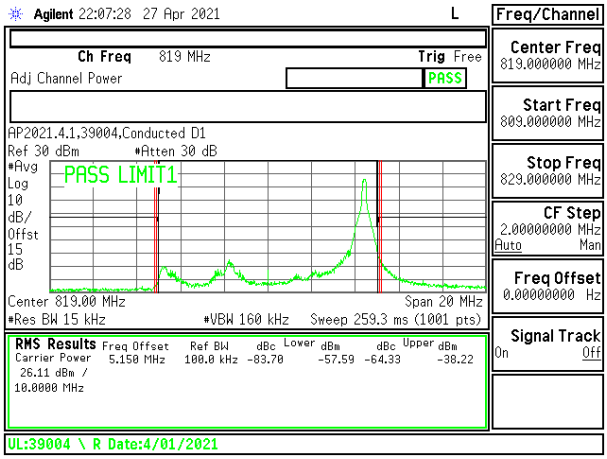


LTE B26 5MHz QPSK Low Channel RB25-0

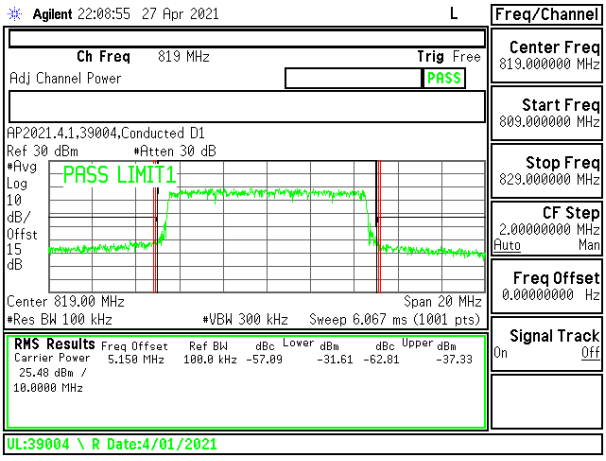
LTE B26 5MHz QPSK High Channel RB25-0



LTE B26 10MHz QPSK Middle Channel RB1-0



LTE B26 10MHz QPSK Middle Channel RB1-49



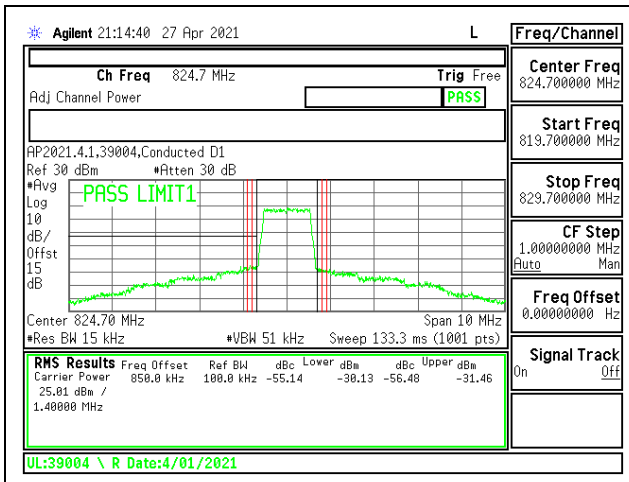
LTE B26 10MHz QPSK Middle Channel RB50-0

9.2.9. LTE BAND 26 ADJACENT CHANNEL POWER (PART 22)

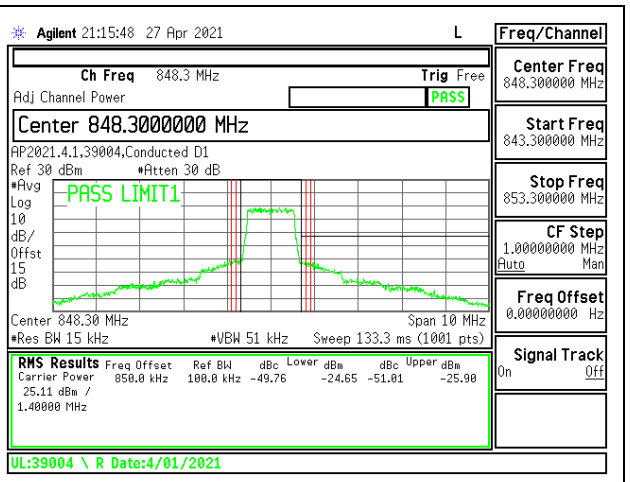
LIMITS

FCC: §22.917 (a)

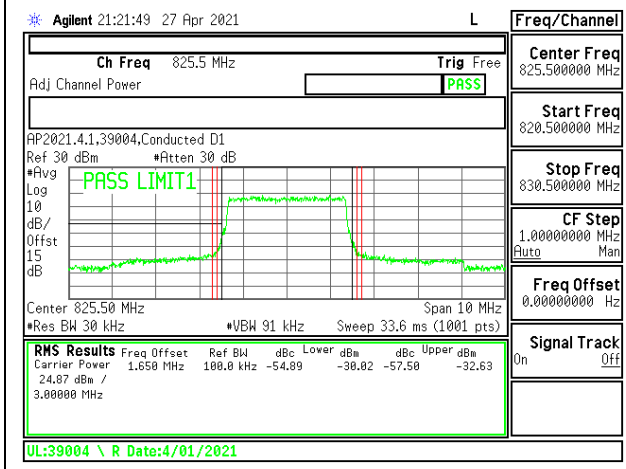
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log (P) dB.



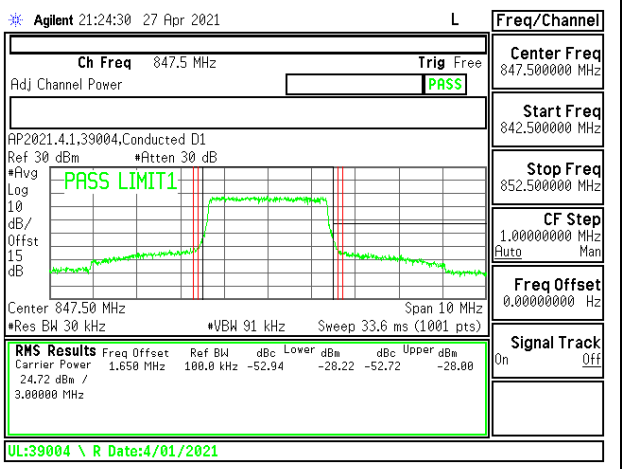
LTE B26 1.4MHz QPSK Low Channel RB6-0



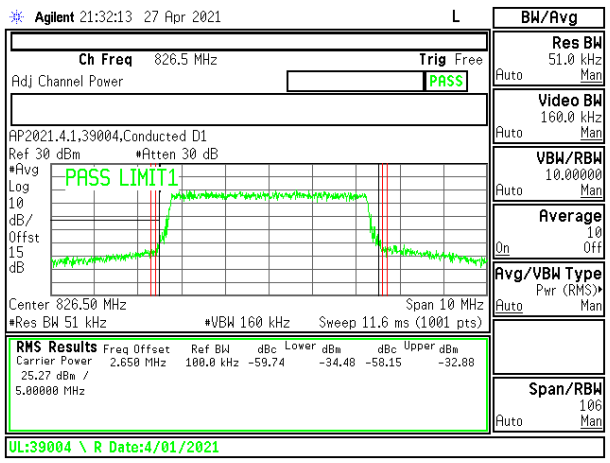
LTE B26 1.4MHz QPSK High Channel RB6-0



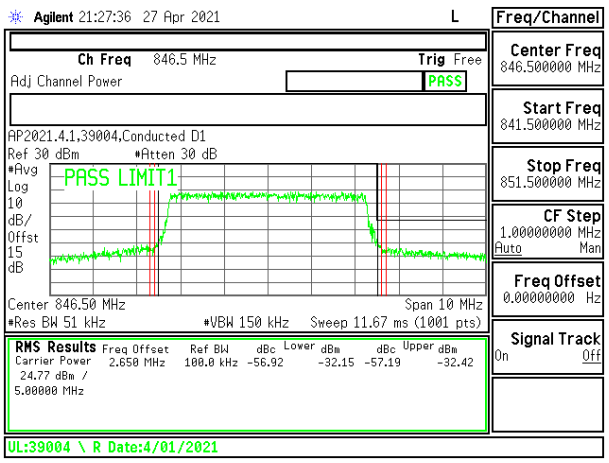
LTE B26 3MHz QPSK Low Channel RB15-0



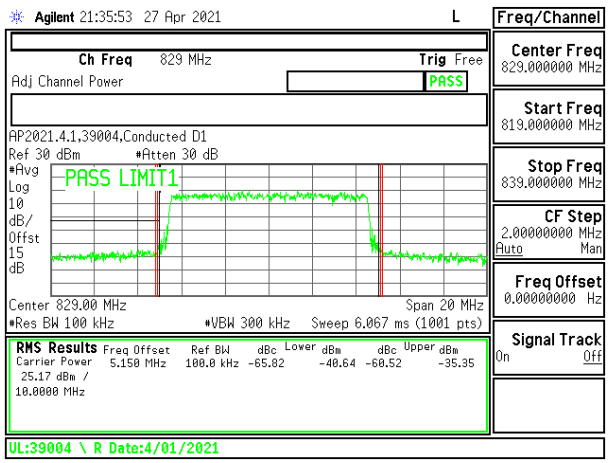
LTE B26 3MHz QPSK High Channel RB15-0



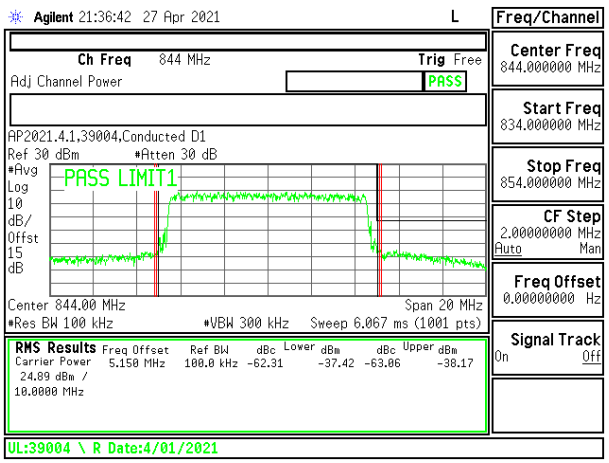
LTE B26 5MHz QPSK Low Channel RB25-0



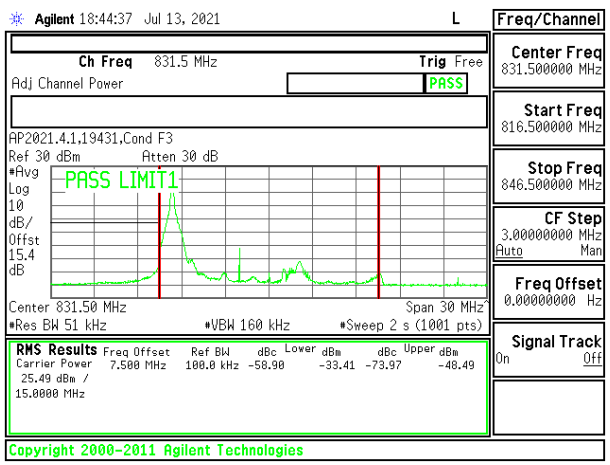
LTE B26 5MHz QPSK High Channel RB25-0



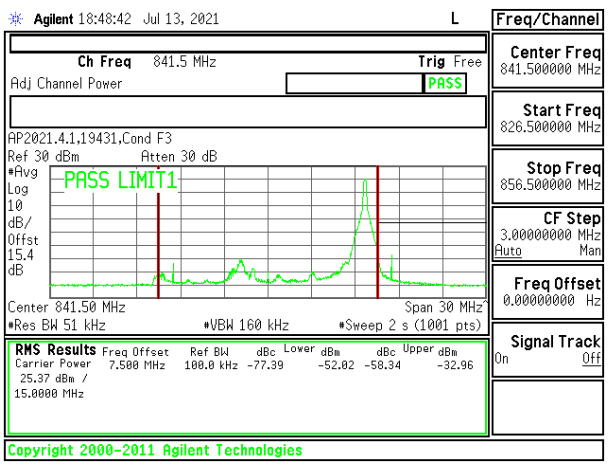
LTE B26 10MHz QPSK Low Channel RB50-0



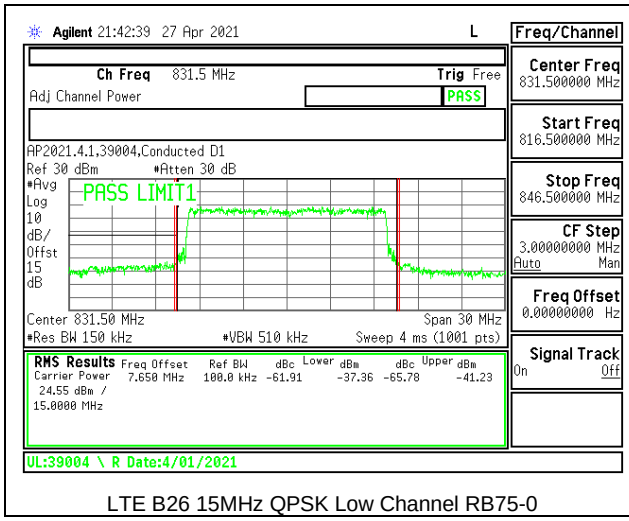
LTE B26 10MHz QPSK High Channel RB50-0



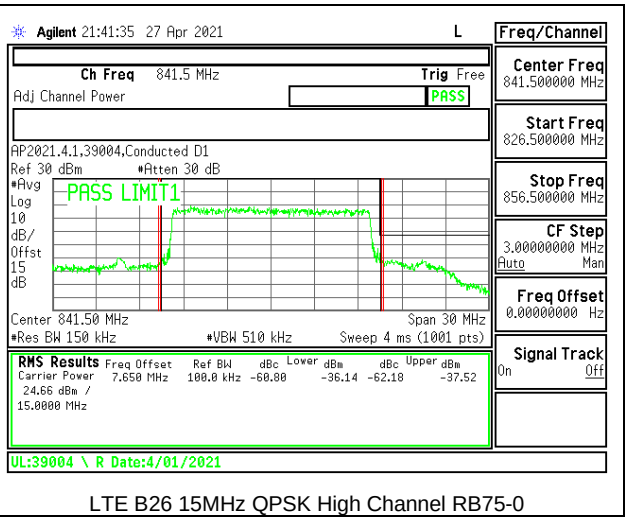
LTE B26 15MHz QPSK Low Channel RB1-0



LTE B26 15MHz QPSK High Channel RB1-74



LTE B26 15MHz QPSK Low Channel RB75-0



LTE B26 15MHz QPSK High Channel RB75-0

9.2.10. LTE BAND 30 ADJACENT CHANNEL POWER

LIMITS

FCC: §27.53
(a) For operations in the 2305-2320 MHz band and the 2345-2360 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power P (with averaging performed only during periods of transmission) within the licensed band(s) of operation, in watts, by the following amounts:

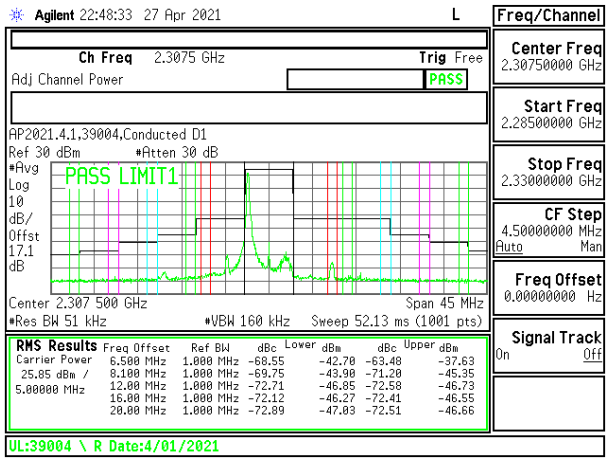
(4) For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:

(i) By a factor of not less than: 43 + 10 log (P) dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than 55 + 10 log (P) dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than 61 + 10 log (P) dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than 67 + 10 log (P) dB on all frequencies between 2328 and 2337 MHz;

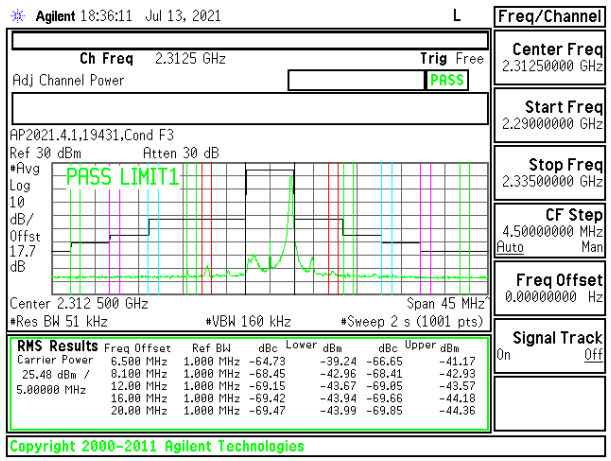
(ii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305 MHz, 55 + 10 log (P) dB on all frequencies between 2296 and 2300 MHz, 61 + 10 log (P) dB on all frequencies between 2292 and 2296 MHz, 67 + 10 log (P) dB on all frequencies between 2288 and 2292 MHz, and 70 + 10 log (P) dB below 2288 MHz;

(iii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2365 MHz, and not less than 70 + 10 log (P) dB above 2365 MHz.

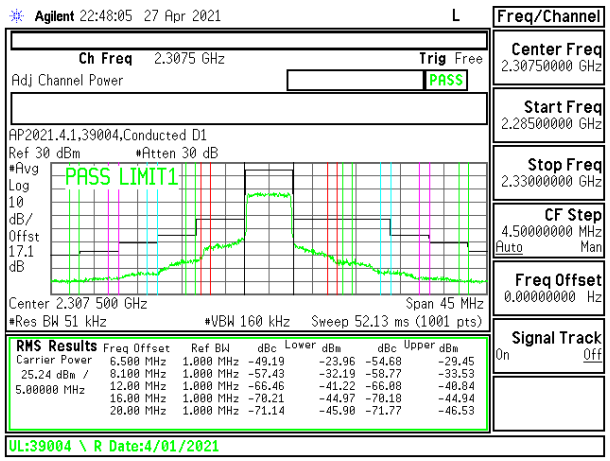
LTE BAND 30 ADJACENT CHANNEL POWER (IC)



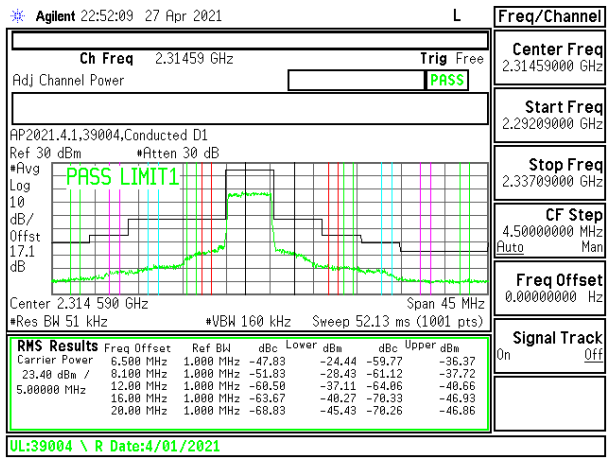
LTE B30 5MHz QPSK Low Channel RB1-0



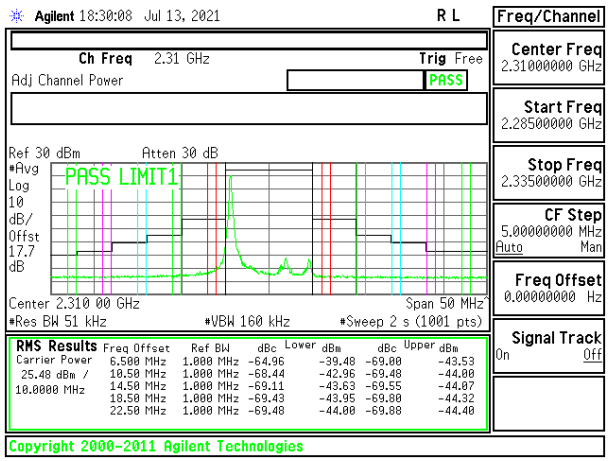
LTE B30 5MHz QPSK High Channel RB1-24



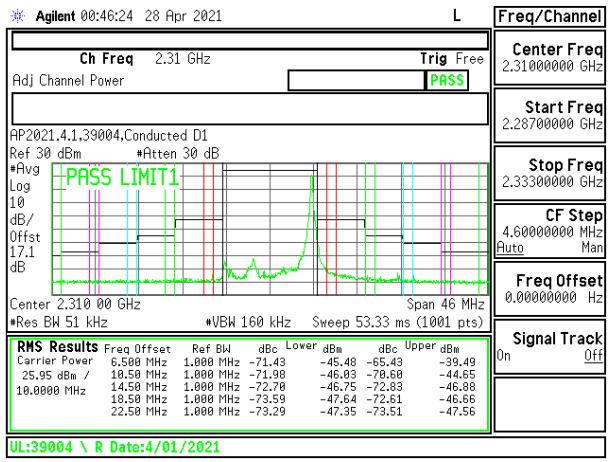
LTE B30 5MHz QPSK Low Channel RB25-0



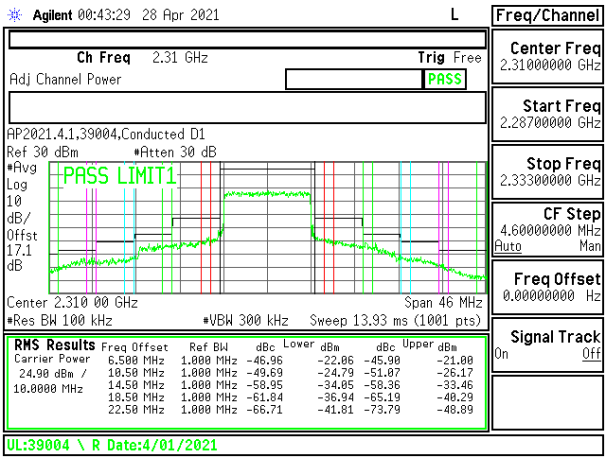
LTE B30 5MHz QPSK High Channel RB25-0



LTE B30 10MHz QPSK Middle Channel RB1-0

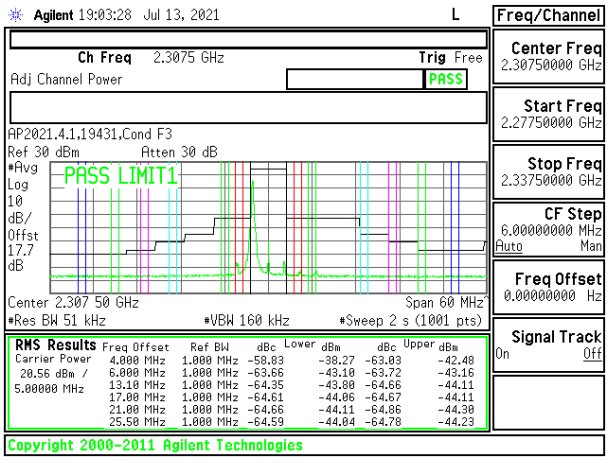


LTE B30 10MHz QPSK Middle Channel RB1-49

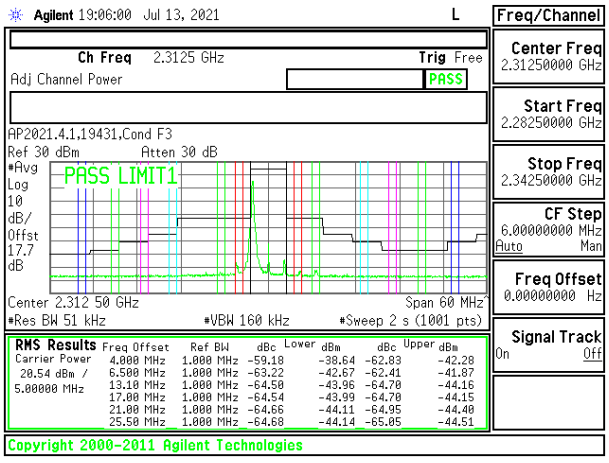


LTE B30 10MHz QPSK Middle Channel RB50-0

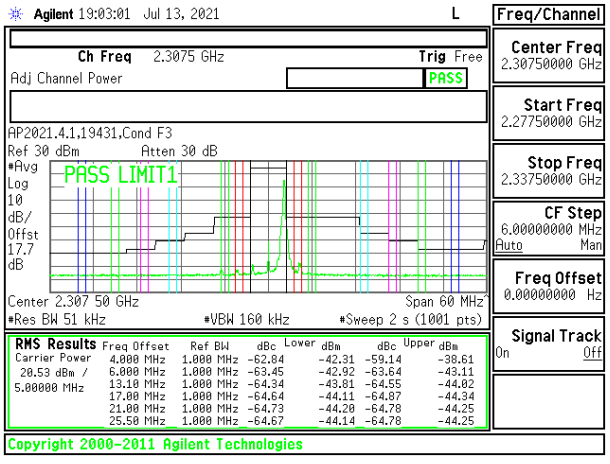
LTE 5G NR n30 ADJACENT CHANNEL POWER



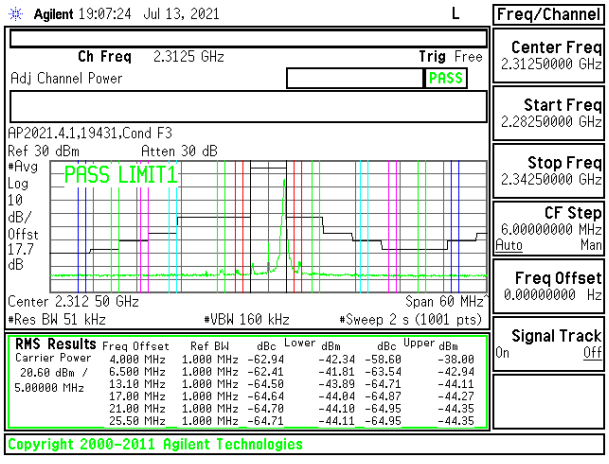
LTE 5G NR n30 5MHz BPSK Low Channel RB1-0



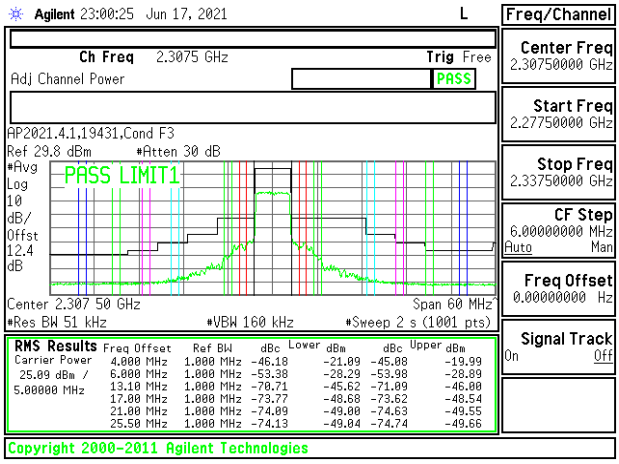
LTE 5G NR n30 5MHz BPSK High Channel RB1-0



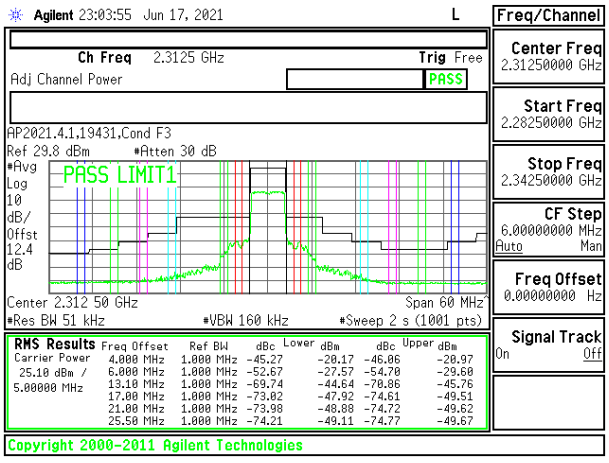
LTE 5G NR n30 5MHz BPSK Low Channel RB1-24



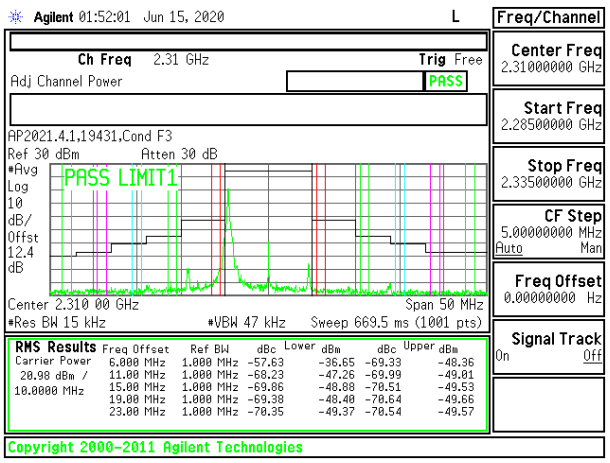
LTE 5G NR n30 5MHz BPSK High Channel RB1-24



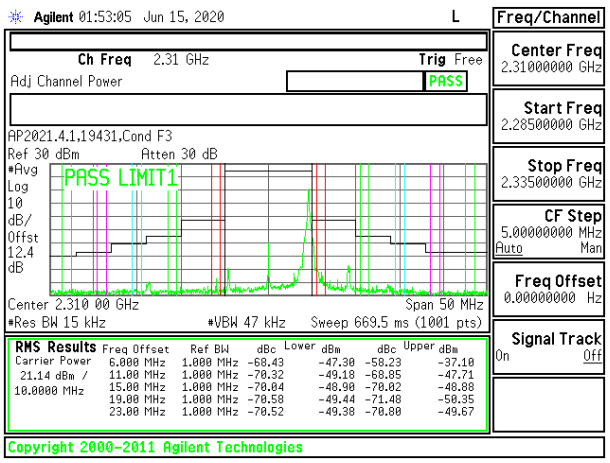
LTE 5G NR n30 5MHz BPSK Low Channel RB25-0



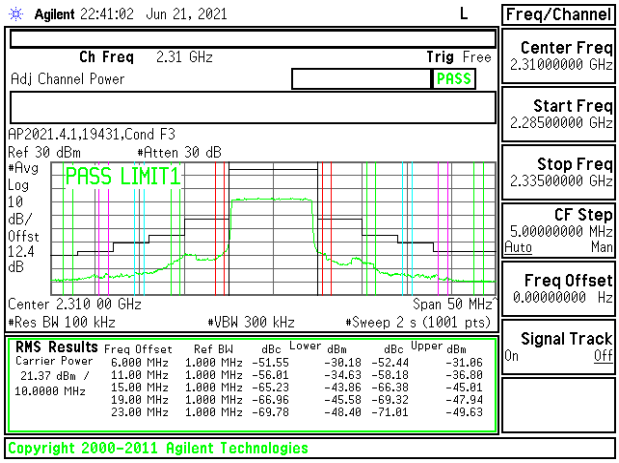
LTE 5G NR n30 5MHz BPSK High Channel RB25-0



LTE 5G NR n30 10MHz BPSK Middle Channel RB1-0



LTE 5G NR n30 10MHz BPSK Middle Channel RB1-51



LTE 5G NR n30 10MHz BPSK Middle Channel RB50-0

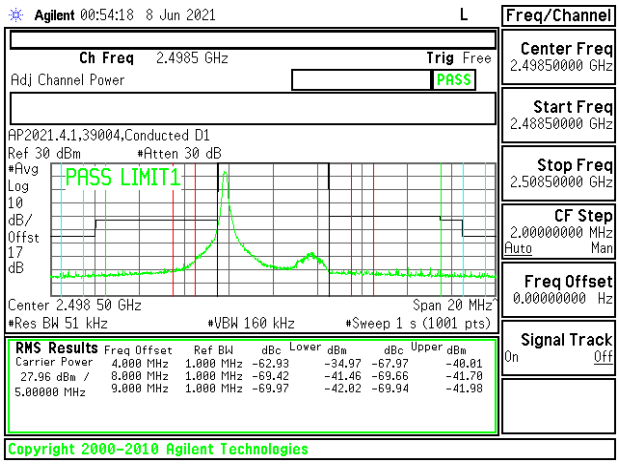
9.2.11. LTE BAND 41 AND 5G NR n41 ADJACENT CHANNEL POWER

LIMITS

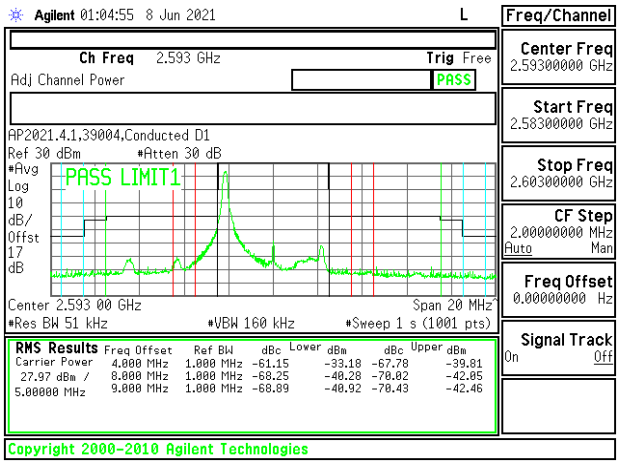
FCC: §27.53

(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 that 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.

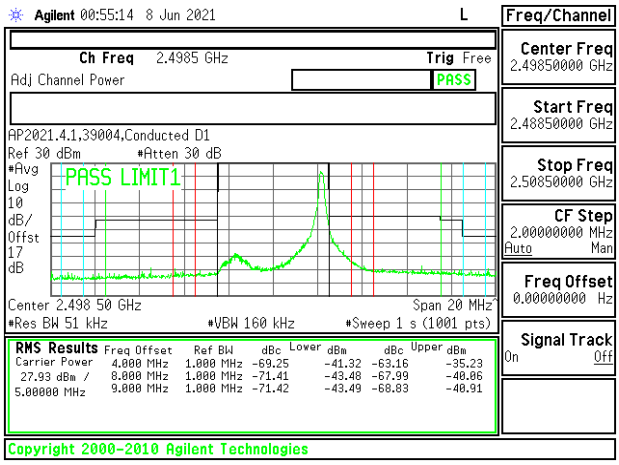
LTE BAND 41 ADJACENT CHANNEL POWER (FCC)



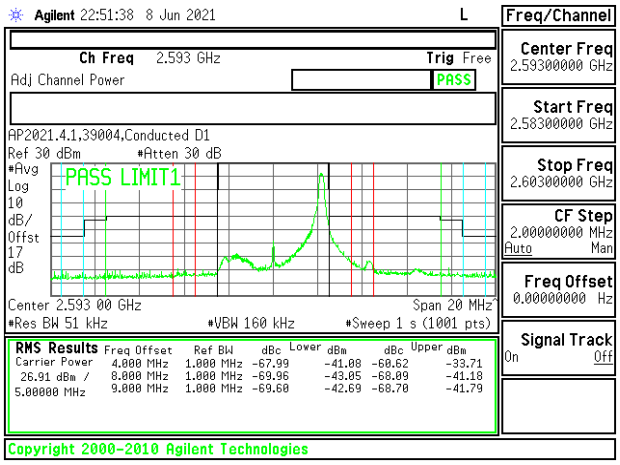
LTE B41 5MHz QPSK Low Channel RB1-0



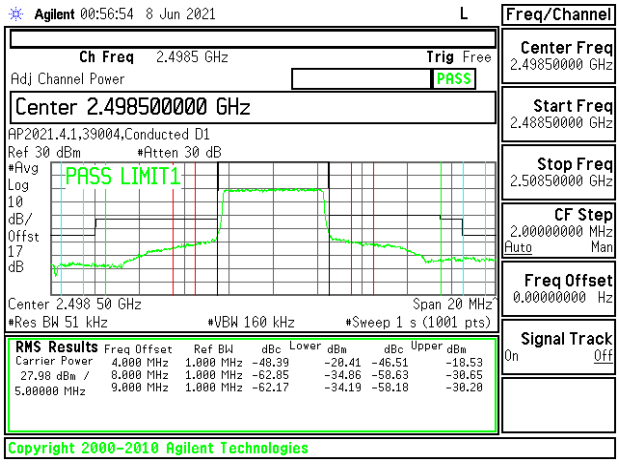
LTE B41 5MHz QPSK Middle Channel RB1-0



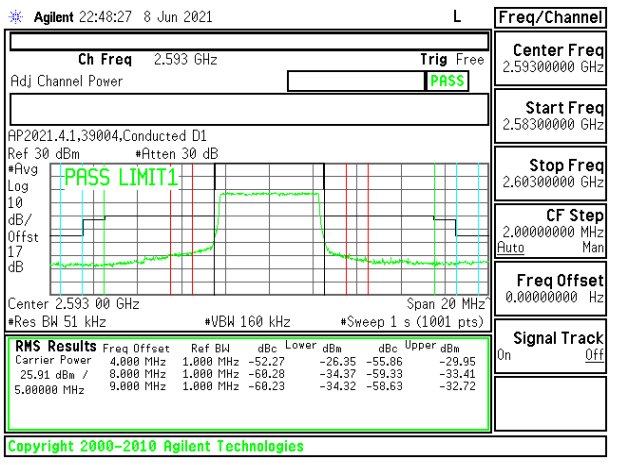
LTE B41 5MHz QPSK Low Channel RB1-24



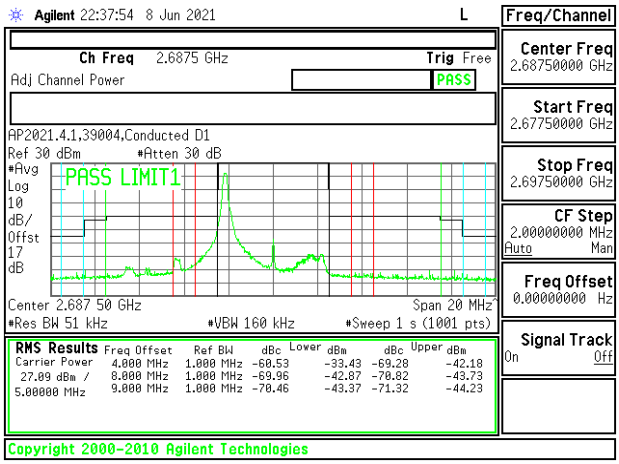
LTE B41 5MHz QPSK Middle Channel RB1-24



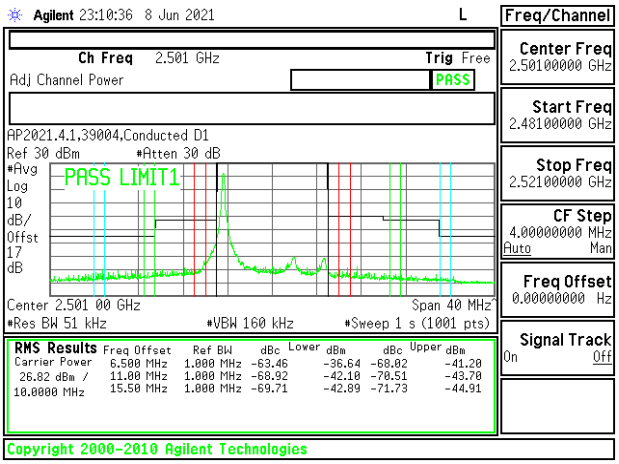
LTE B41 5MHz QPSK Low Channel RB25-0



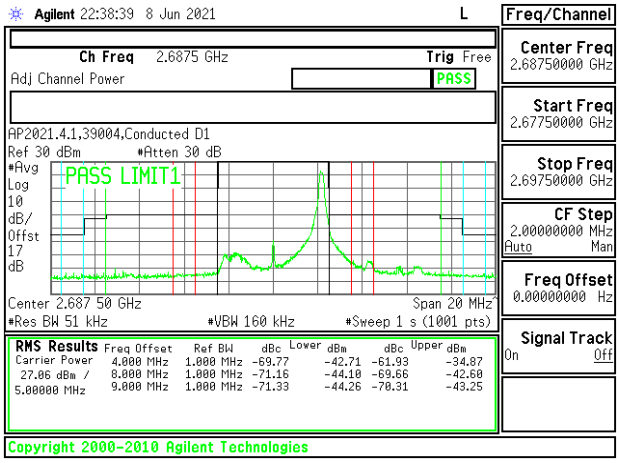
LTE B41 5MHz QPSK Middle Channel RB25-0



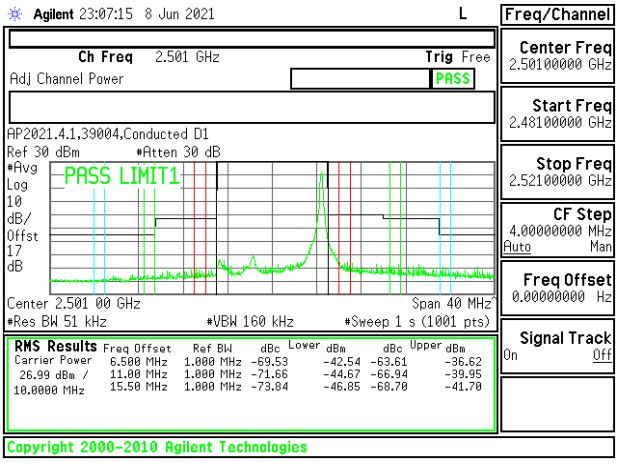
LTE B41 5MHz QPSK High Channel RB1-0



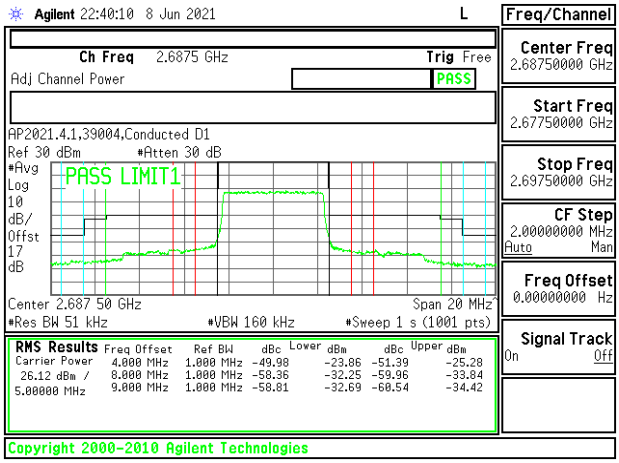
LTE B41 10MHz QPSK Low Channel RB1-0



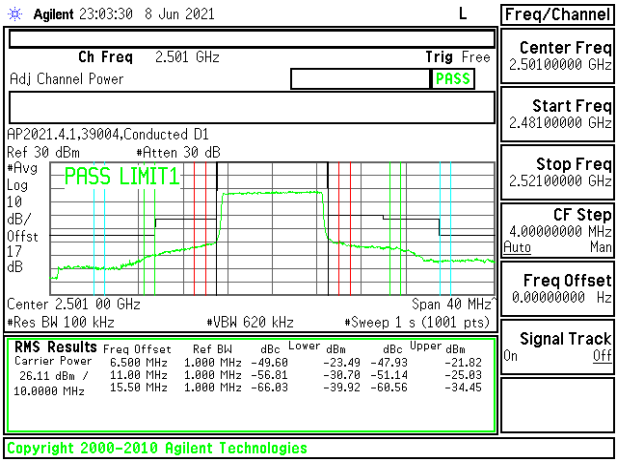
LTE B41 5MHz QPSK High Channel RB1-24



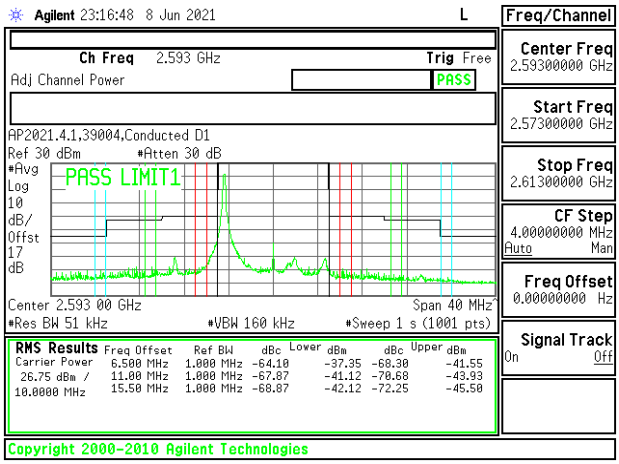
LTE B41 10MHz QPSK Low Channel RB1-49



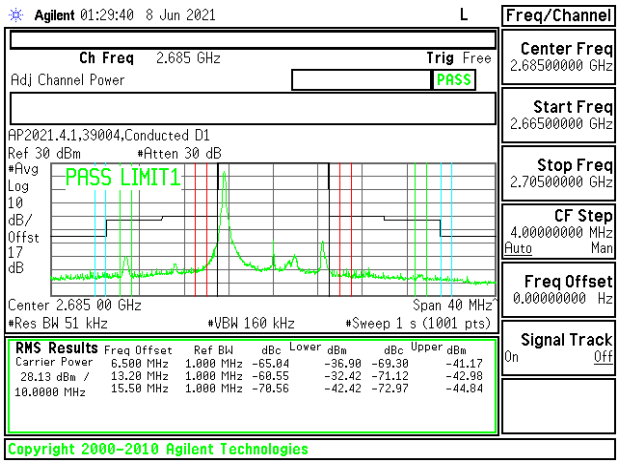
LTE B41 5MHz QPSK High Channel RB25-0



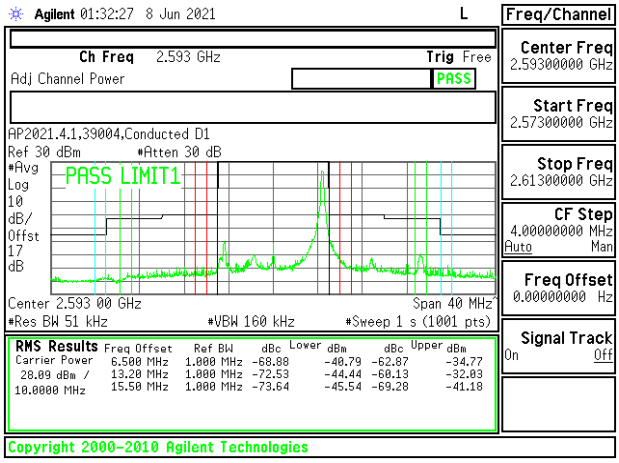
LTE B41 10MHz QPSK Low Channel RB50-0



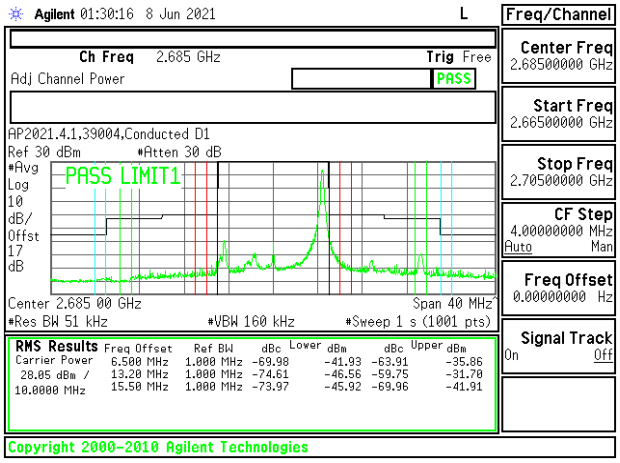
LTE B41 10MHz QPSK Middle Channel RB1-0



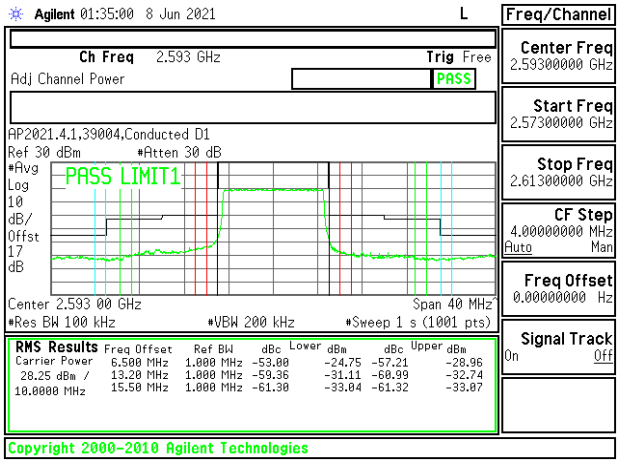
LTE B41 10MHz QPSK High Channel RB1-0



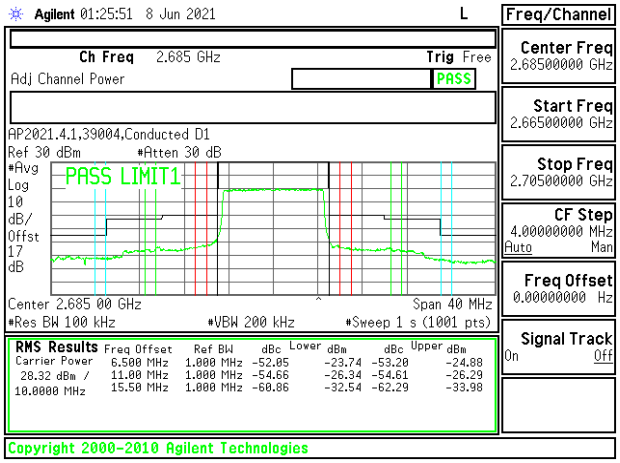
LTE B41 10MHz QPSK Middle Channel RB1-49



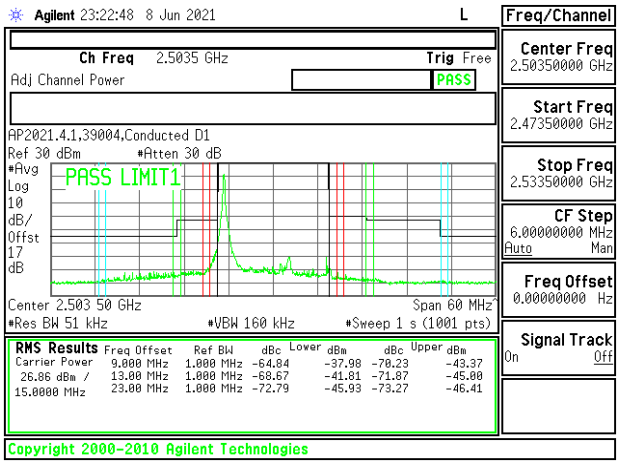
LTE B41 10MHz QPSK High Channel RB1-49



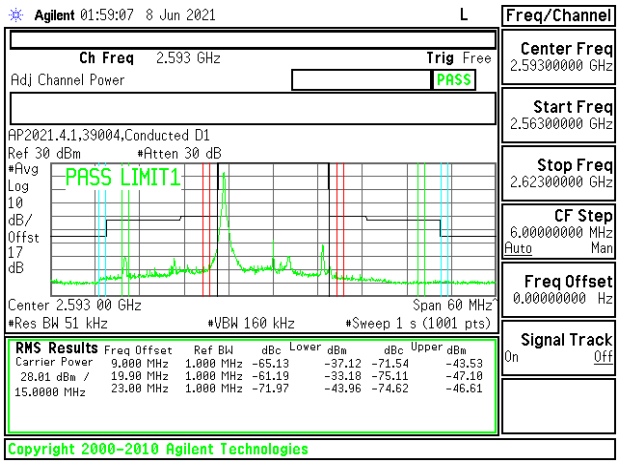
LTE B41 10MHz QPSK Middle Channel RB50-0



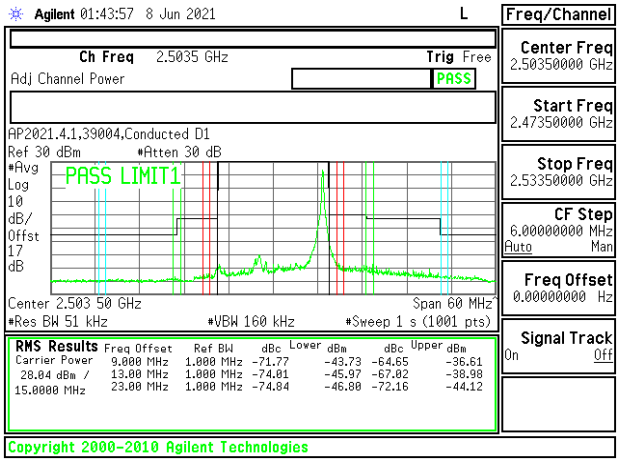
LTE B41 10MHz QPSK High Channel RB50-0



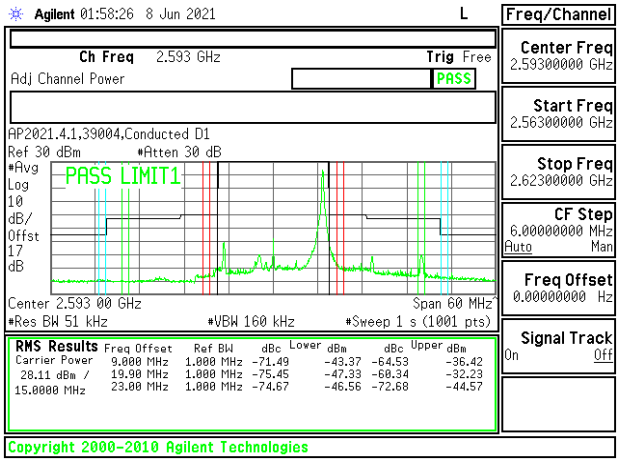
LTE B41 15MHz QPSK Low Channel RB1-0



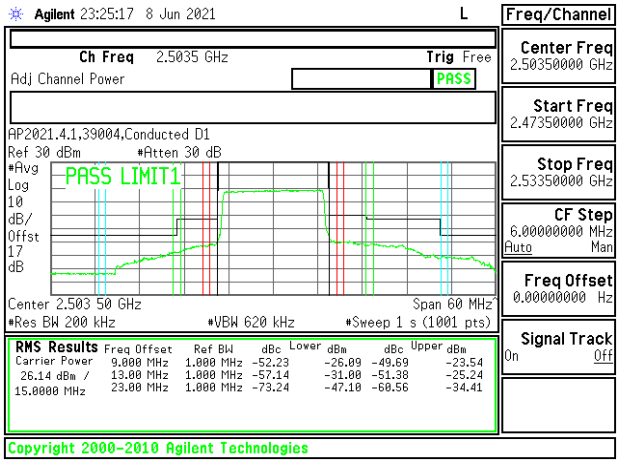
LTE B41 15MHz QPSK Middle Channel RB1-0



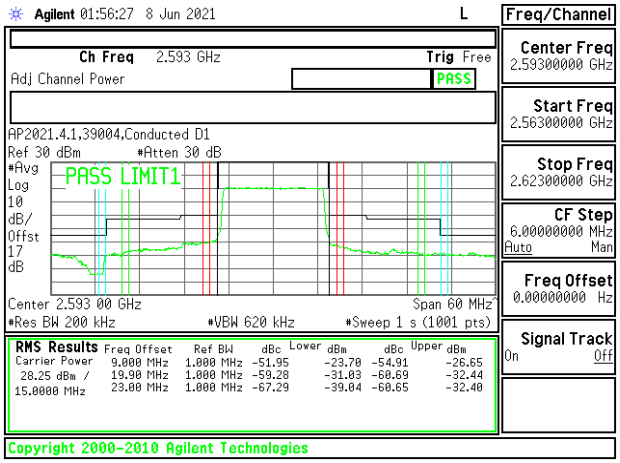
LTE B41 15MHz QPSK Low Channel RB1-74



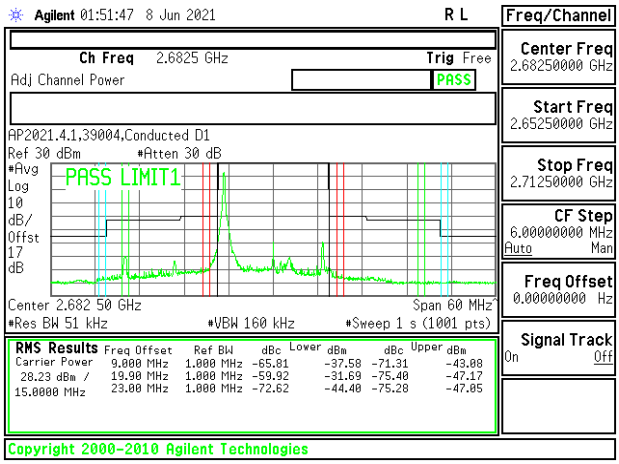
LTE B41 15MHz QPSK Middle Channel RB1-74



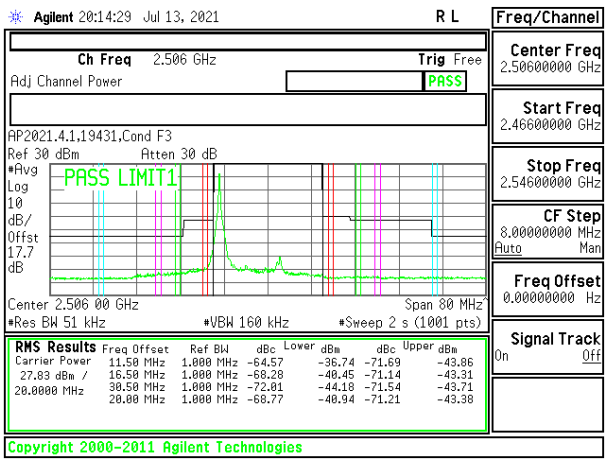
LTE B41 15MHz QPSK Low Channel RB75-0



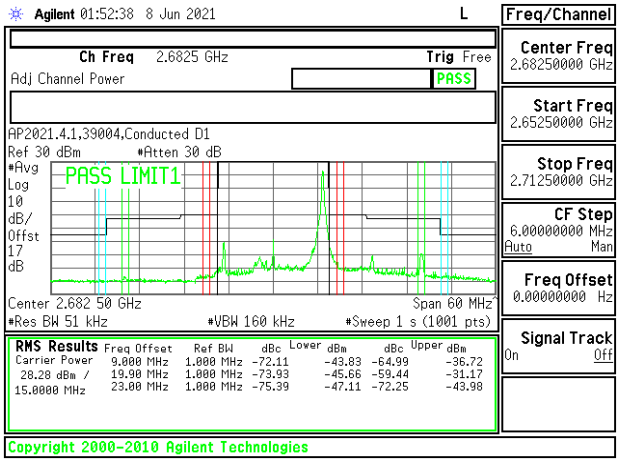
LTE B41 15MHz QPSK Middle Channel RB75-0



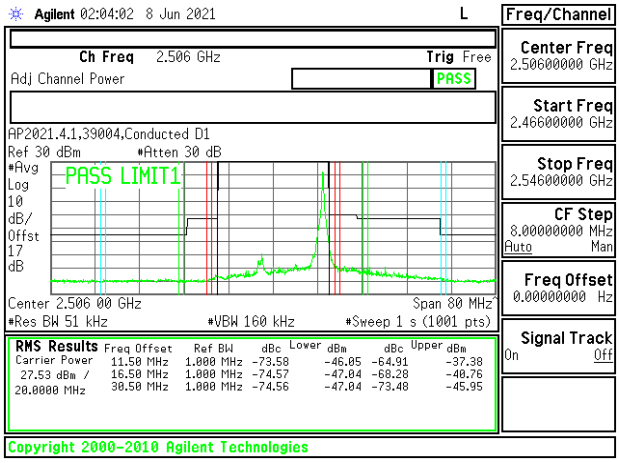
LTE B41 15MHz QPSK High Channel RB1-0



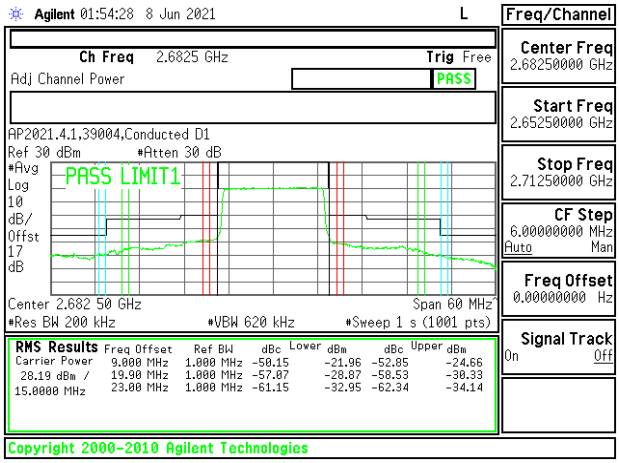
LTE B41 20MHz QPSK Low Channel RB1-0



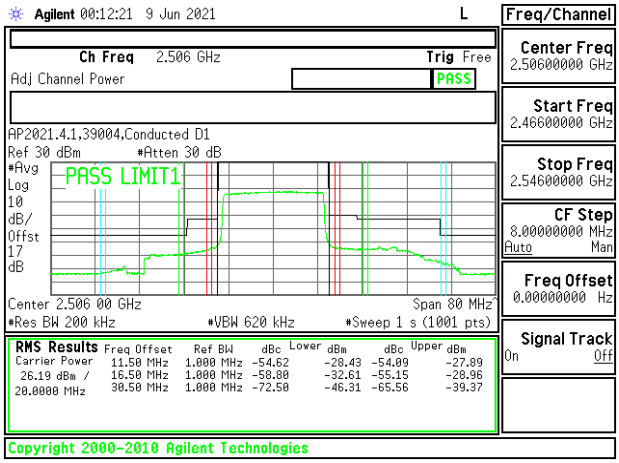
LTE B41 15MHz QPSK High Channel RB1-74



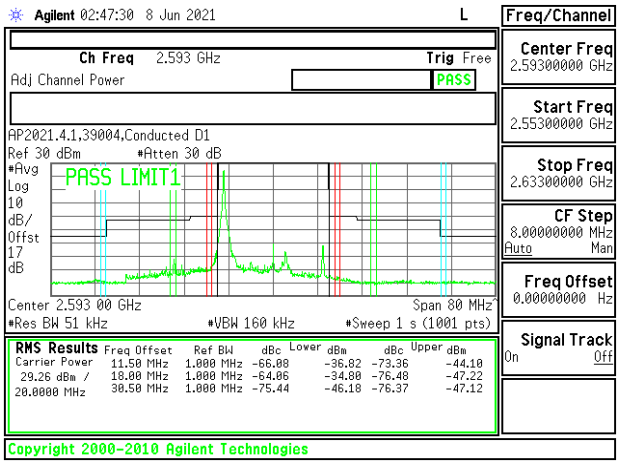
LTE B41 20MHz QPSK Low Channel RB1-99



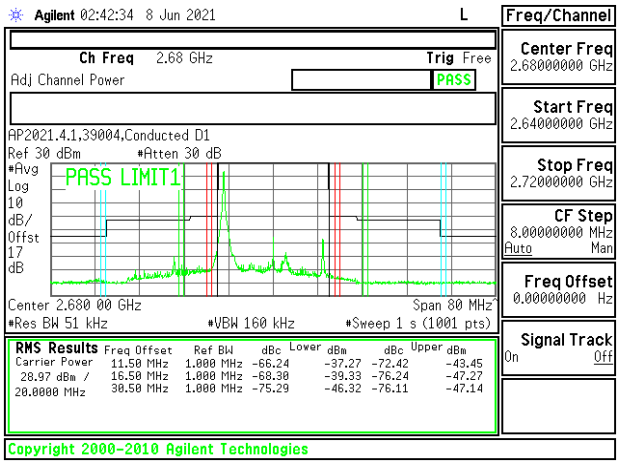
LTE B41 15MHz QPSK High Channel RB75-0



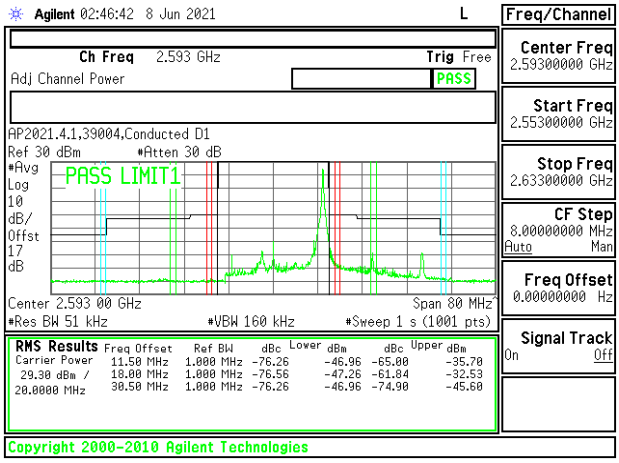
LTE B41 20MHz QPSK Low Channel RB100-0



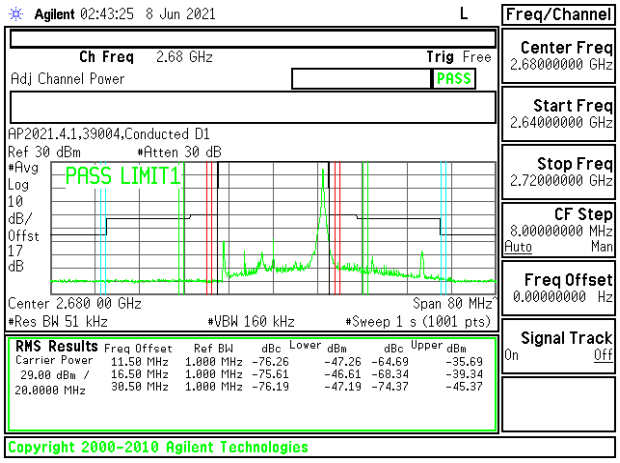
LTE B41 20MHz QPSK Middle Channel RB1-0



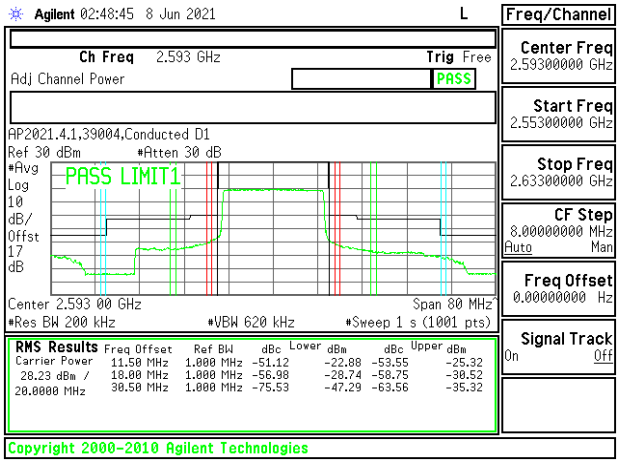
LTE B41 20MHz QPSK High Channel RB1-0



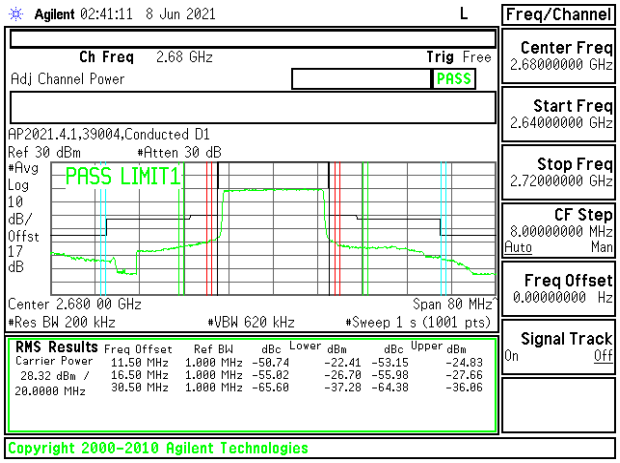
LTE B41 20MHz QPSK Middle Channel RB1-99



LTE B41 20MHz QPSK High Channel RB1-99

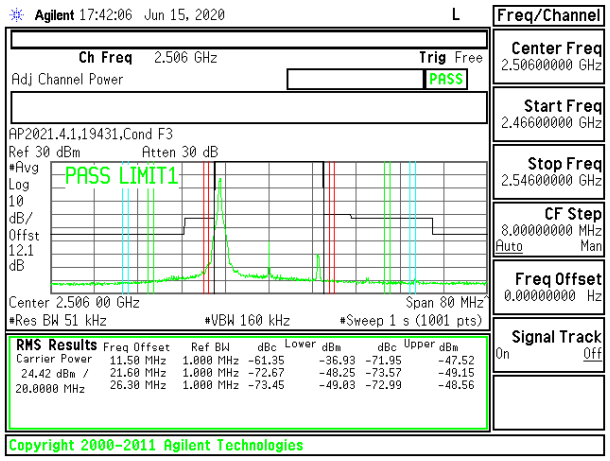


LTE B41 20MHz QPSK Middle Channel RB100-0

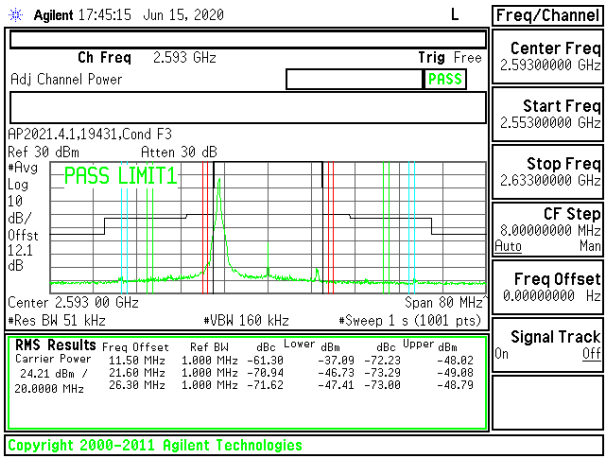


LTE B41 20MHz QPSK High Channel RB100-0

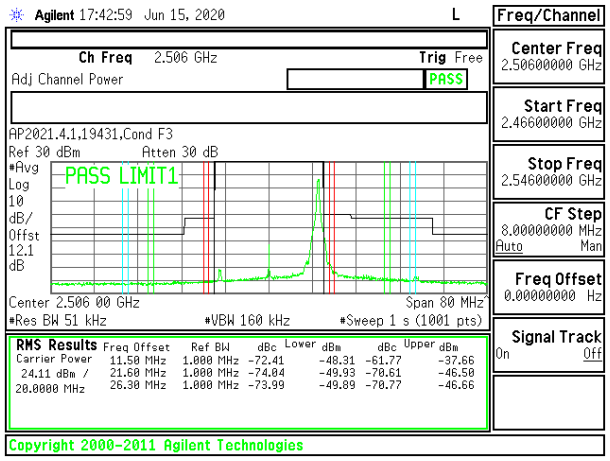
5G NR n41 ADJACENT CHANNEL POWER (FCC)



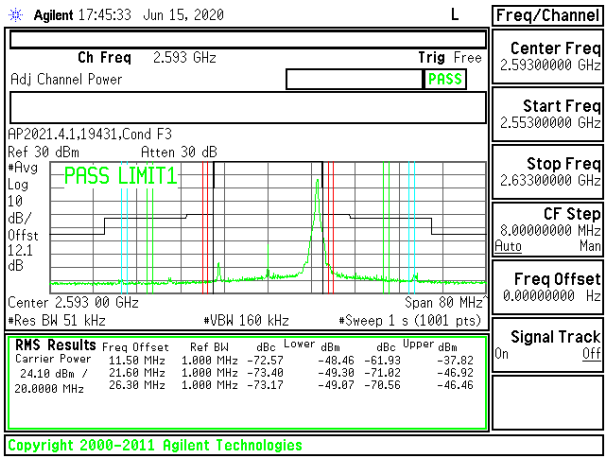
5G NR n41 20MHz BPSK Low Channel RB1-0



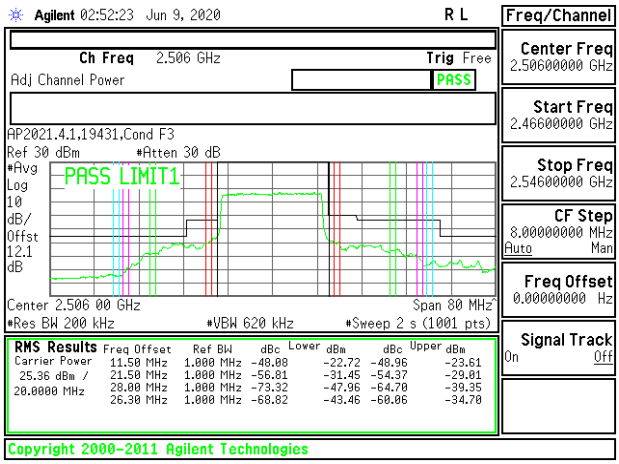
5G NR n41 20MHz BPSK Middle Channel RB1-0



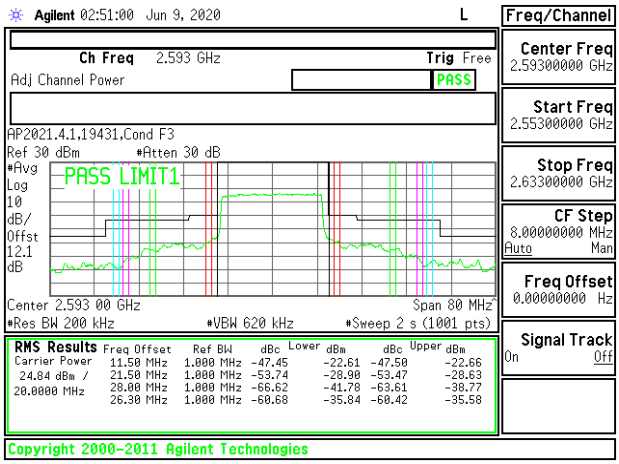
5G NR n41 20MHz BPSK Low Channel RB1-50



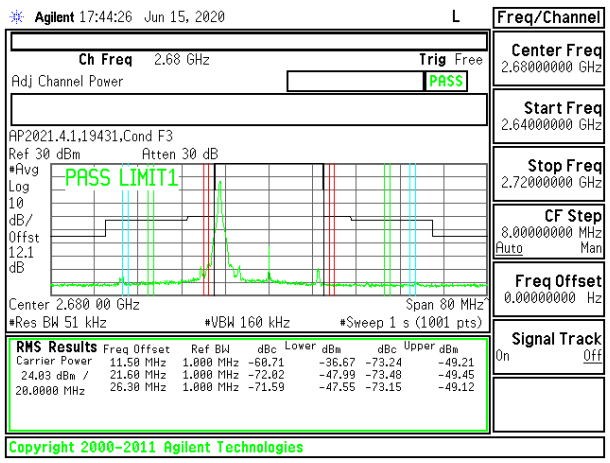
5G NR n41 20MHz BPSK Middle Channel RB1-50



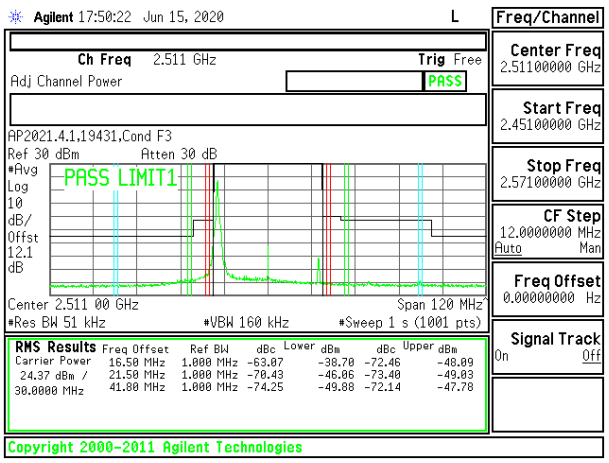
5G NR n41 20MHz BPSK Low Channel RB50-0



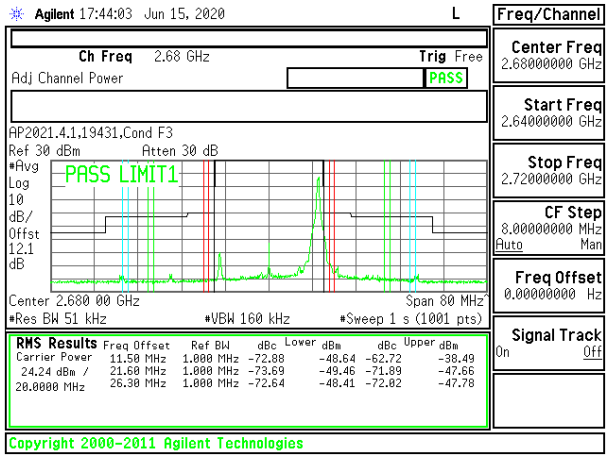
5G NR n41 20MHz BPSK Middle Channel RB50-0



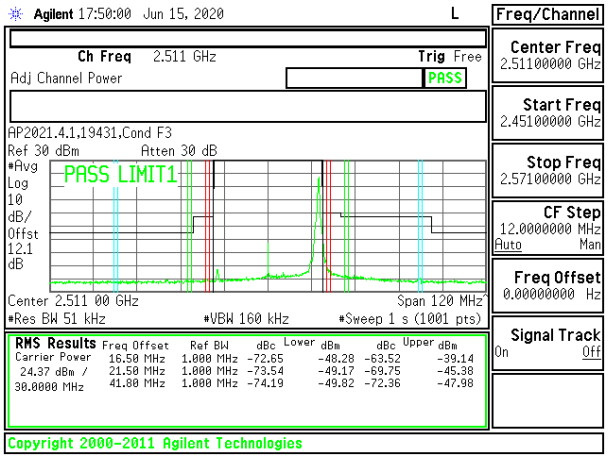
5G NR n41 20MHz BPSK High Channel RB1-0



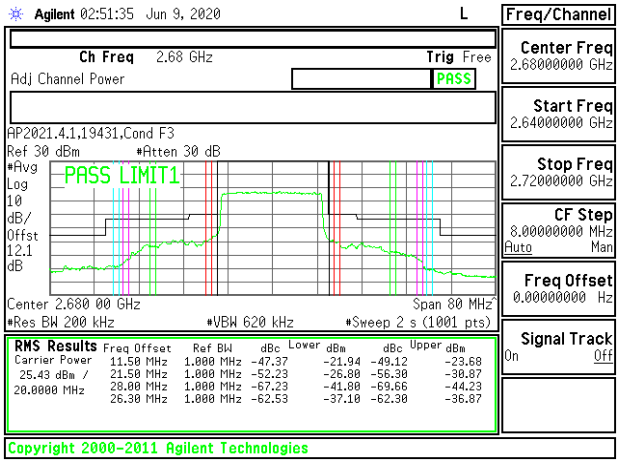
5G NR n41 30MHz BPSK Low Channel RB1-0



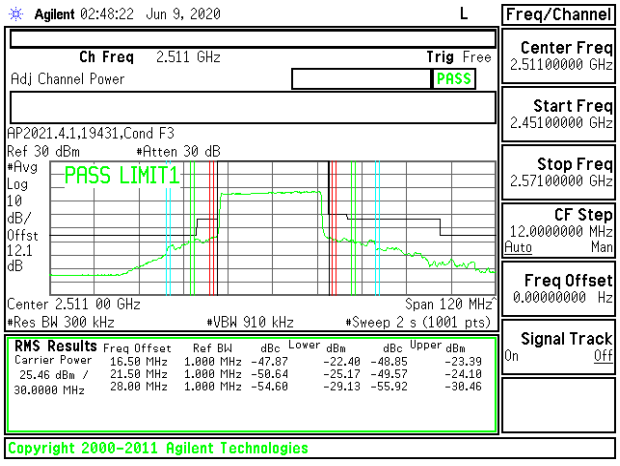
5G NR n41 20MHz BPSK High Channel RB1-50



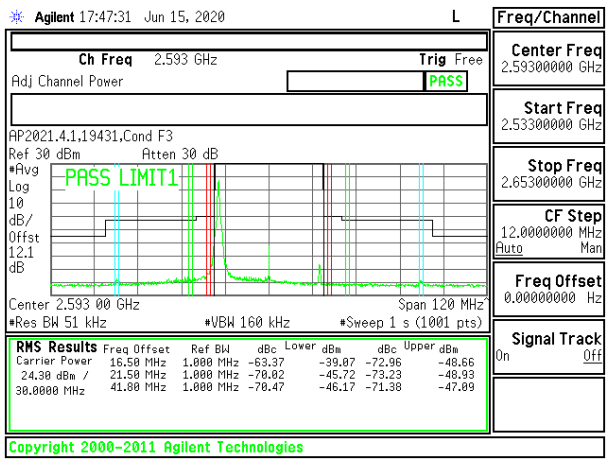
5G NR n41 30MHz BPSK Low Channel RB1-77



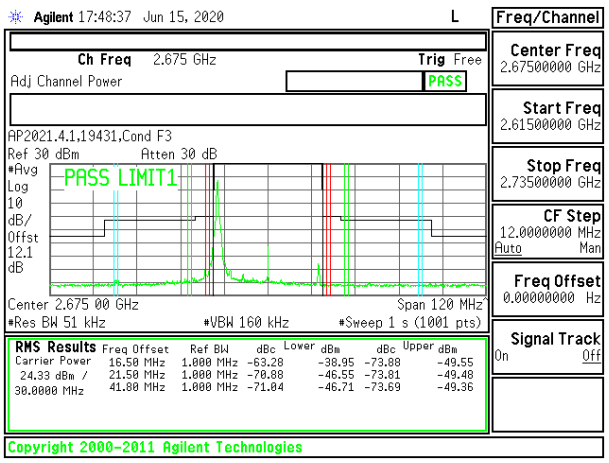
5G NR n41 20MHz BPSK High Channel RB50-0



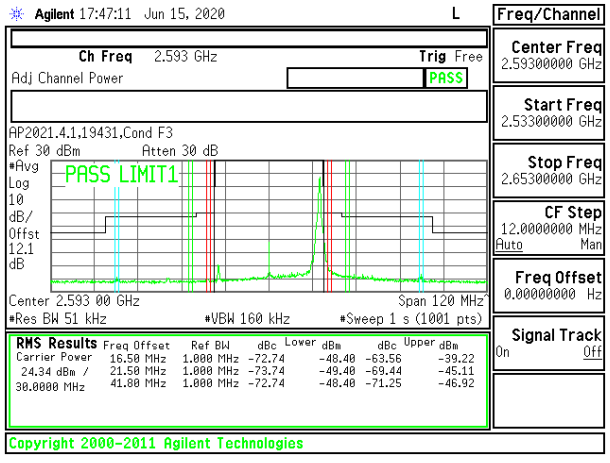
5G NR n41 30MHz BPSK Low Channel RB75-0



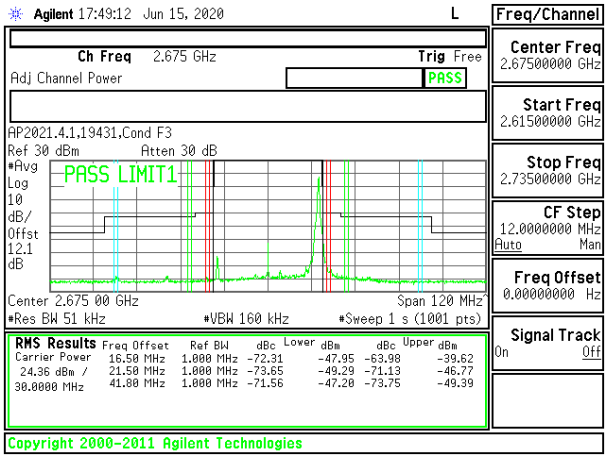
5G NR n41 30MHz BPSK Middle Channel RB1-0



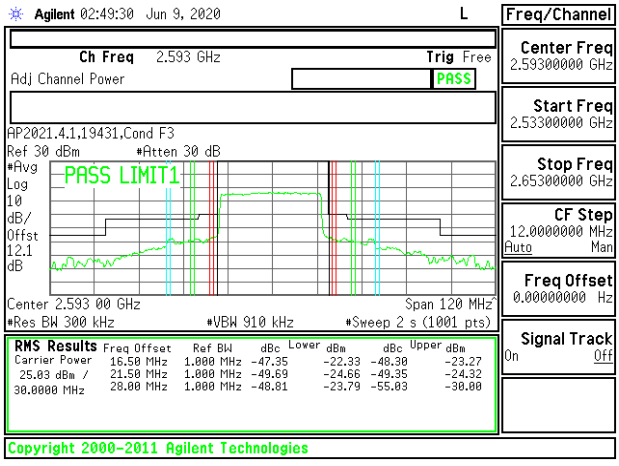
5G NR n41 30MHz BPSK High Channel RB1-0



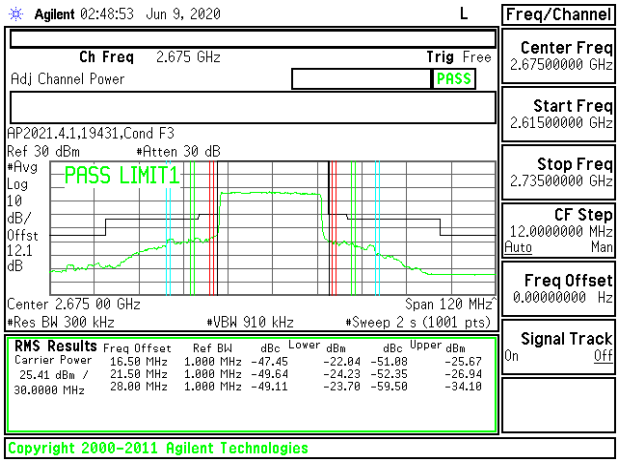
5G NR n41 30MHz BPSK Middle Channel RB1-77



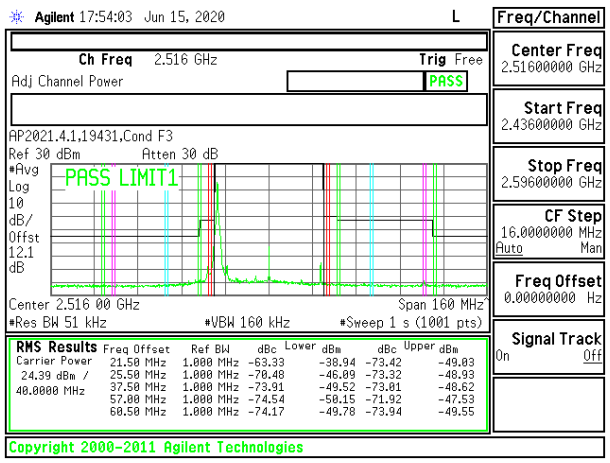
5G NR n41 30MHz BPSK High Channel RB1-77



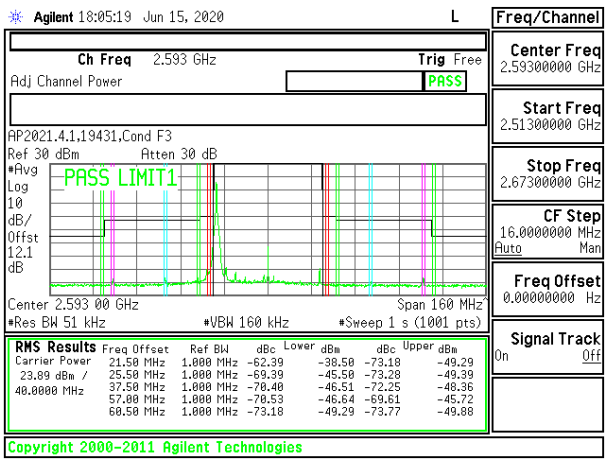
5G NR n41 30MHz BPSK Middle Channel RB75-0



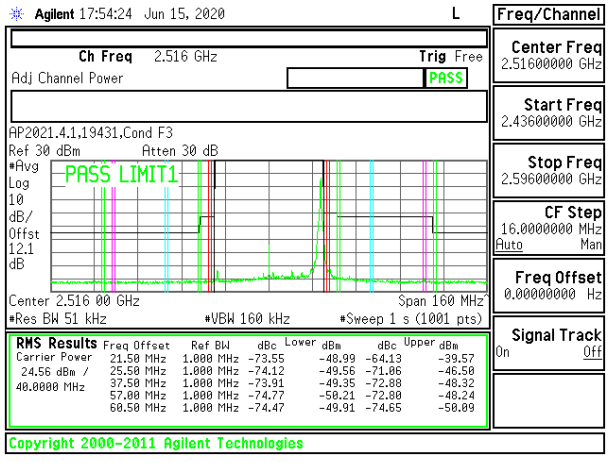
5G NR n41 30MHz BPSK High Channel RB75-0



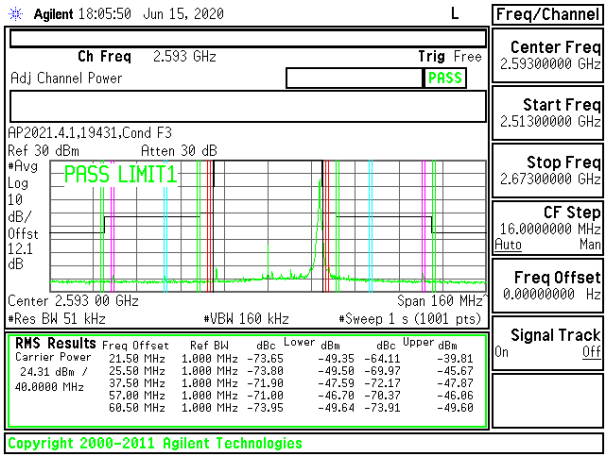
5G NR n41 40MHz BPSK Low Channel RB1-0



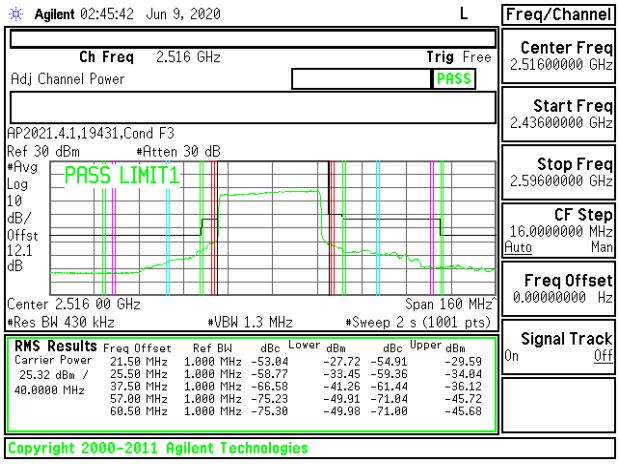
5G NR n41 40MHz BPSK Middle Channel RB1-0



5G NR n41 40MHz BPSK Low Channel RB1-105



5G NR n41 40MHz BPSK Middle Channel RB1-105



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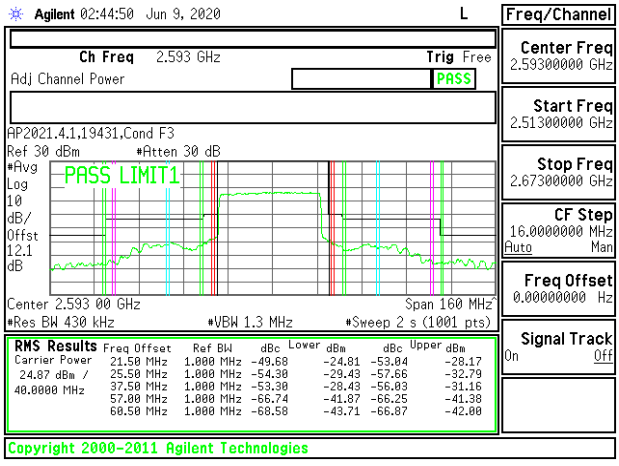
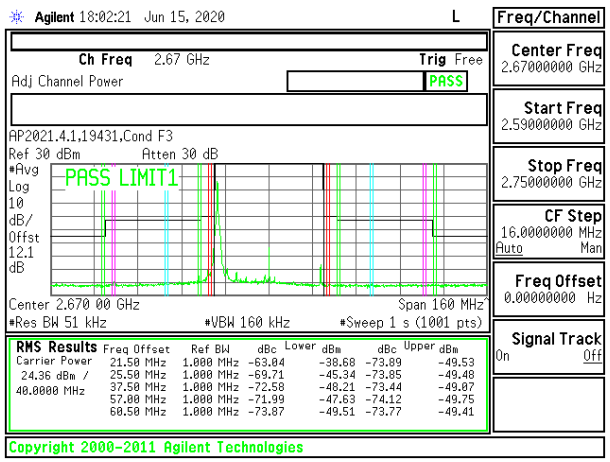
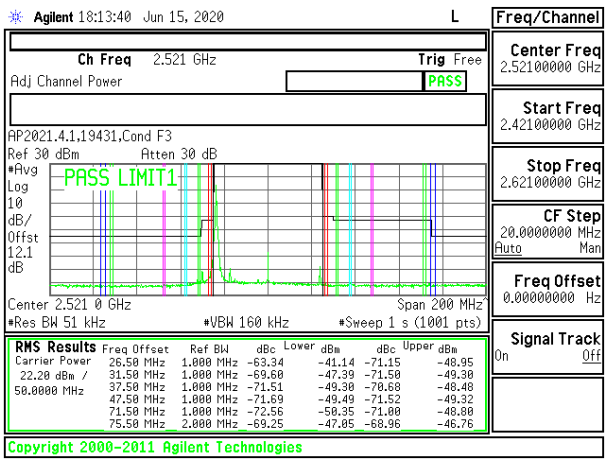


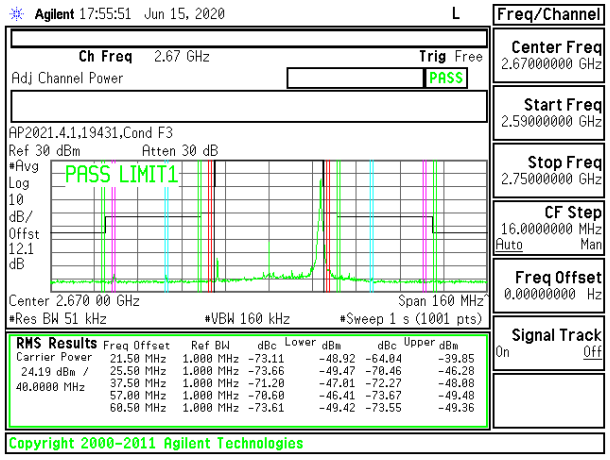
5G NR n41 40MHz BPSK Middle Channel RB100-0



5G NR n41 40MHz BPSK High Channel RB1-0



5G NR n41 50MHz BPSK Low Channel RB1-0



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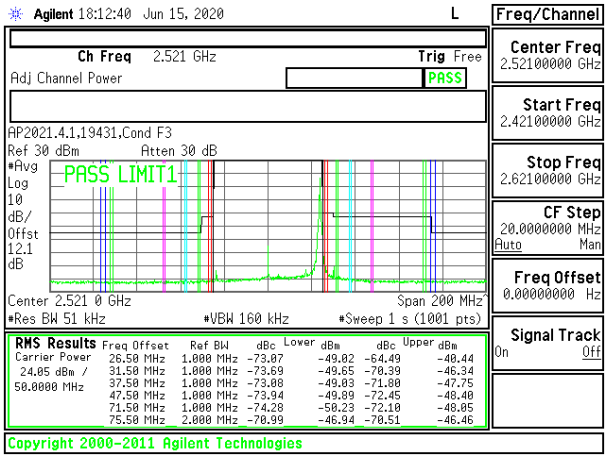
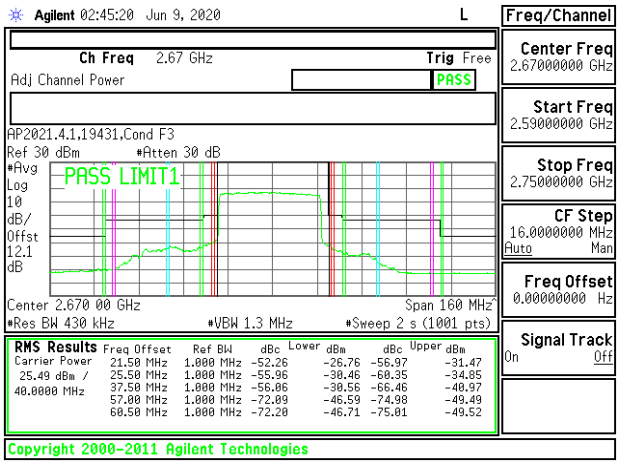
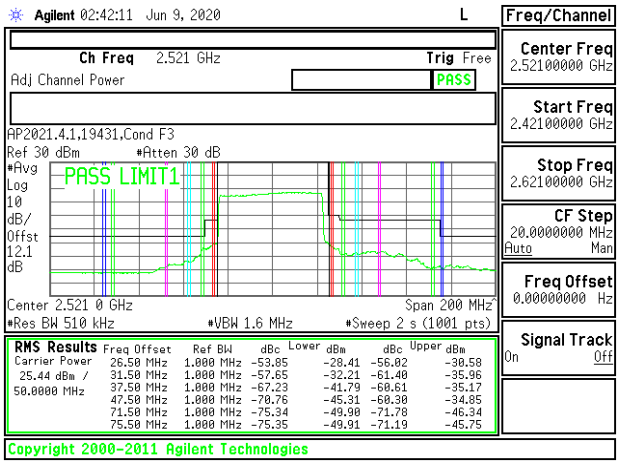


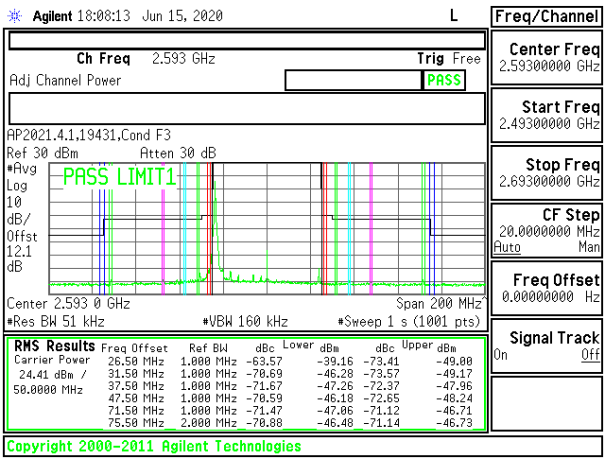
5G NR n41 50MHz BPSK Low Channel RB1-132



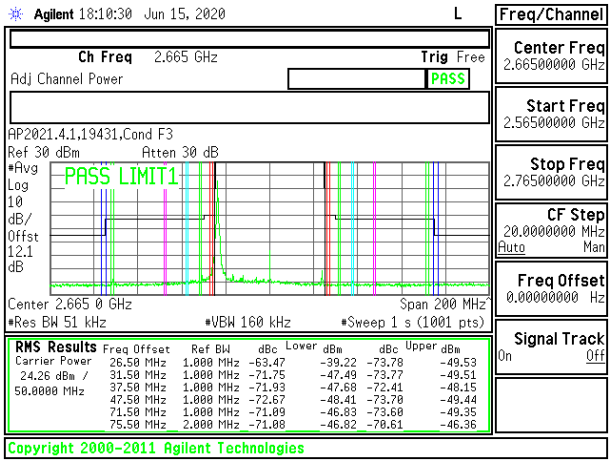
5G NR n41 40MHz BPSK High Channel RB100-0



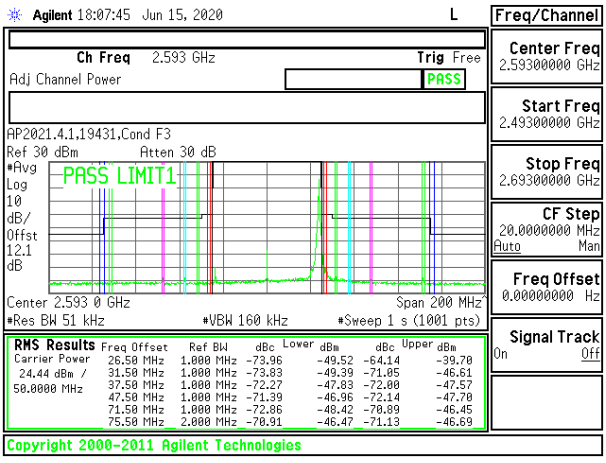
5G NR n41 50MHz BPSK Low Channel RB128-0



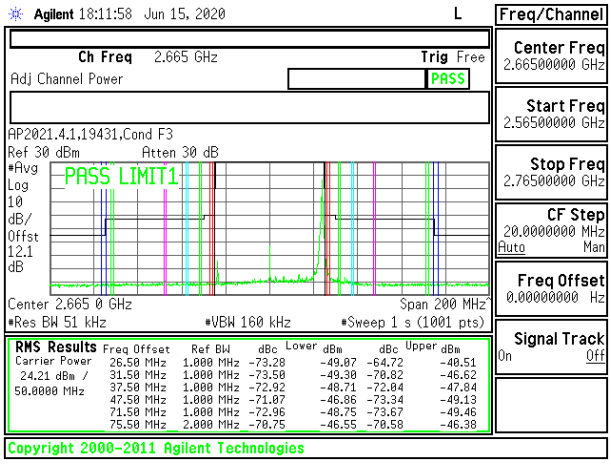
5G NR n41 50MHz BPSK Middle Channel RB1-0



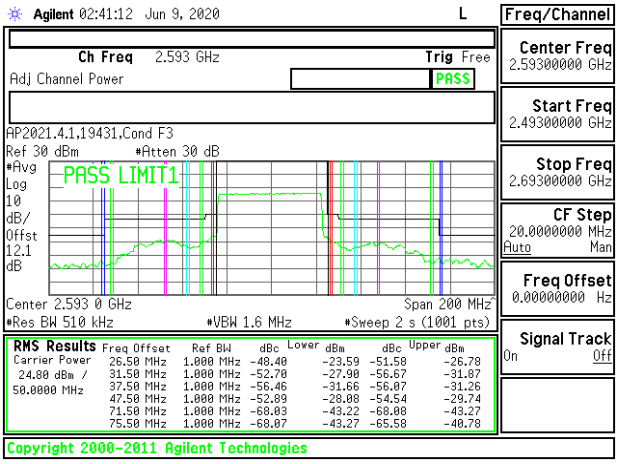
5G NR n41 50MHz BPSK High Channel RB1-0



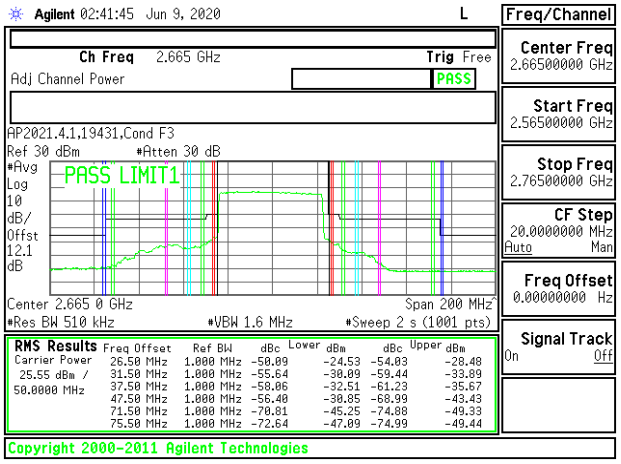
5G NR n41 50MHz BPSK Middle Channel RB1-132



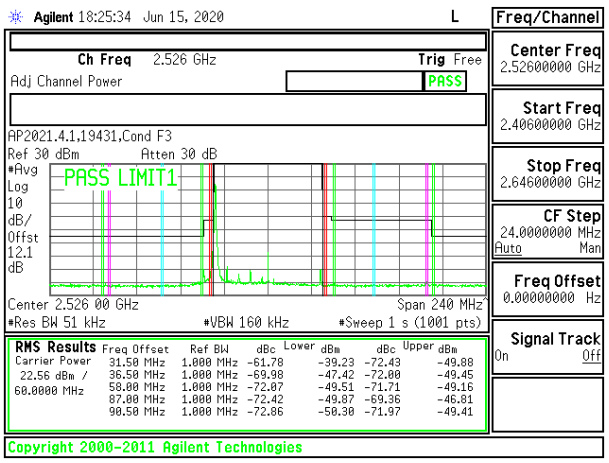
5G NR n41 50MHz BPSK High Channel RB1-132



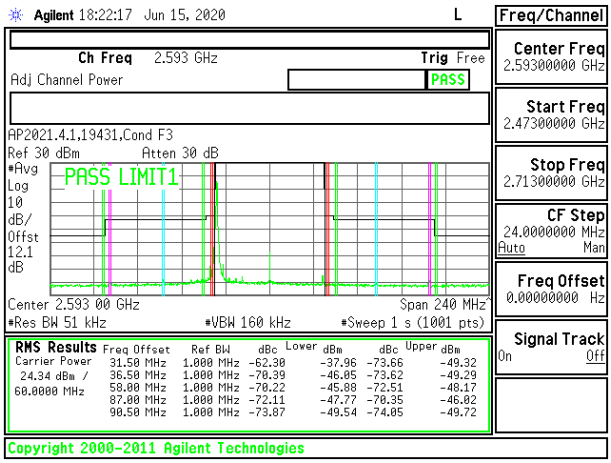
5G NR n41 50MHz BPSK Middle Channel RB128-0



5G NR n41 50MHz BPSK High Channel RB128-0



5G NR n41 60MHz BPSK Low Channel RB1-0



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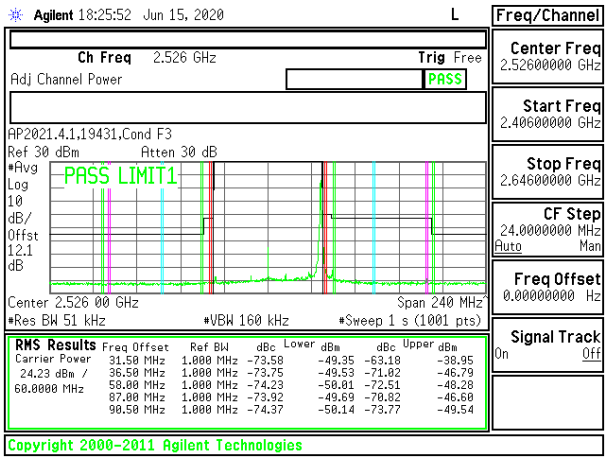

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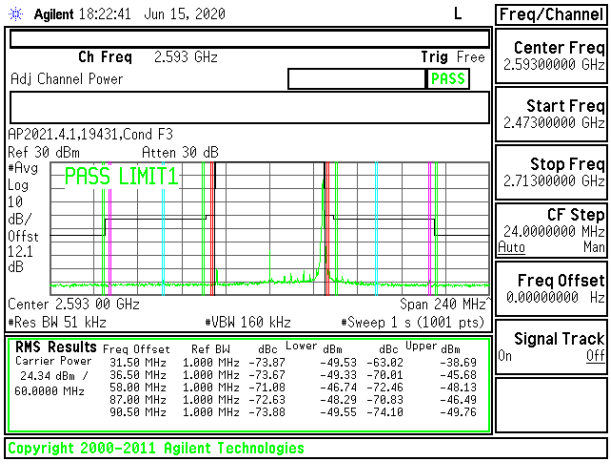

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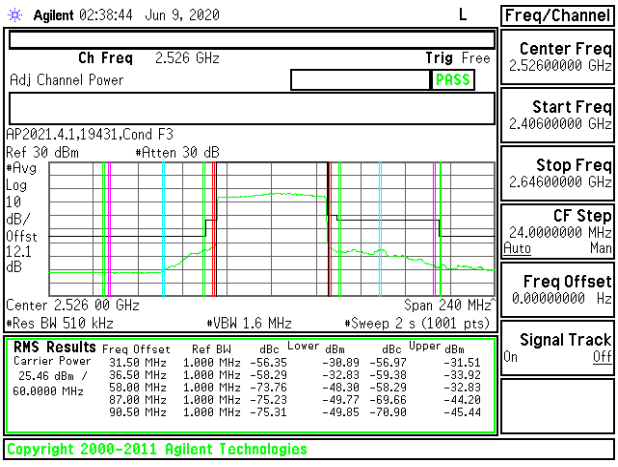
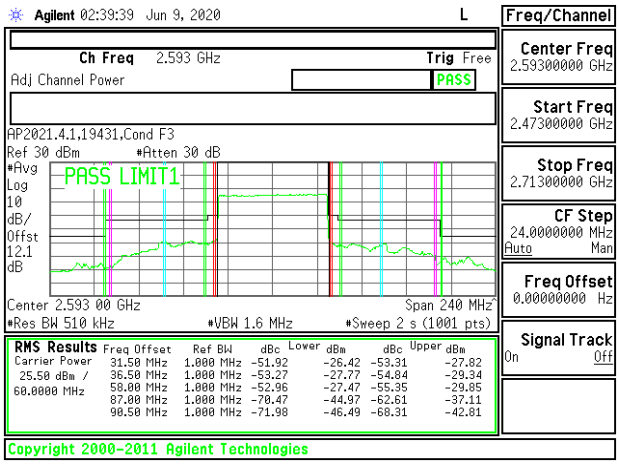


5G NR n41 60MHz BPSK Low Channel RB162-0



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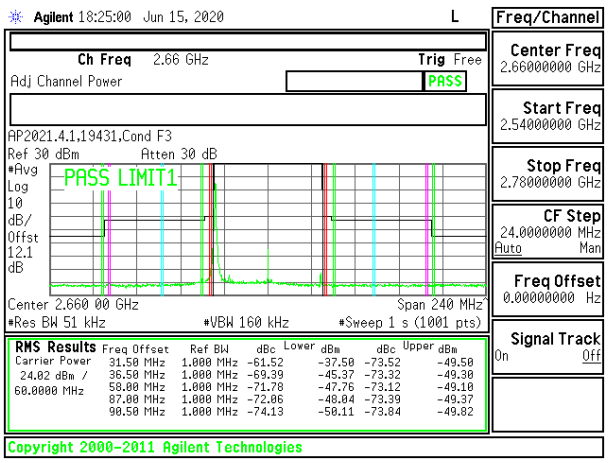
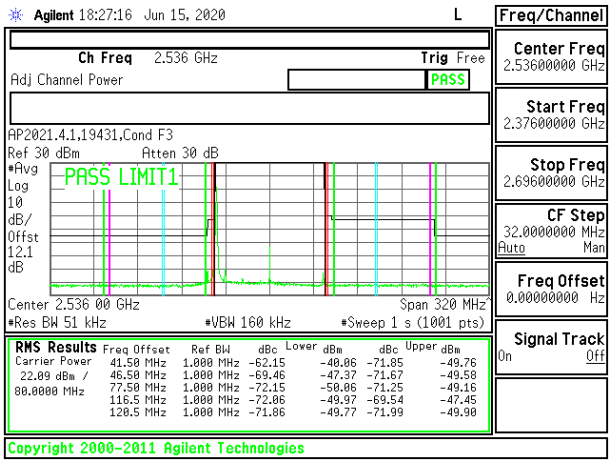


5G NR n41 60MHz BPSK High Channel RB1-0



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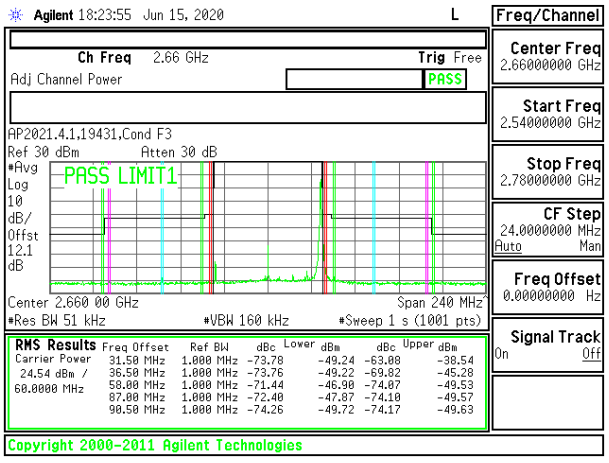
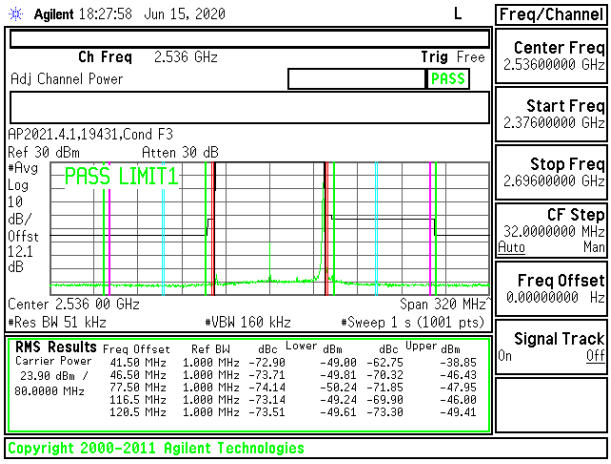


5G NR n41 60MHz BPSK High Channel RB1-161



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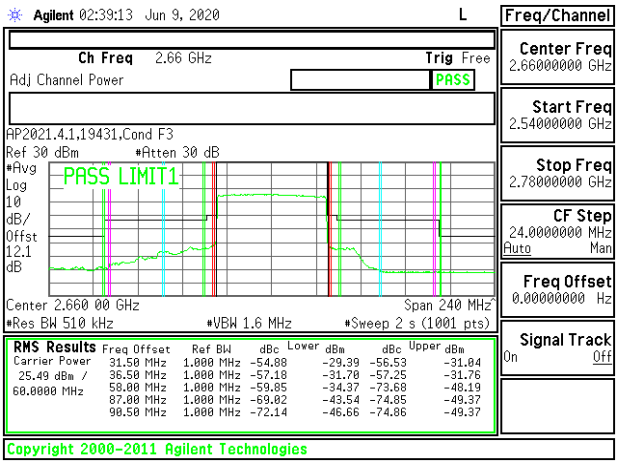

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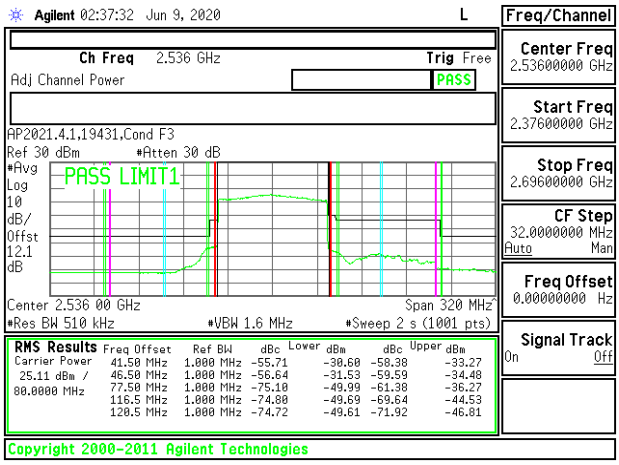

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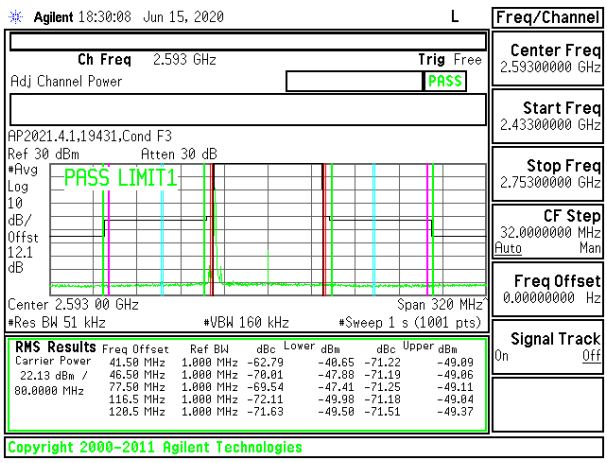
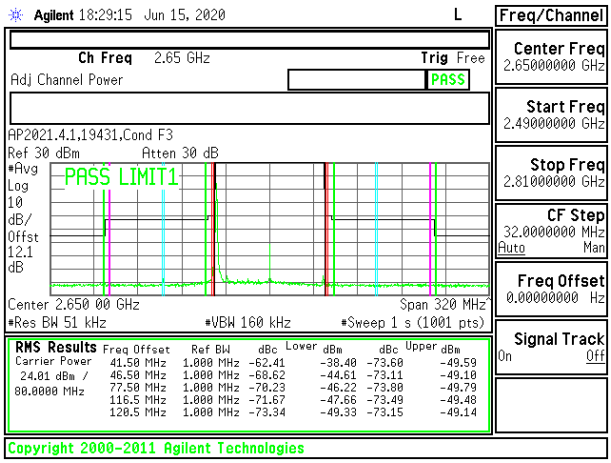
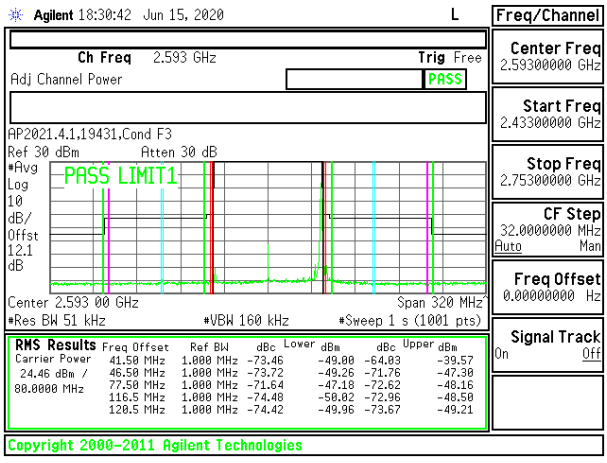


5G NR n41 80MHz BPSK Middle Channel RB1-0



5G NR n41 80MHz BPSK High Channel RB1-0



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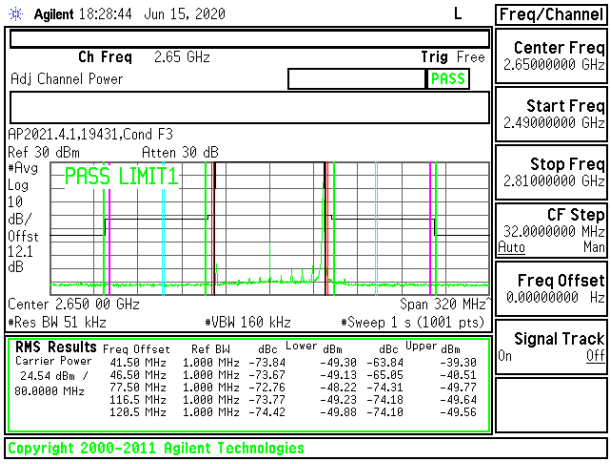

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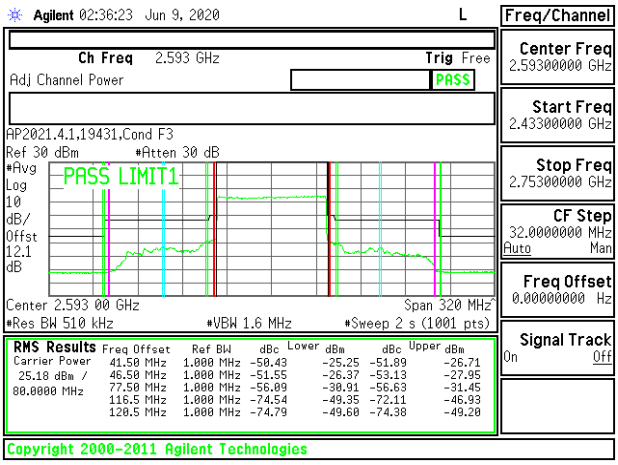

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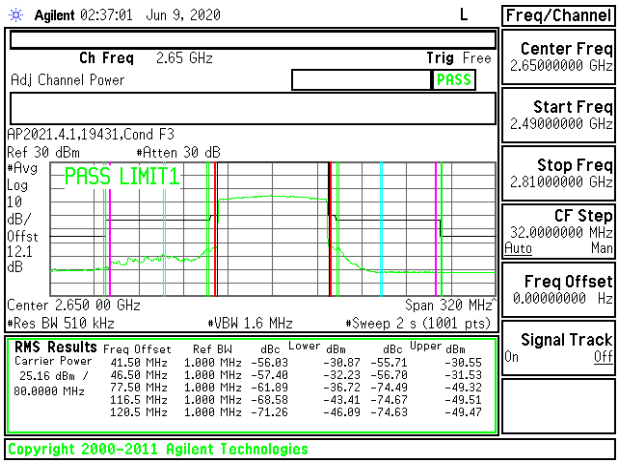

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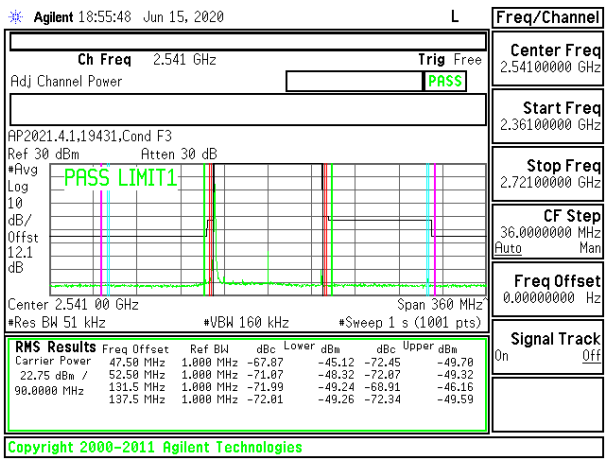
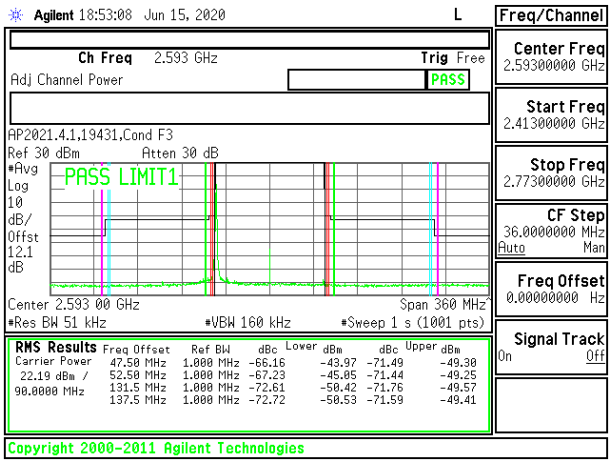
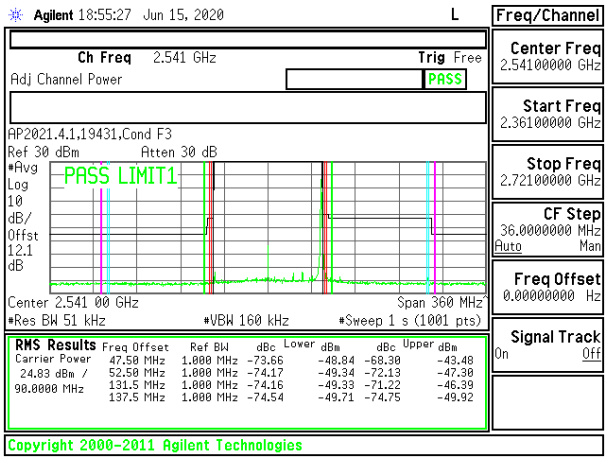


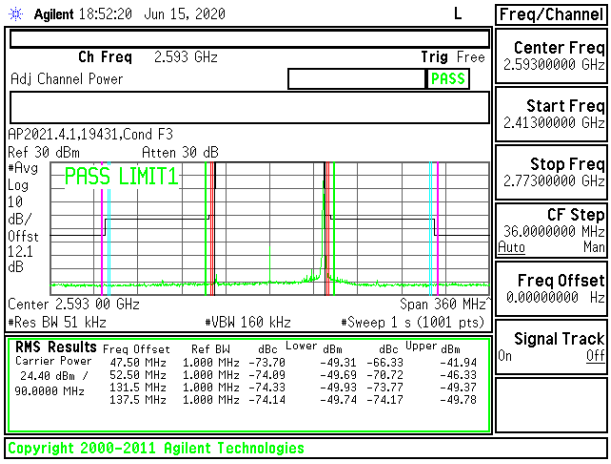
5G NR n41 90MHz BPSK Low Channel RB1-0



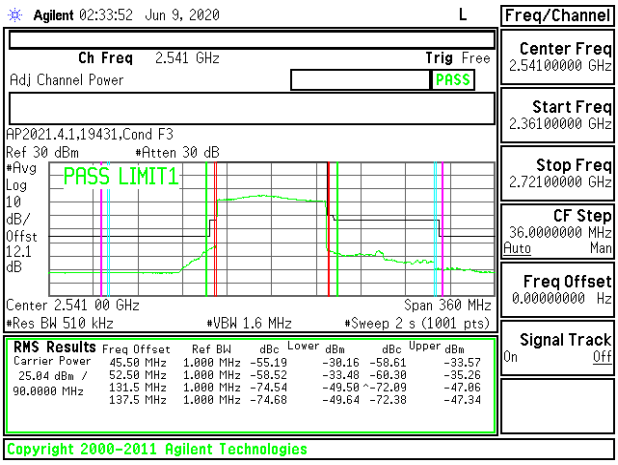
5G NR n41 90MHz BPSK Middle Channel RB1-0



5G NR n41 90MHz BPSK Low Channel RB1-244



5G NR n41 90MHz BPSK Middle Channel RB1-244



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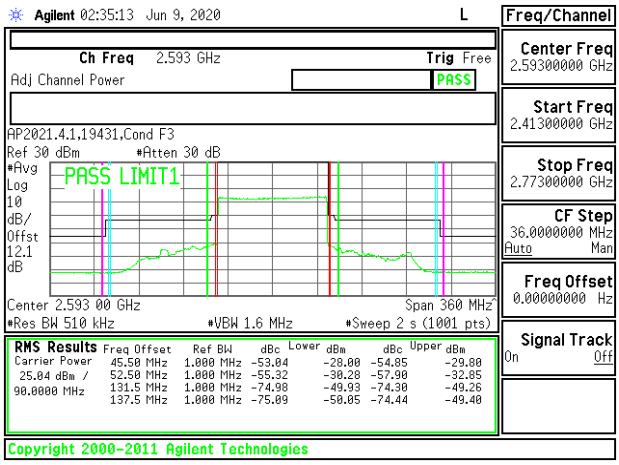
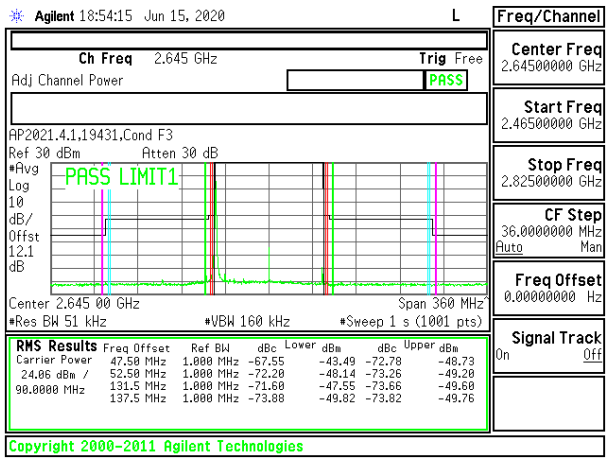
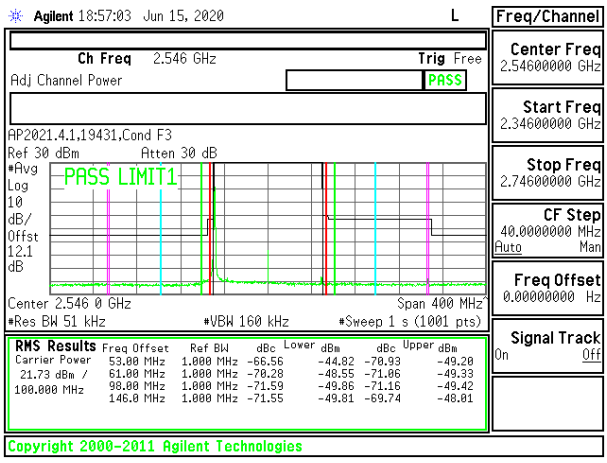


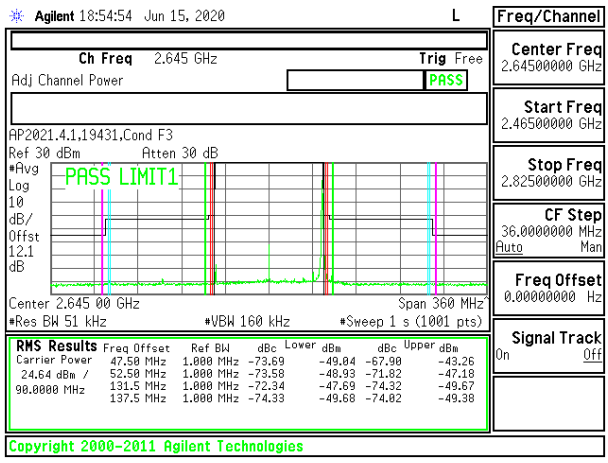
5G NR n41 90MHz BPSK Middle Channel RB243-0



5G NR n41 90MHz BPSK High Channel RB1-0



5G NR n41 100MHz BPSK Low Channel RB1-0



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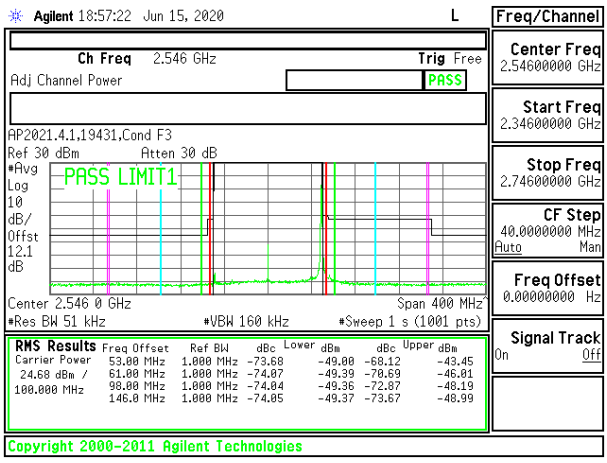
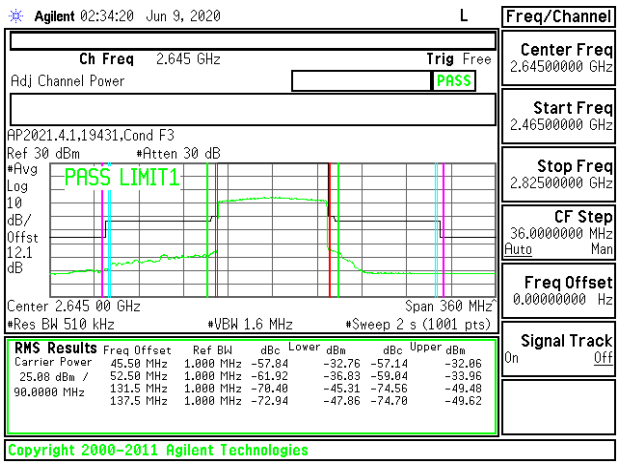


5G NR n41 100MHz BPSK Low Channel RB1-272



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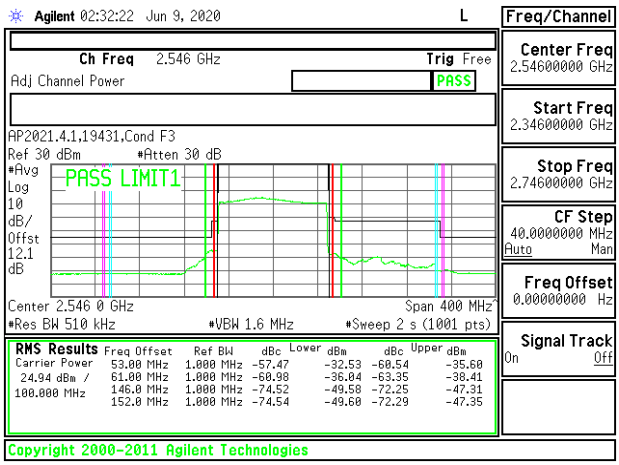
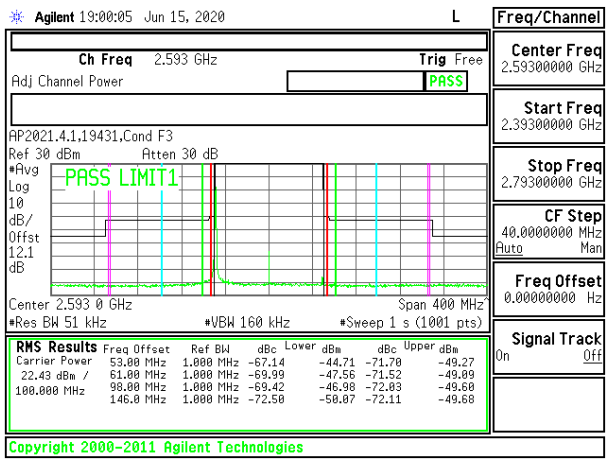
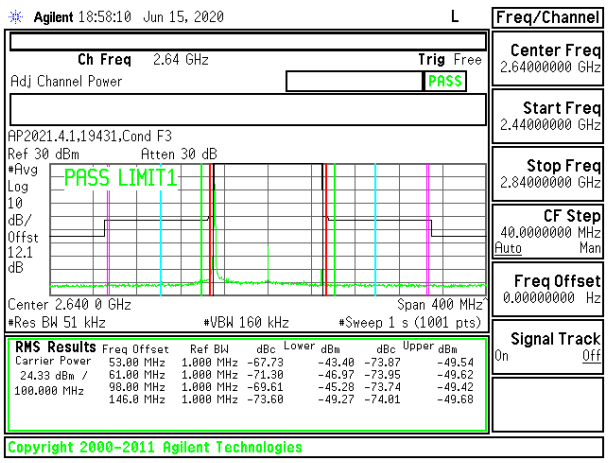


5G NR n41 100MHz BPSK Low Channel RB270-0



5G NR n41 100MHz BPSK Middle Channel RB1-0



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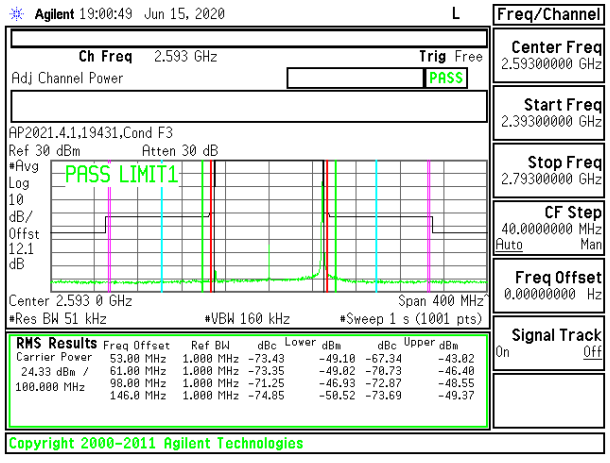
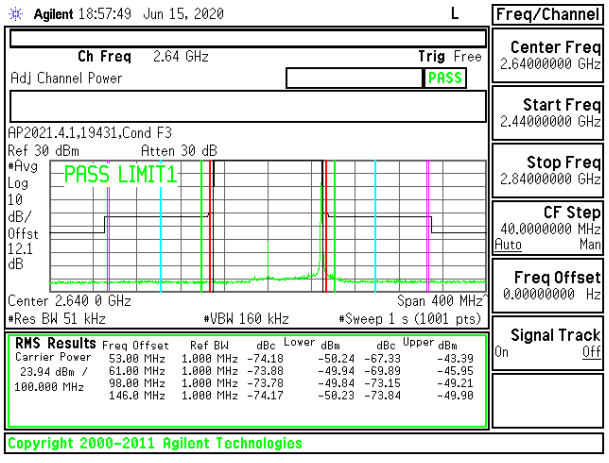
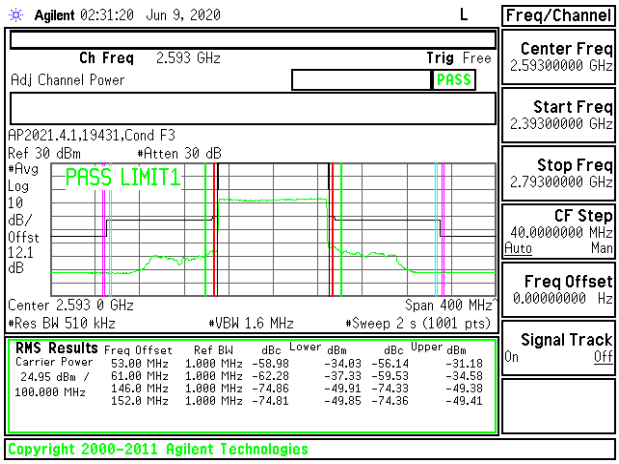


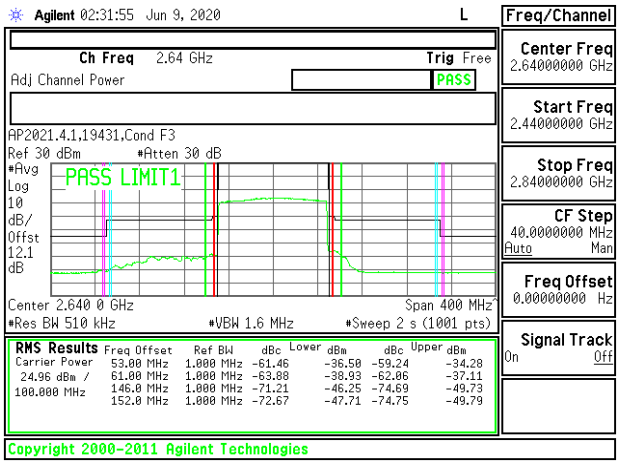
5G NR n41 100MHz BPSK Middle Channel RB1-272



5G NR n41 100MHz BPSK High Channel RB1-272



5G NR n41 100MHz BPSK Middle Channel RB270-0



5G NR n41 100MHz BPSK High Channel RB270-0

9.2.12. LTE BAND 48 ADJACENT CHANNEL POWER

LIMITS

FCC: §96.41

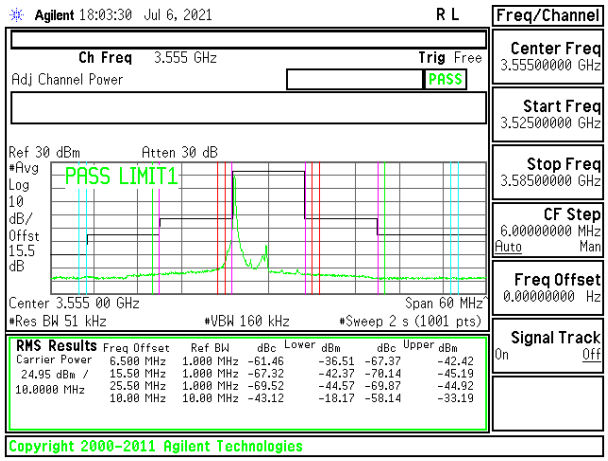
(e) 3.5 GHz Emissions and Interference Limits—

(1) General protection levels

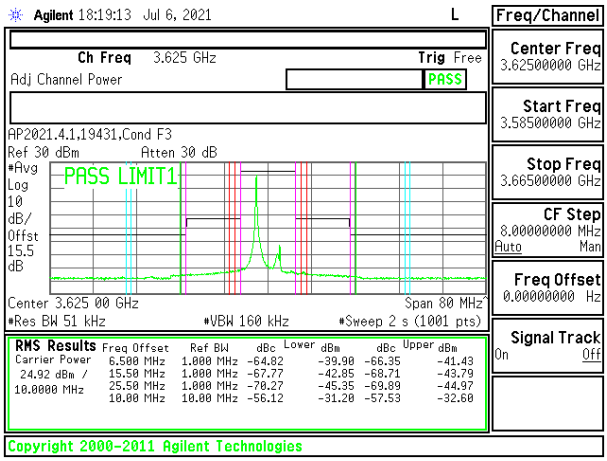
(ii) Except as otherwise specified in paragraph (e)(2) of this section, for channel and frequency assignments made by a CBSD to End User Devices, the conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed −13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge. At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed −25 dBm/MHz. Notwithstanding the emission limits in this paragraph, the Adjacent Channel Leakage Ratio for End User Devices shall be at least 30 dB.

(2) Additional protection levels. Notwithstanding paragraph (e)(1) of this section, for CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed −25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed −40dBm/MHz.

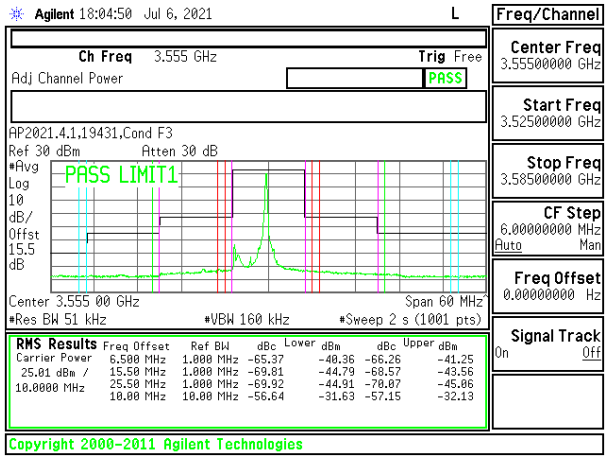
LTE BAND 48 ADJACENT CHANNEL POWER (FCC)



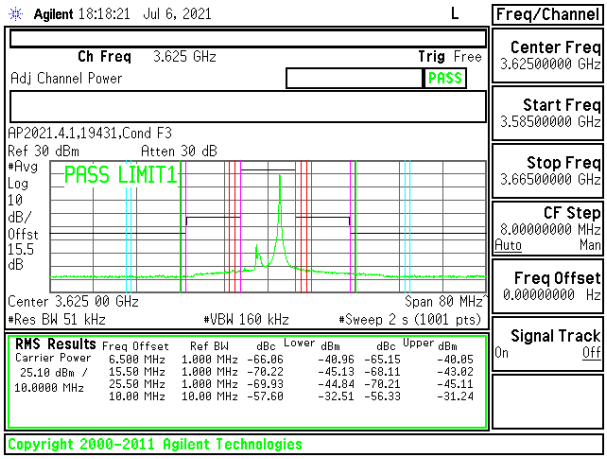
LTE B48 5MHz LTE B48 QPSK Low Channel RB1-0



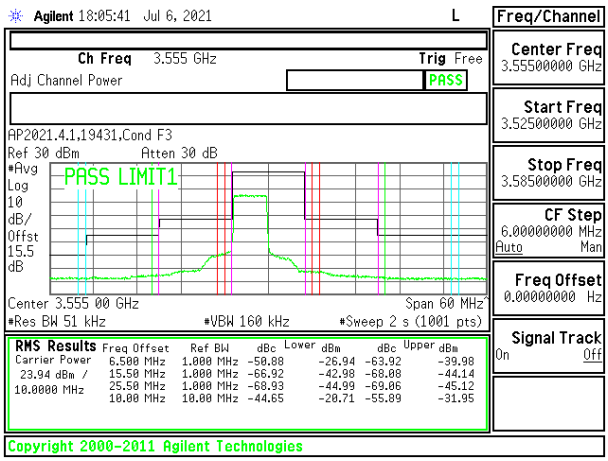
LTE B48 5MHz QPSK Middle Channel RB1-0



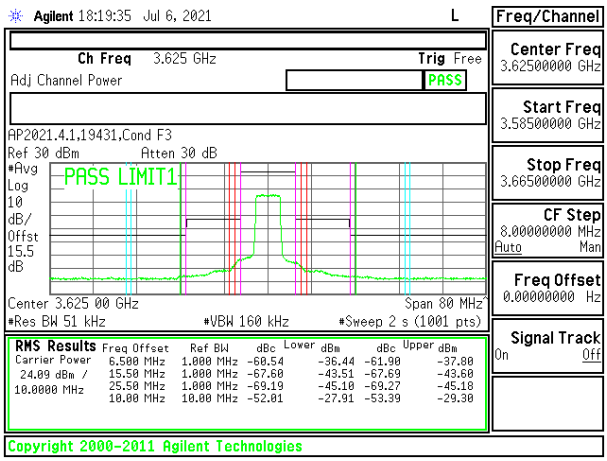
LTE B48 5MHz QPSK Low Channel RB1-24



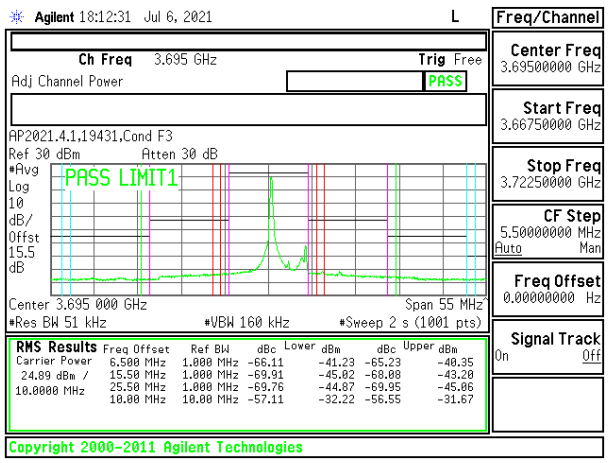
LTE B48 5MHz QPSK Middle Channel RB1-24



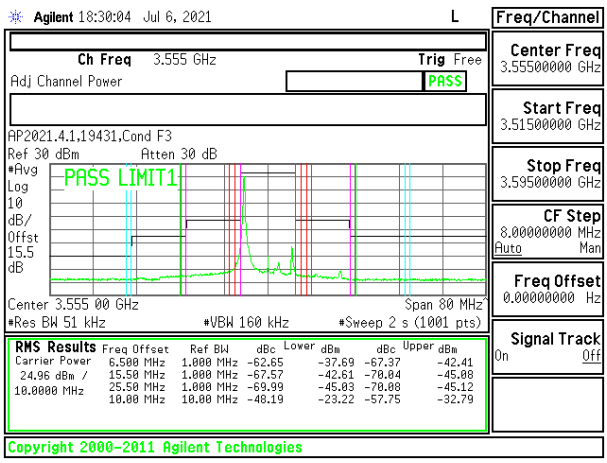
LTE B48 5MHz QPSK Low Channel RB25-0



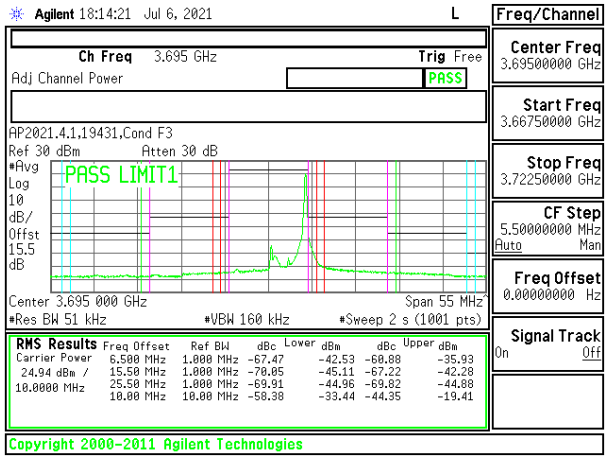
LTE B48 5MHz QPSK Middle Channel RB25-0



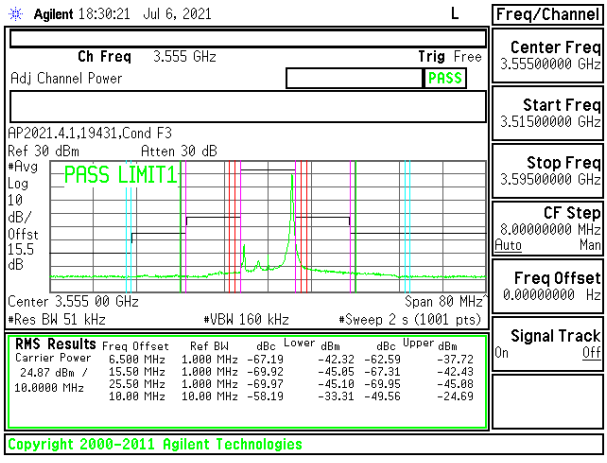
LTE B48 5MHz QPSK High Channel RB1-0



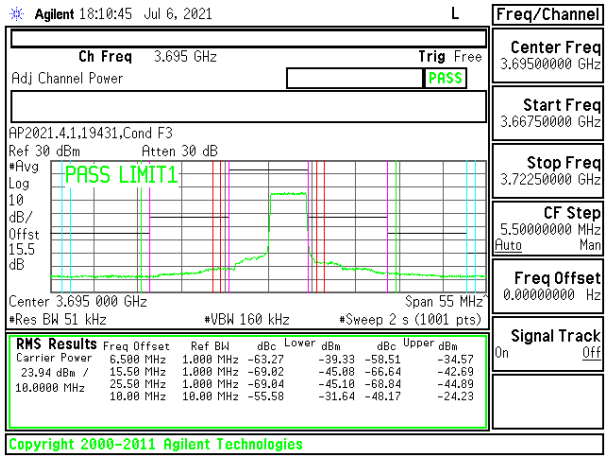
LTE B48 10MHz QPSK Low Channel RB1-0



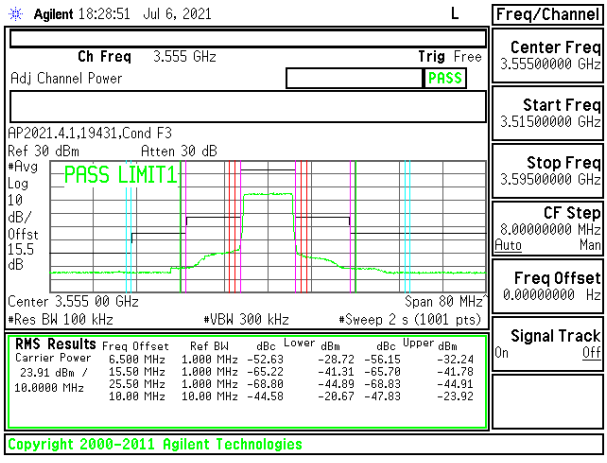
LTE B48 5MHz QPSK High Channel RB1-24



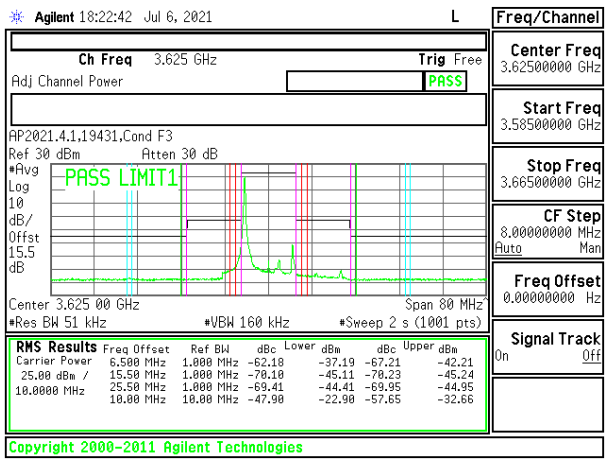
LTE B48 10MHz QPSK Low Channel RB1-49



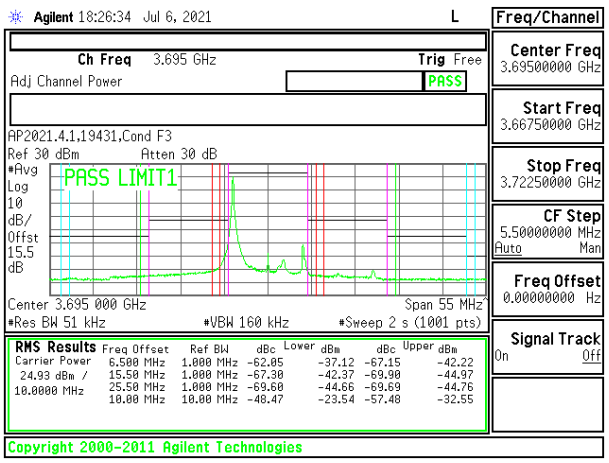
LTE B48 5MHz QPSK High Channel RB25-0



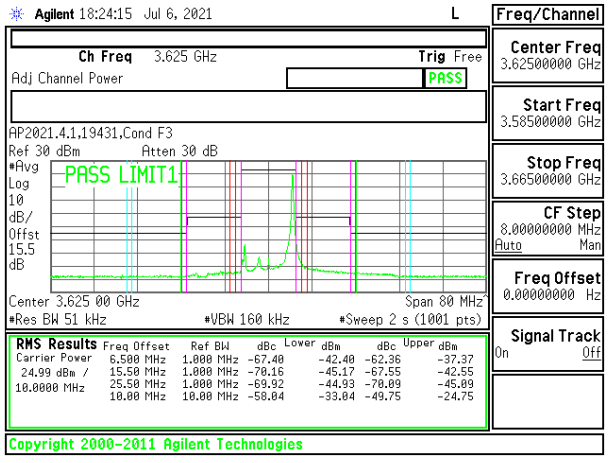
LTE B48 10MHz QPSK Low Channel RB50-0



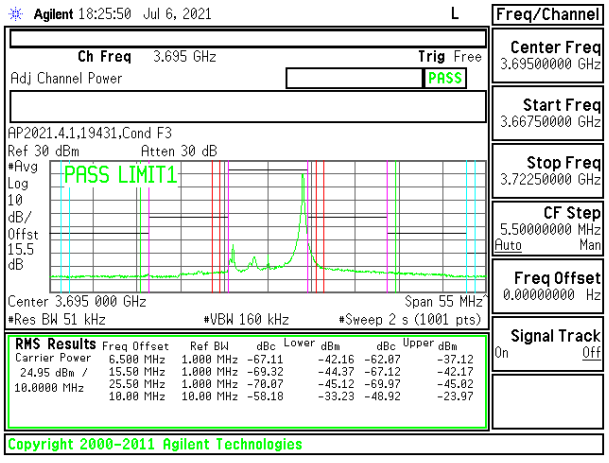
LTE B48 10MHz QPSK Middle Channel RB1-0



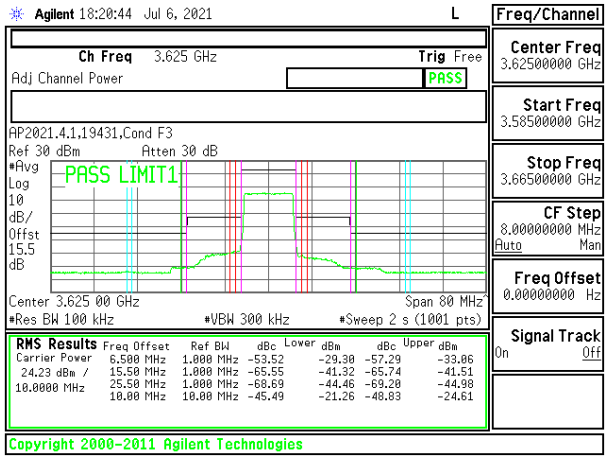
LTE B48 10MHz QPSK High Channel RB1-0



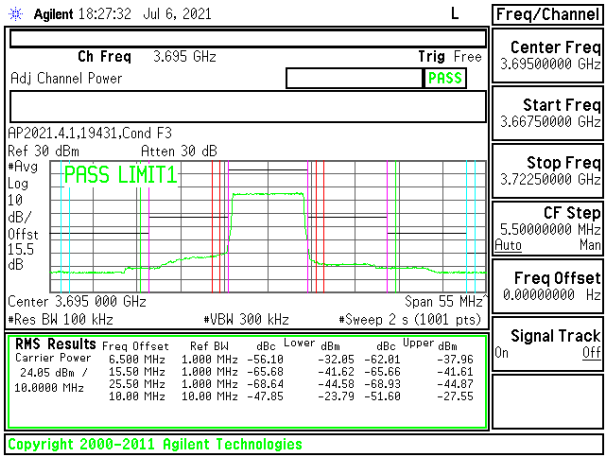
LTE B48 10MHz QPSK Middle Channel RB1-49



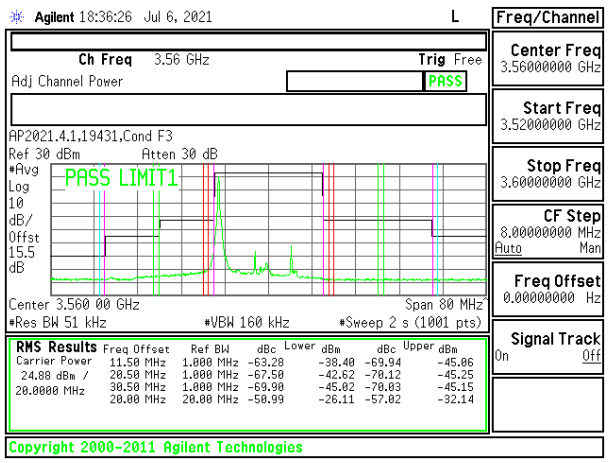
LTE B48 10MHz QPSK High Channel RB1-49



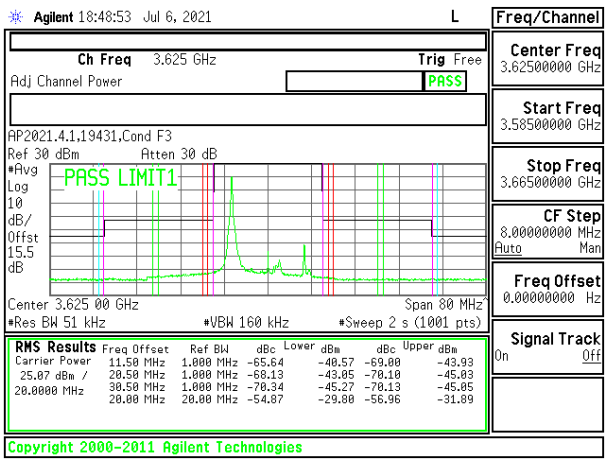
LTE B48 10MHz QPSK Middle Channel RB50-0



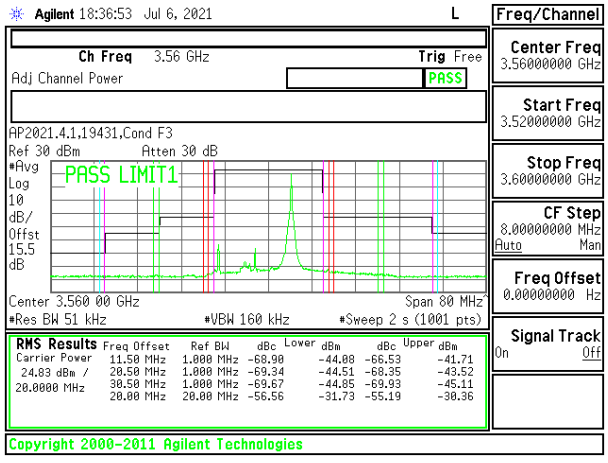
LTE B48 10MHz QPSK High Channel RB50-0



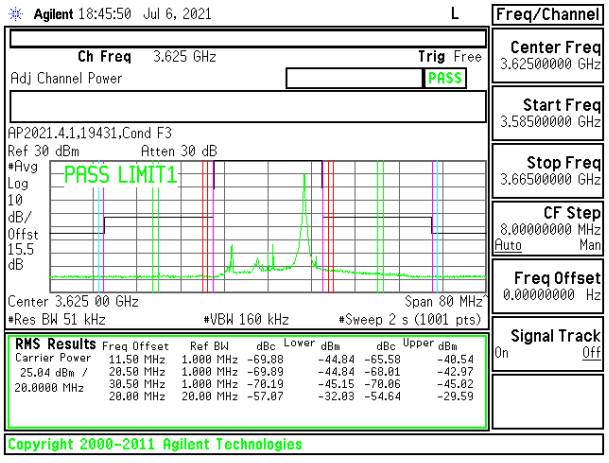
LTE B48 15MHz QPSK Low Channel RB1-0



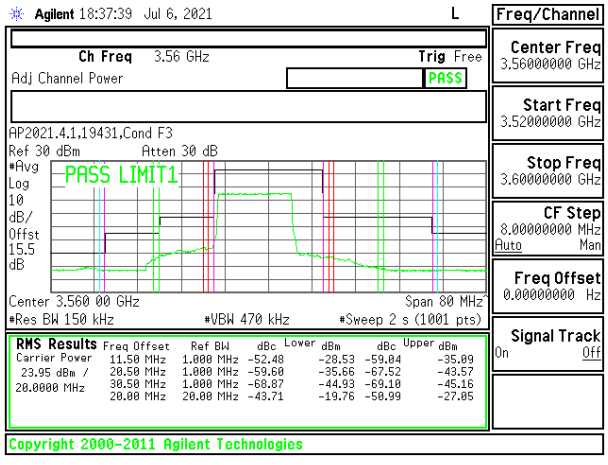
LTE B48 15MHz QPSK Middle Channel RB1-0



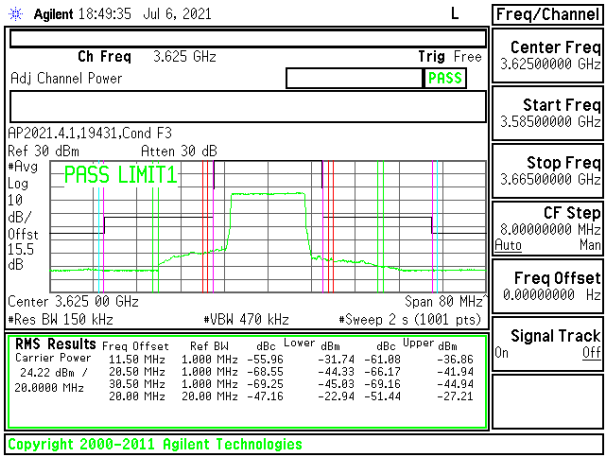
LTE B48 15MHz QPSK Low Channel RB1-74



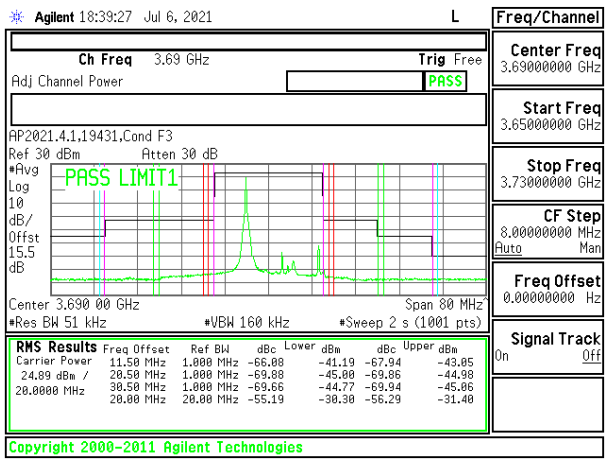
LTE B48 15MHz QPSK Middle Channel RB1-74



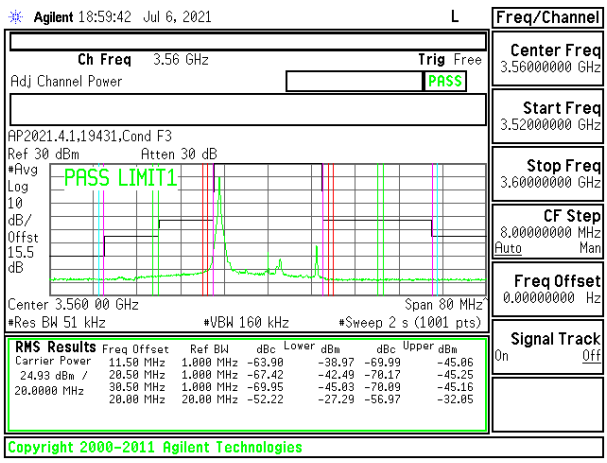
LTE B48 15MHz QPSK Low Channel RB75-0



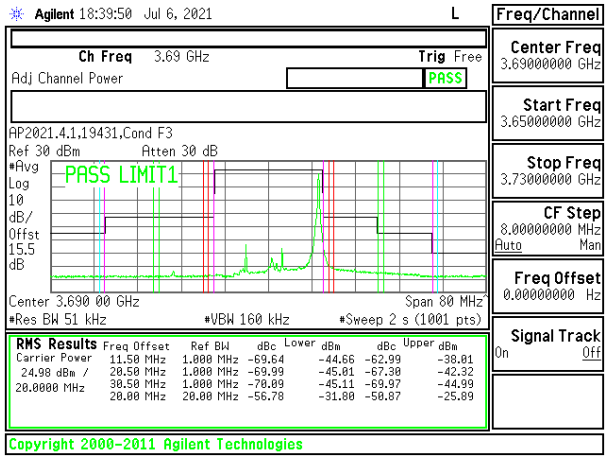
LTE B48 15MHz QPSK Middle Channel RB75-0



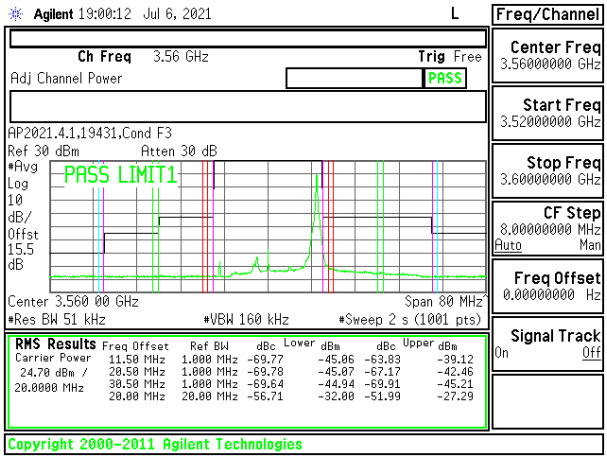
LTE B48 15MHz QPSK High Channel RB1-0



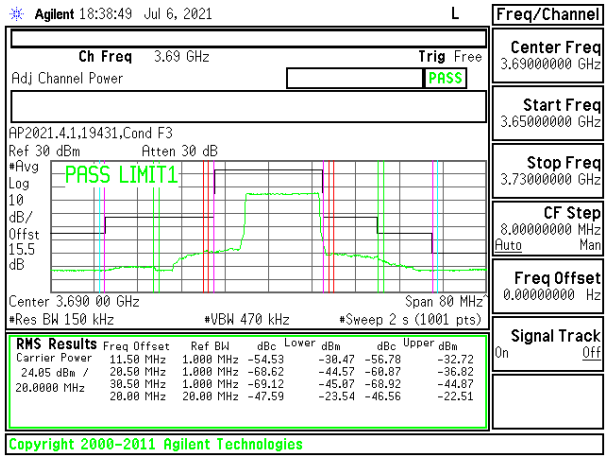
LTE B48 20MHz QPSK Low Channel RB1-0



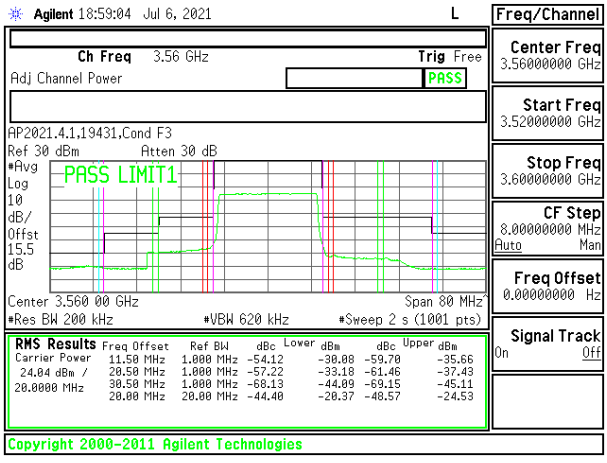
LTE B48 15MHz QPSK High Channel RB1-74



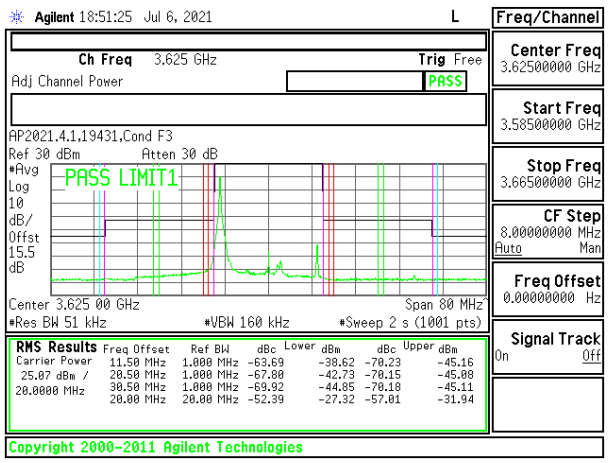
LTE B48 20MHz QPSK Low Channel RB1-99



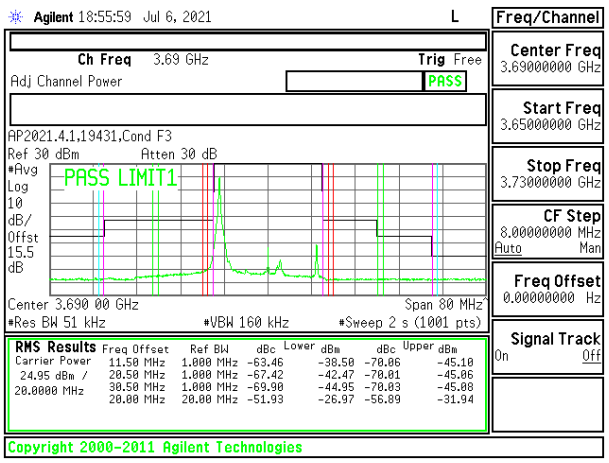
LTE B48 15MHz QPSK High Channel RB75-0



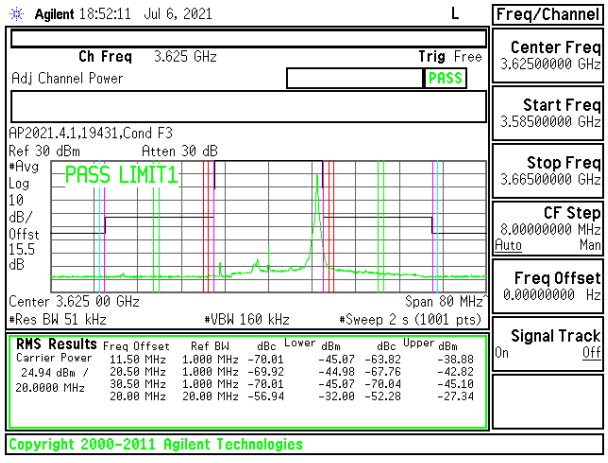
LTE B48 20MHz QPSK Low Channel RB100-0



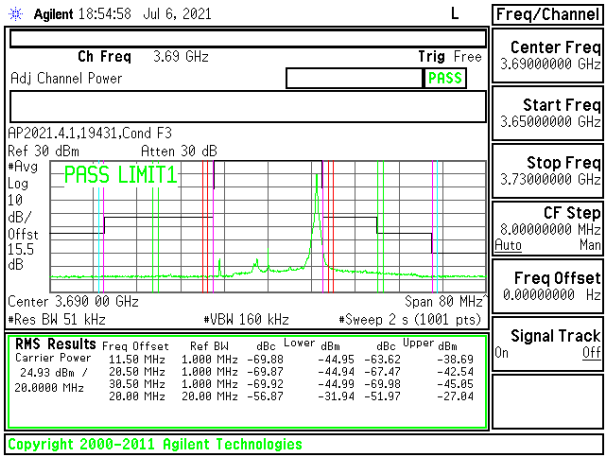
LTE B48 20MHz QPSK Middle Channel RB1-0



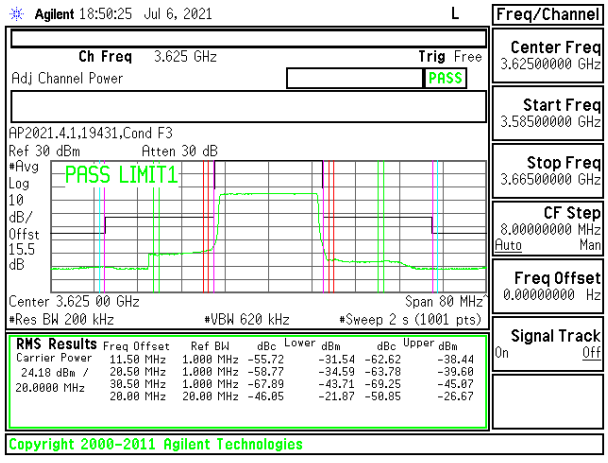
LTE B48 20MHz QPSK High Channel RB1-0



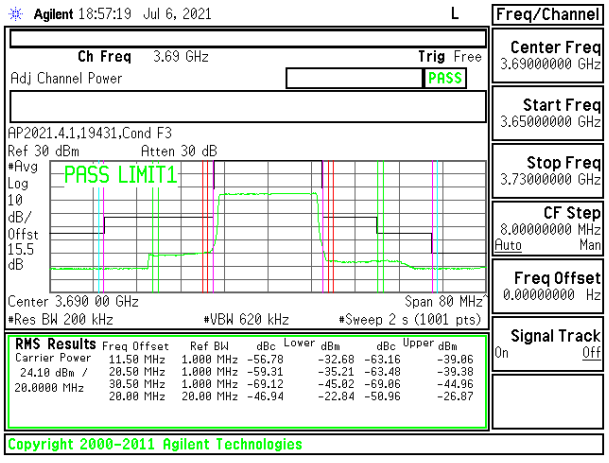
LTE B48 20MHz QPSK Middle Channel RB1-99



LTE B48 20MHz QPSK High Channel RB1-99



LTE B48 20MHz QPSK Middle Channel RB100-0



LTE B48 20MHz QPSK High Channel RB100-0

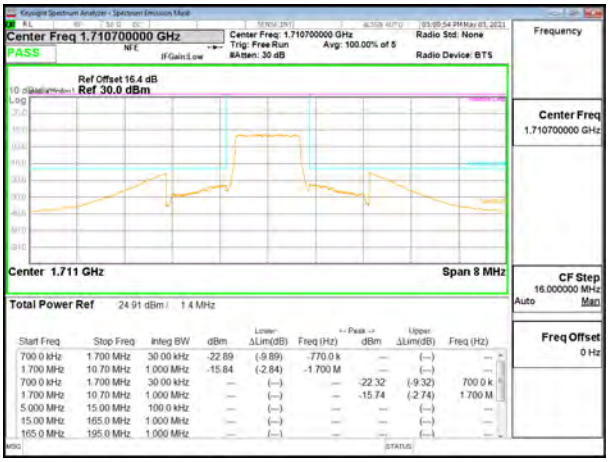
9.2.13. LTE BAND 66 AND 5G NR n66 ADJACENT CHANNEL POWER AND EMISSION MASK

LIMITS

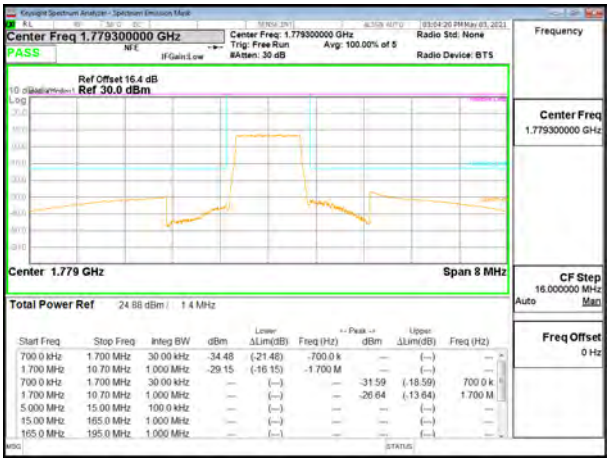
FCC: §27.53(h)

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.

LTE BAND 66 EMISSION MASK

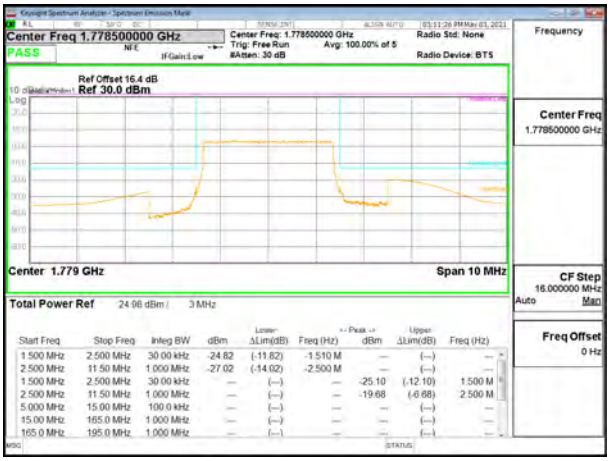


LTE B66 1.4MHz QPSK Low Channel RB6-0

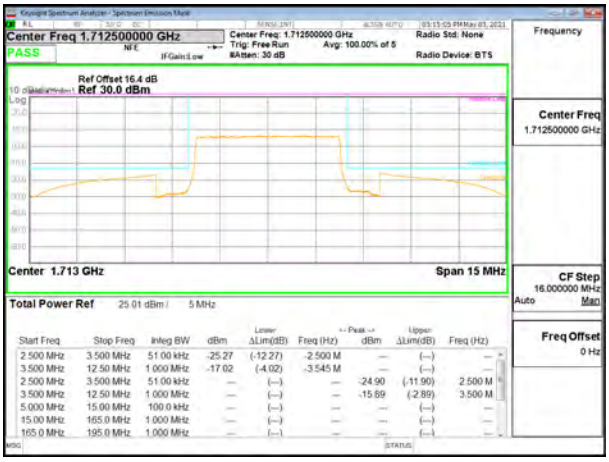


LTE B66 1.4MHz QPSK High Channel RB6-0

LTE B66 3MHz QPSK Low Channel RB15-0

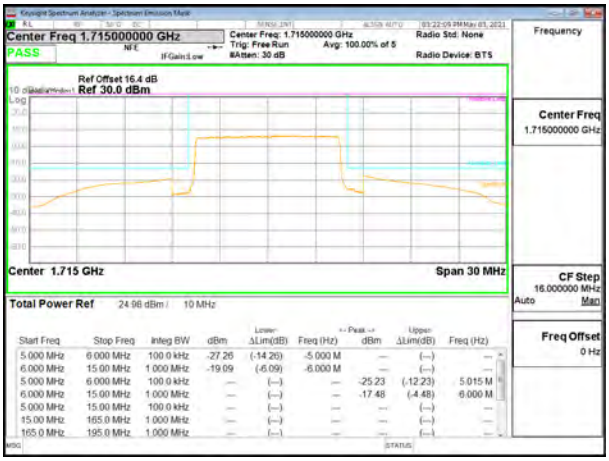


LTE B66 3MHz QPSK High Channel RB15-0

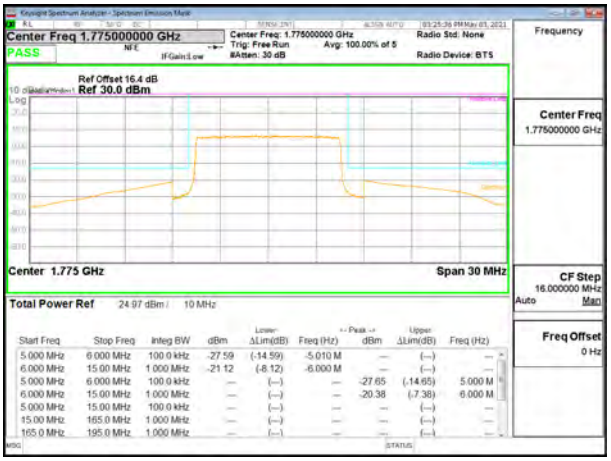


LTE B66 5MHz QPSK Low Channel RB25-0

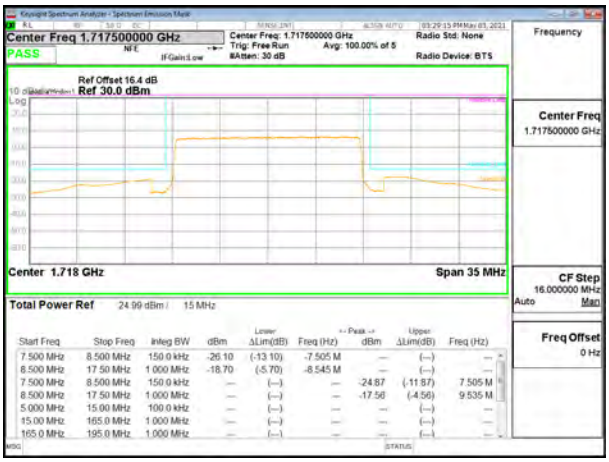
LTE B66 5MHz QPSK High Channel RB25-0



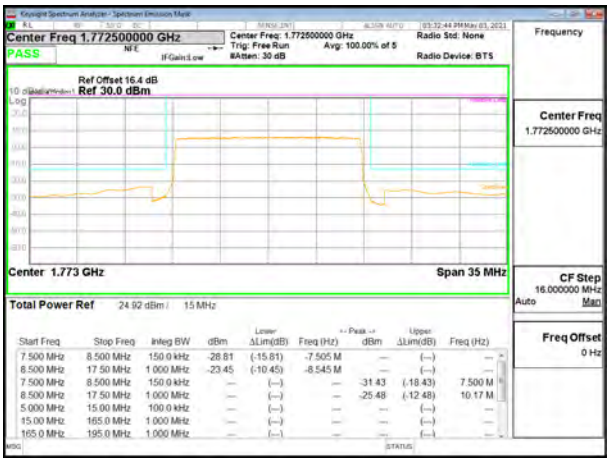
LTE B66 10MHz QPSK Low Channel RB50-0



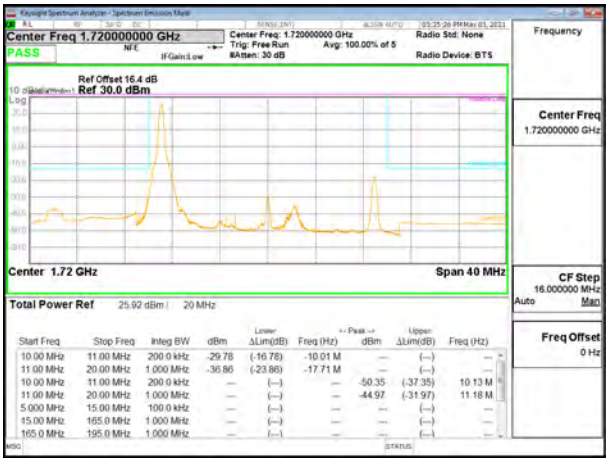
LTE B66 10MHz QPSK High Channel RB50-0



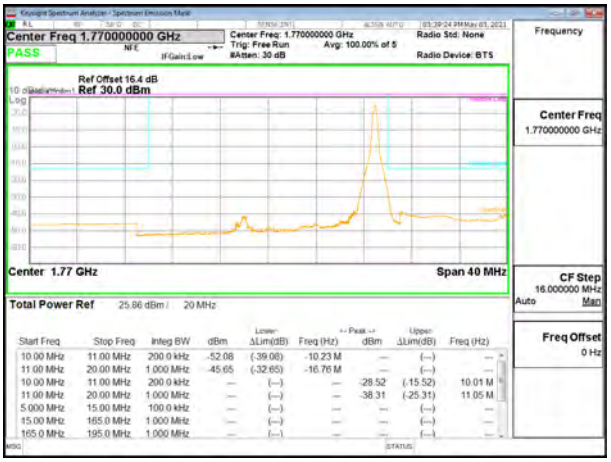
LTE B66 15MHz QPSK Low Channel RB75-0



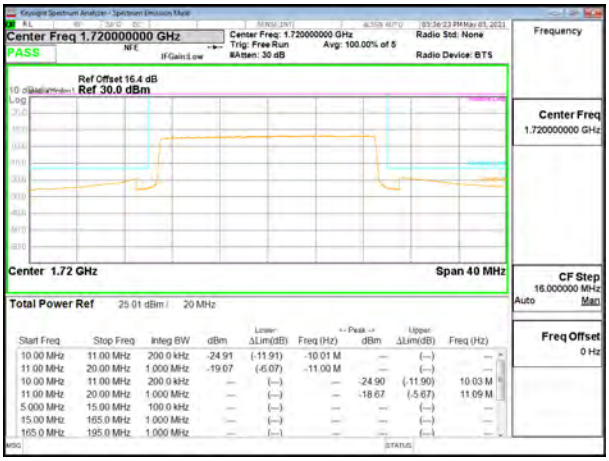
LTE B66 15MHz QPSK High Channel RB75-0



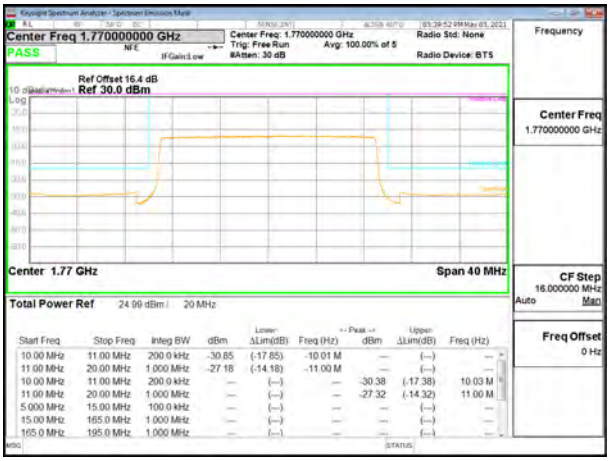
LTE B66 20MHz QPSK Low Channel RB1-0



LTE B66 20MHz QPSK High Channel RB1-99

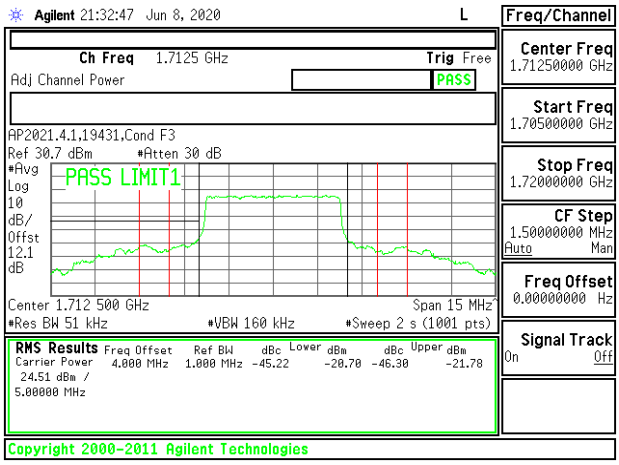


LTE B66 20MHz QPSK Low Channel RB100-0

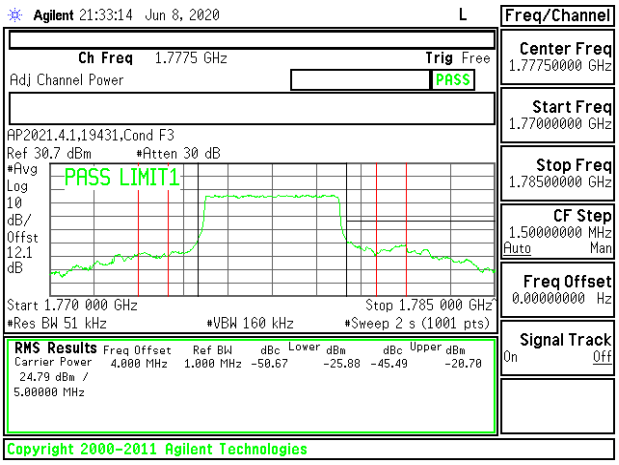


LTE B66 20MHz QPSK High Channel RB100-0

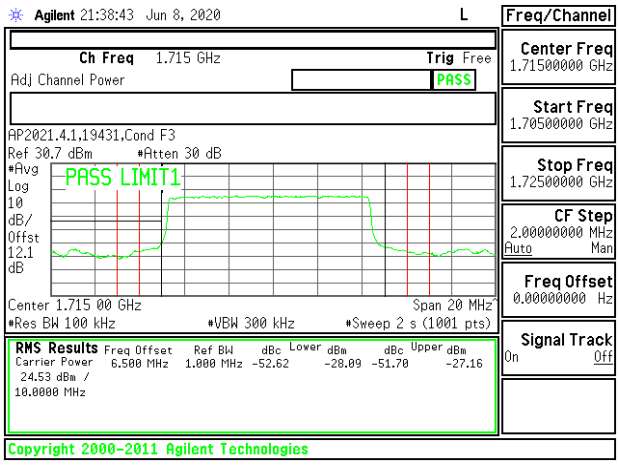
5G NR n66 ADJACENT C HANNEL POWER



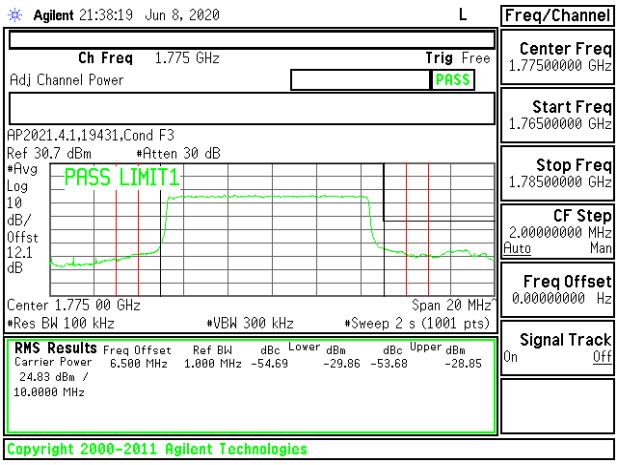
5G NR n66 5MHz BPSK Low Channel RB25-0



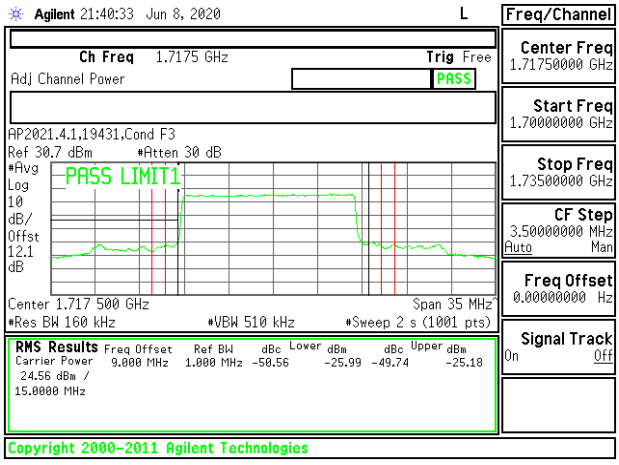
5G NR n66 5MHz BPSK High Channel RB25-0



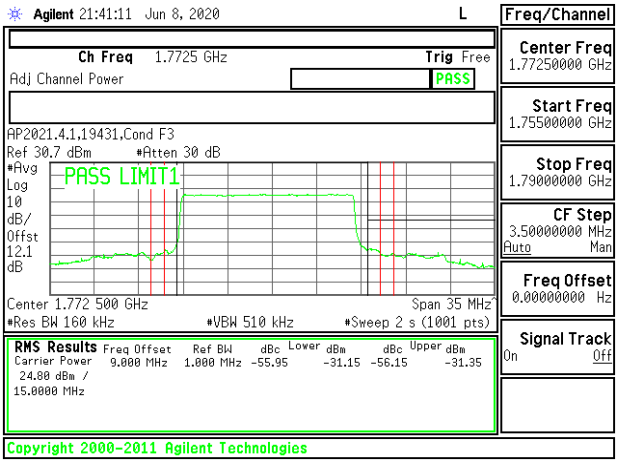
5G NR n66 10MHz BPSK Low Channel RB50-0



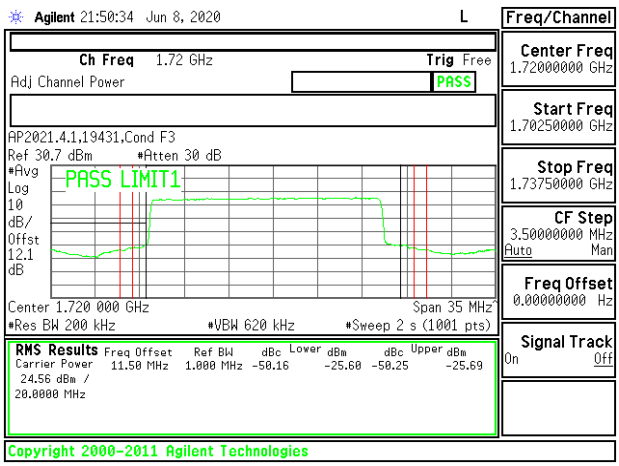
5G NR n66 10MHz BPSK High Channel RB50-0



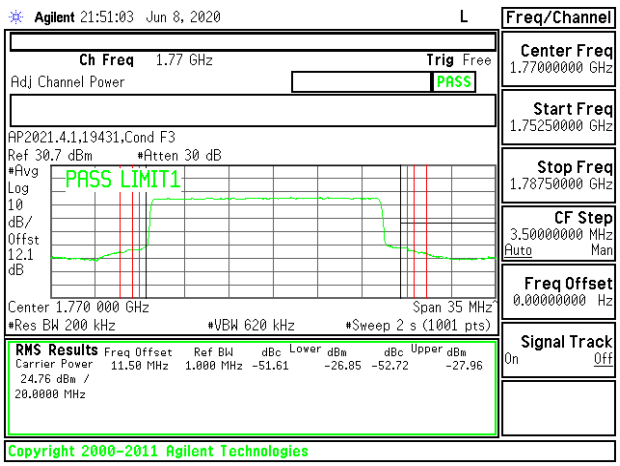
5G NR n66 15MHz BPSK Low Channel RB75-0



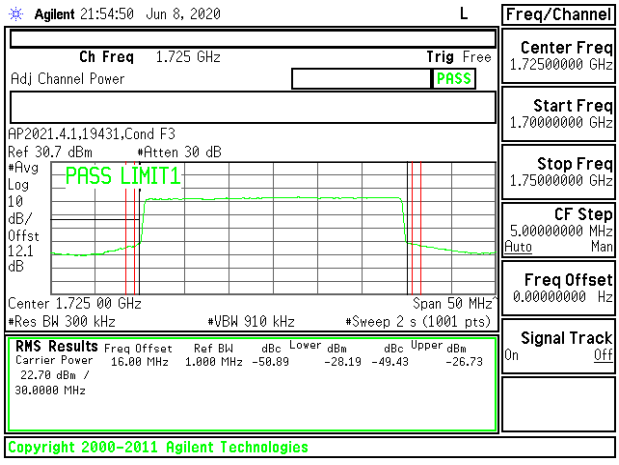
5G NR n66 15MHz BPSK High Channel RB75-0



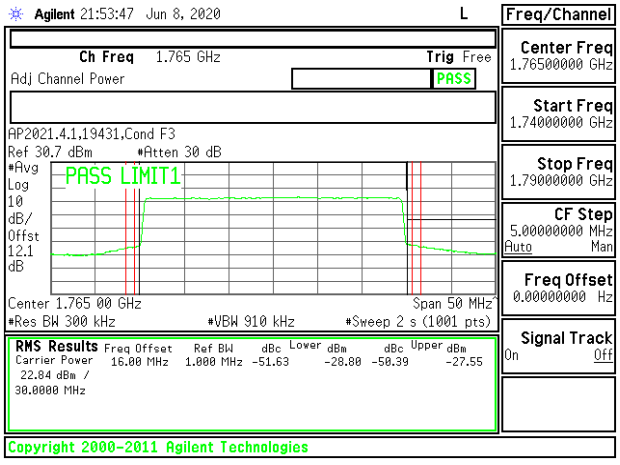
5G NR n66 20MHz BPSK Low Channel RB100-0



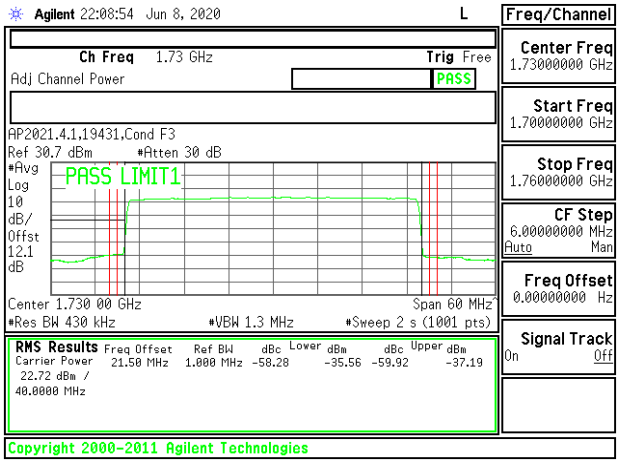
5G NR n66 20MHz BPSK High Channel RB100-0



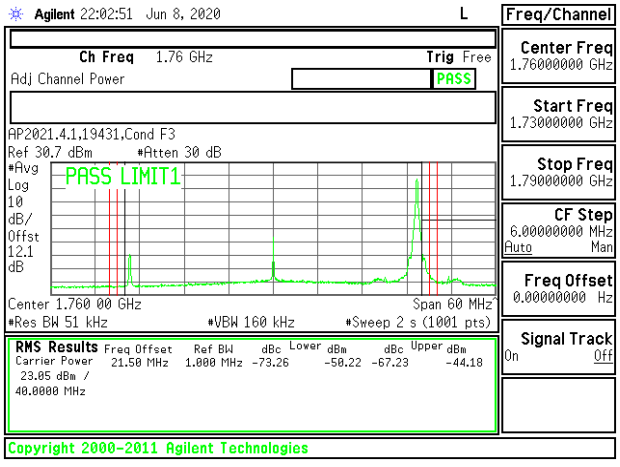
5G NR n66 30MHz BPSK Low Channel RB160-0



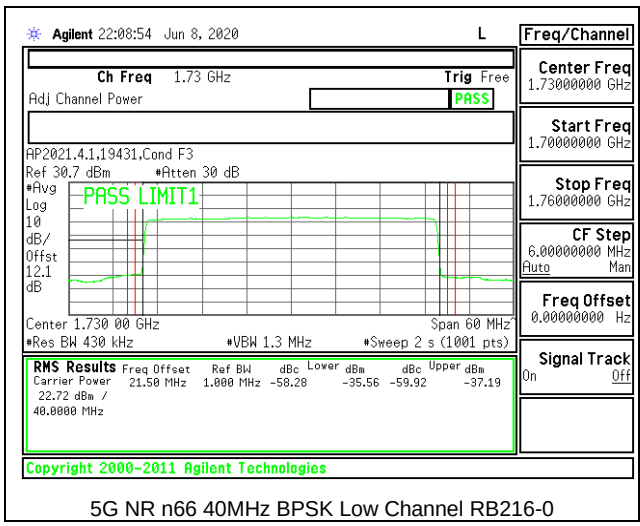
5G NR n66 30MHz BPSK High Channel RB160-0



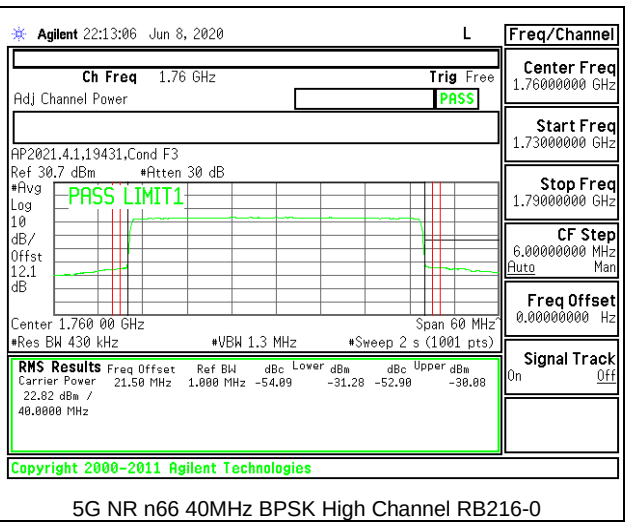
5G NR n66 40MHz BPSK Low Channel RB1-0



5G NR n66 40MHz BPSK High Channel RB1-215



5G NR n66 40MHz BPSK Low Channel RB216-0



5G NR n66 40MHz BPSK High Channel RB216-0

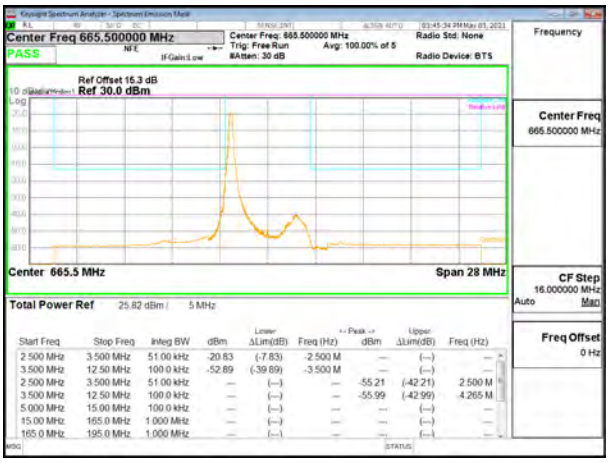
9.2.14. LTE BAND 71 AND 5G NR n71 ADJACENT CHANNEL POWER AND EMISSION MASK

LIMITS

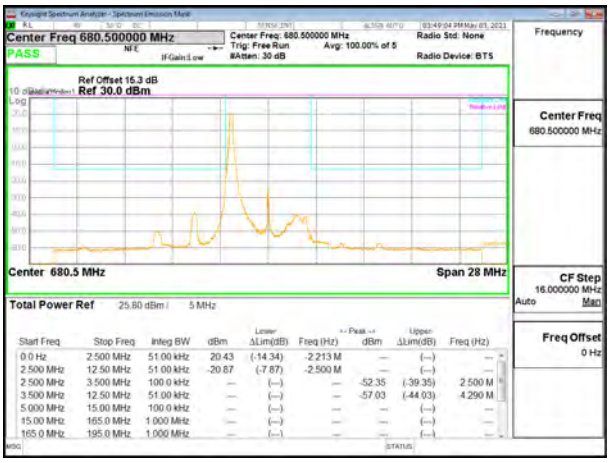
FCC: §27.53

(g) For operations in the 600 MHz band and 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.

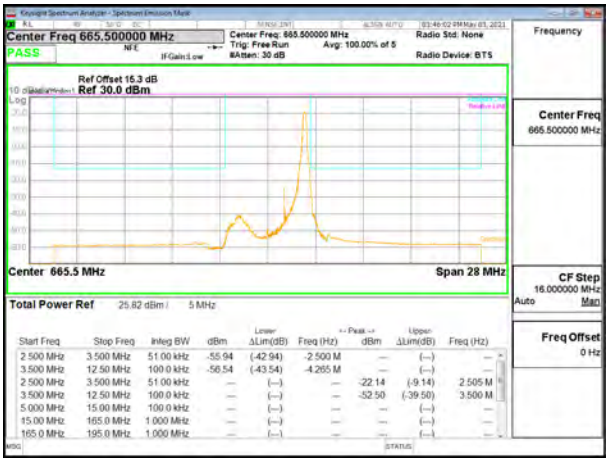
LTE BAND 71 ADJACENT CHANNEL POWER AND EMISSION MASK



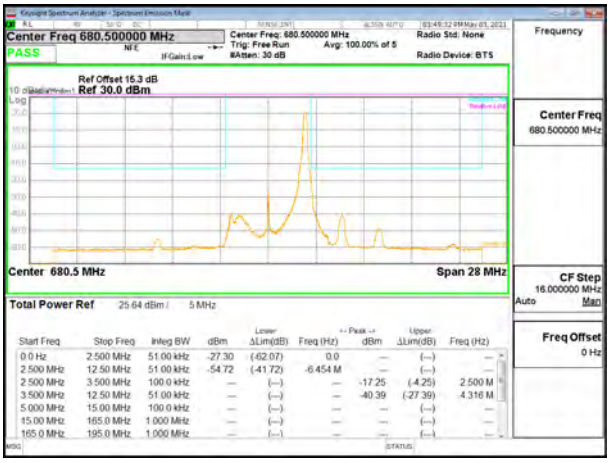
LTE B71 5MHz QPSK Low Channel RB1-0



LTE B71 5MHz QPSK Middle Channel RB1-0



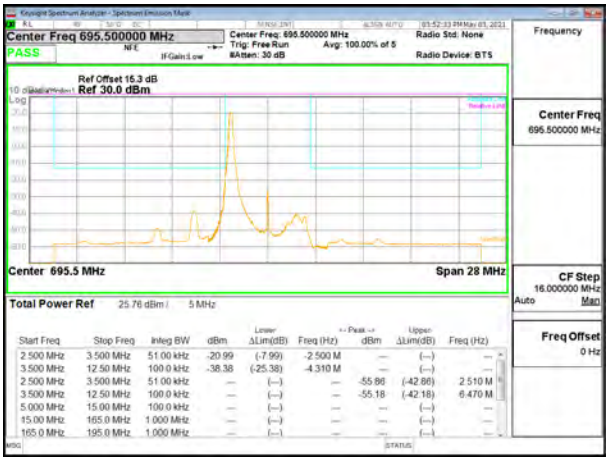
LTE B71 5MHz QPSK Low Channel RB1-24



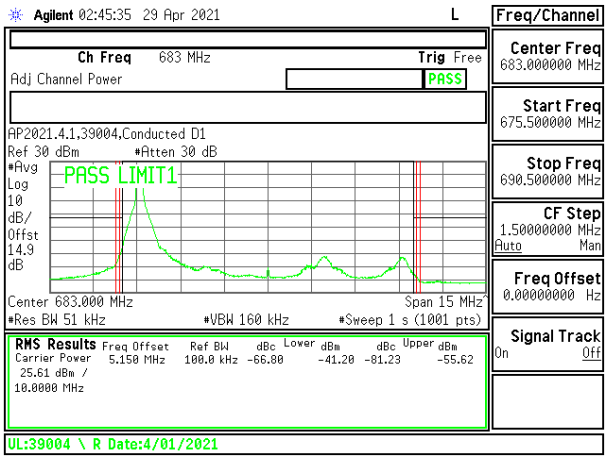
LTE B71 5MHz QPSK Middle Channel RB1-24

LTE B71 5MHz QPSK Low Channel RB25-0

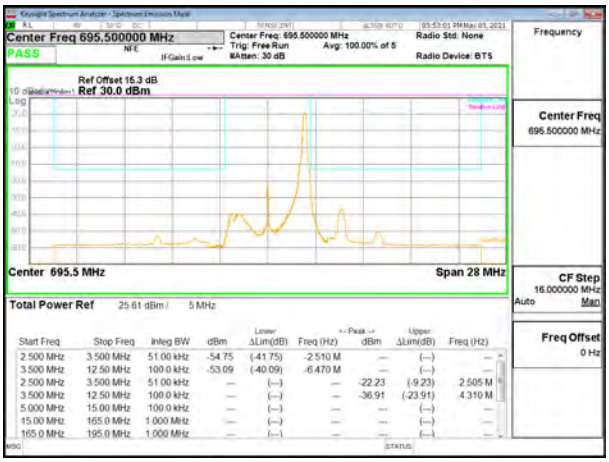
LTE B71 5MHz QPSK Middle Channel RB25-0



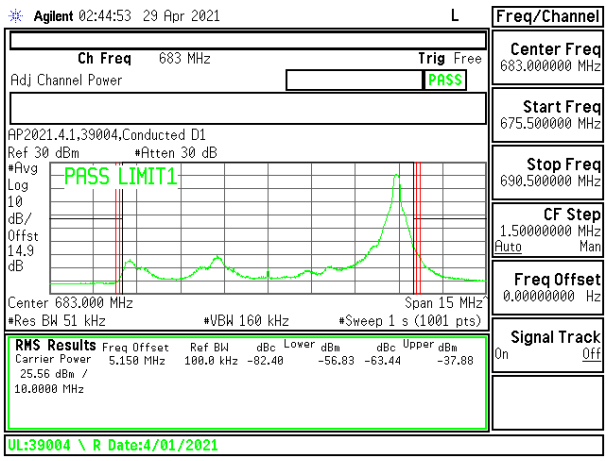
LTE B71 5MHz QPSK High Channel RB1-0



LTE B71 10MHz QPSK Low Channel RB1-0

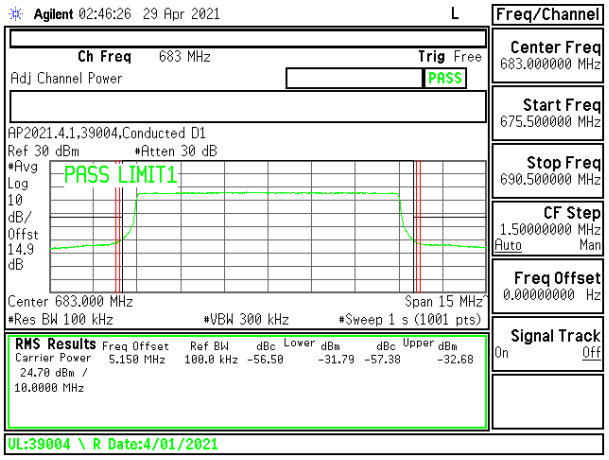


LTE B71 5MHz QPSK High Channel RB1-24

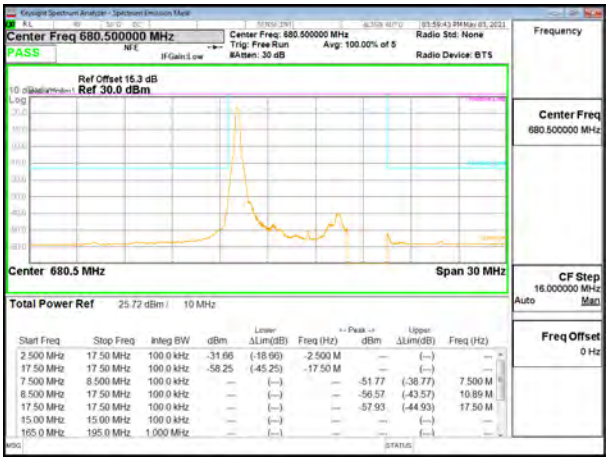


LTE B71 10MHz QPSK Low Channel RB1-49

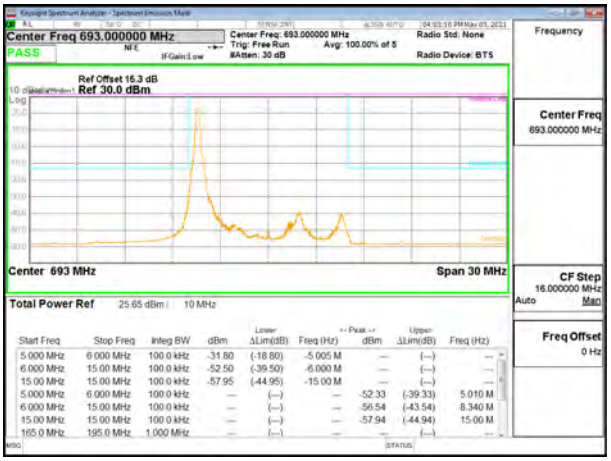
LTE B71 5MHz QPSK High Channel RB25-0



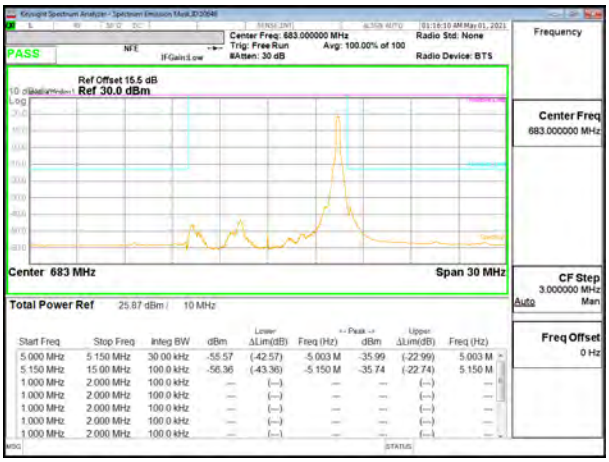
LTE B71 10MHz QPSK Low Channel RB50-0



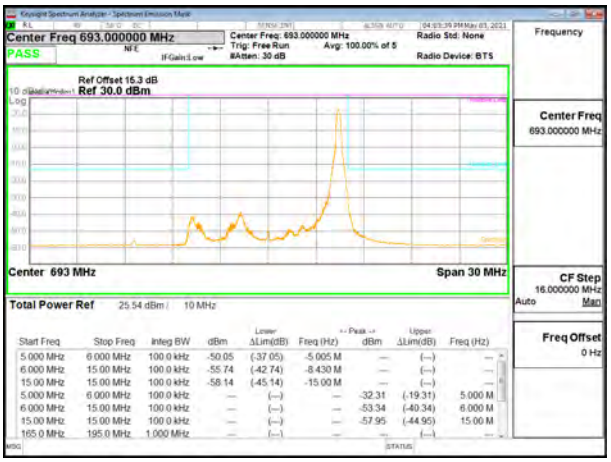
LTE B71 10MHz QPSK Middle Channel RB1-0



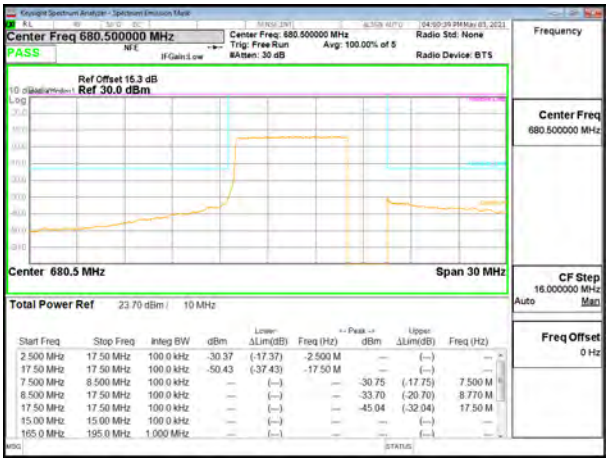
LTE B71 10MHz QPSK High Channel RB1-0



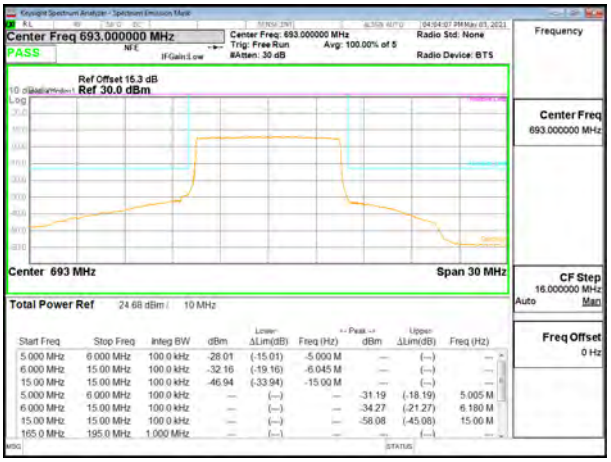
LTE B71 10MHz QPSK Middle Channel RB1-49



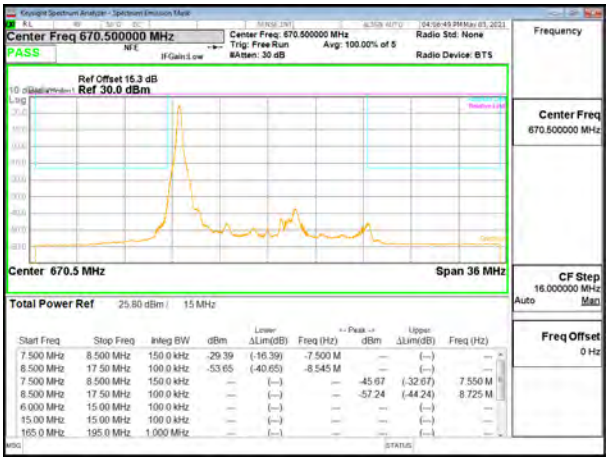
LTE B71 10MHz QPSK High Channel RB1-49



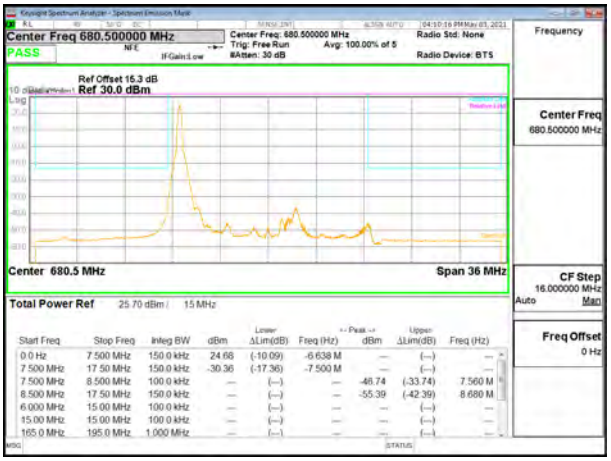
LTE B71 10MHz QPSK Middle Channel RB50-0



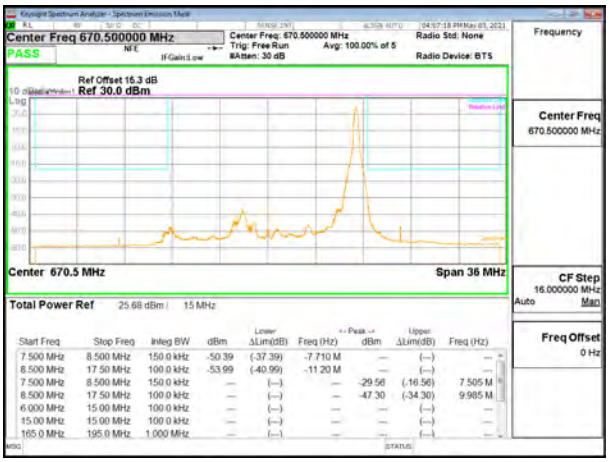
LTE B71 10MHz QPSK High Channel RB50-0



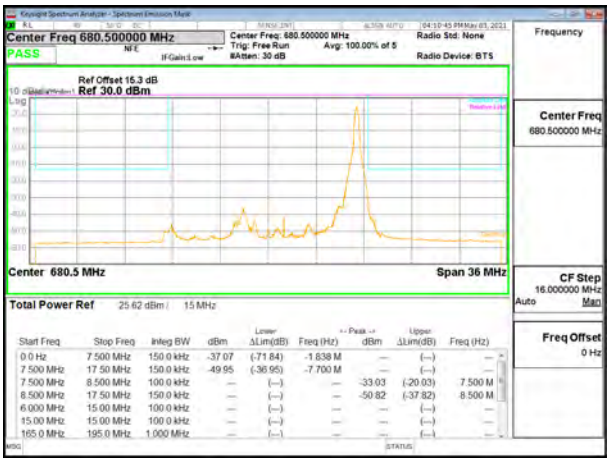
LTE B71 15MHz QPSK Low Channel RB1-0



LTE B71 15MHz QPSK Middle Channel RB1-0

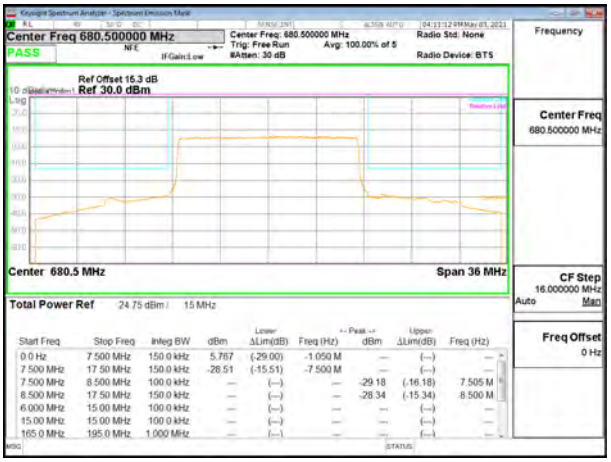


LTE B71 15MHz QPSK Low Channel RB1-74

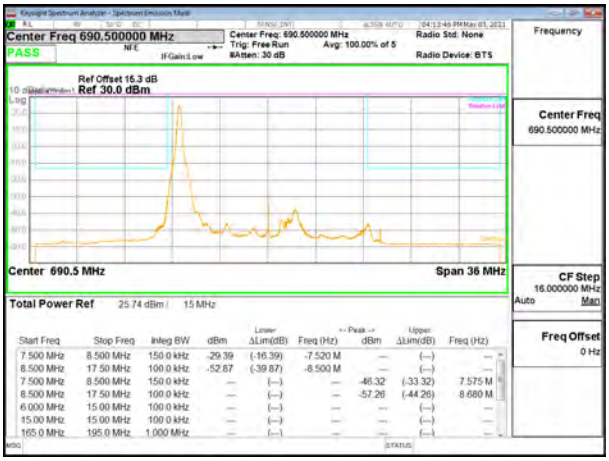


LTE B71 15MHz QPSK Middle Channel RB1-74

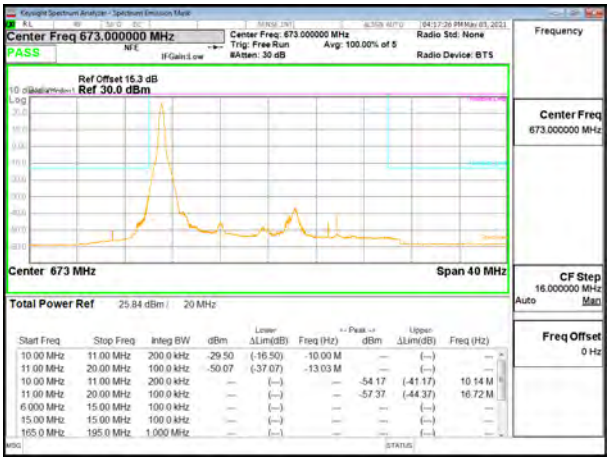
LTE B71 15MHz QPSK Low Channel RB75-0



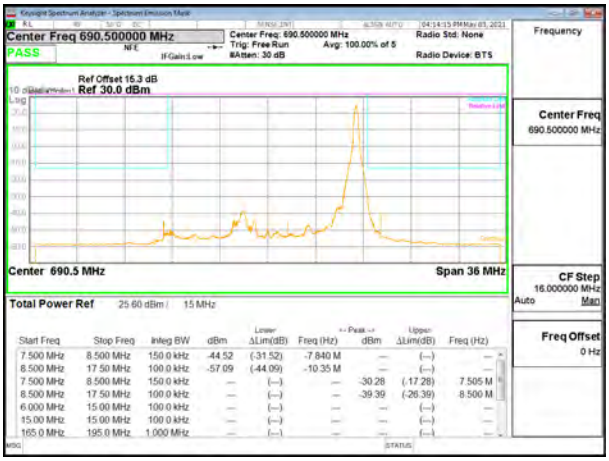
LTE B71 15MHz QPSK Middle Channel RB75-0



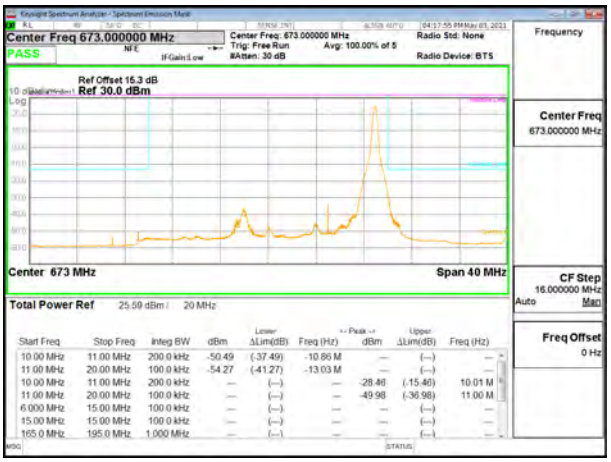
LTE B71 15MHz QPSK High Channel RB1-0



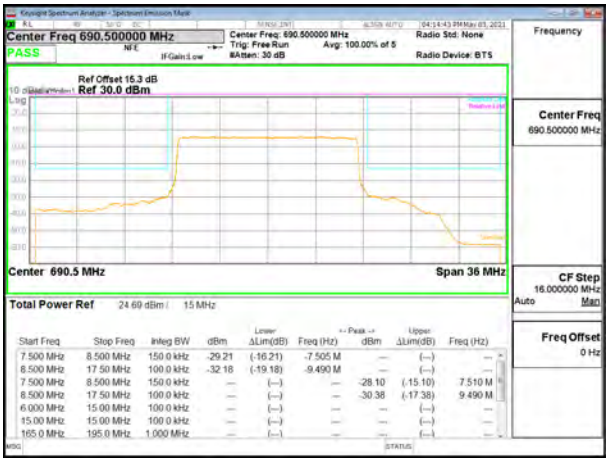
LTE B71 20MHz QPSK Low Channel RB1-0



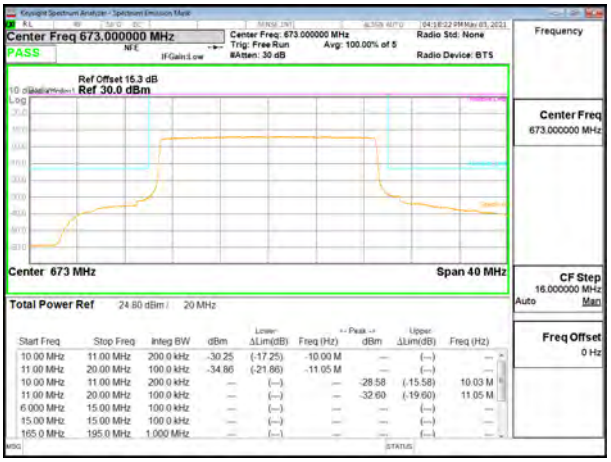
LTE B71 15MHz QPSK High Channel RB1-74



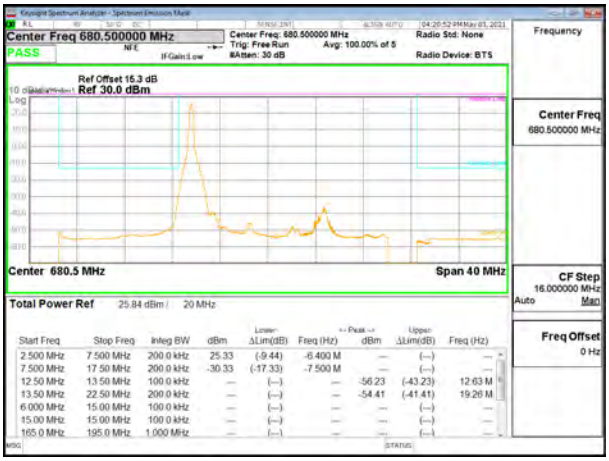
LTE B71 20MHz QPSK Low Channel RB1-99



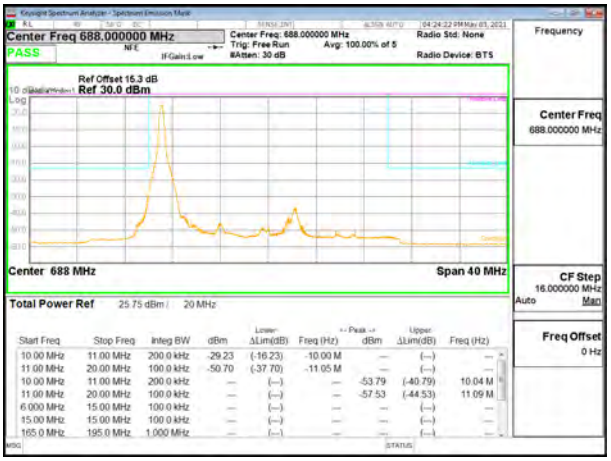
LTE B71 15MHz QPSK High Channel RB75-0



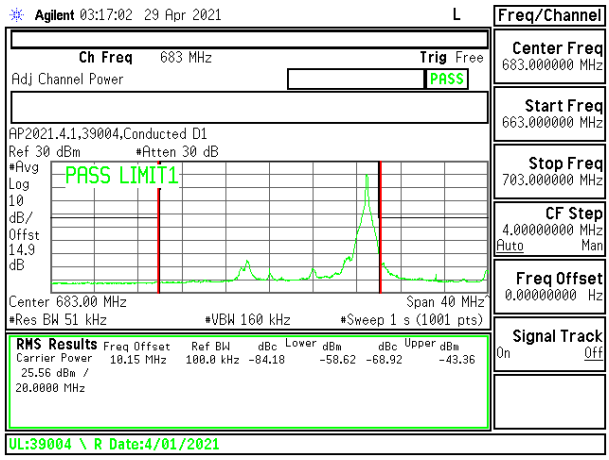
LTE B71 20MHz QPSK Low Channel RB100-0



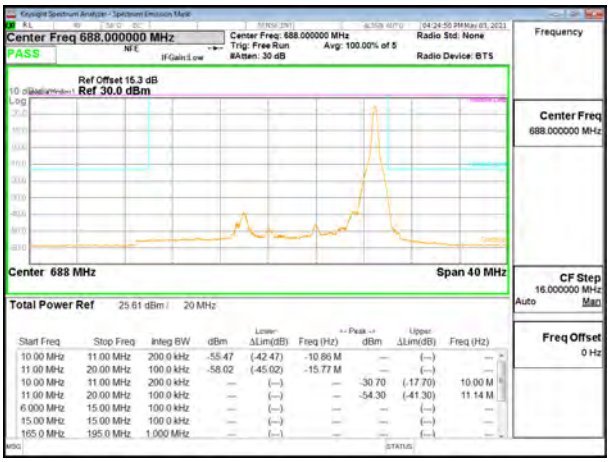
LTE B71 20MHz QPSK Middle Channel RB1-0



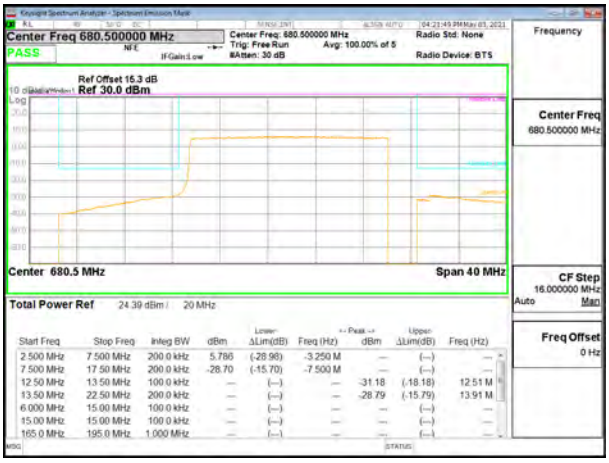
LTE B71 20MHz QPSK High Channel RB1-0



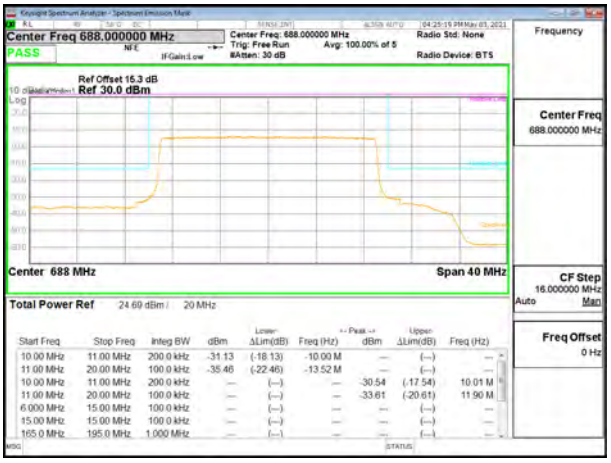
LTE B71 20MHz QPSK Middle Channel RB1-99



LTE B71 20MHz QPSK High Channel RB1-99

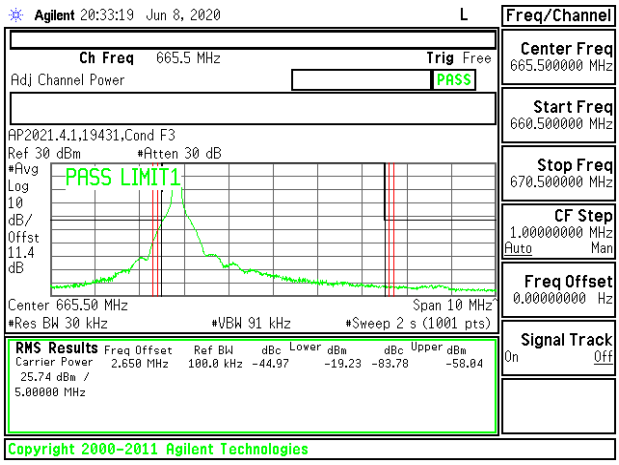


LTE B71 20MHz QPSK Middle Channel RB100-0

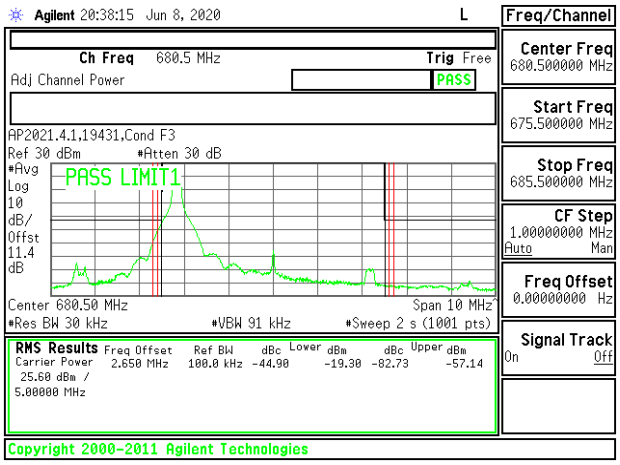


LTE B71 20MHz QPSK High Channel RB100-0

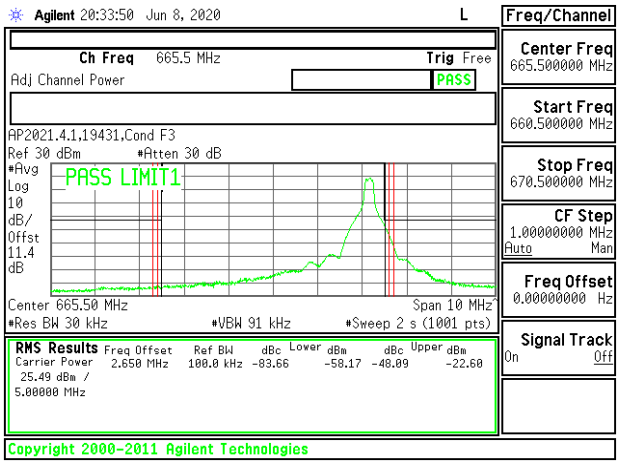
5G NR n71 ADJACENT CHANNEL POWER



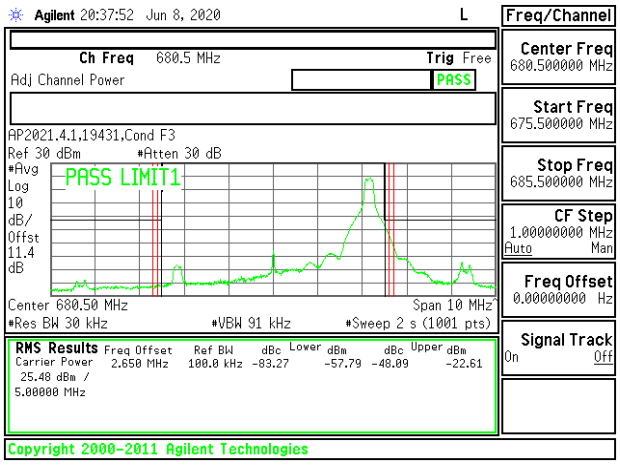
5G NR n71 5MHz BPSK Low Channel RB1-0



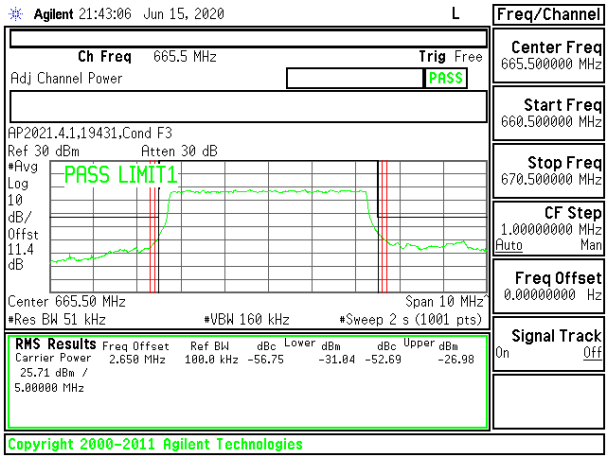
5G NR n71 5MHz BPSK Middle Channel RB1-0



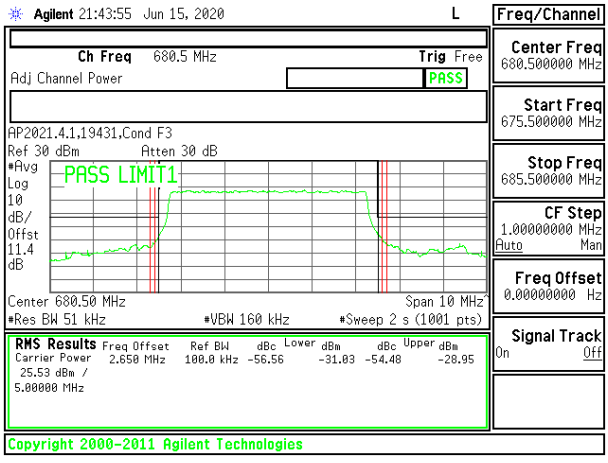
5G NR n71 5MHz BPSK Low Channel RB1-24



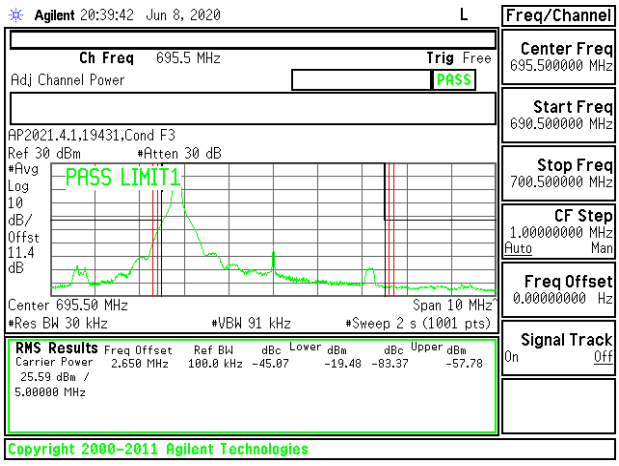
5G NR n71 5MHz BPSK Middle Channel RB1-24



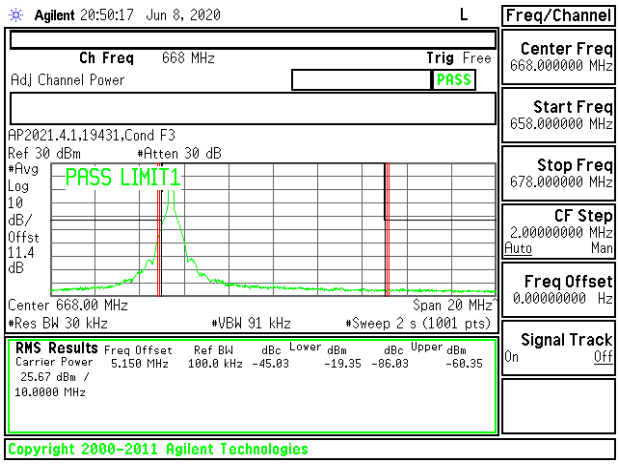
5G NR n71 5MHz BPSK Low Channel RB25-0



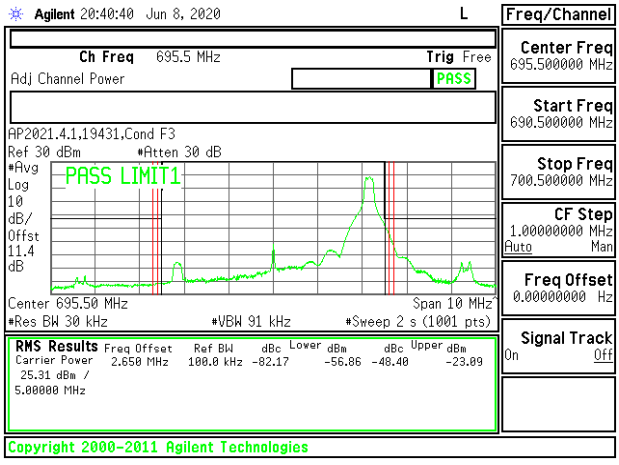
5G NR n71 5MHz BPSK Middle Channel RB25-0



5G NR n71 5MHz BPSK High Channel RB1-0



5G NR n71 10MHz BPSK Low Channel RB1-0



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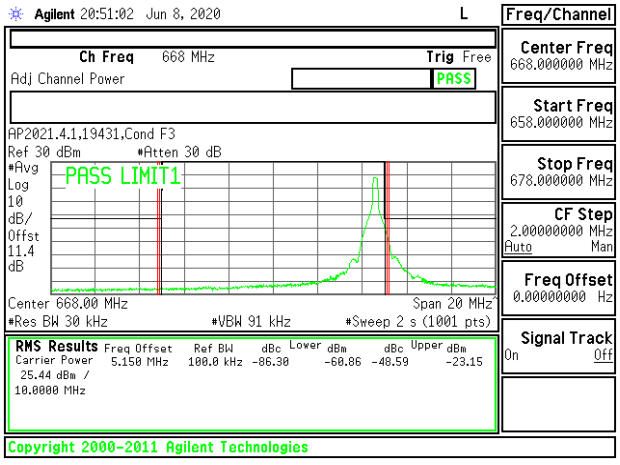
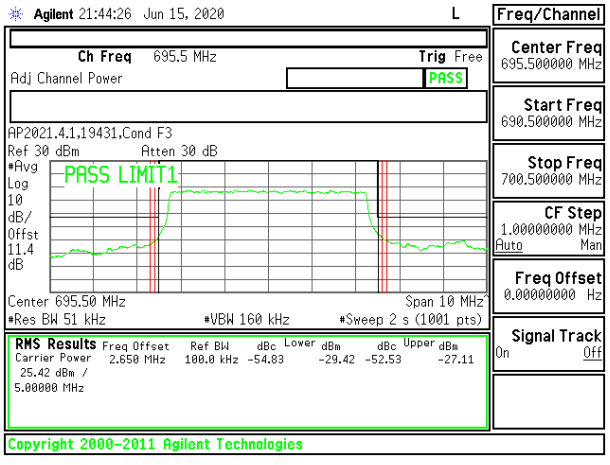
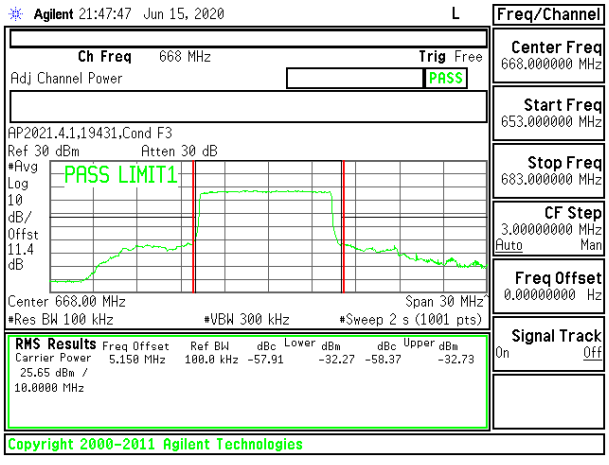


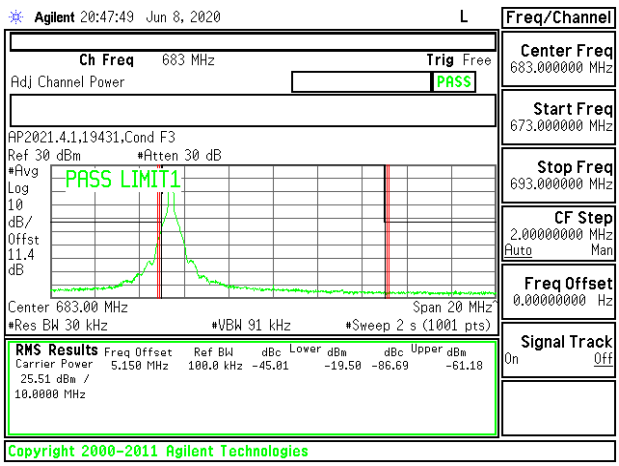
5G NR n71 10MHz BPSK Low Channel RB1-51



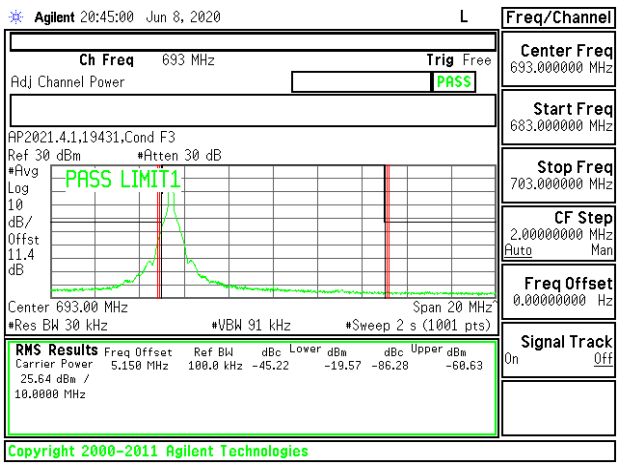
5G NR n71 5MHz BPSK High Channel RB25-0



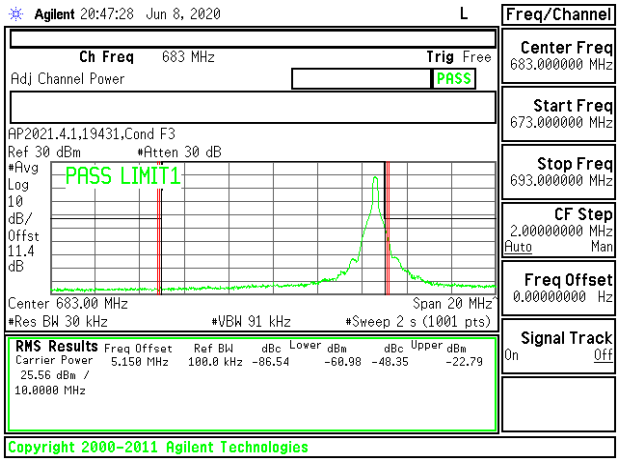
5G NR n71 10MHz BPSK Low Channel RB50-0



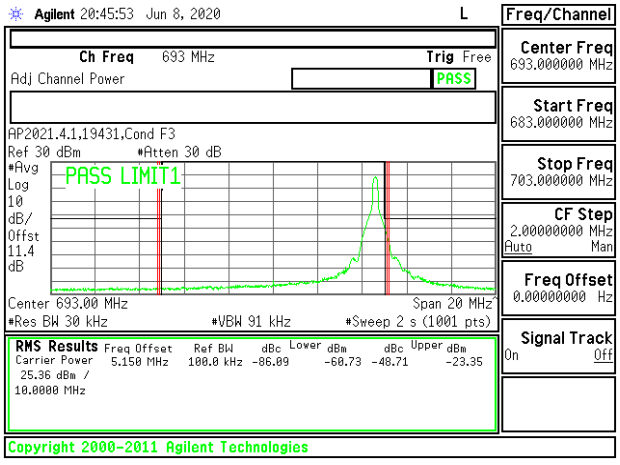
5G NR n71 10MHz BPSK Middle Channel RB1-0



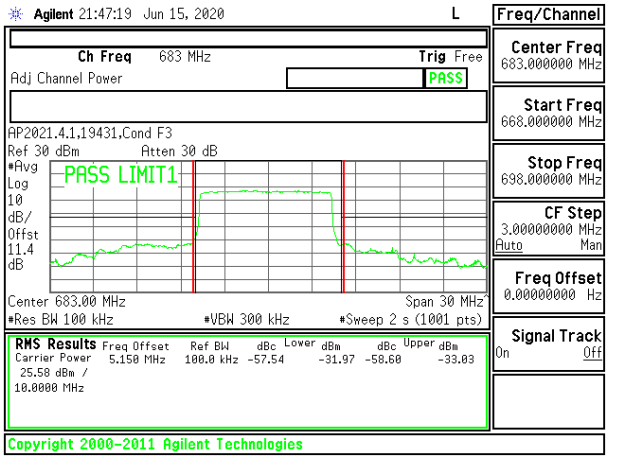
5G NR n71 10MHz BPSK High Channel RB1-0



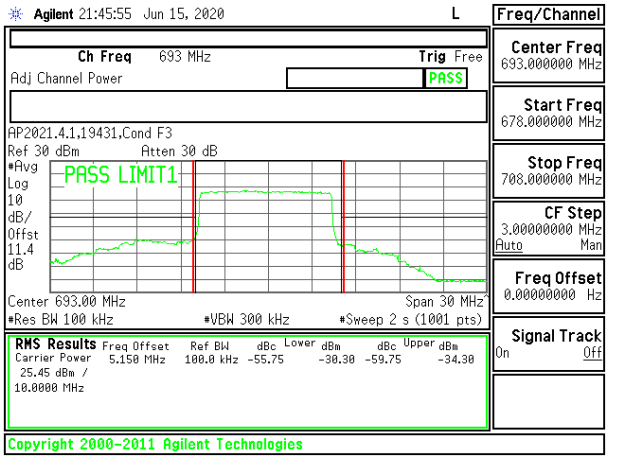
5G NR n71 10MHz BPSK Middle Channel RB1-51



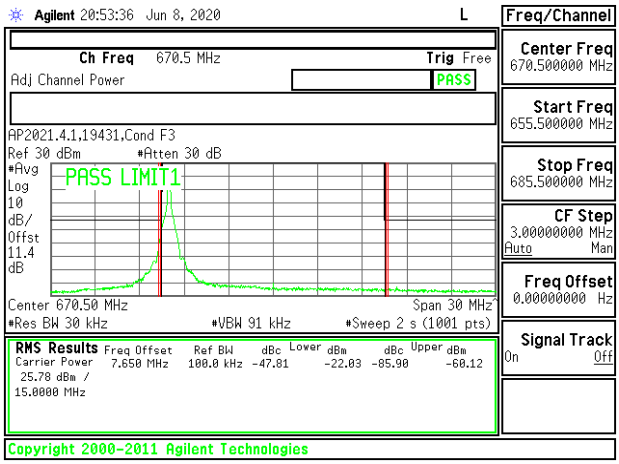
5G NR n71 10MHz BPSK High Channel RB1-51



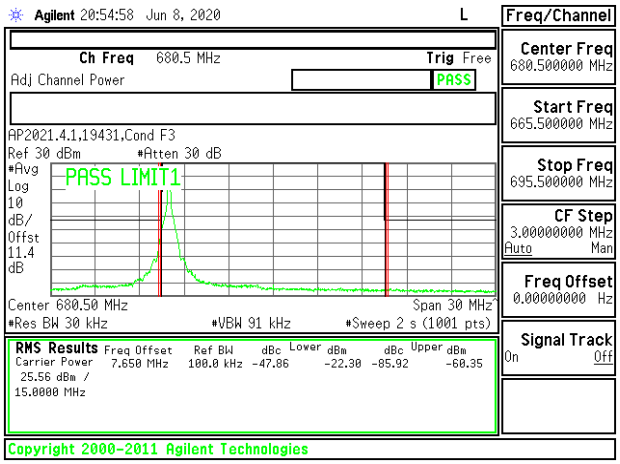
5G NR n71 10MHz BPSK Middle Channel RB50-0



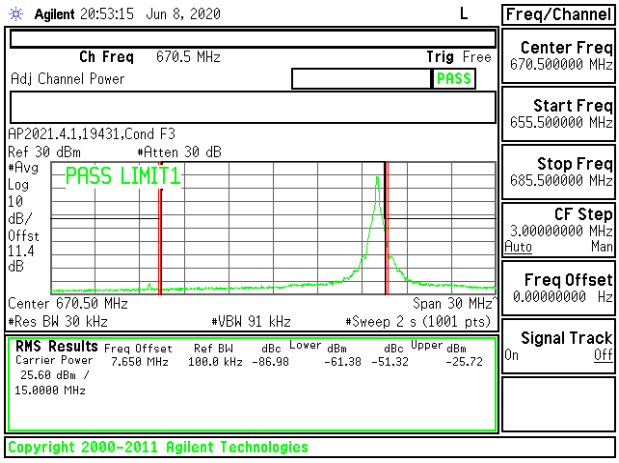
5G NR n71 10MHz BPSK High Channel RB50-0



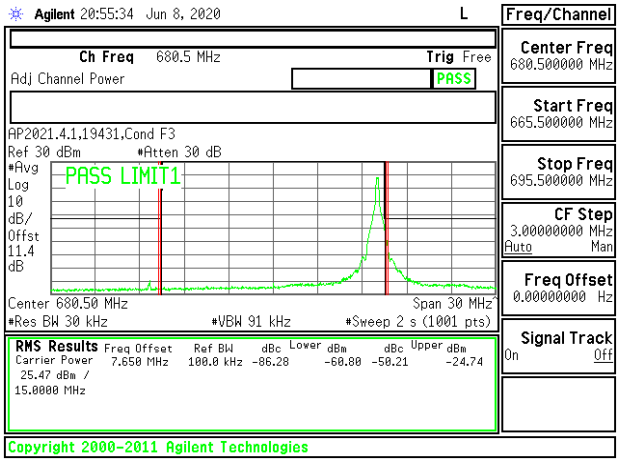
5G NR n71 15MHz BPSK Low Channel RB1-0



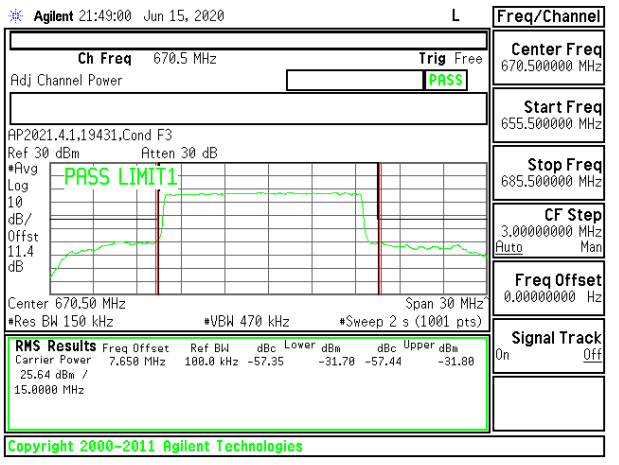
5G NR n71 15MHz BPSK Middle Channel RB1-0



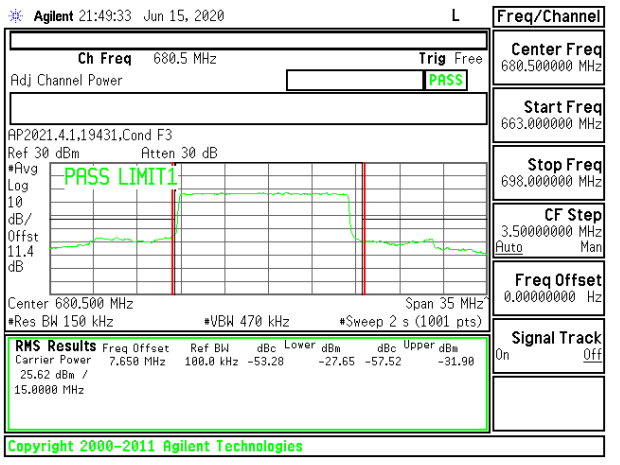
5G NR n71 15MHz BPSK Low Channel RB1-78



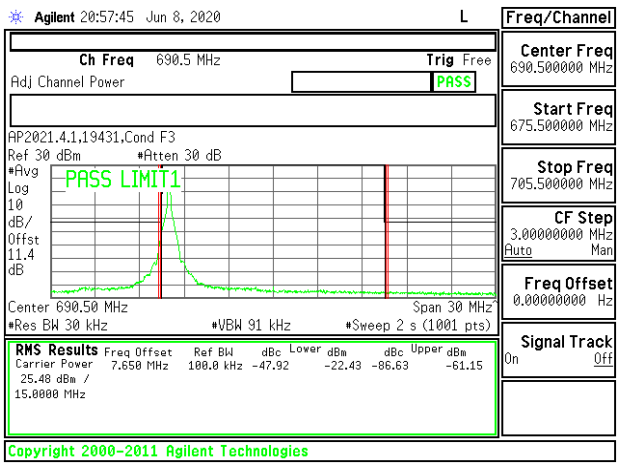
5G NR n71 15MHz BPSK Middle Channel RB1-78



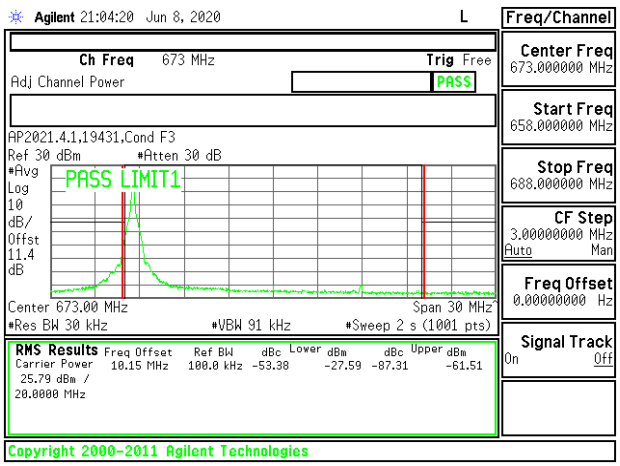
5G NR n71 15MHz BPSK Low Channel RB75-0



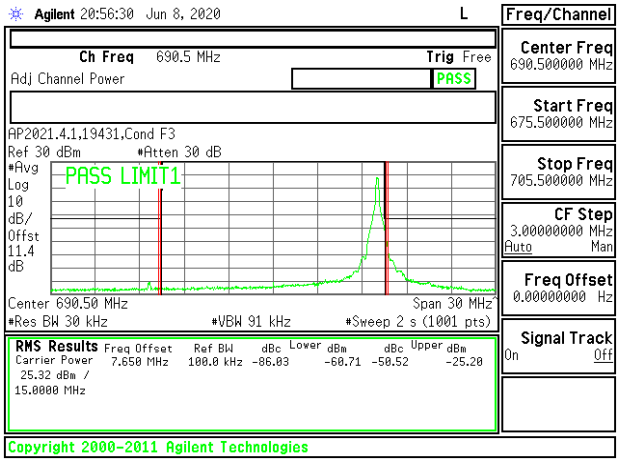
5G NR n71 15MHz BPSK Middle Channel RB75-0



5G NR n71 15MHz BPSK High Channel RB1-0



5G NR n71 20MHz BPSK Low Channel RB1-0



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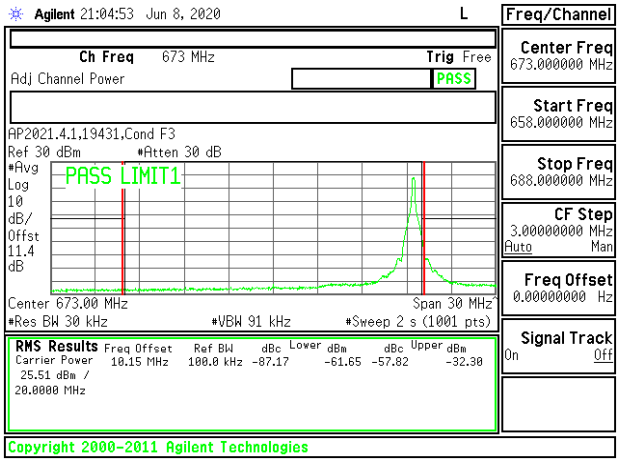
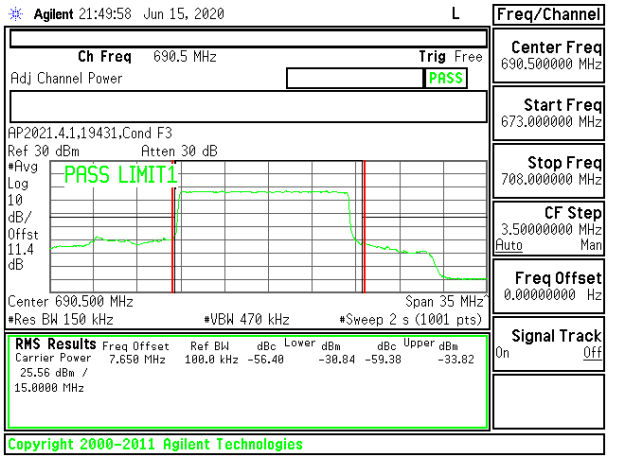


5G NR n71 20MHz BPSK Low Channel RB1-105



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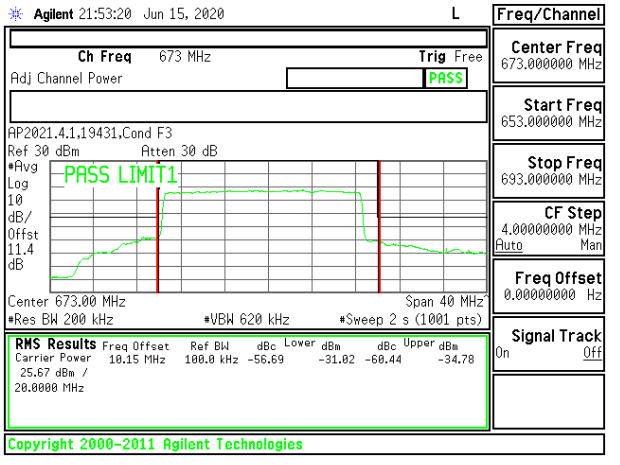

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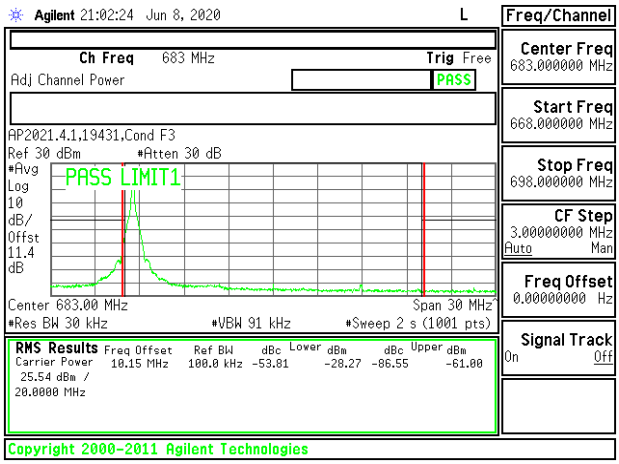
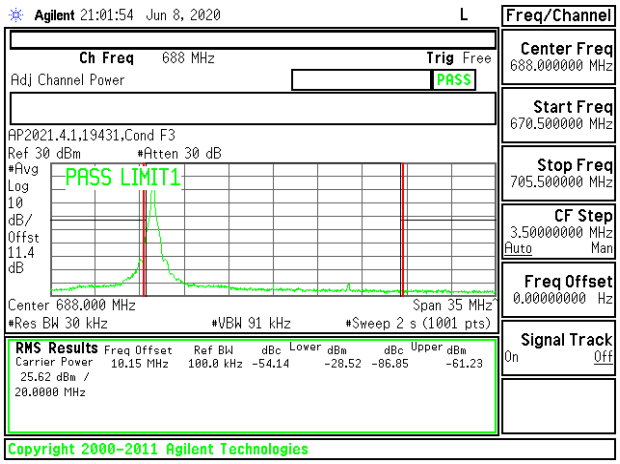


5G NR n71 20MHz BPSK Middle Channel RB1-0



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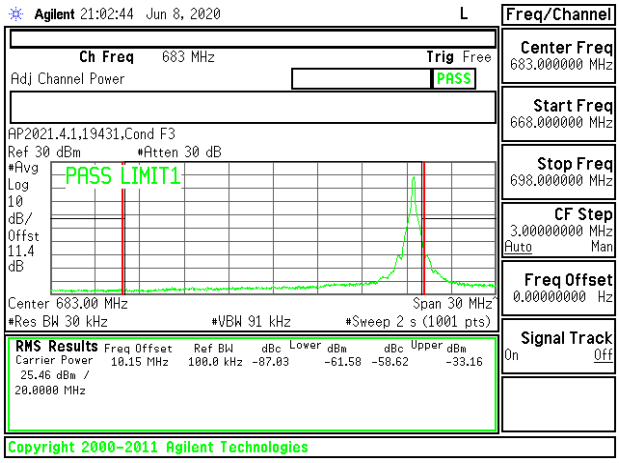

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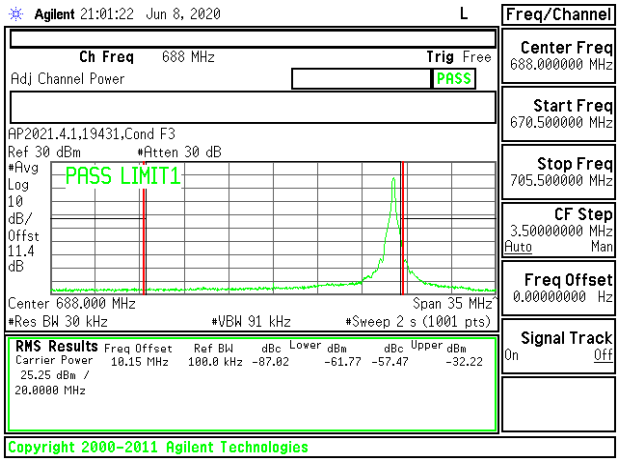

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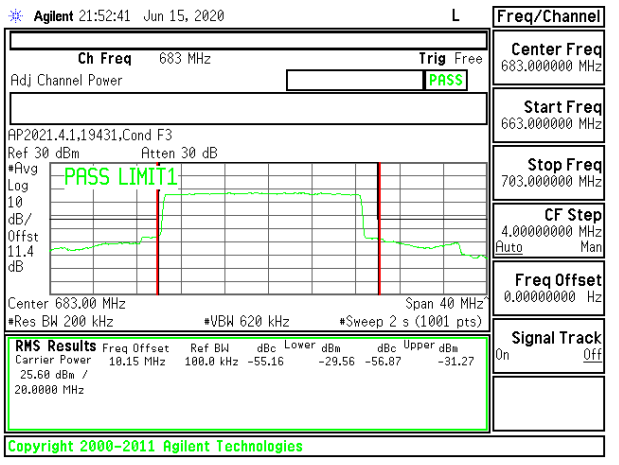

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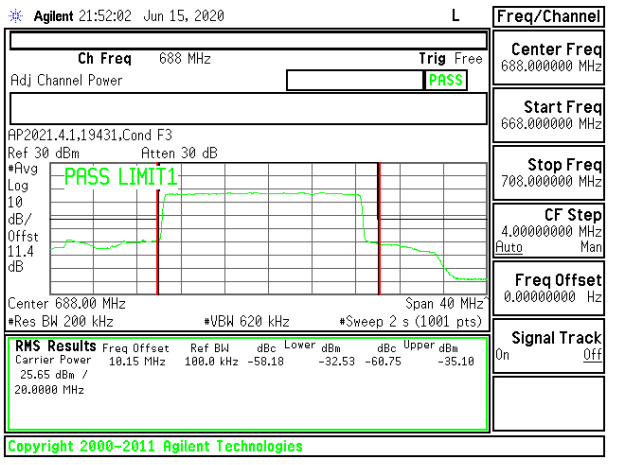


5G NR n71 20MHz BPSK High Channel RB100-0

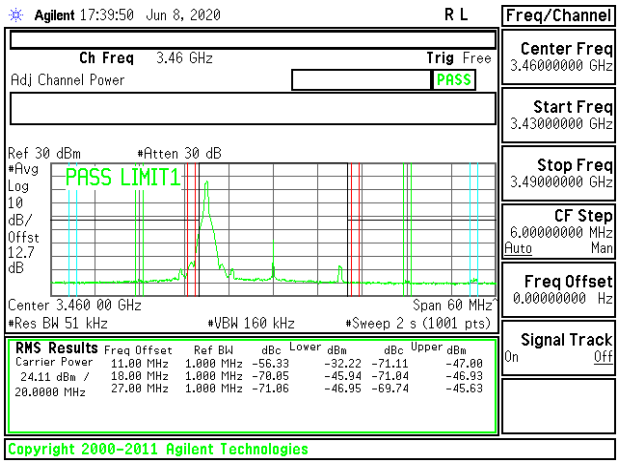
9.2.15. 5G NR n77 ADJACENT CHANNEL POWER (Part 27 3450-3550MHz)

LIMITS

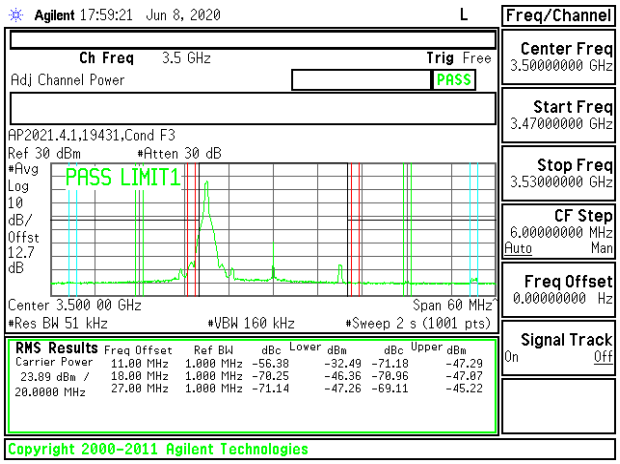
FCC: §27.53

(n) 3.45 GHz Service. The following emission limits apply to stations transmitting in the 3450-3550 MHz band:

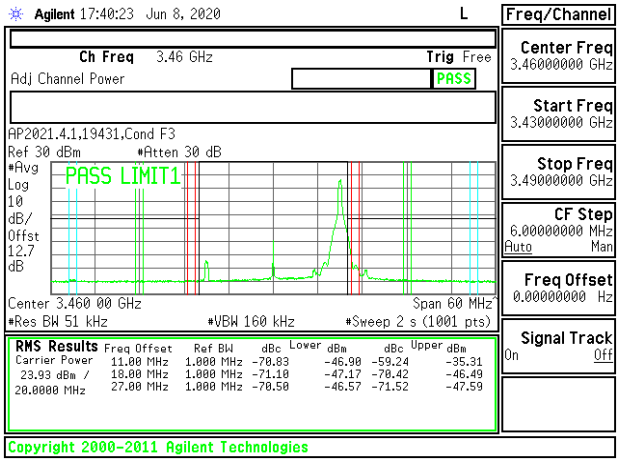
(2) For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed −13 dBm/MHz. Compliance with this paragraph (n)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.



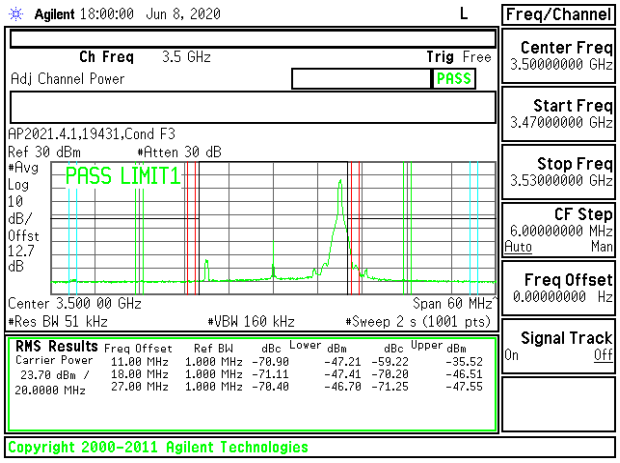
5G NR n77 20MHz BPSK Low Channel RB1-0



5G NR n77 20MHz BPSK Middle Channel RB1-0



5G NR n77 20MHz BPSK Low Channel RB1-50



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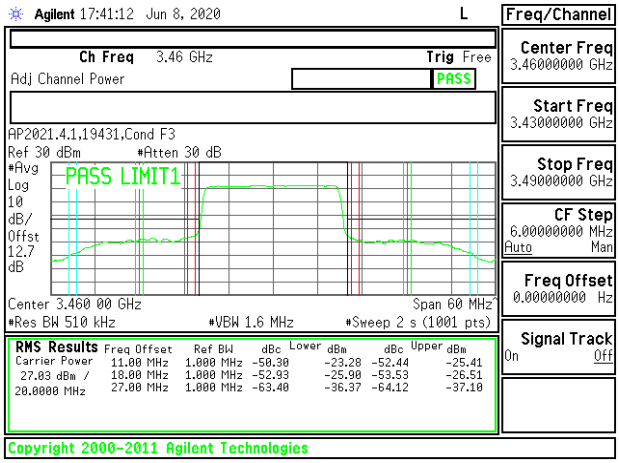
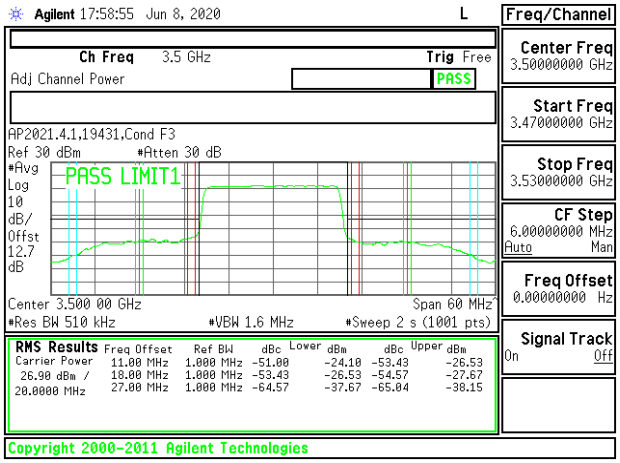


5G NR n77 20MHz BPSK Low Channel RB50-0



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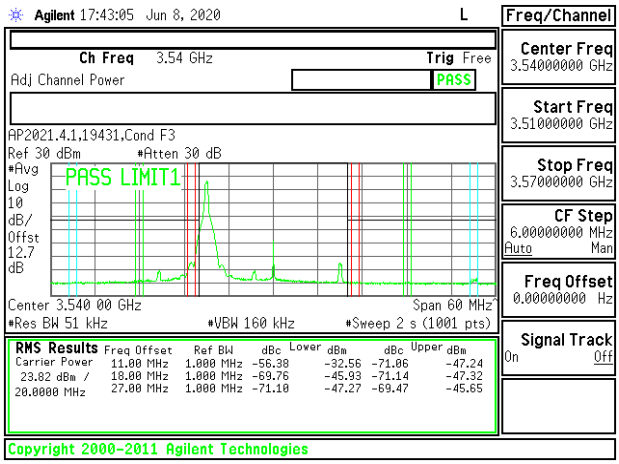
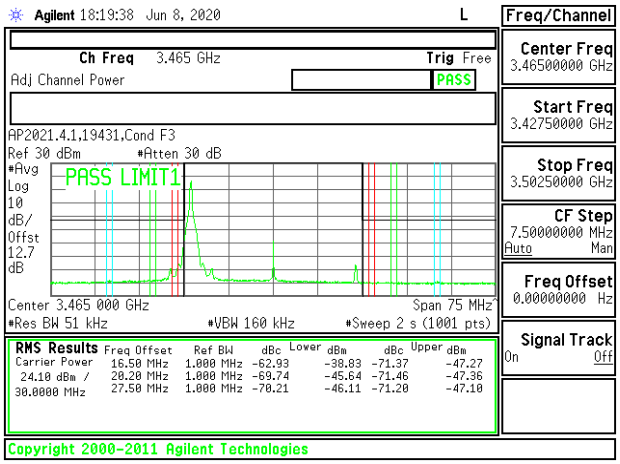
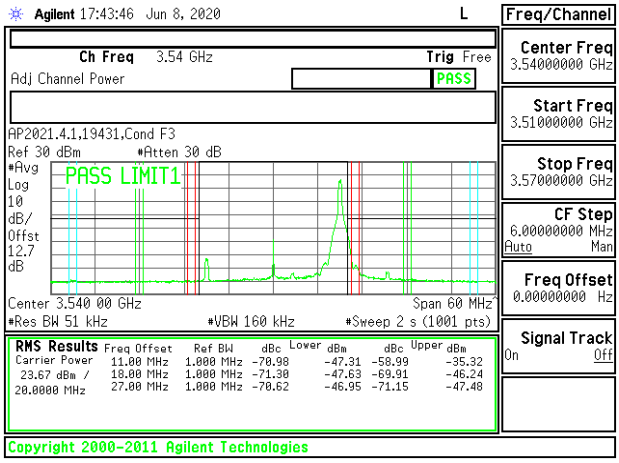


5G NR n77 20MHz BPSK High Channel RB1-0



5G NR n77 30MHz BPSK Low Channel RB1-0



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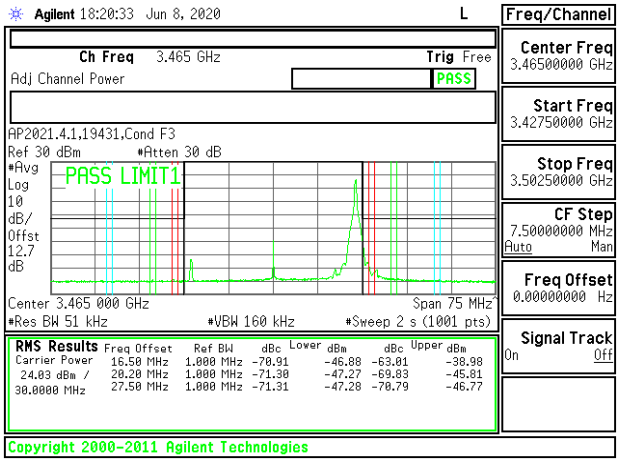

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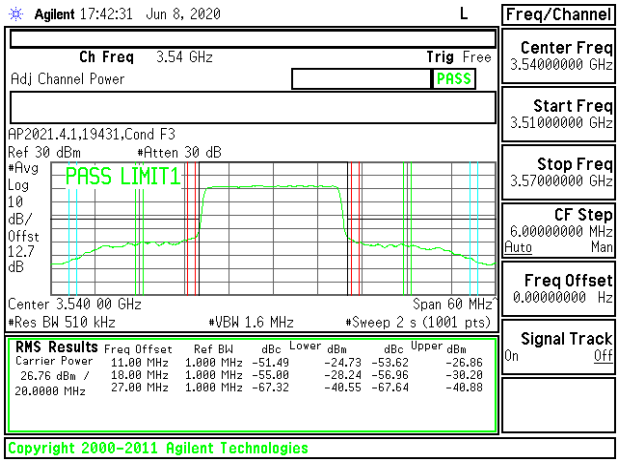

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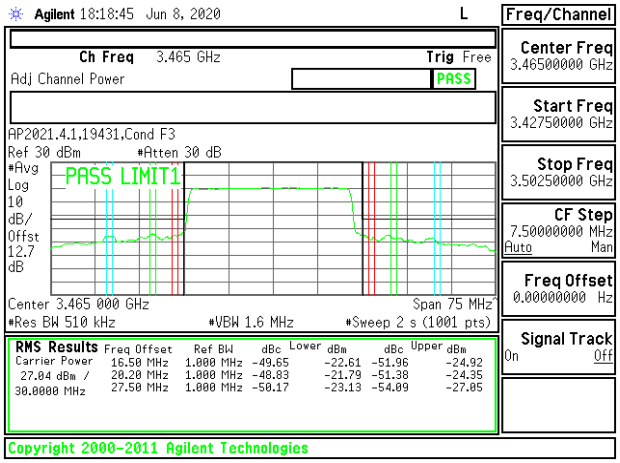

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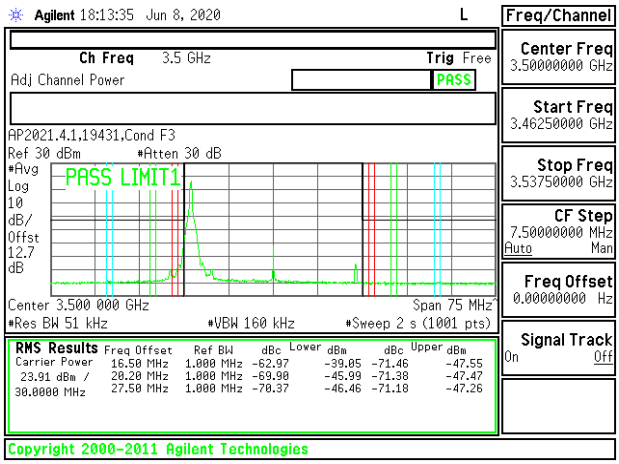
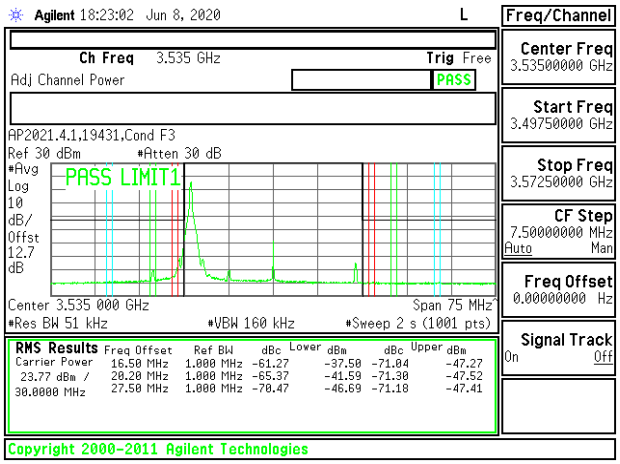
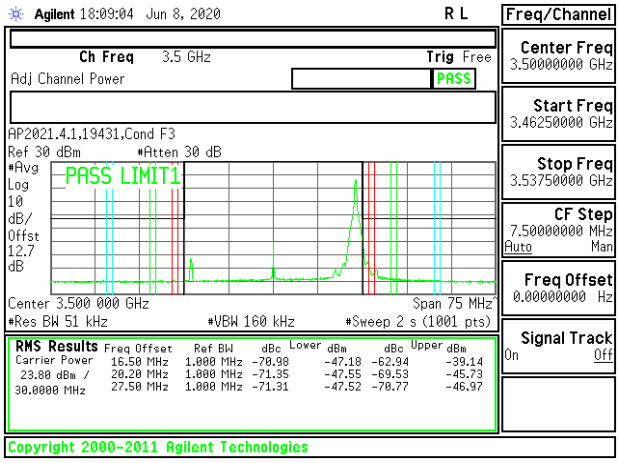


5G NR n77 30MHz BPSK Middle Channel RB1-0



5G NR n77 30MHz BPSK High Channel RB1-0



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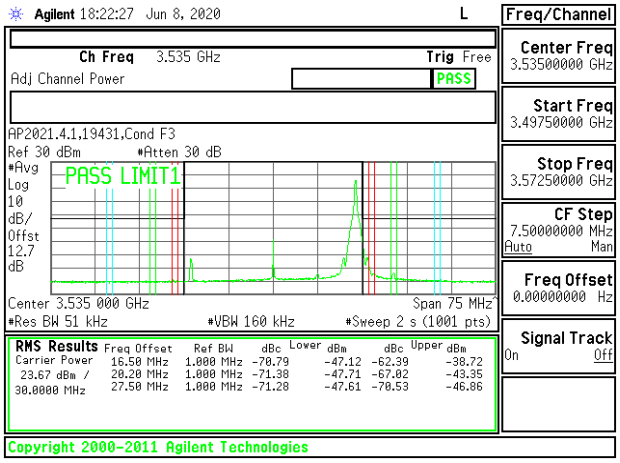

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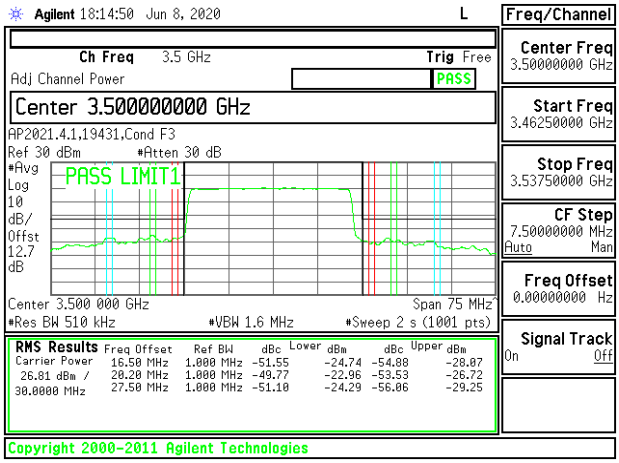

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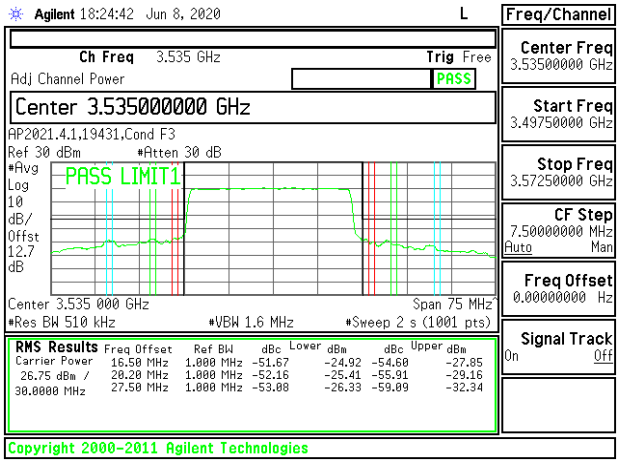
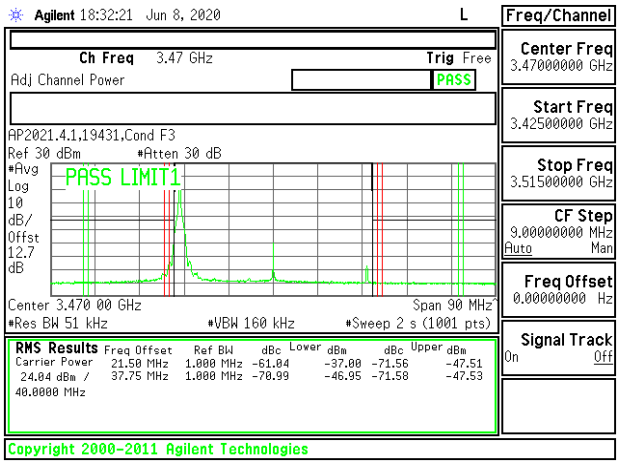
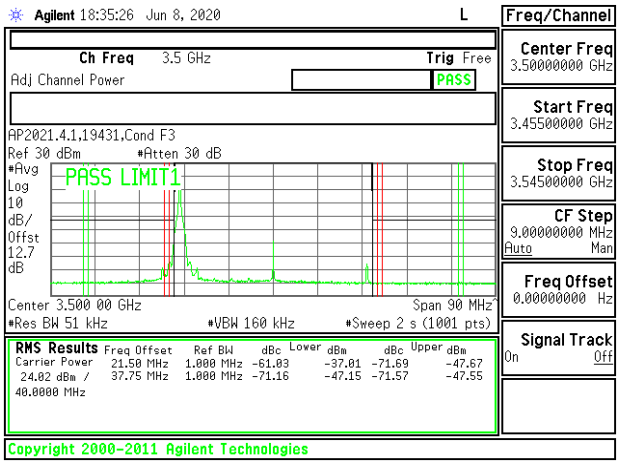


5G NR n77 30MHz BPSK High Channel RB75-0



5G NR n77 40MHz BPSK Low Channel RB1-0



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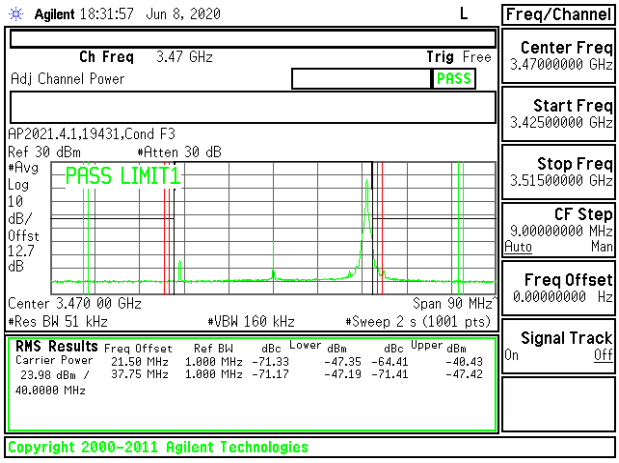

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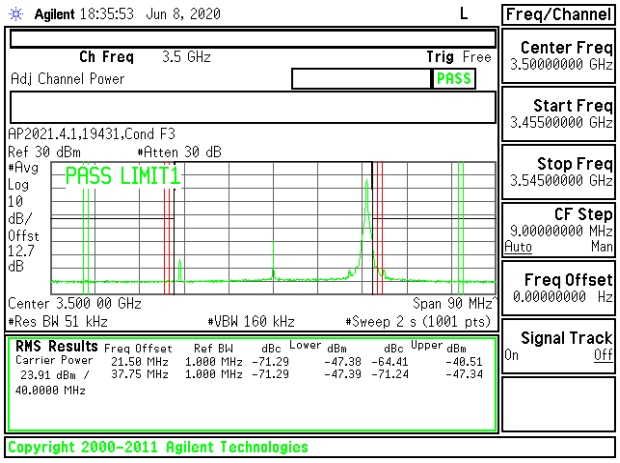
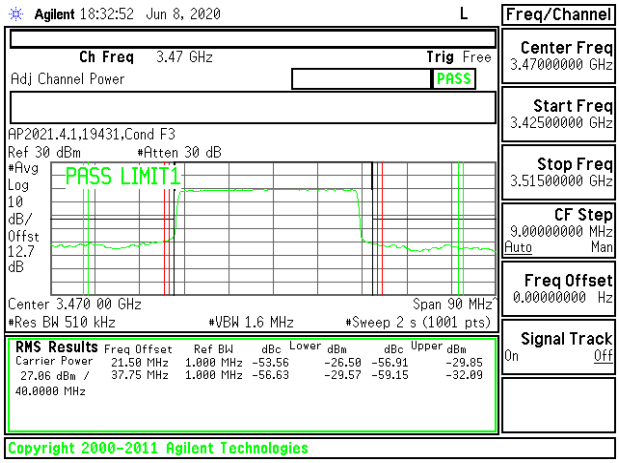


5G NR n77 40MHz BPSK Middle Channel RB1-105



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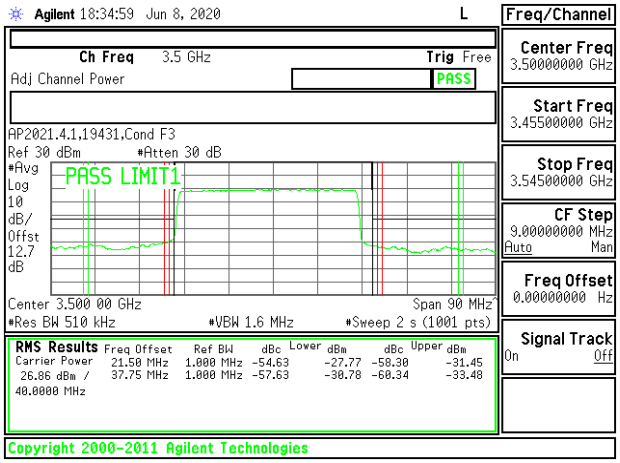

5G NR n77 40MHz BPSK Middle Channel RB100-0