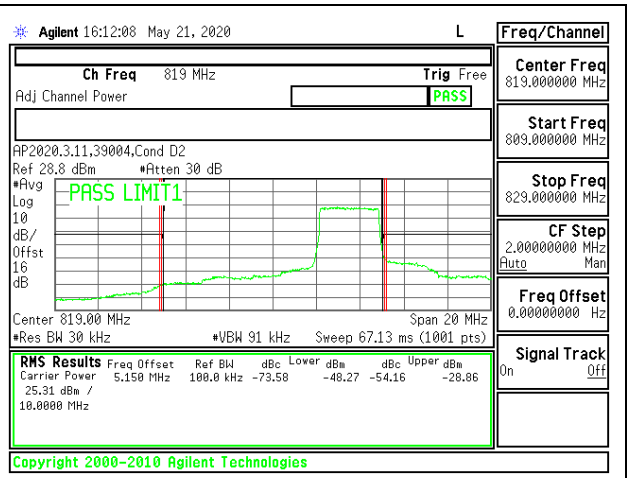
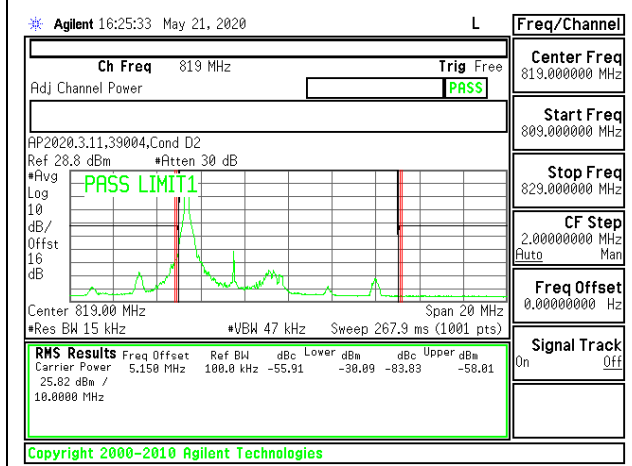


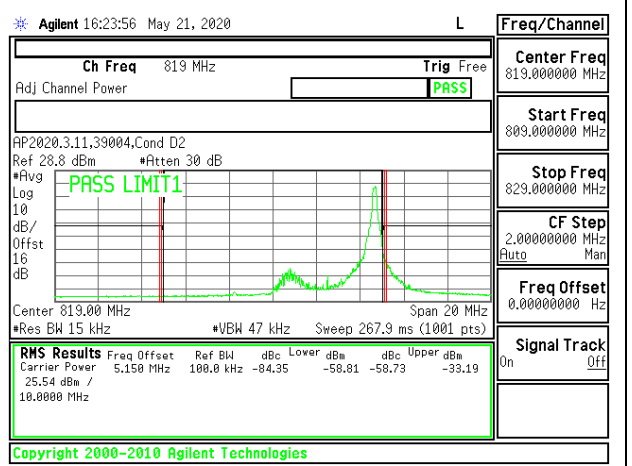
LTE B26 3MHz QPSK Low Channel RB15-0



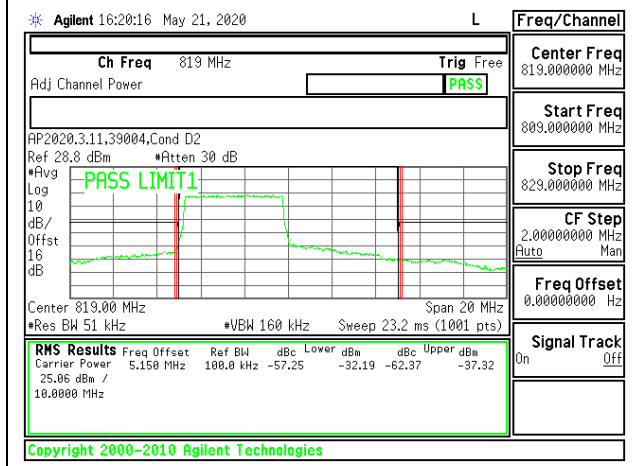
LTE B26 3MHz QPSK High Channel RB15-0



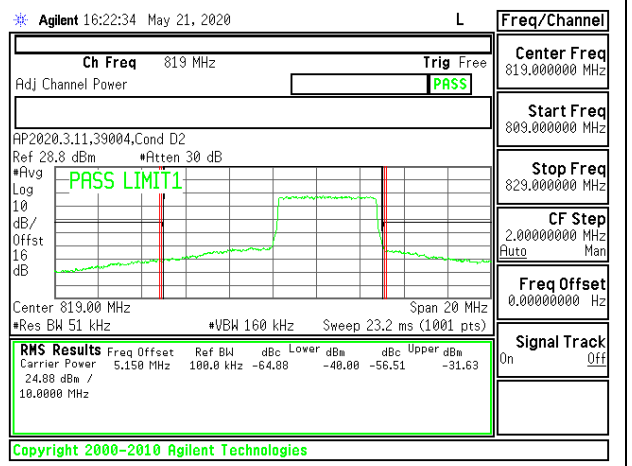
LTE B26 5MHz QPSK Low Channel RB1-0



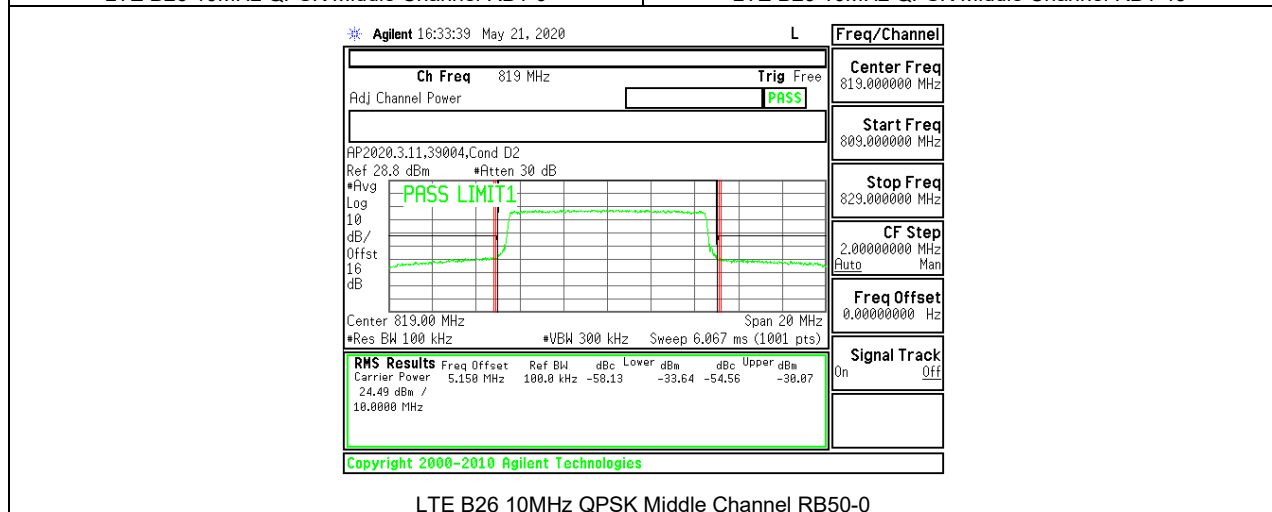
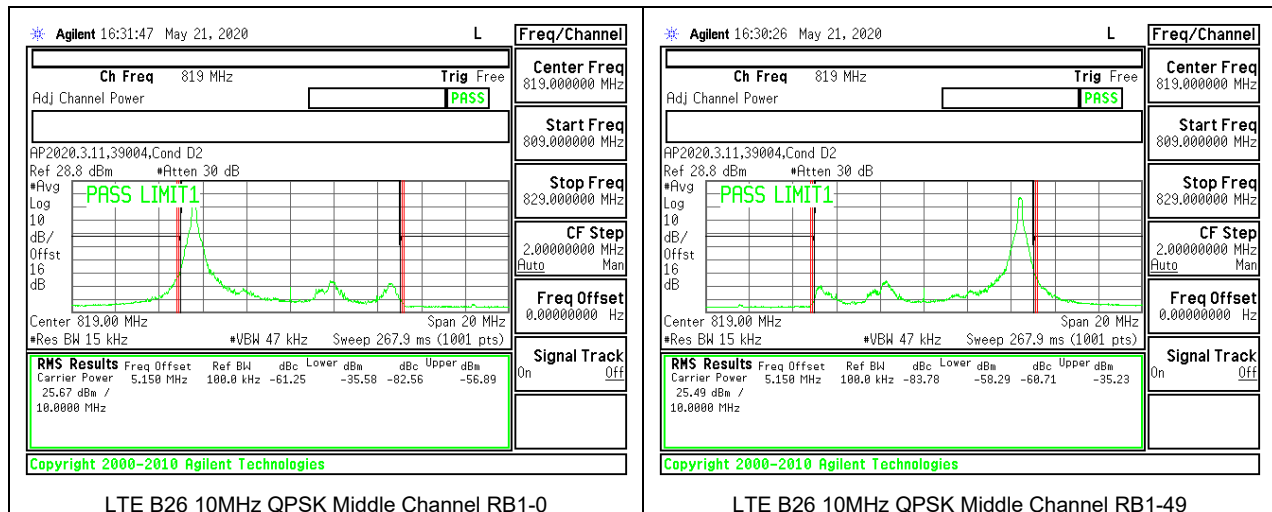
LTE B26 5MHz QPSK High Channel RB1-24



LTE B26 5MHz QPSK Low Channel RB25-0



LTE B26 5MHz QPSK High Channel RB25-0



8.2.10. LTE BAND 30 ADJACENT CHANNEL POWER

LIMITS

FCC: §27.53

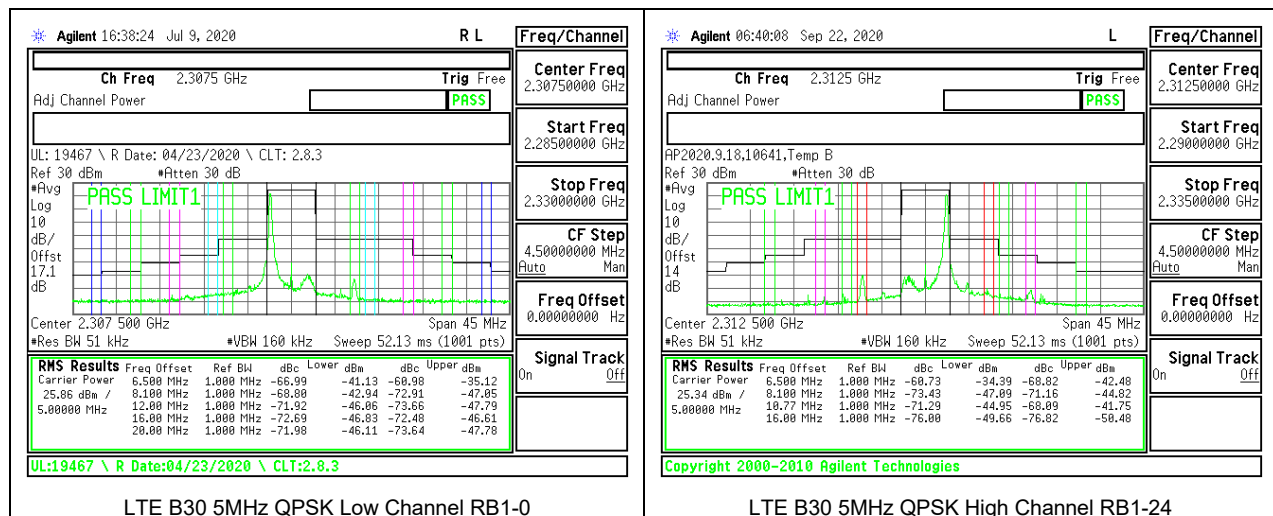
(a) For operations in the 2305-2320 MHz band and the 2345-2360 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power P (with averaging performed only during periods of transmission) within the licensed band(s) of operation,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

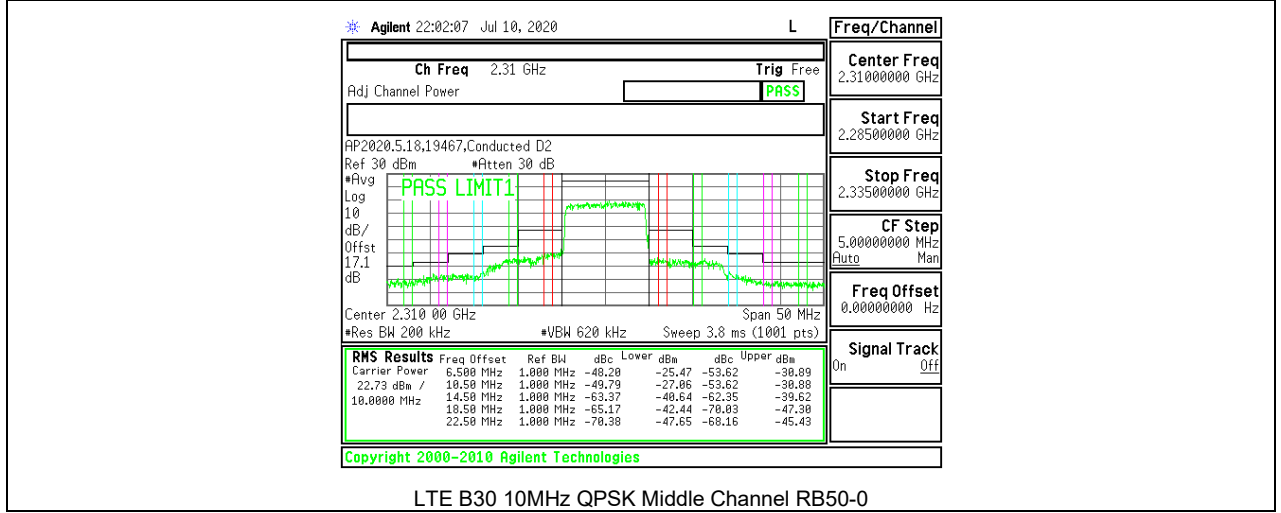
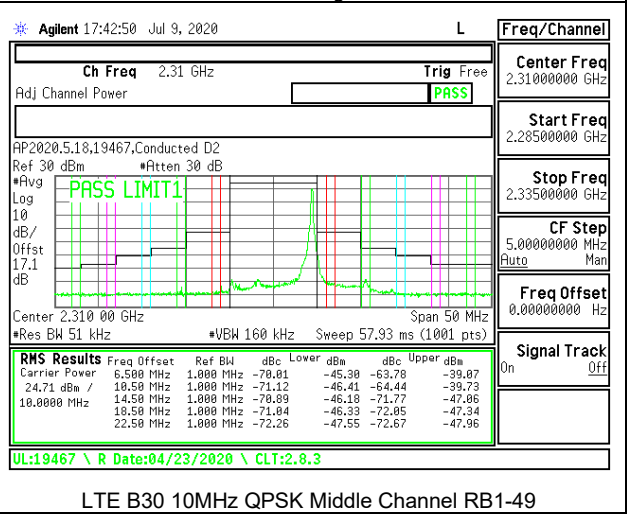
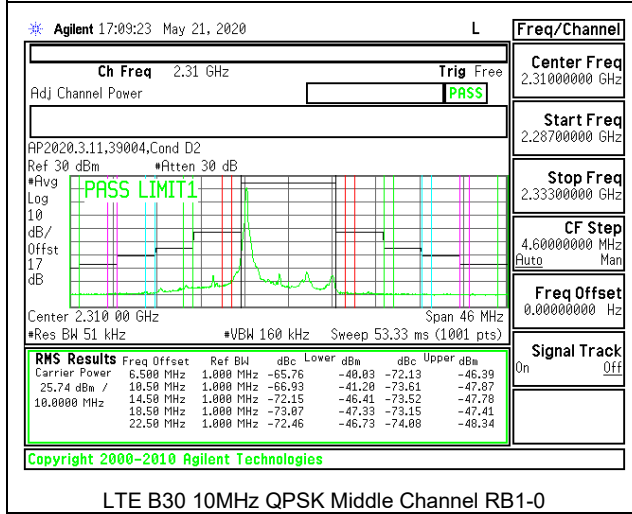
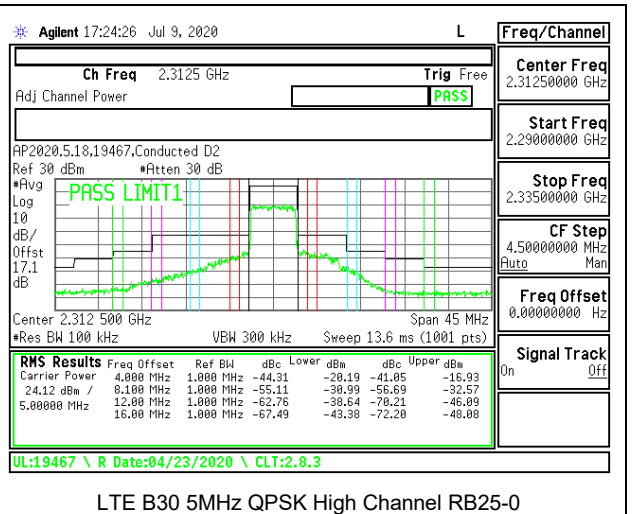
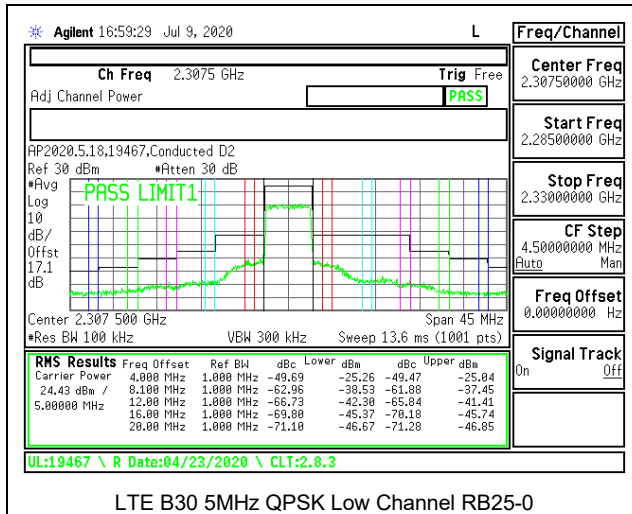
(4) For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:

(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.





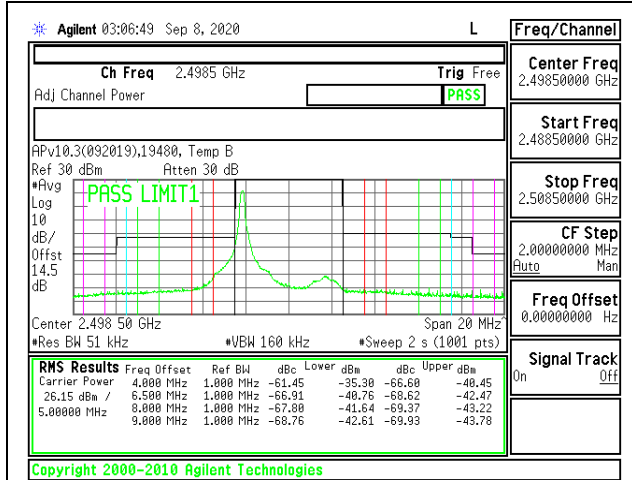
8.2.11. LTE BAND 41 and 5G NR BAND n41 ADJACENT CHANNEL POWER

LIMITS

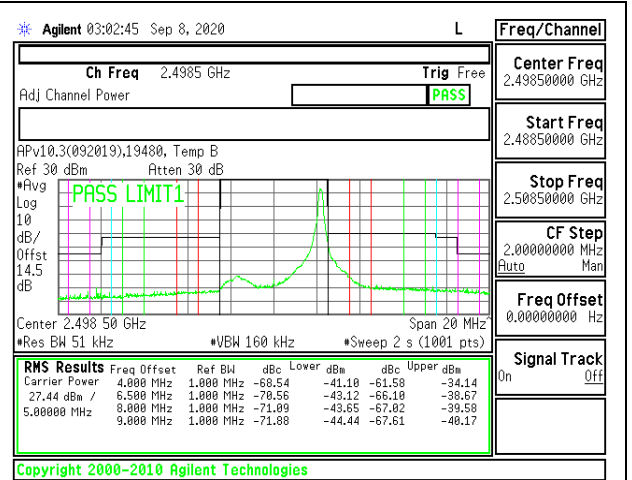
FCC: §27.53

(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 than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

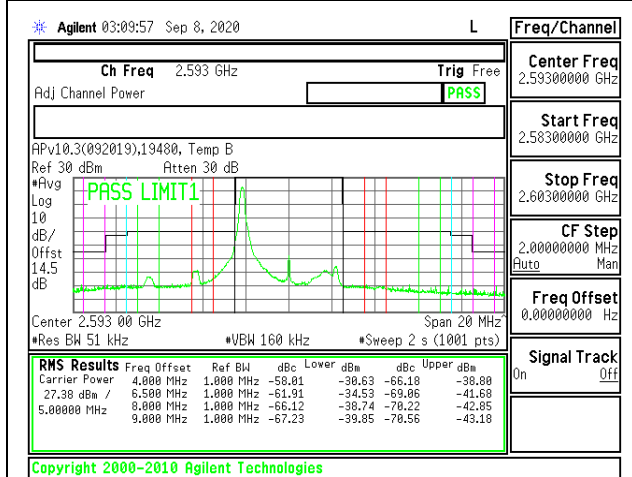
LTE BAND 41 ADJACENT CHANNEL POWER



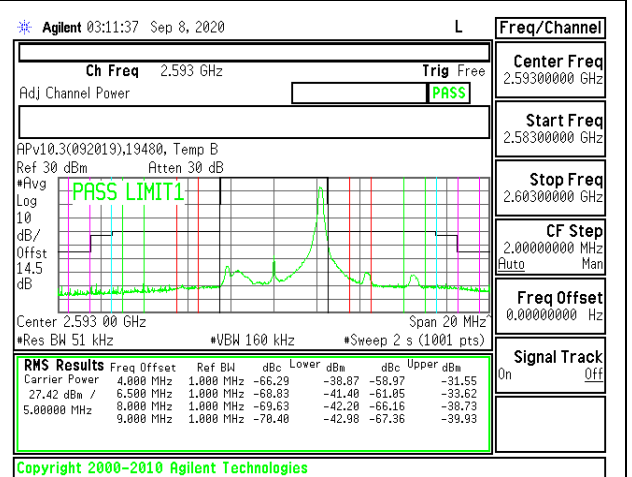
LTE B41 5MHz QPSK Low Channel RB1-0



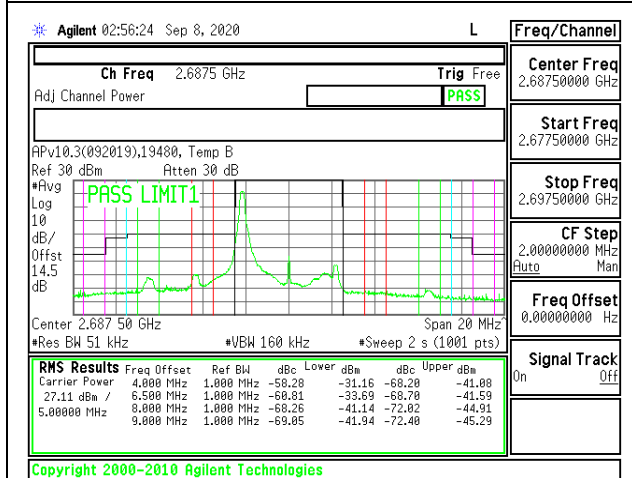
LTE B41 5MHz QPSK Low Channel RB1-24



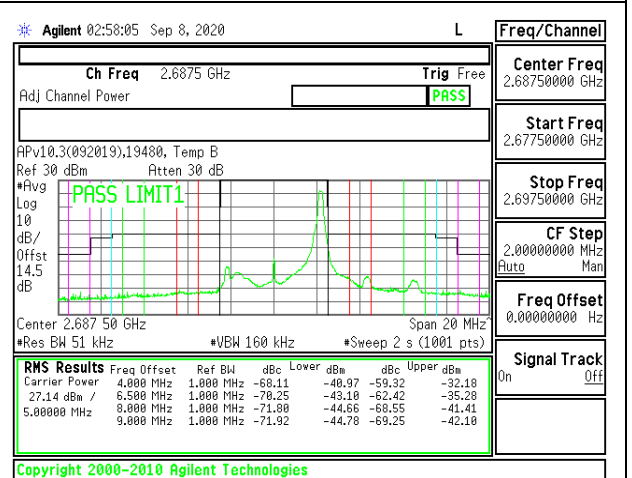
LTE B41 5MHz QPSK Middle Channel RB1-0



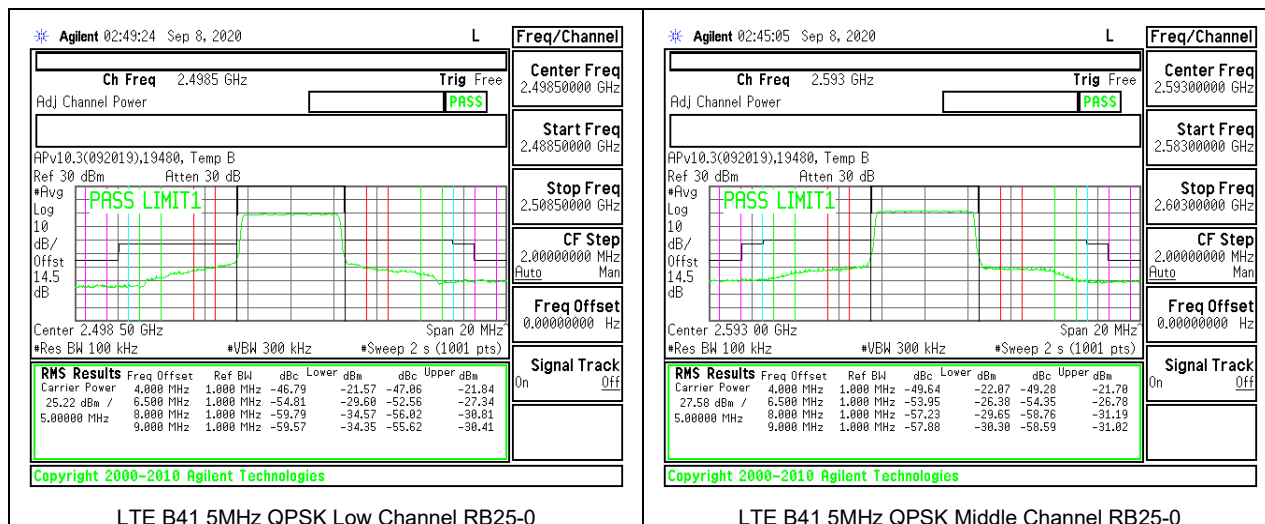
LTE B41 5MHz QPSK Middle Channel RB1-24



LTE B41 5MHz QPSK High Channel RB1-0

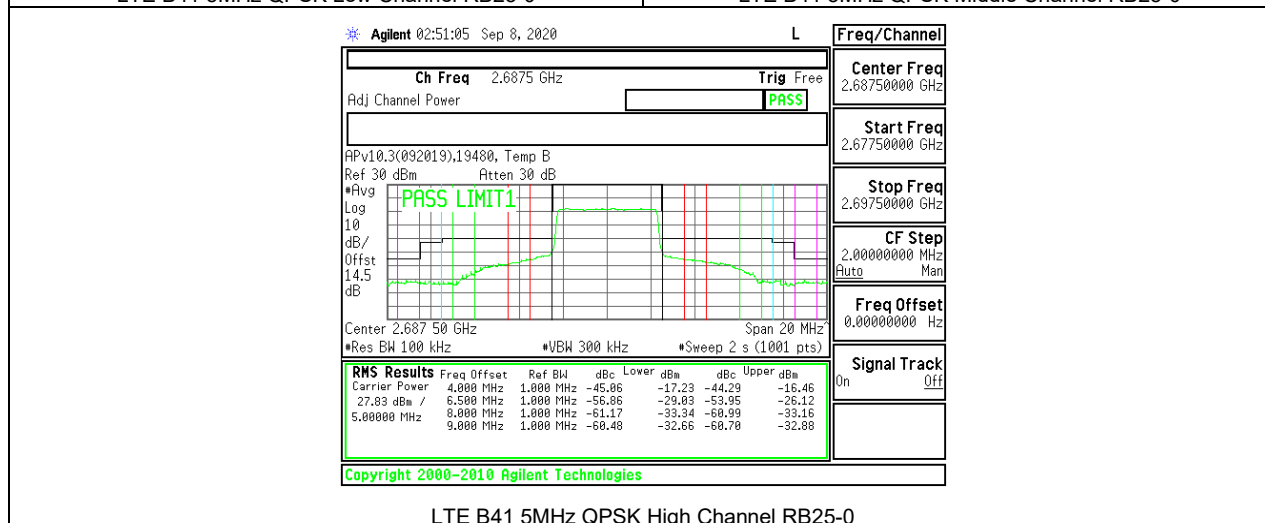


LTE B41 5MHz QPSK High Channel RB1-24

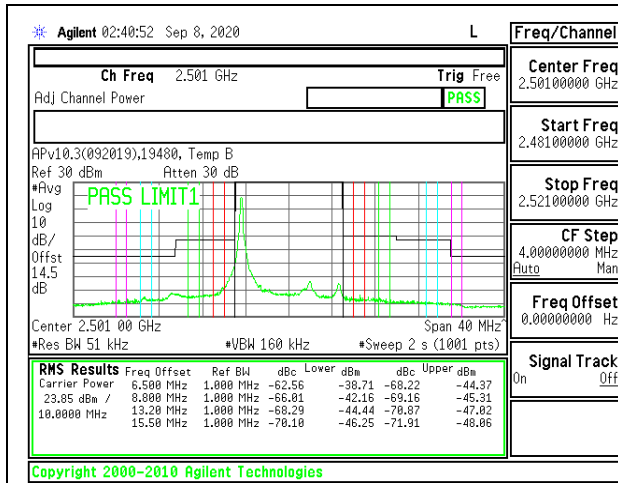


LTE B41 5MHz QPSK Low Channel RB25-0

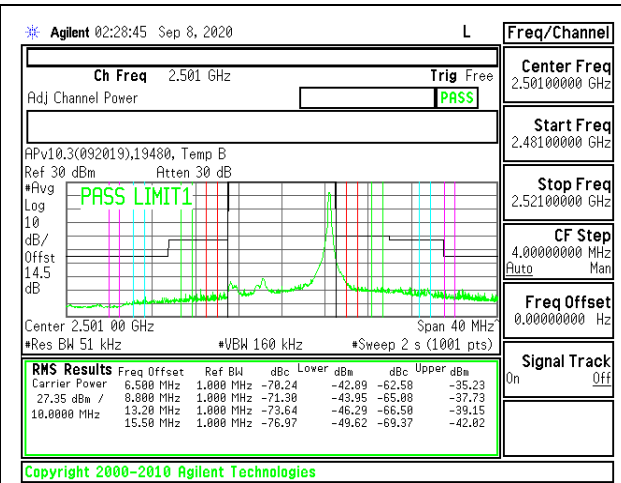
LTE B41 5MHz QPSK Middle Channel RB25-0



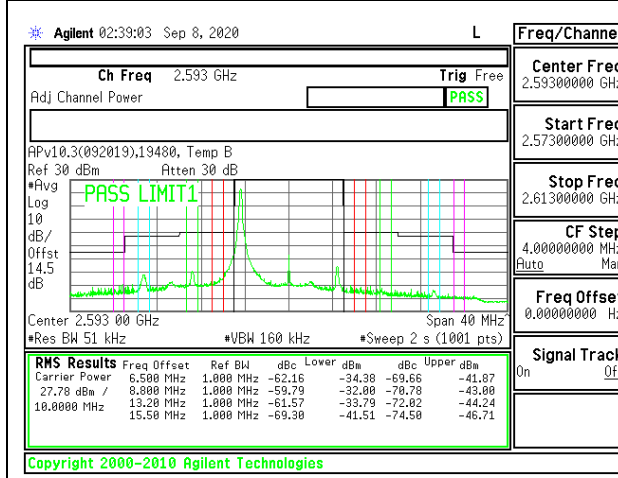
LTE B41 5MHz QPSK High Channel RB25-0



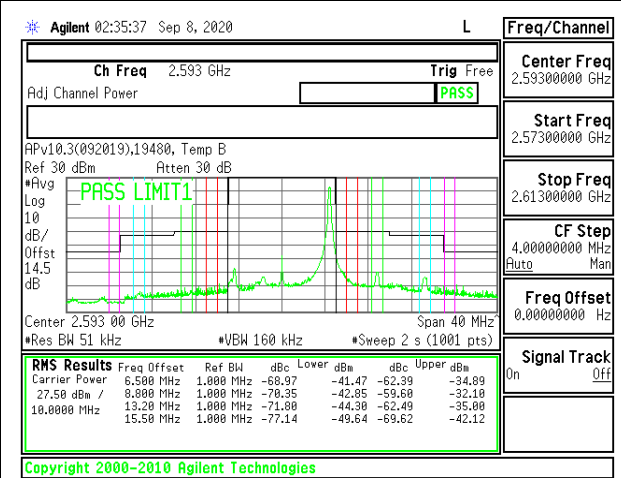
LTE B41 10MHz QPSK Low Channel RB1-0



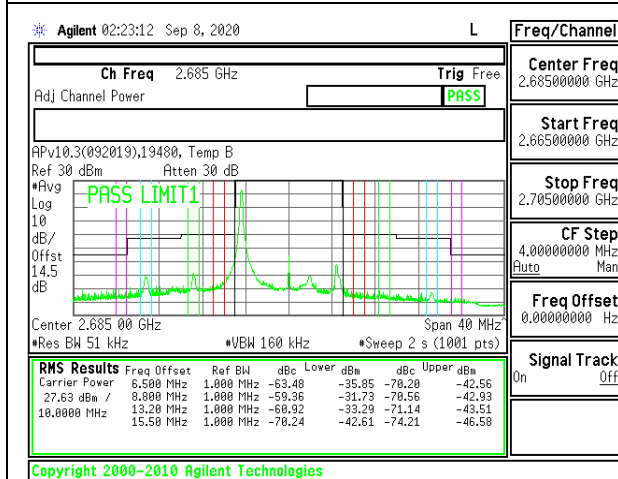
LTE B41 10MHz QPSK Low Channel RB1-49



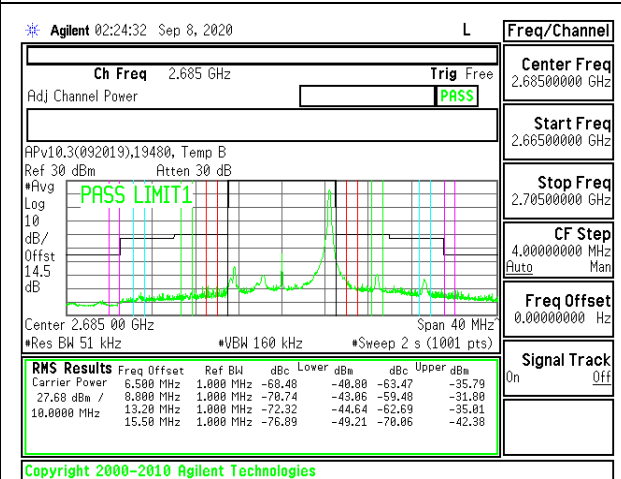
LTE B41 10MHz QPSK Middle Channel RB1-0



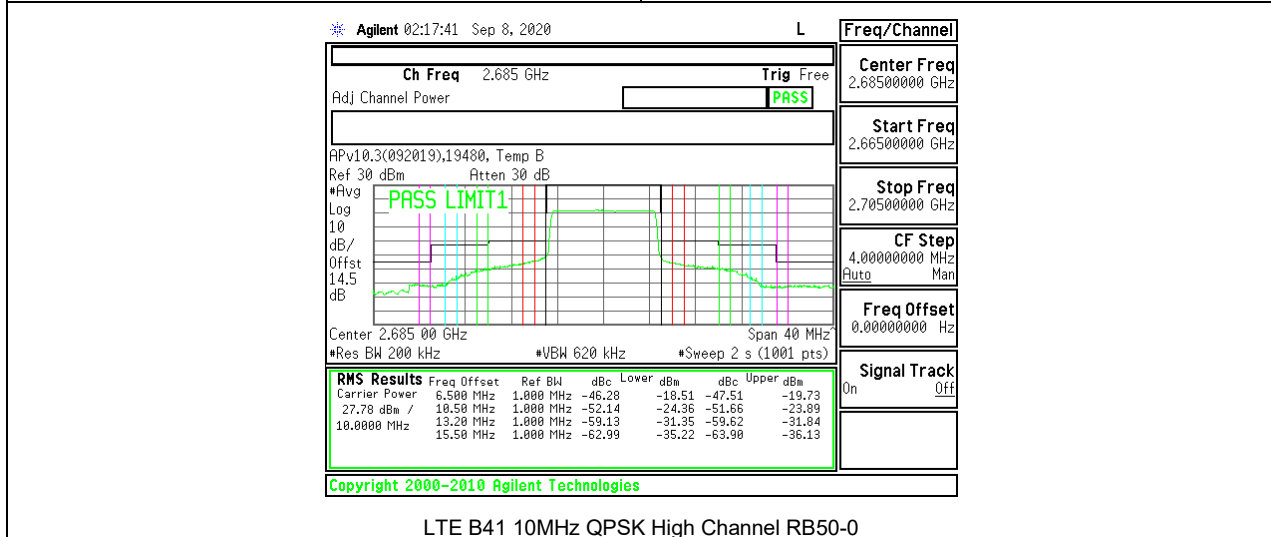
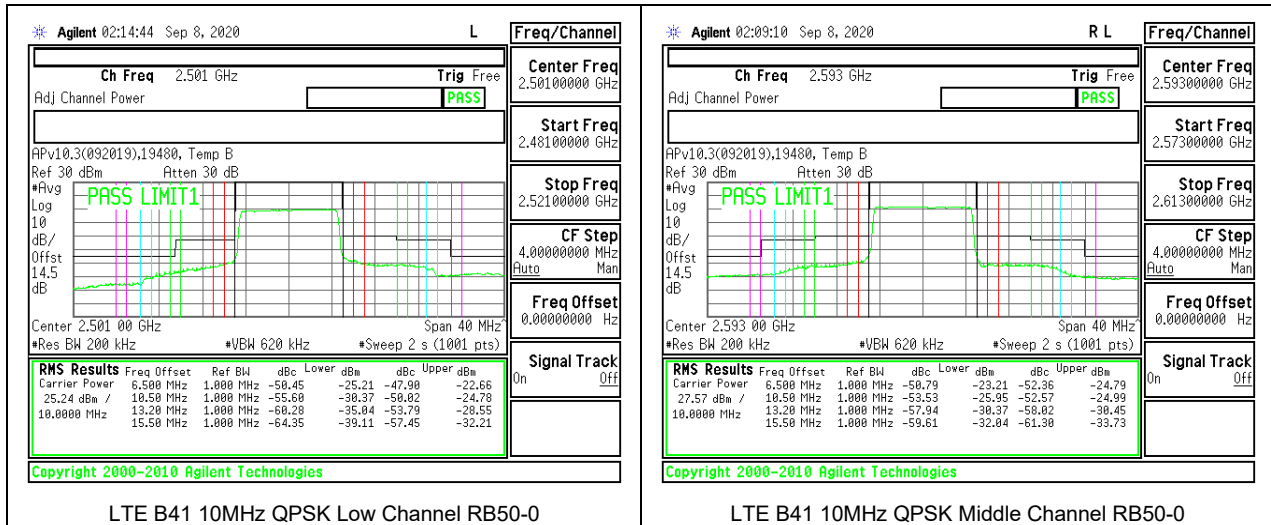
LTE B41 10MHz QPSK Middle Channel RB1-49

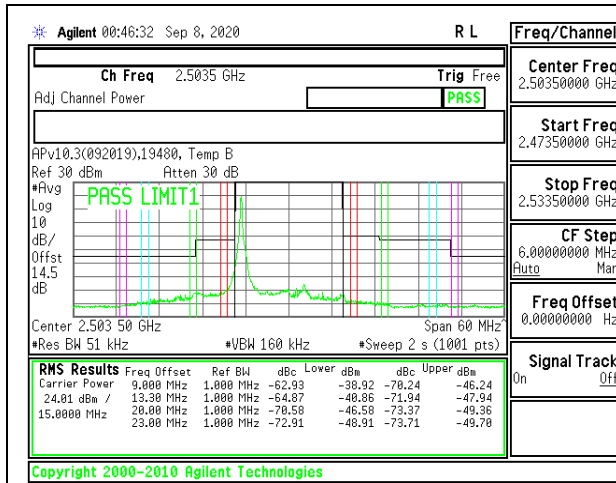


LTE B41 10MHz QPSK High Channel RB1-

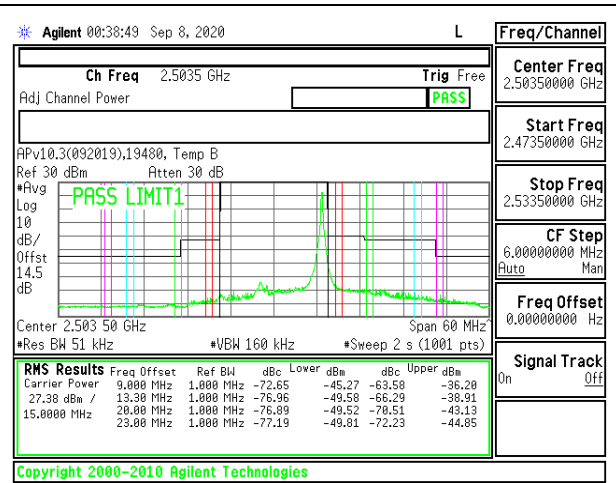


LTE B41 10MHz QPSK High Channel RB1-49

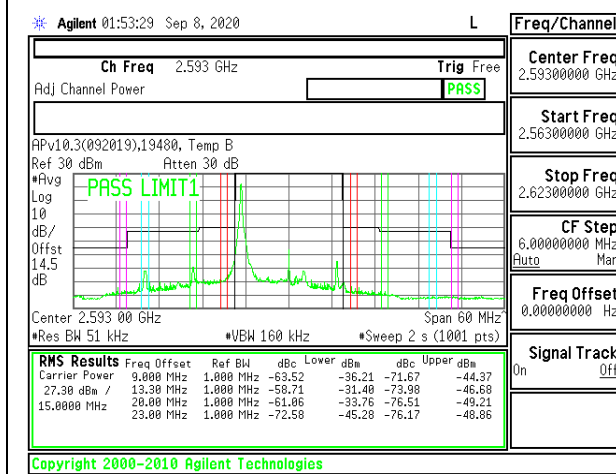




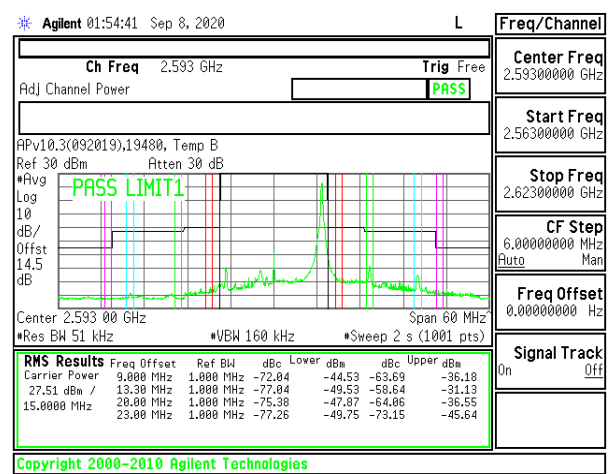
LTE B41 15MHz QPSK Low Channel RB1-0



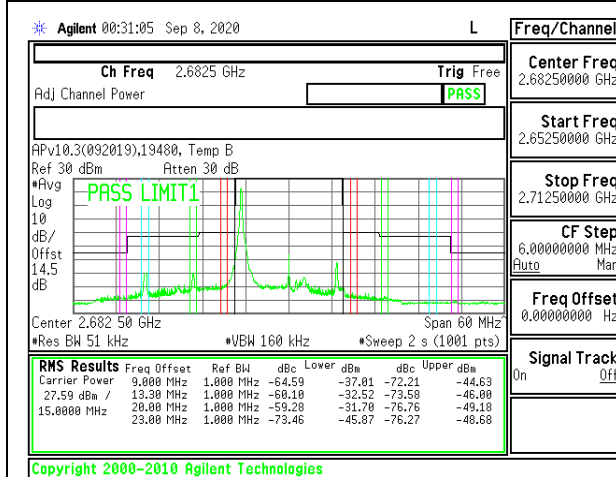
LTE B41 15MHz QPSK Low Channel RB1-74



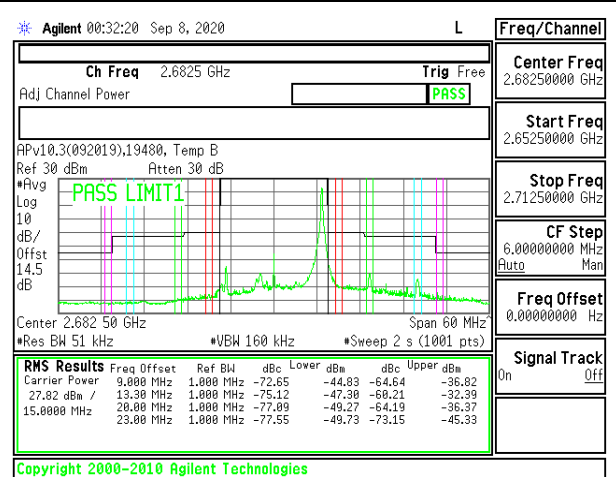
LTE B41 15MHz QPSK Middle Channel RB1-0



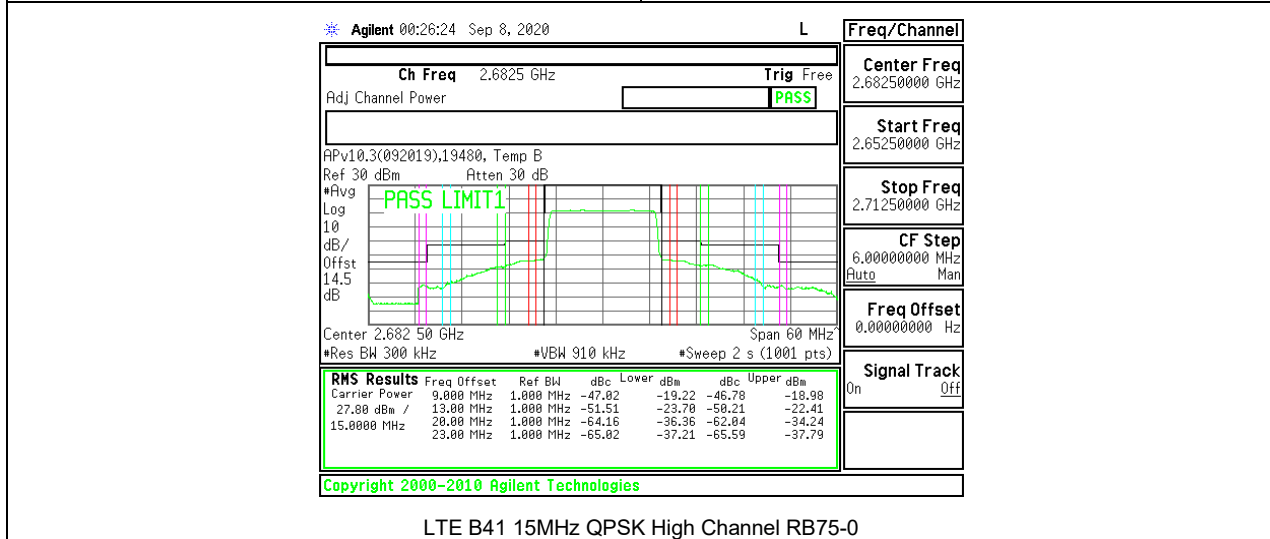
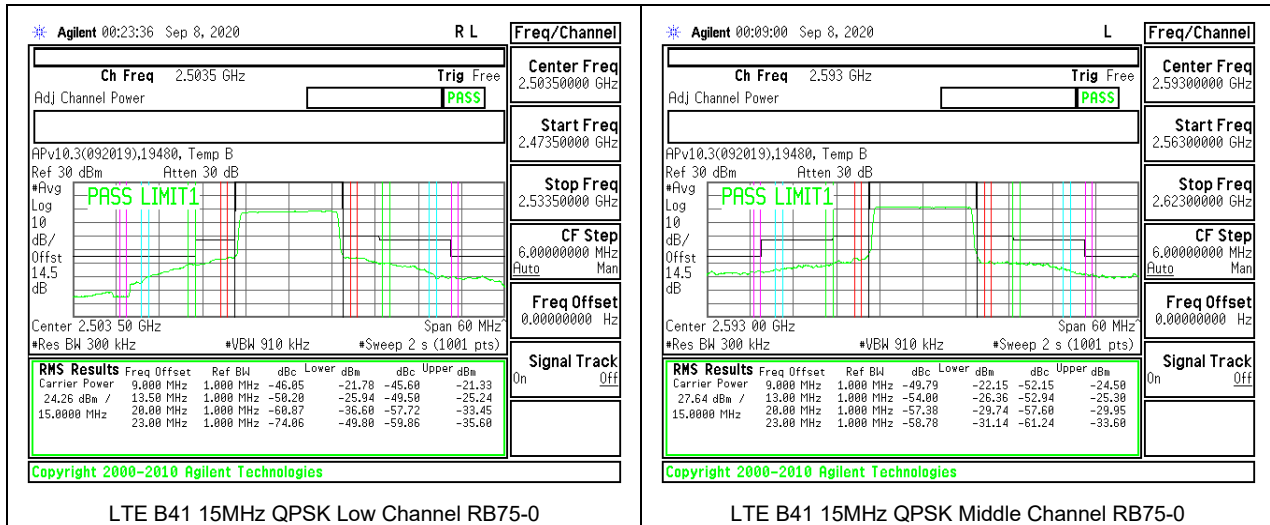
LTE B41 15MHz QPSK Middle Channel RB1-74

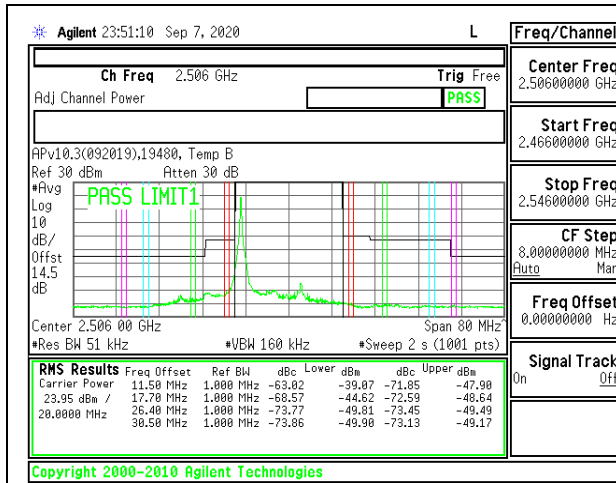


LTE B41 15MHz QPSK High Channel RB1-0

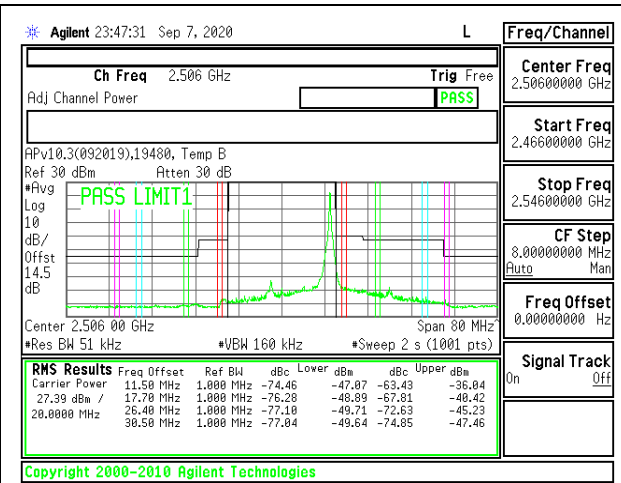


LTE B41 15MHz QPSK High Channel RB1-74

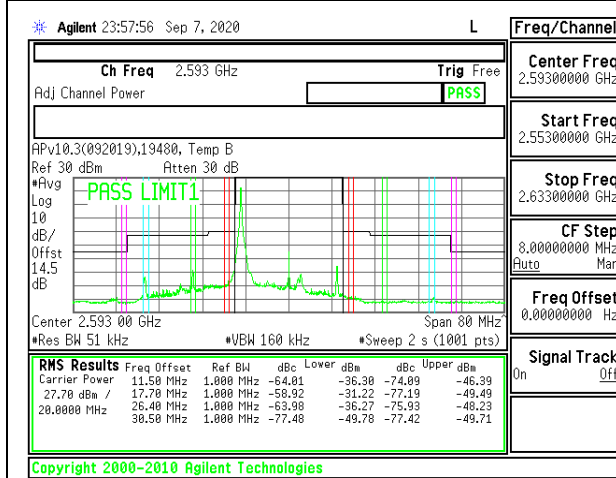




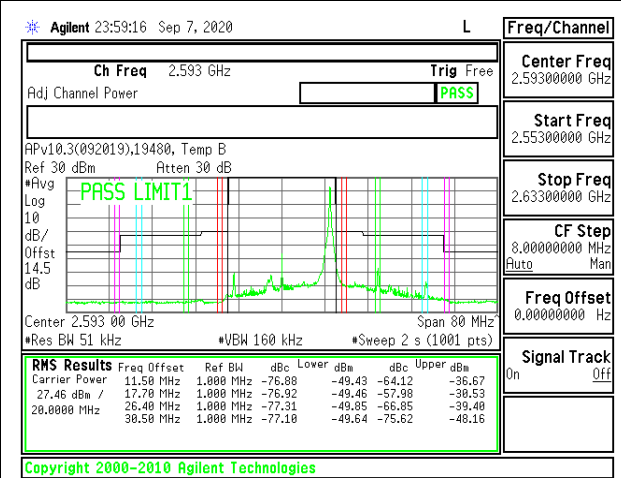
LTE B41 20MHz QPSK Low Channel RB1-0



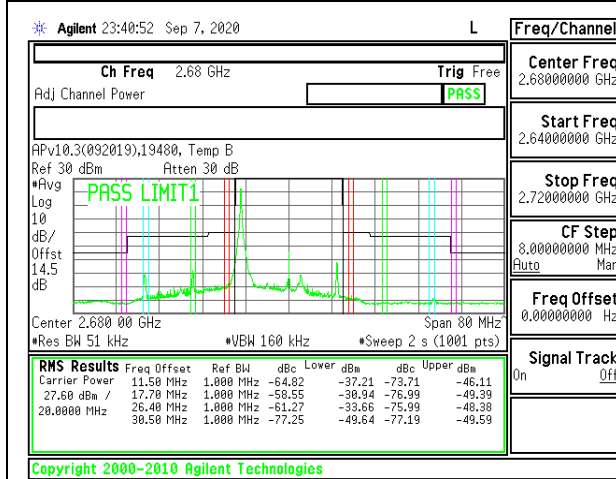
LTE B41 20MHz QPSK Low Channel RB1-99



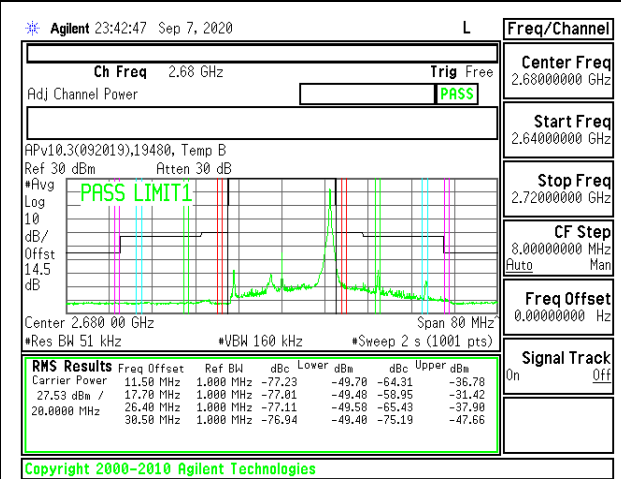
LTE B41 20MHz QPSK Middle Channel RB1-0



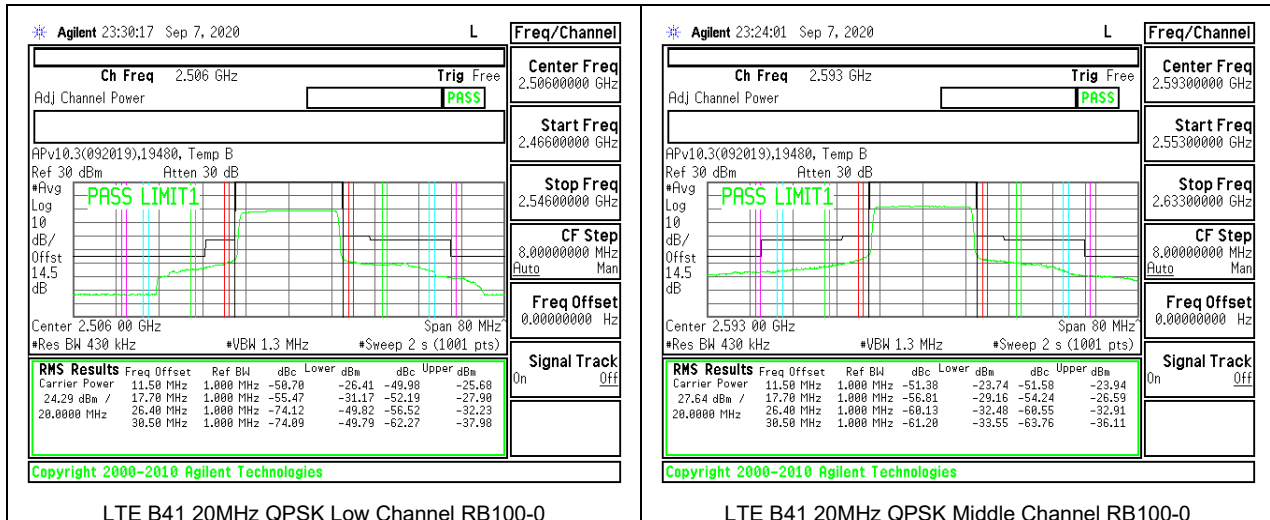
LTE B41 20MHz QPSK Middle Channel RB1-99



LTE B41 20MHz QPSK High Channel RB1-0

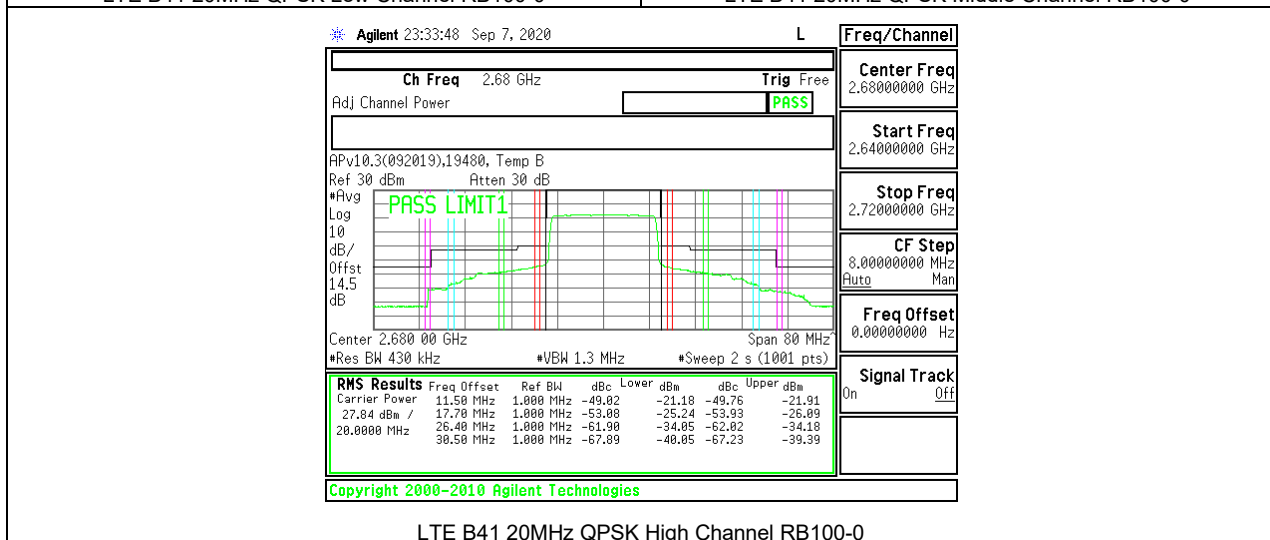


LTE B41 20MHz QPSK High Channel RB1-99



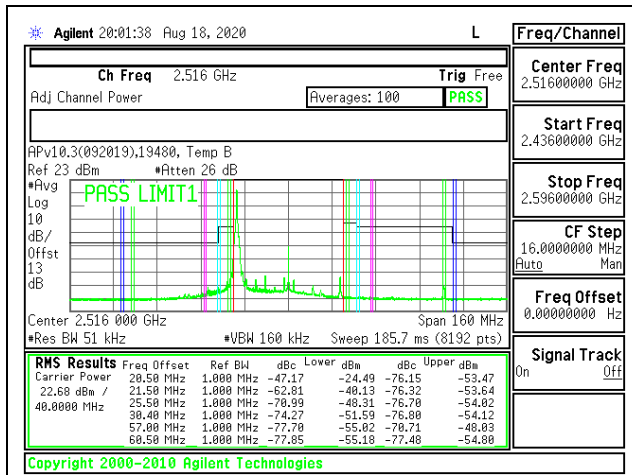
LTE B41 20MHz QPSK Low Channel RB100-0

LTE B41 20MHz QPSK Middle Channel RB100-0

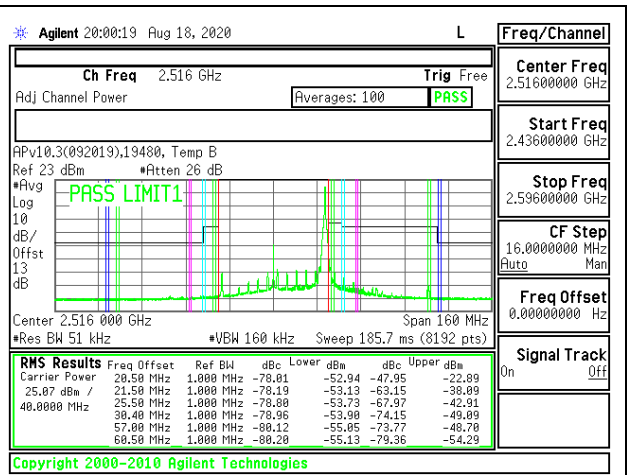


LTE B41 20MHz QPSK High Channel RB100-0

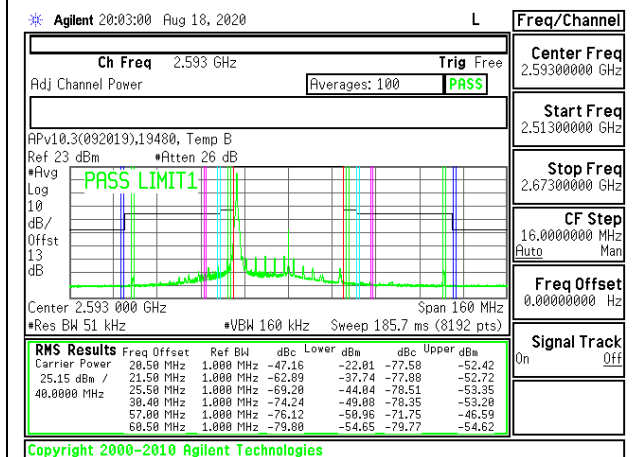
5G NR BAND n41 ADJACENT CHANNEL POWER



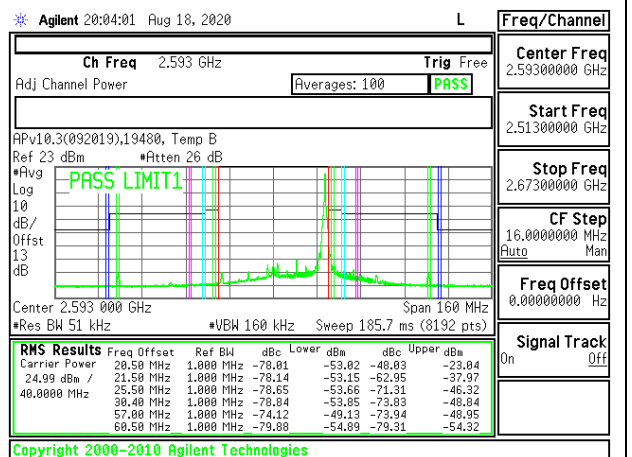
5G NR Band n41 40MHz QPSK Low Channel RB1-0



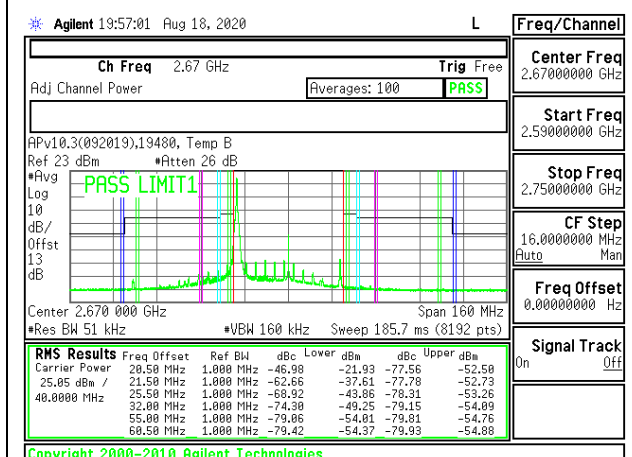
5G NR Band n41 40MHz QPSK Low Channel RB1-105



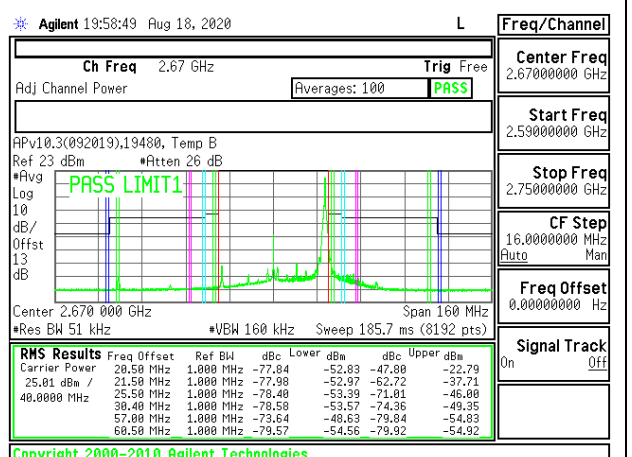
5G NR Band n41 40MHz QPSK Middle Channel RB1-0



5G NR Band n41 40MHz QPSK Middle Channel RB1-105

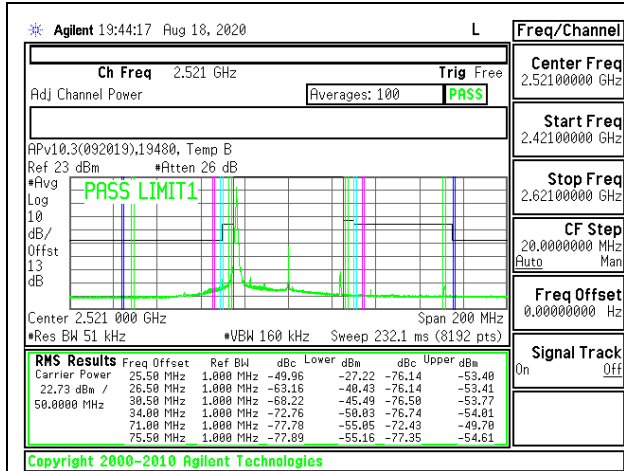


5G NR Band n41 40MHz QPSK High Channel RB1-0

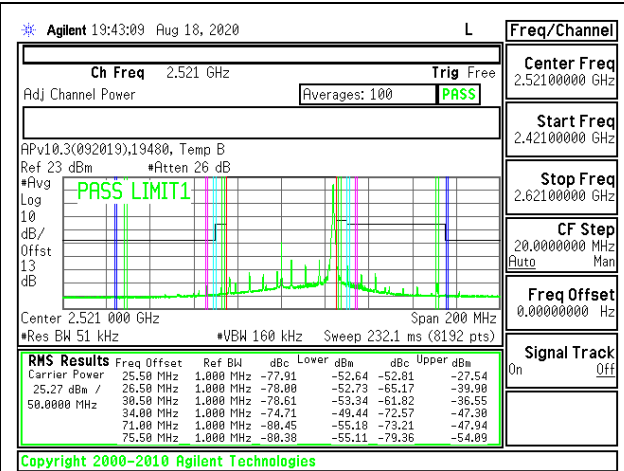


5G NR Band n41 40MHz QPSK High Channel RB1-105

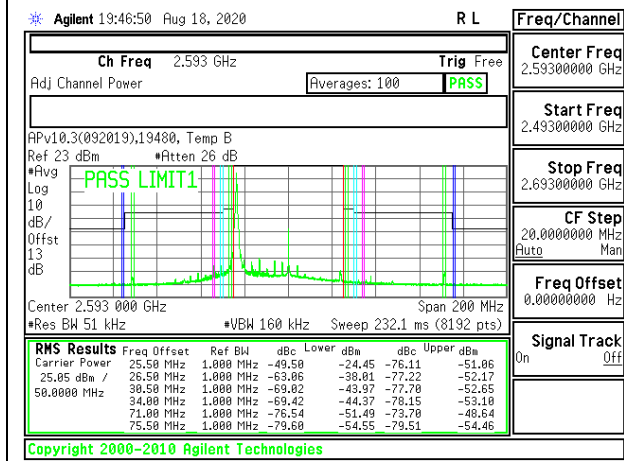




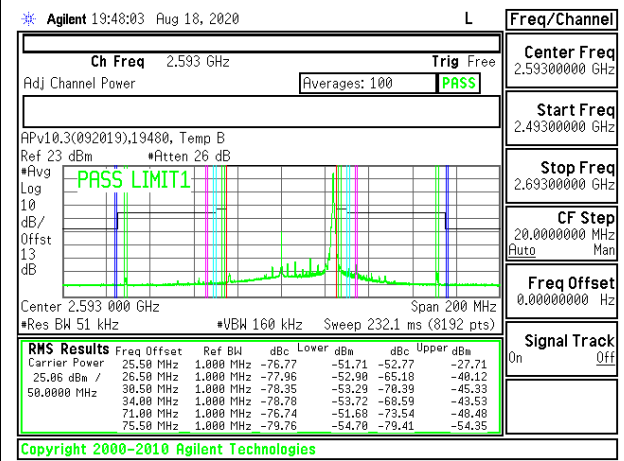
5G NR Band n41 50MHz QPSK Low Channel RB1-0



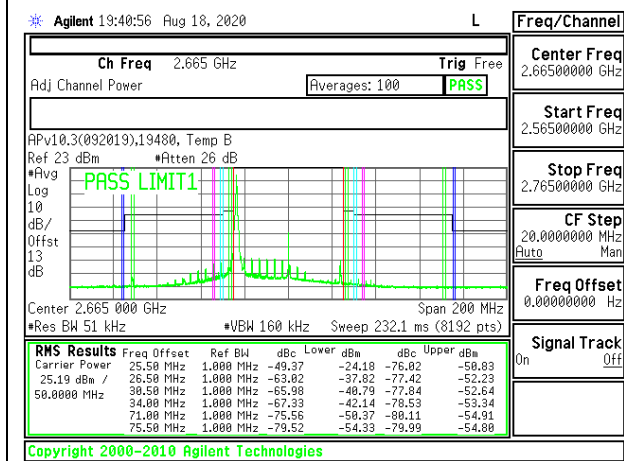
5G NR Band n41 50MHz QPSK Low Channel RB1-132



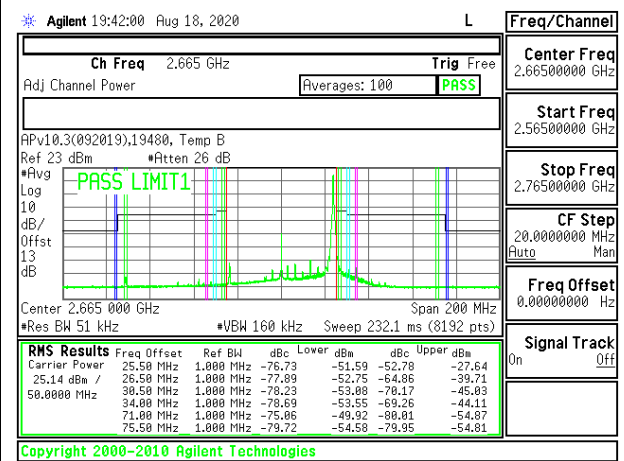
5G NR Band n41 50MHz QPSK Middle Channel RB1-0



5G NR Band n41 50MHz QPSK Middle Channel RB1-132

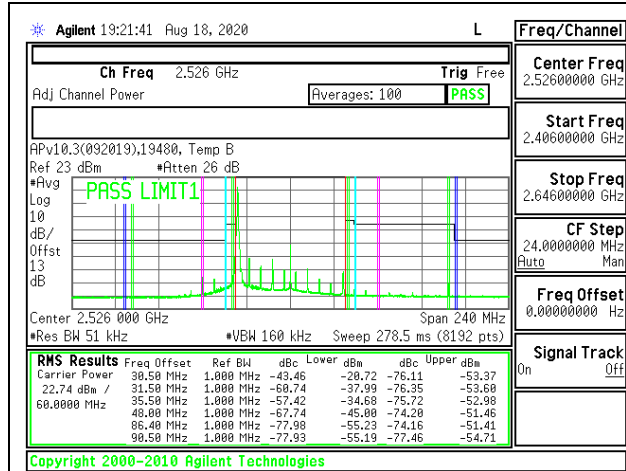


5G NR Band n41 50MHz QPSK High Channel RB1-0

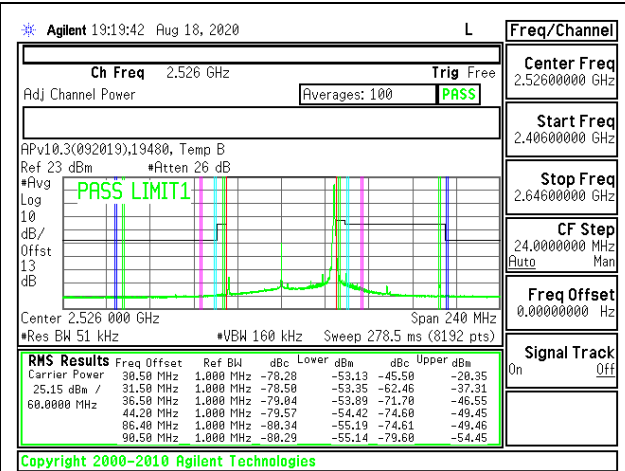


5G NR Band n41 50MHz QPSK High Channel RB1-132

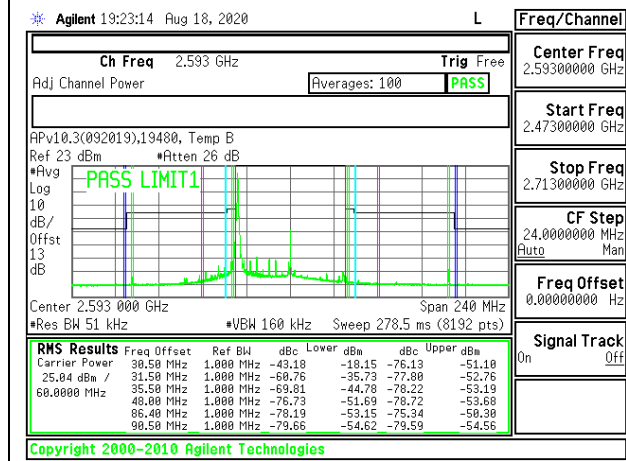




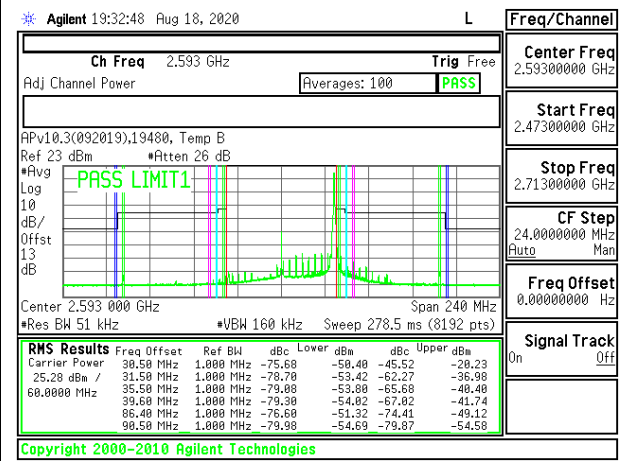
5G NR Band n41 60MHz QPSK Low Channel RB1-0



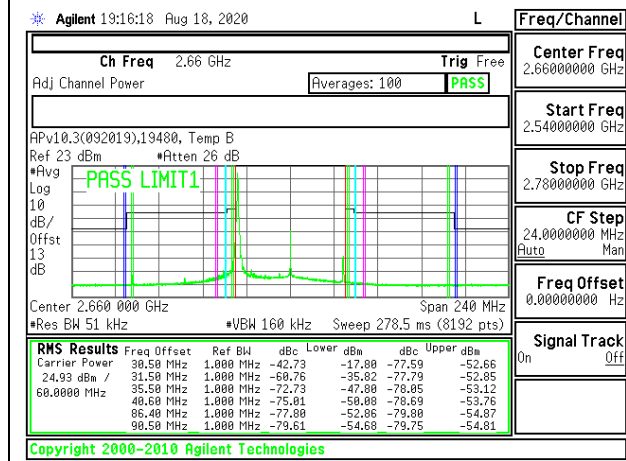
5G NR Band n41 60MHz QPSK Low Channel RB1-161



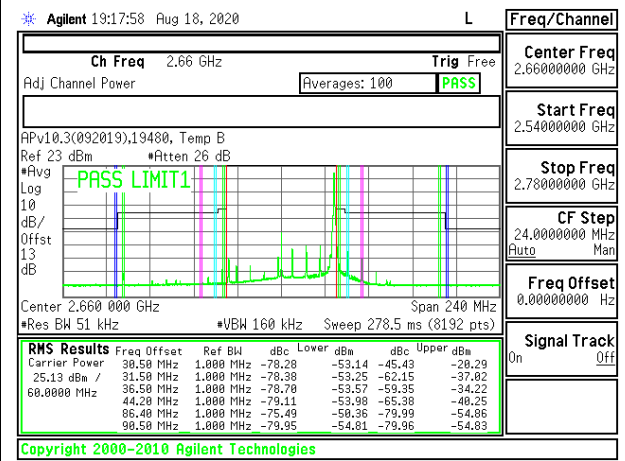
5G NR Band n41 60MHz QPSK Middle Channel RB1-0



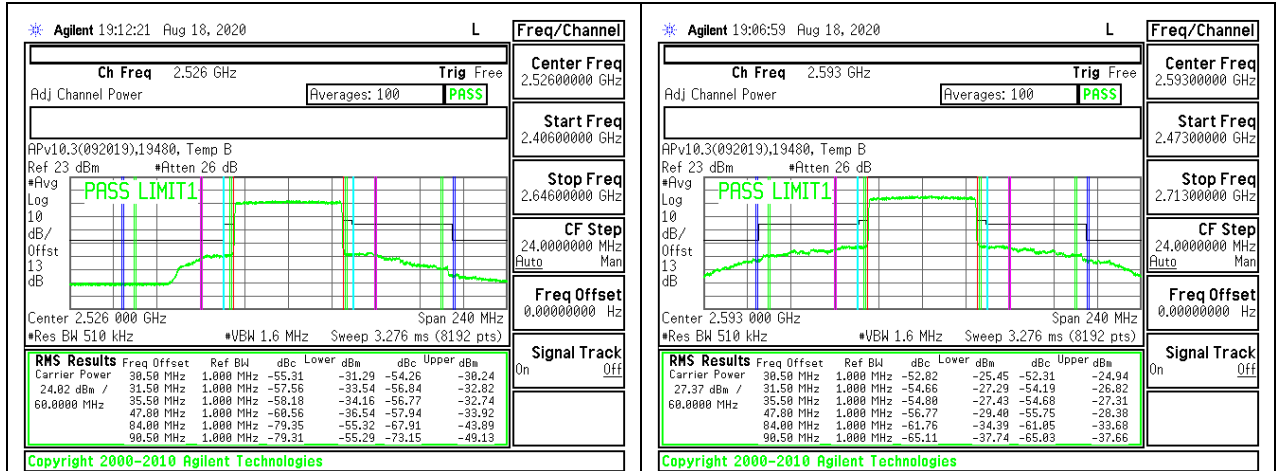
5G NR Band n41 60MHz QPSK Middle Channel RB1-161



5G NR Band n41 60MHz QPSK High Channel RB1-0

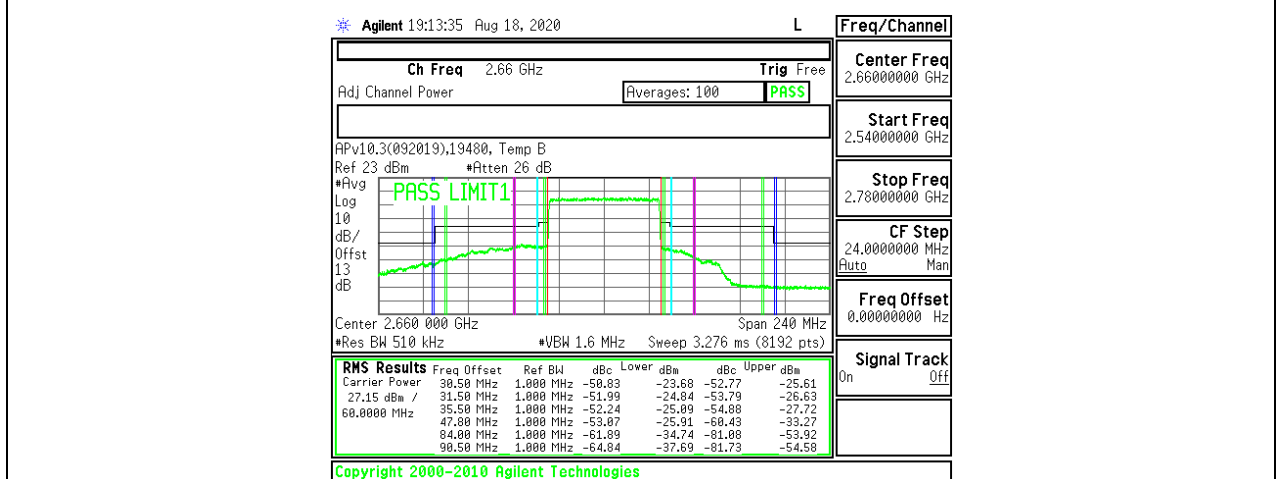


5G NR Band n41 60MHz QPSK High Channel RB1-161

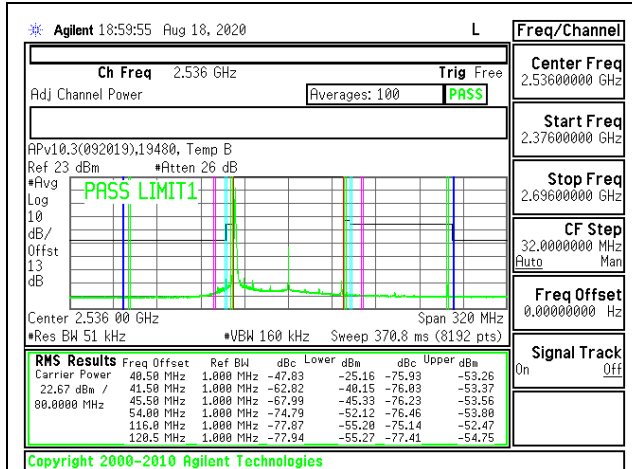


5G NR Band n41 60MHz QPSK Low Channel RB162-0

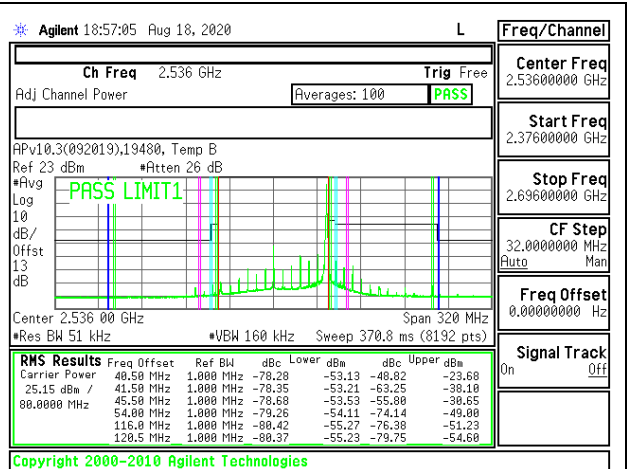
5G NR Band n41 60MHz QPSK Middle Channel RB162-0



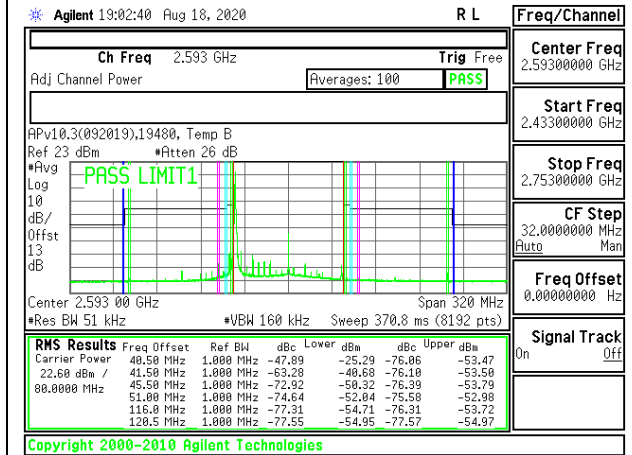
5G NR Band n41 60MHz QPSK High Channel RB162-0



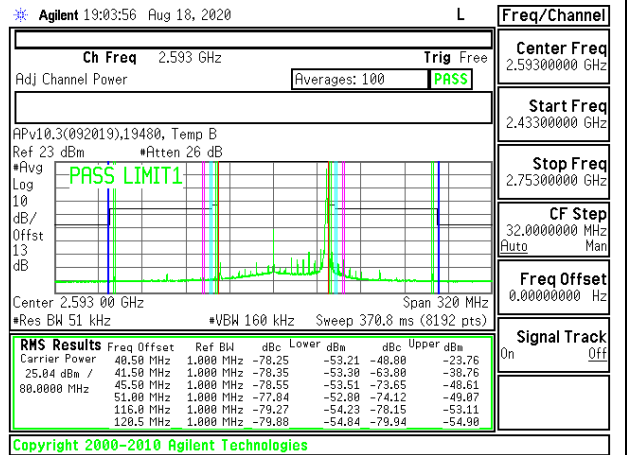
5G NR Band n41 80MHz QPSK Low Channel RB1-0



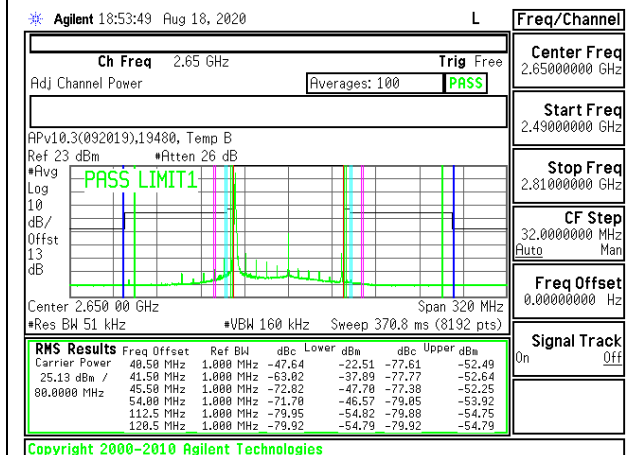
5G NR Band n41 80MHz QPSK Low Channel RB1-216



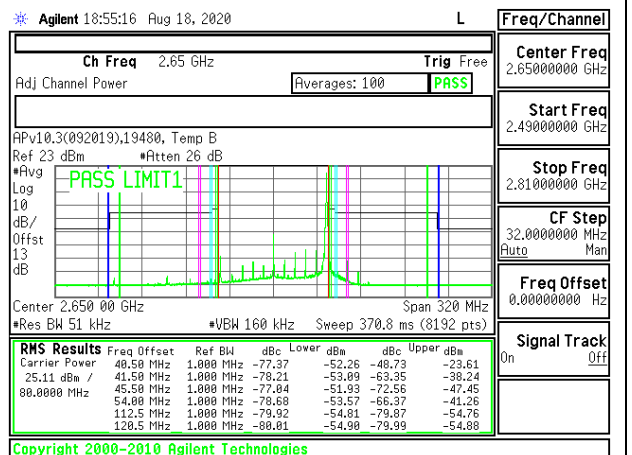
5G NR Band n41 80MHz QPSK Middle Channel RB1-0



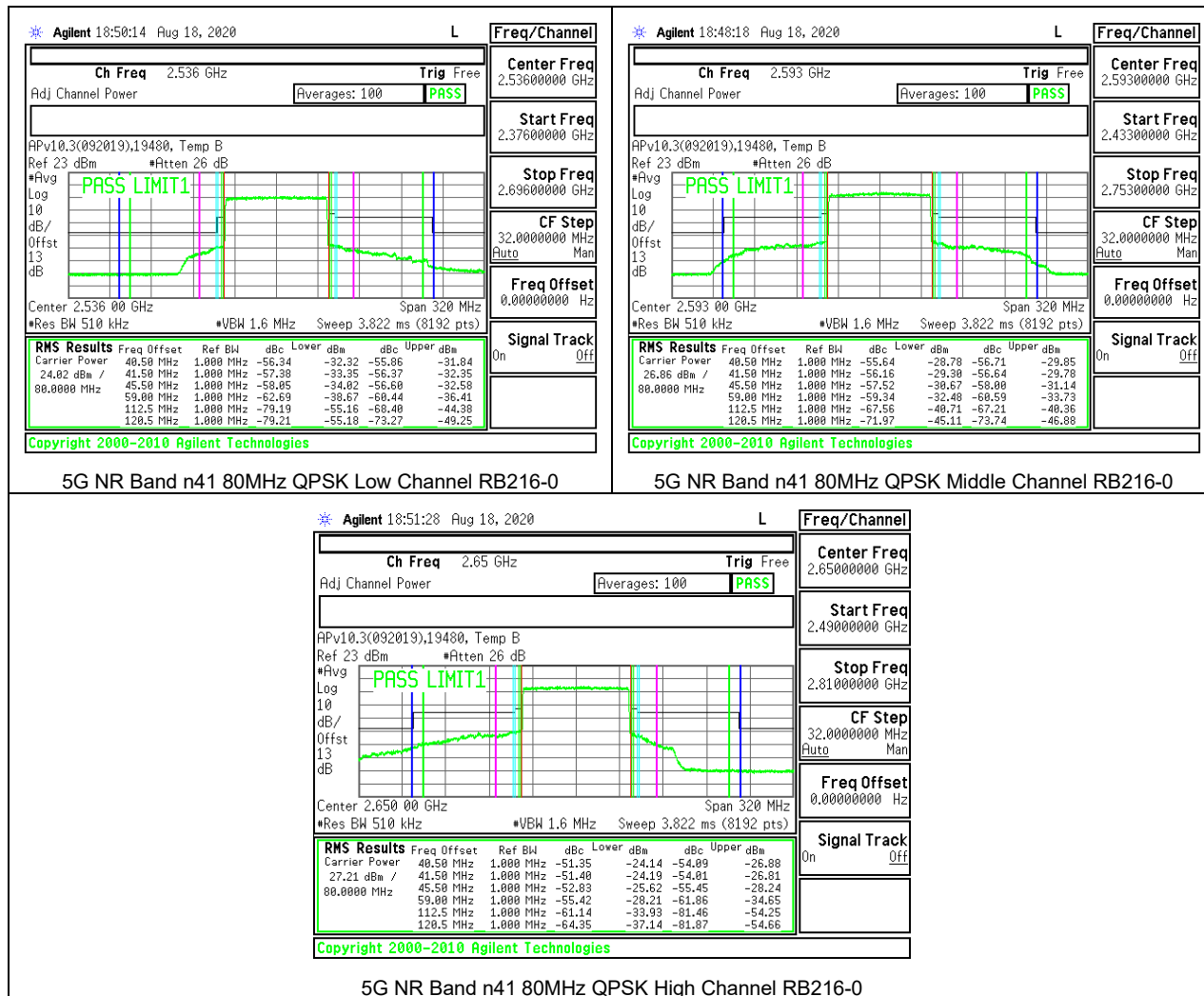
5G NR Band n41 80MHz QPSK Middle Channel RB1-216

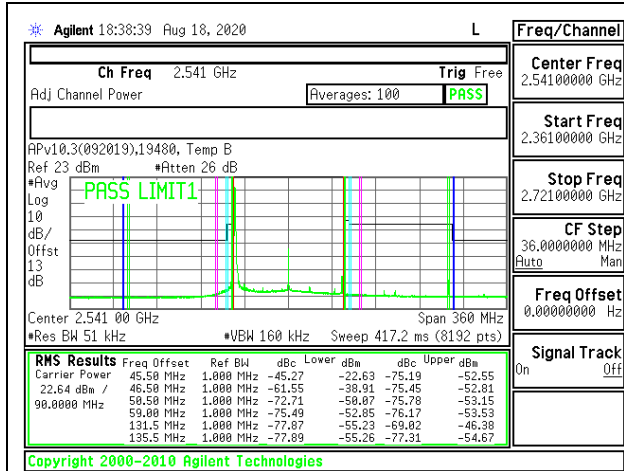


5G NR Band n41 80MHz QPSK High Channel RB1-0

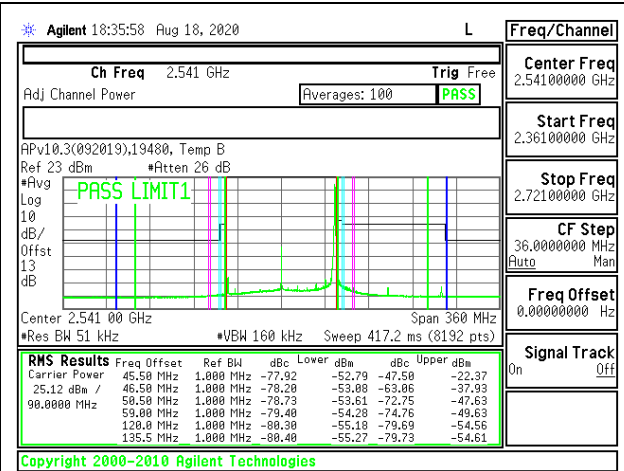


5G NR Band n41 80MHz QPSK High Channel RB1-216

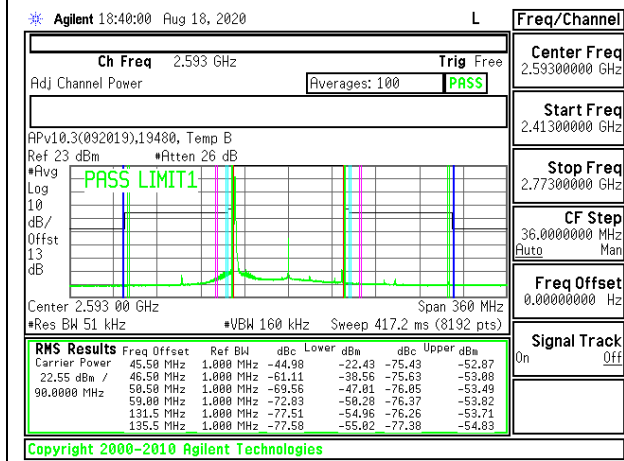




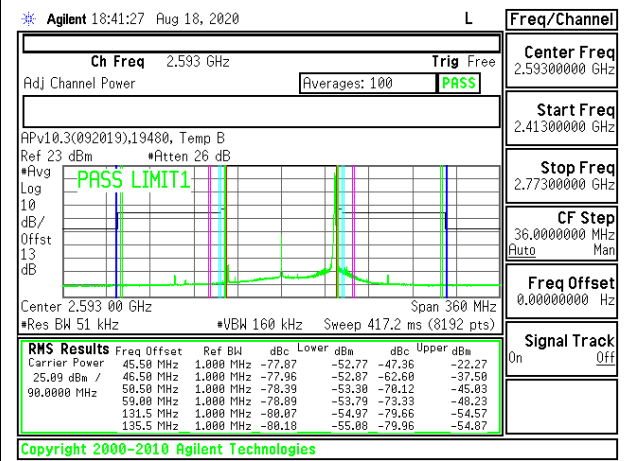
5G NR Band n41 90MHz QPSK Low Channel RB1-0



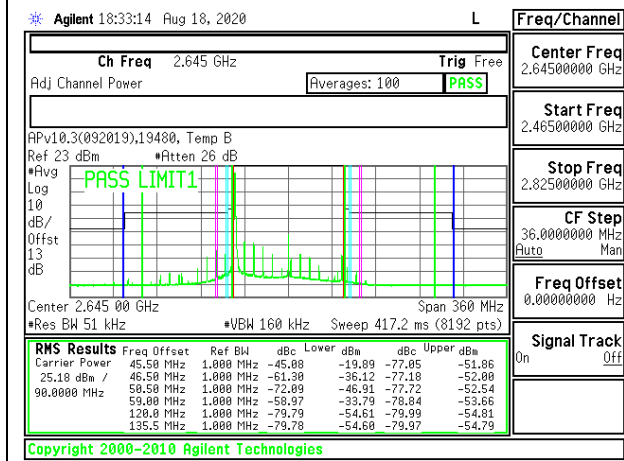
5G NR Band n41 90MHz QPSK Low Channel RB1-244



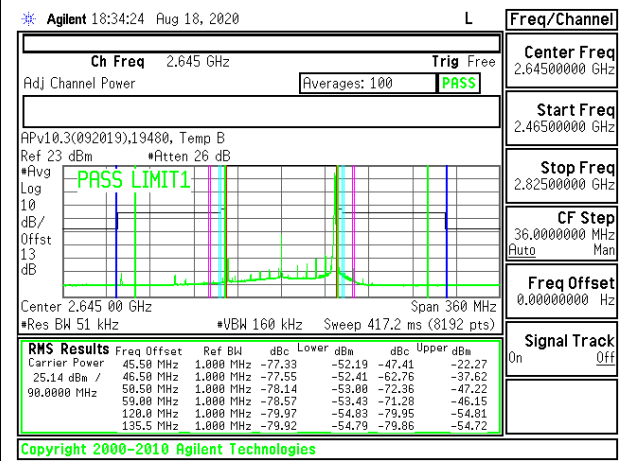
5G NR Band n41 90MHz QPSK Middle Channel RB1-0



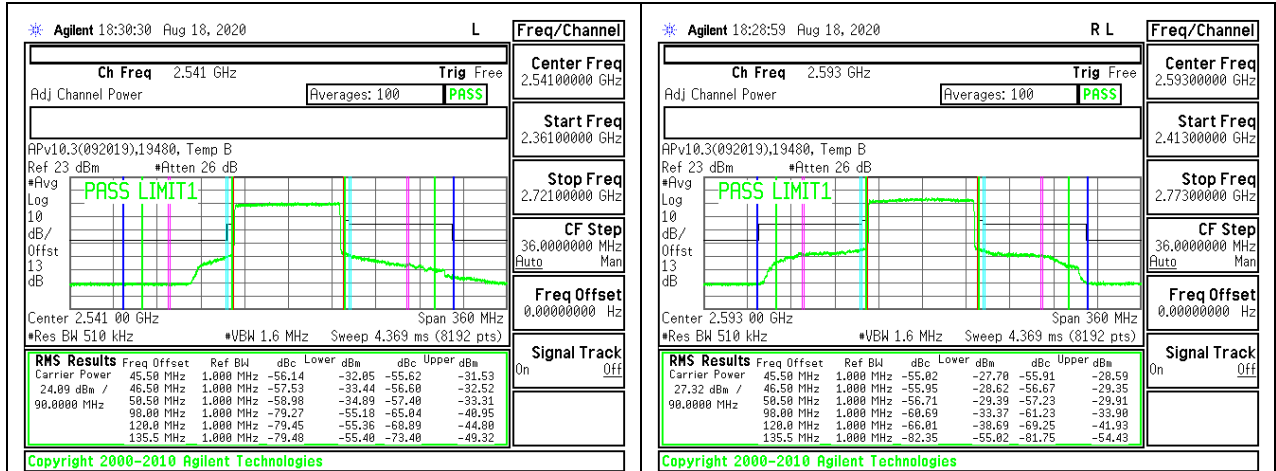
5G NR Band n41 90MHz QPSK Middle Channel RB1-244



5G NR Band n41 90MHz QPSK High Channel RB1-0

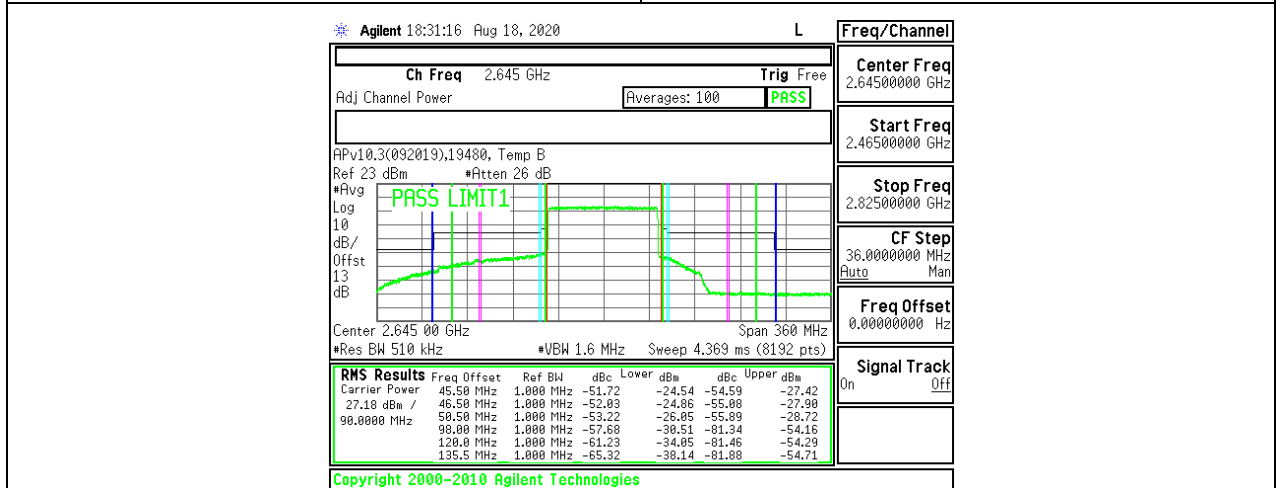


5G NR Band n41 90MHz QPSK High Channel RB1-244

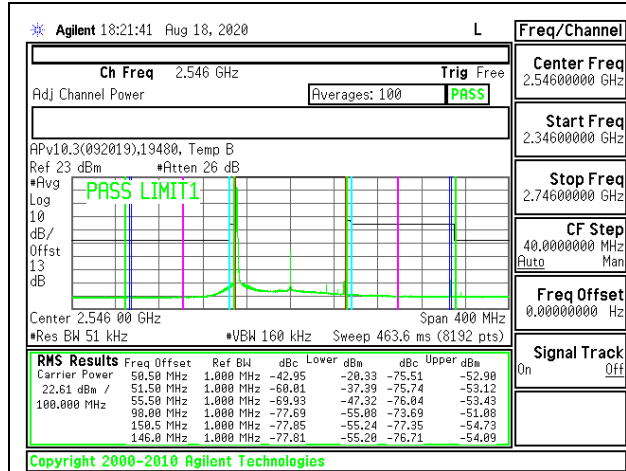


5G NR Band n41 90MHz QPSK Low Channel RB240-0

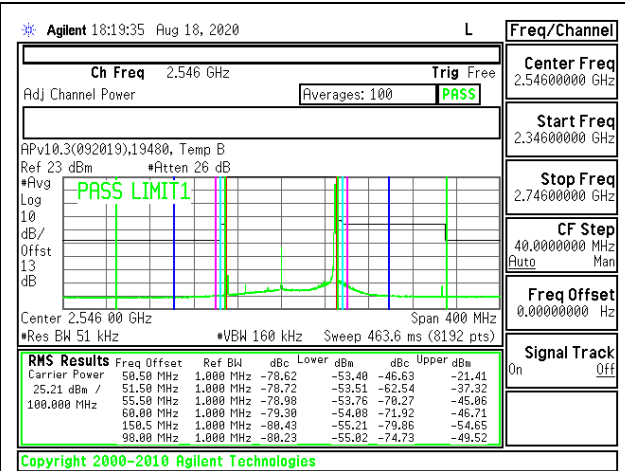
5G NR Band n41 90MHz QPSK Middle Channel RB240-0



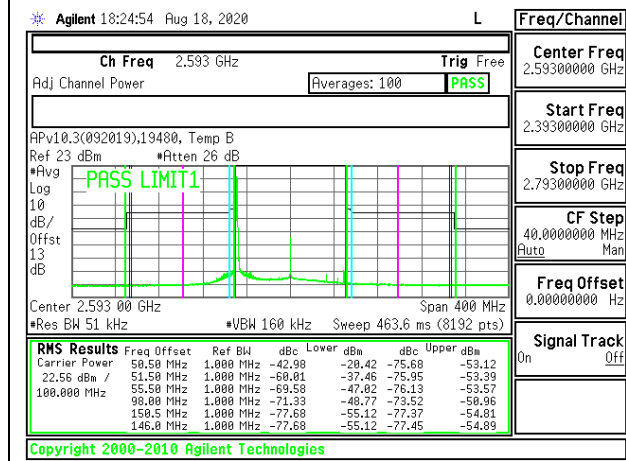
5G NR Band n41 90MHz QPSK High Channel RB240-0



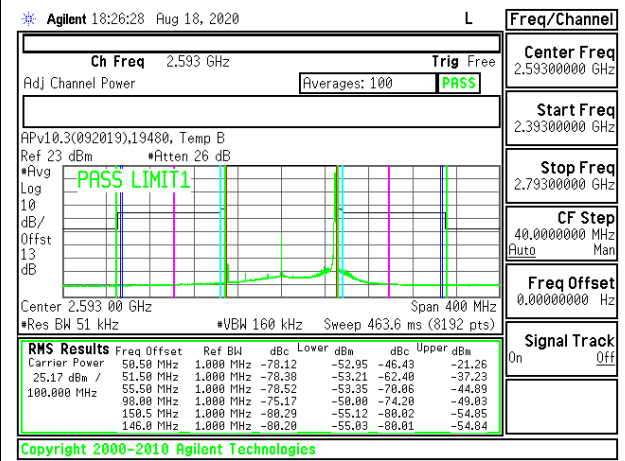
5G NR Band 41 100MHz QPSK Low Channel RB1-0



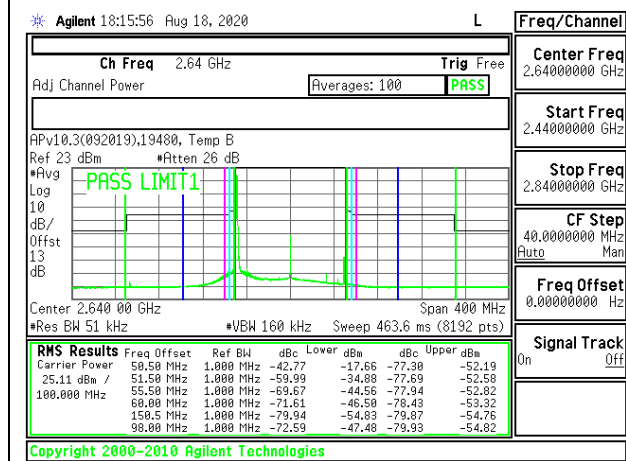
5G NR Band n41 100MHz QPSK Low Channel RB1-272



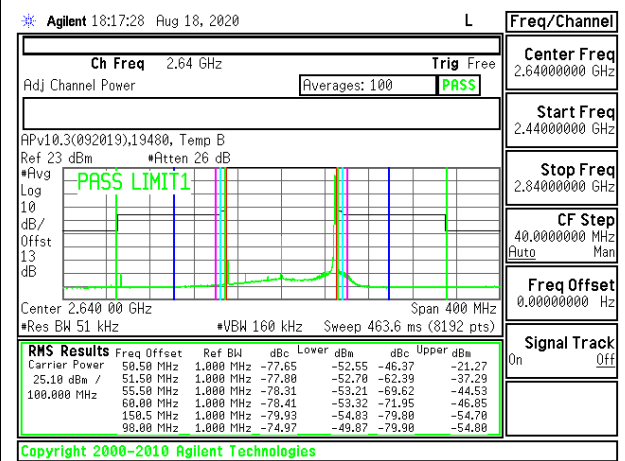
5G NR Band n41 100MHz QPSK Middle Channel RB1-0



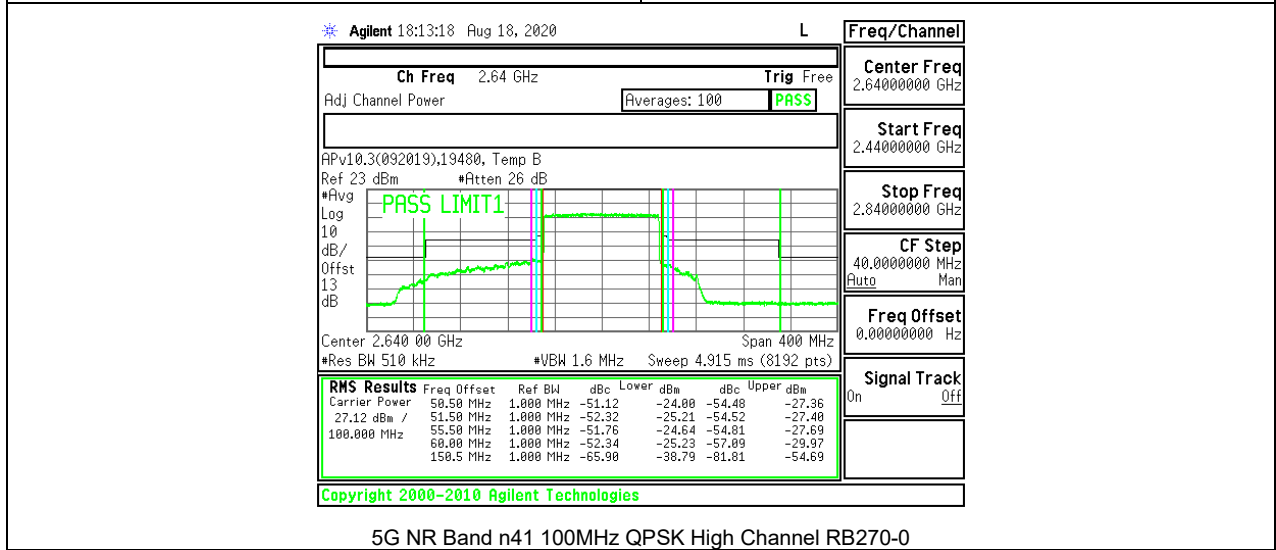
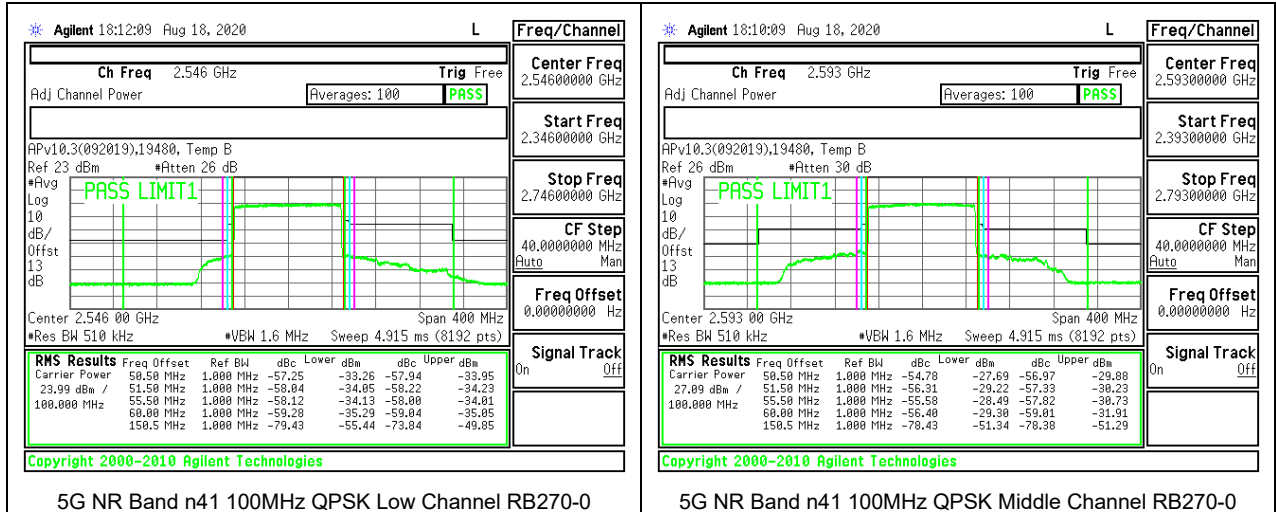
5G NR Band n41 100MHz QPSK Middle Channel RB1-272



5G NR Band n41 100MHz QPSK High Channel RB1-0



5G NR Band n41 100MHz QPSK High Channel RB1-272



8.2.12. LTE BAND 48 ADJACENT CHANNEL POWER

LIMITS

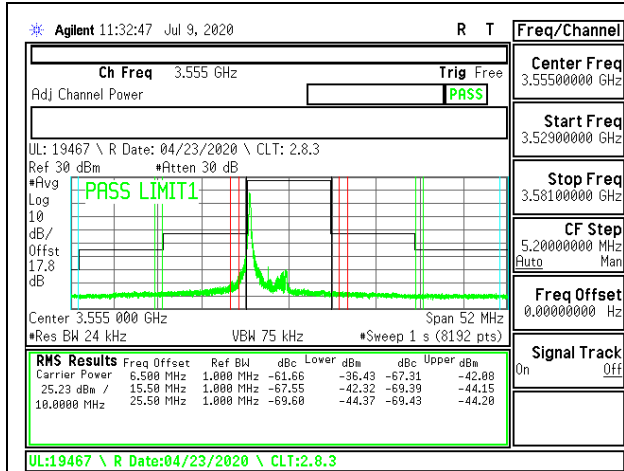
FCC: §96.41

(e) 3.5 GHz Emissions and Interference Limits—

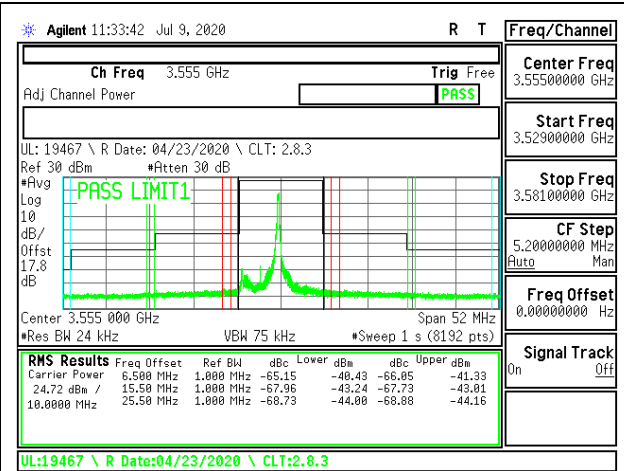
(1) General protection levels

(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.

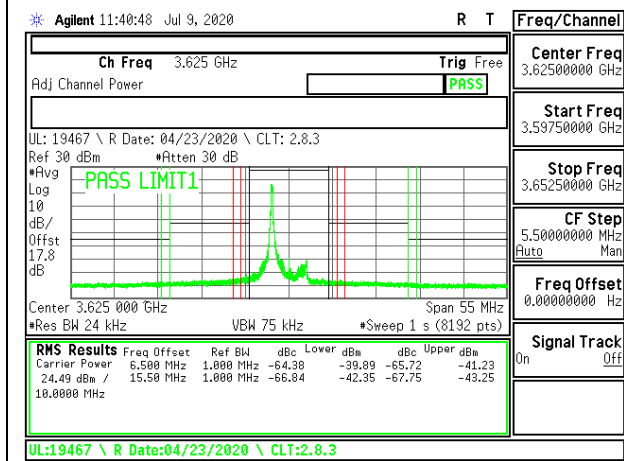
(2) Additional protection levels. Notwithstanding paragraph (e)(1) of this section, for CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40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



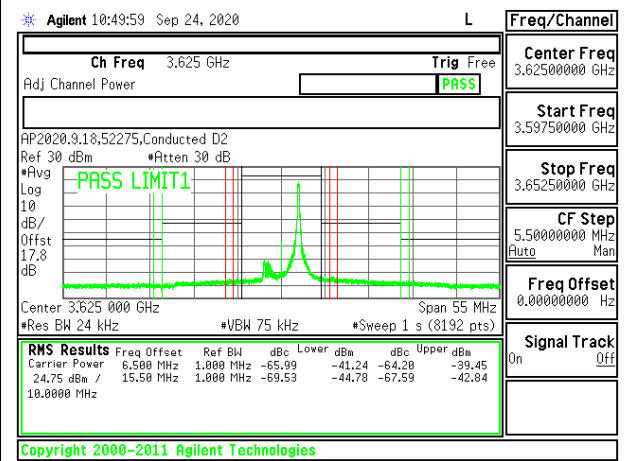
LTE B48 5MHz QPSK Low Channel RB1-0



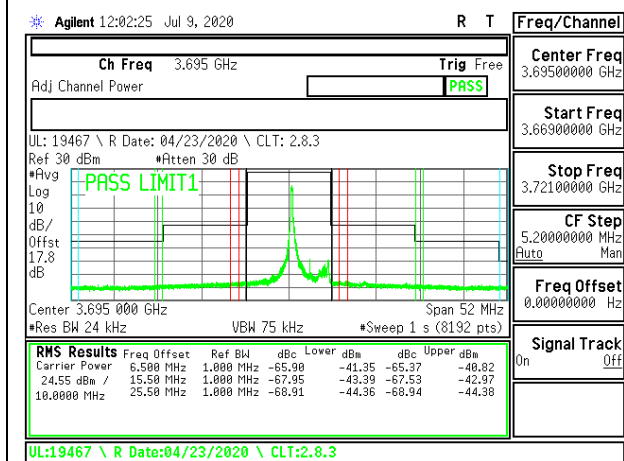
LTE B48 5MHz QPSK Low Channel RB1-24



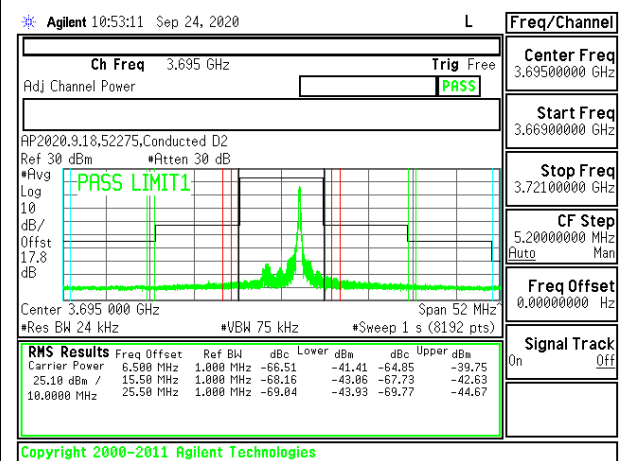
LTE B48 5MHz QPSK Middle Channel RB1-0



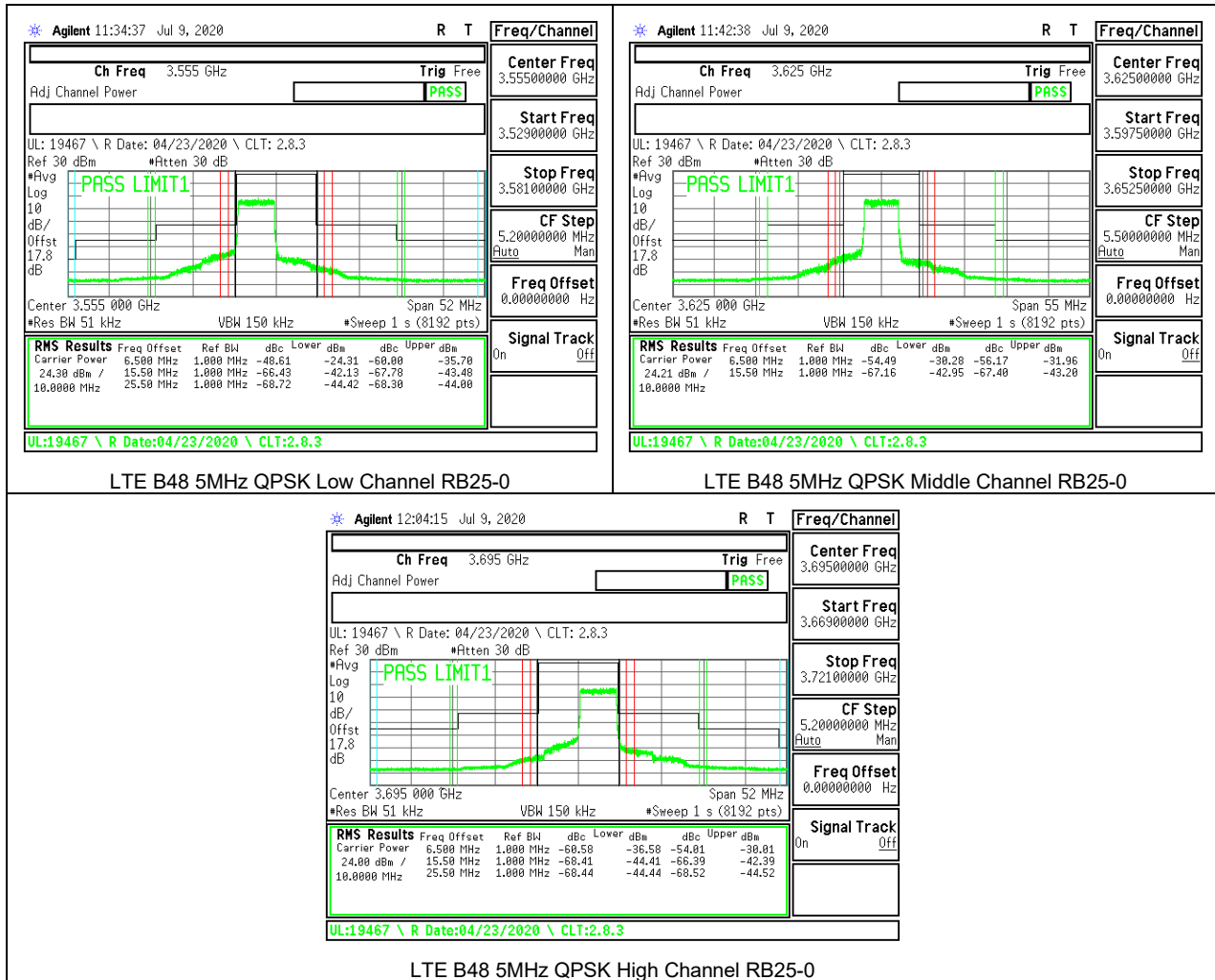
LTE B48 5MHz QPSK Middle Channel RB1-24

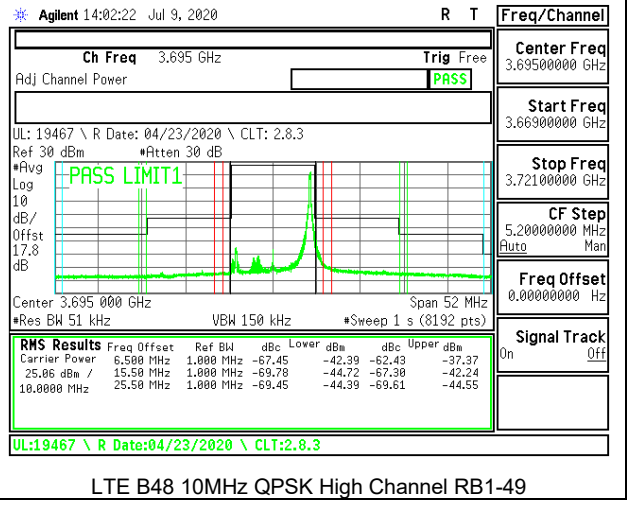
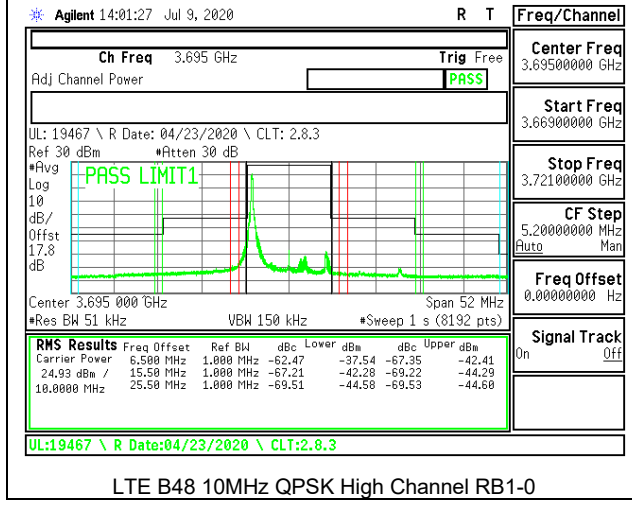
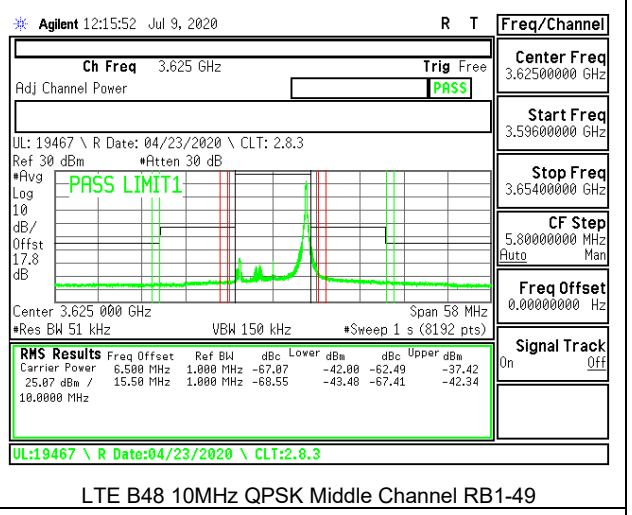
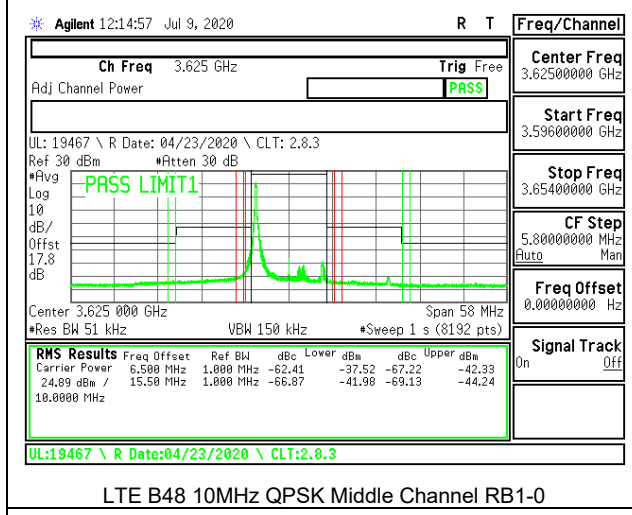
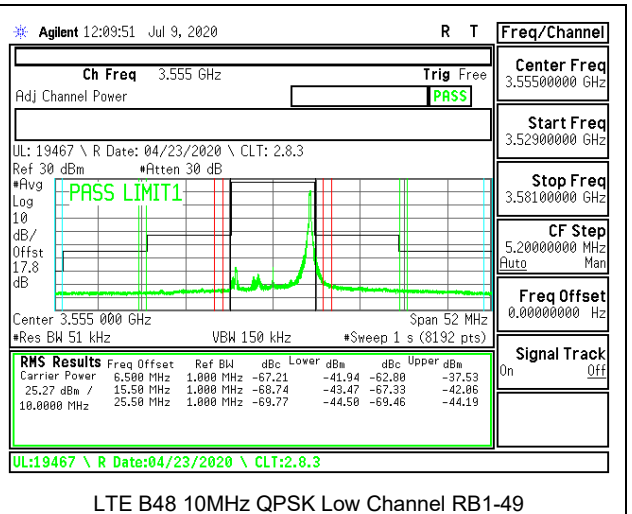
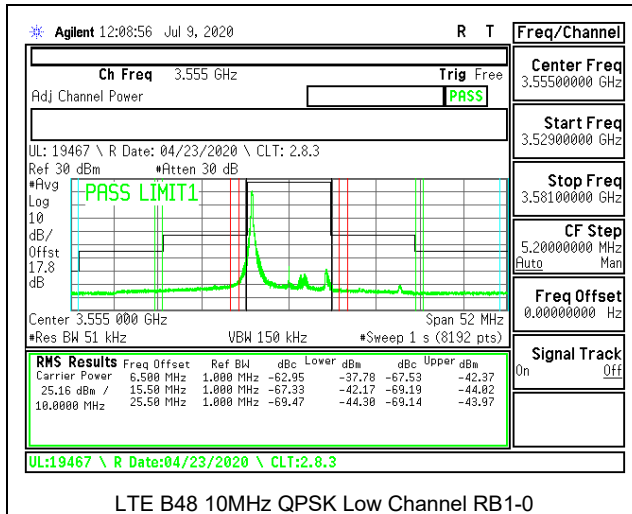


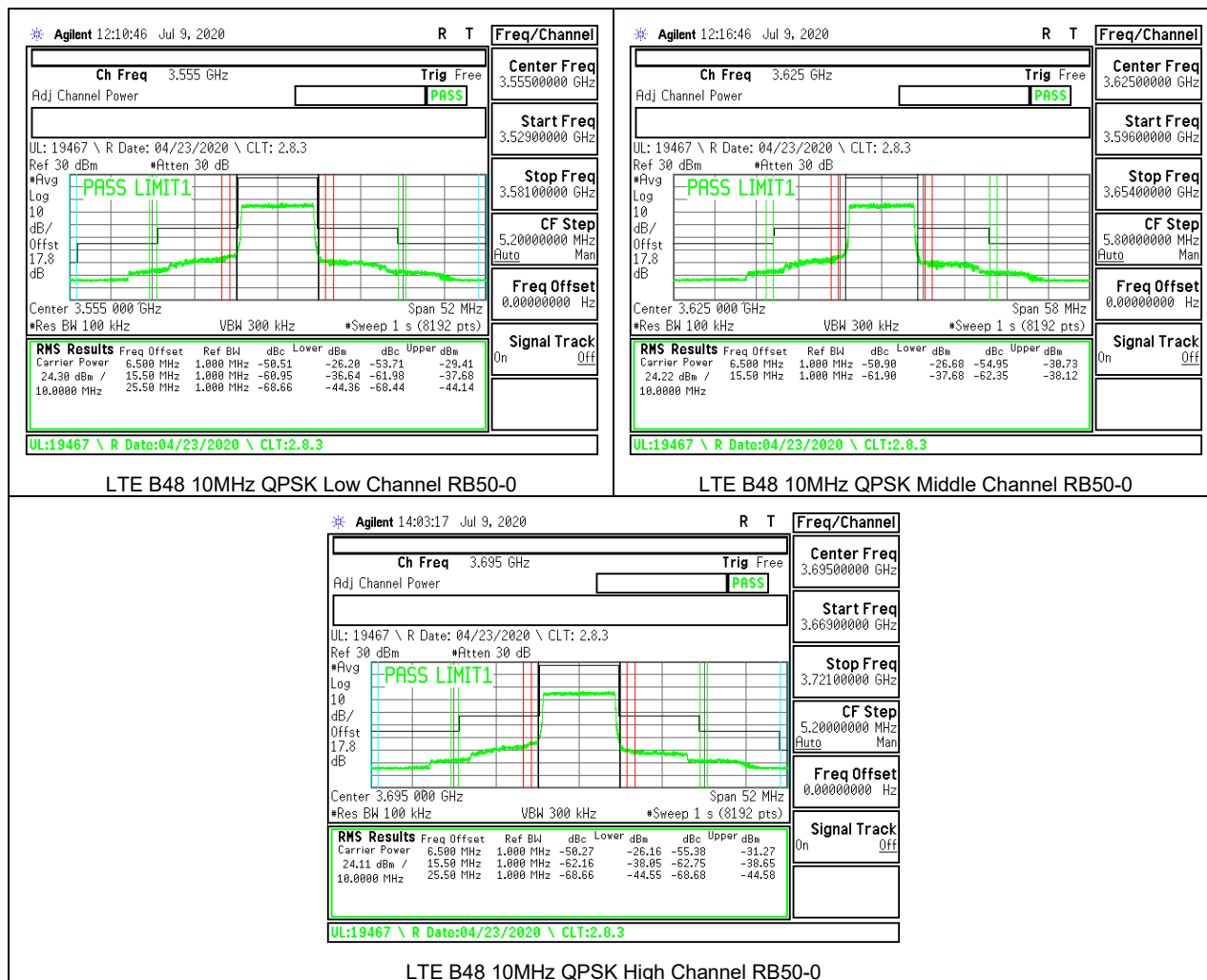
LTE B48 5MHz QPSK High Channel RB1-0

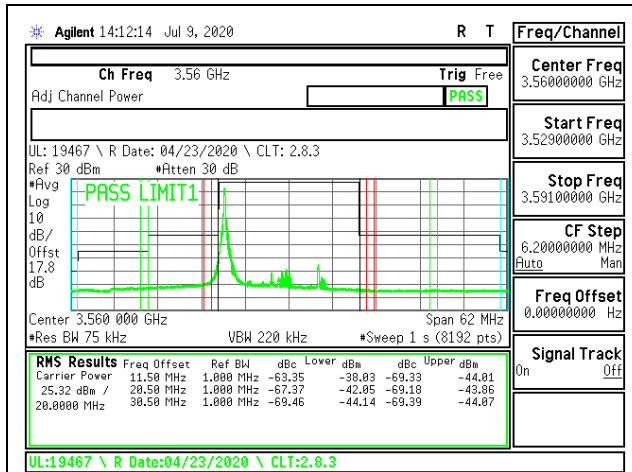


LTE B48 5MHz QPSK High Channel RB1-24

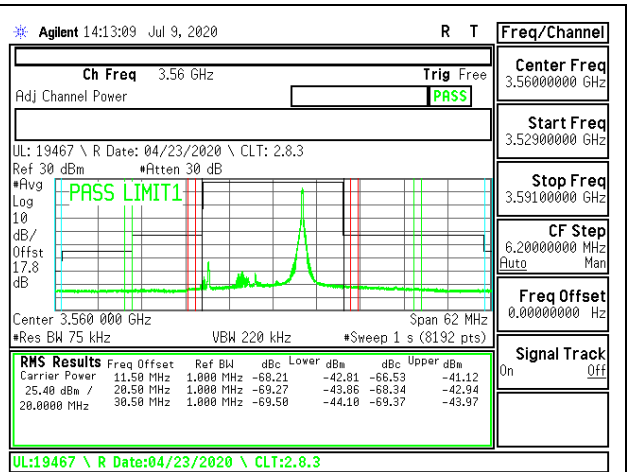




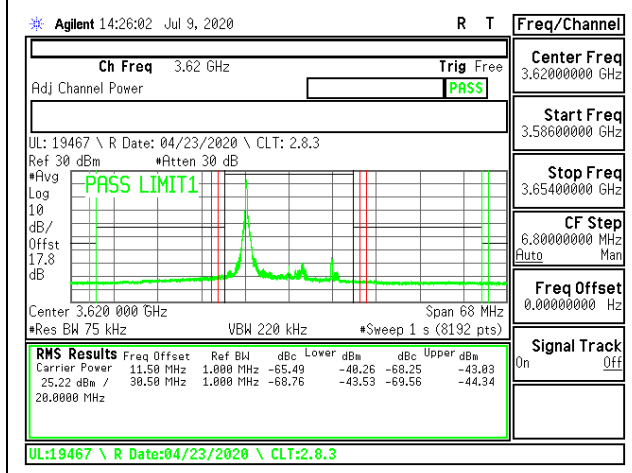




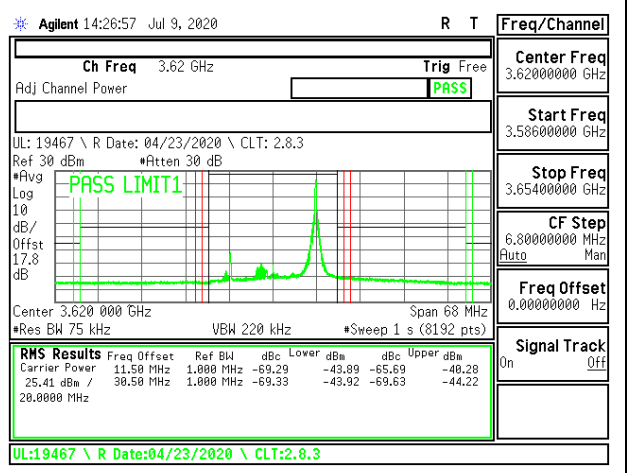
LTE B48 15MHz QPSK Low Channel RB1-0



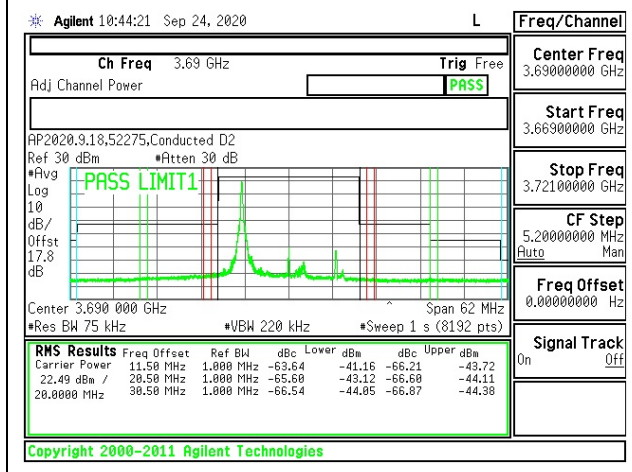
LTE B48 15MHz QPSK Low Channel RB1-74



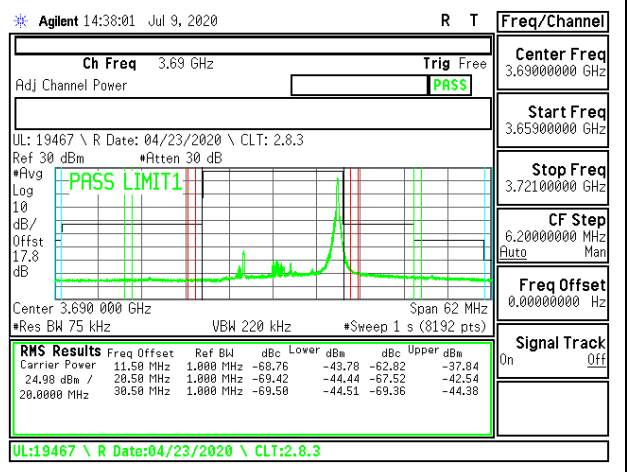
LTE B48 15MHz QPSK Middle Channel RB1-0



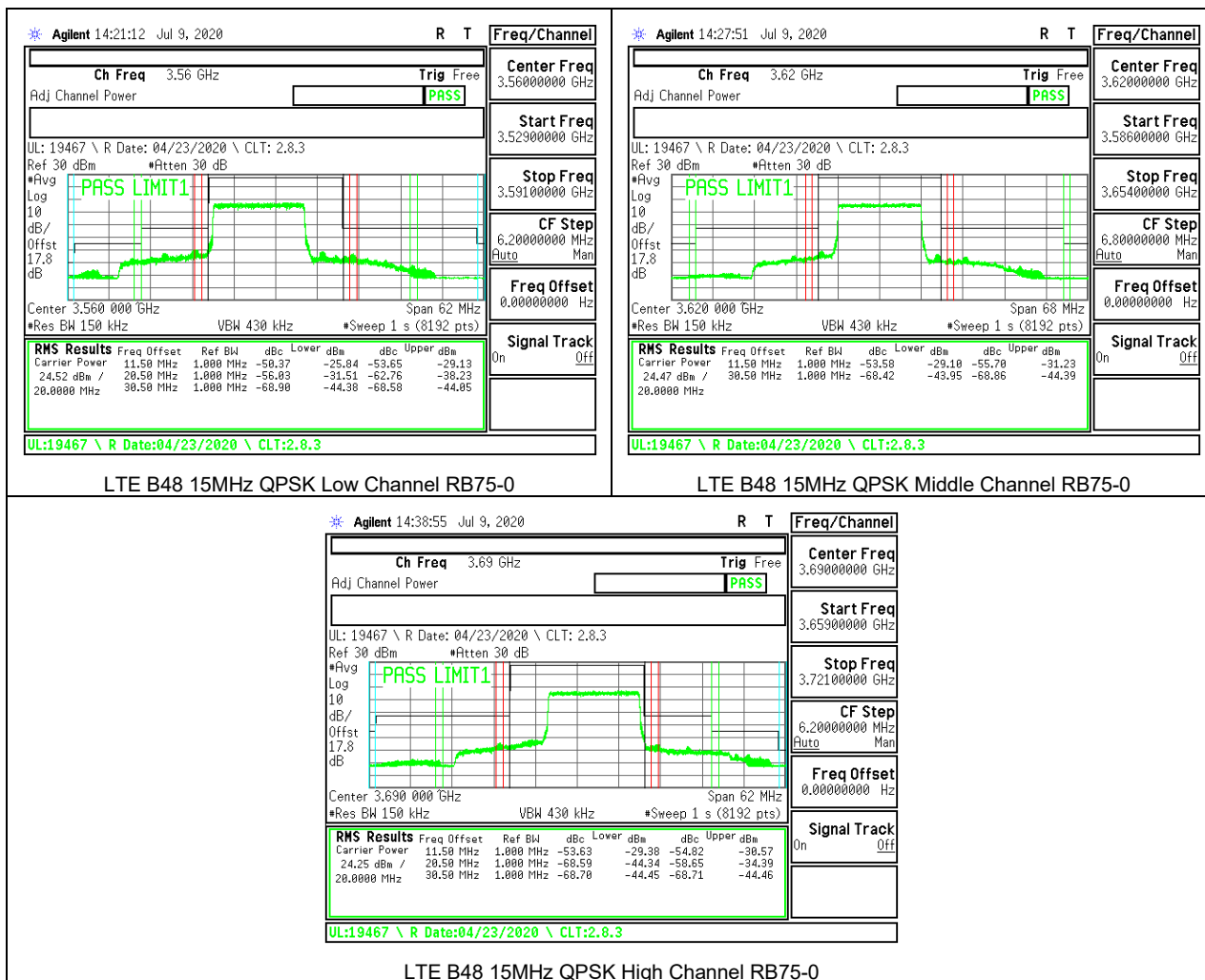
LTE B48 15MHz QPSK Middle Channel RB1-74

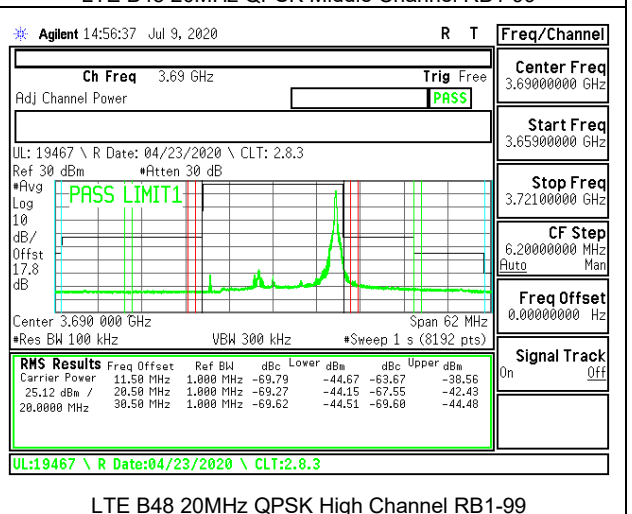
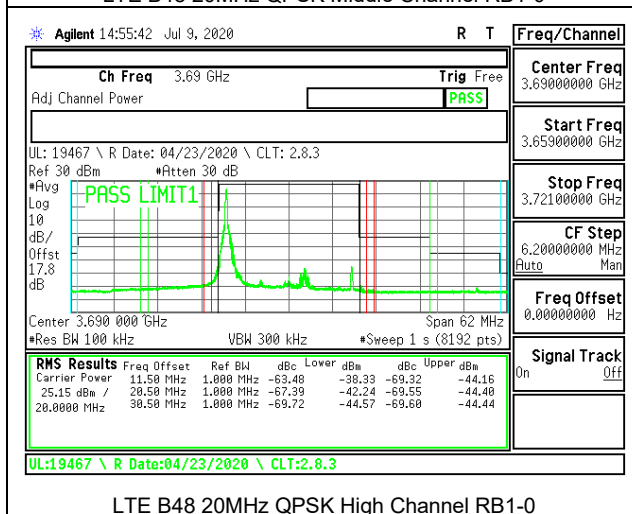
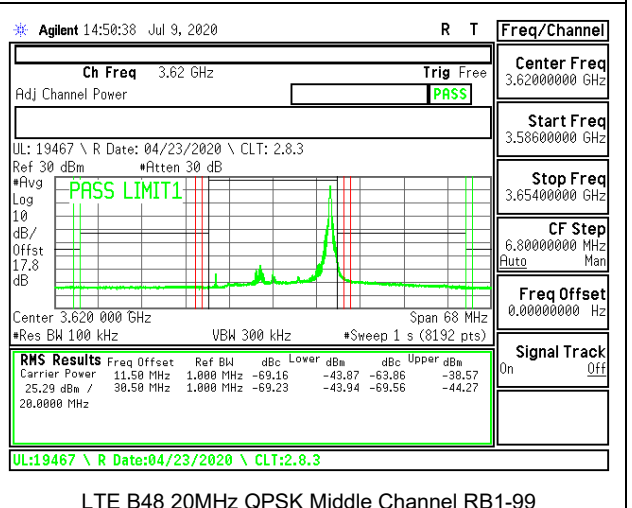
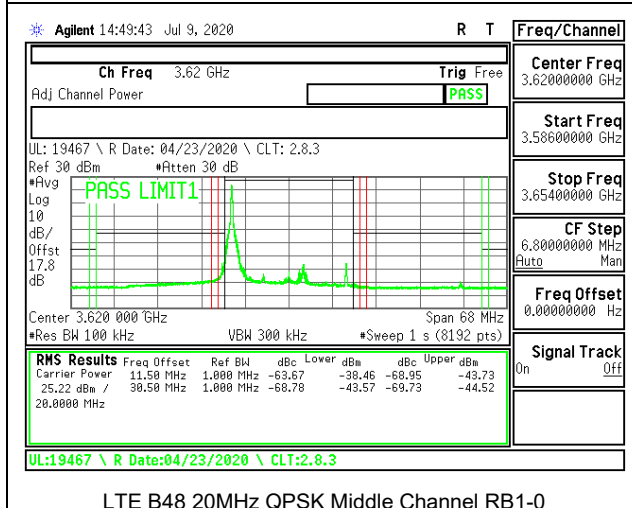
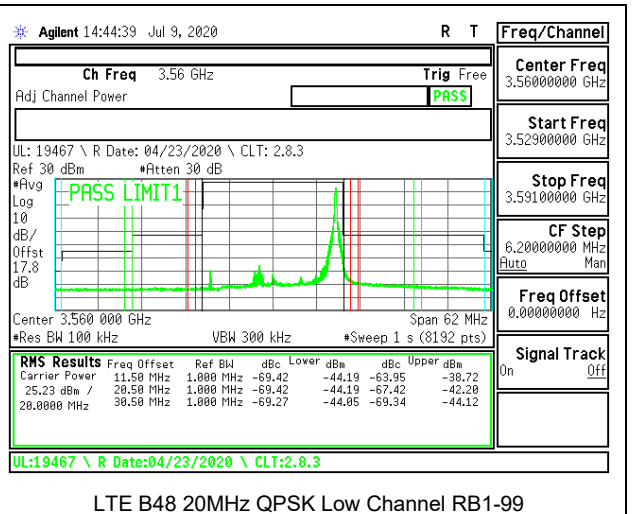
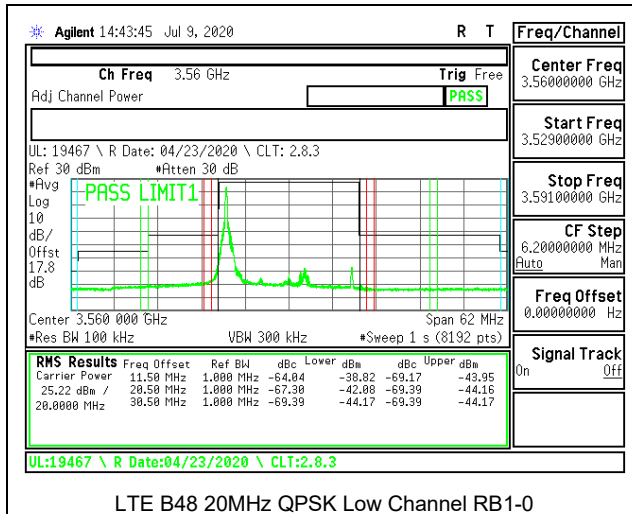


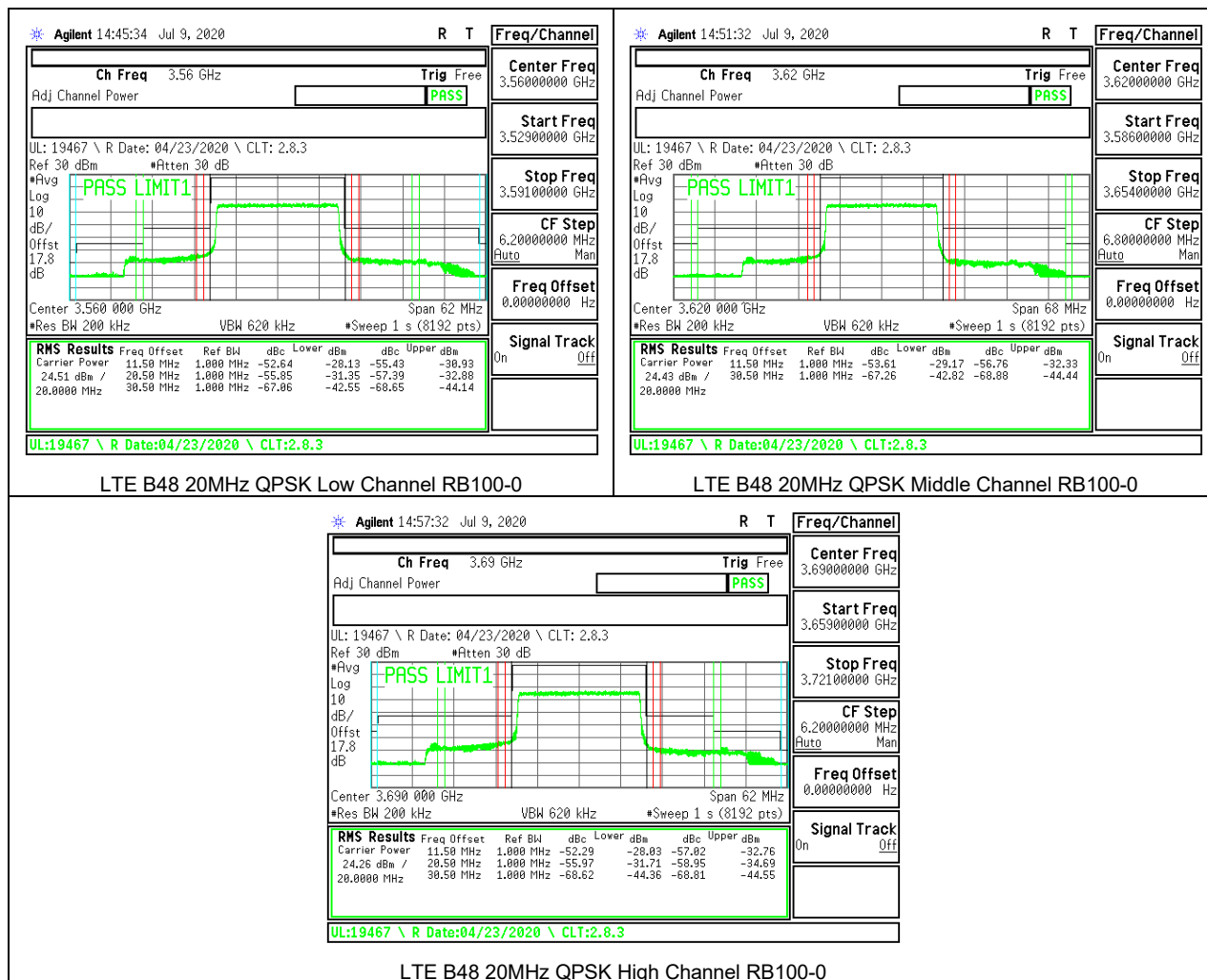
LTE B48 15MHz QPSK High Channel RB1-0



LTE B48 15MHz QPSK High Channel RB1-74





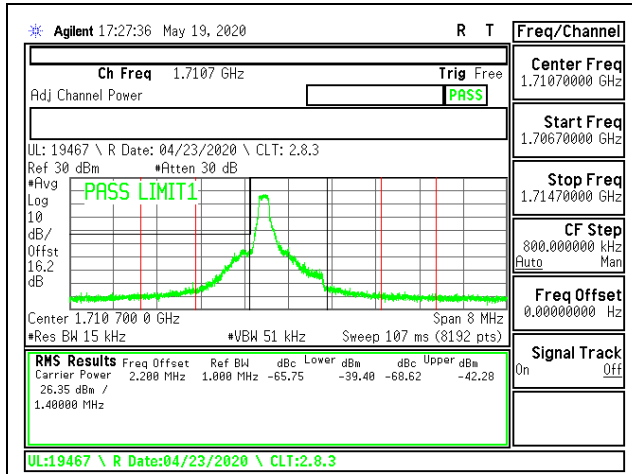


8.2.13. LTE BAND 66 BANDEDGE ADJACENT CHANNEL POWER

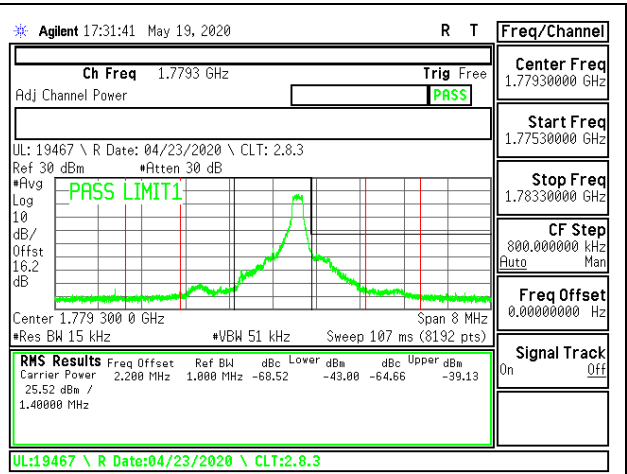
LIMITS

FCC: §27.53(h)

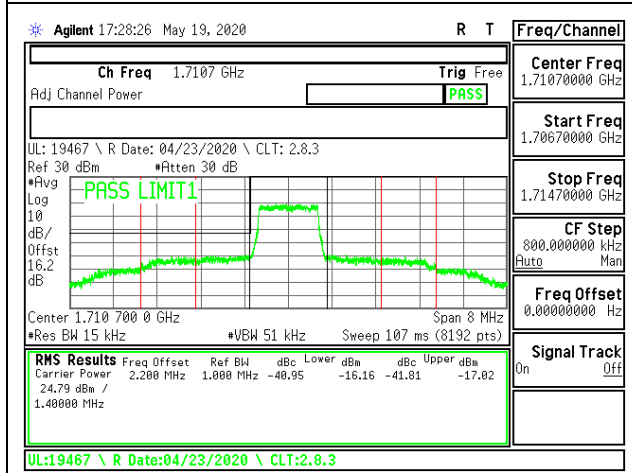
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.



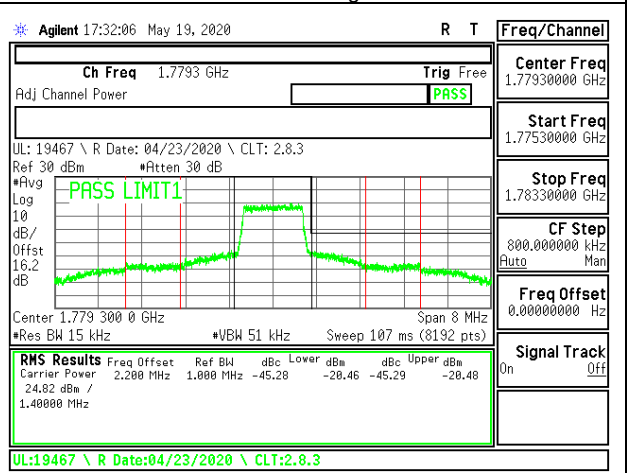
LTE B66 1.4MHz QPSK Low Channel RB1-0



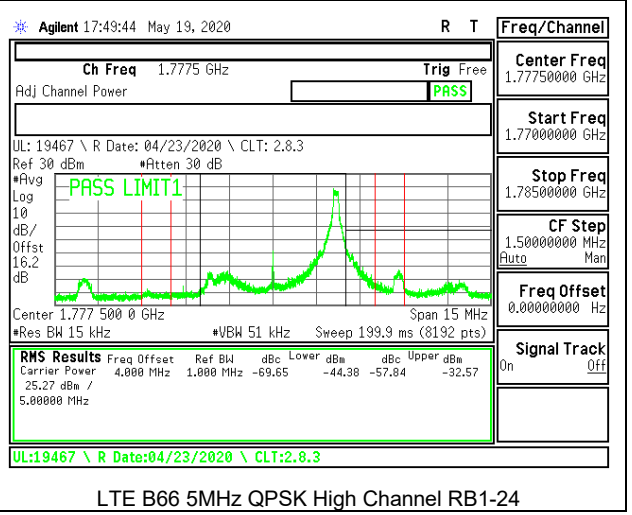
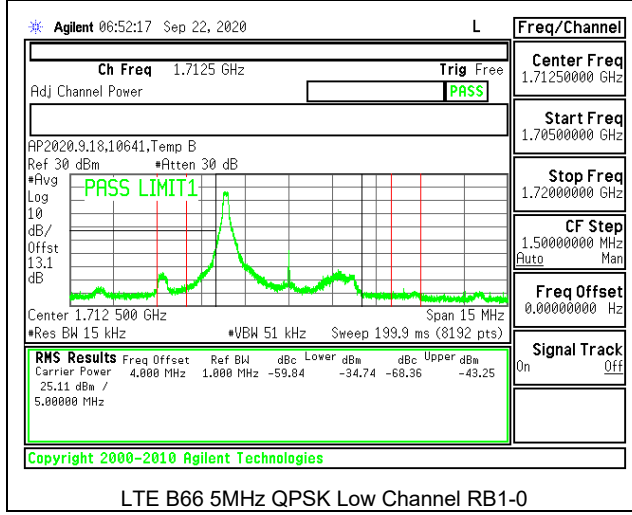
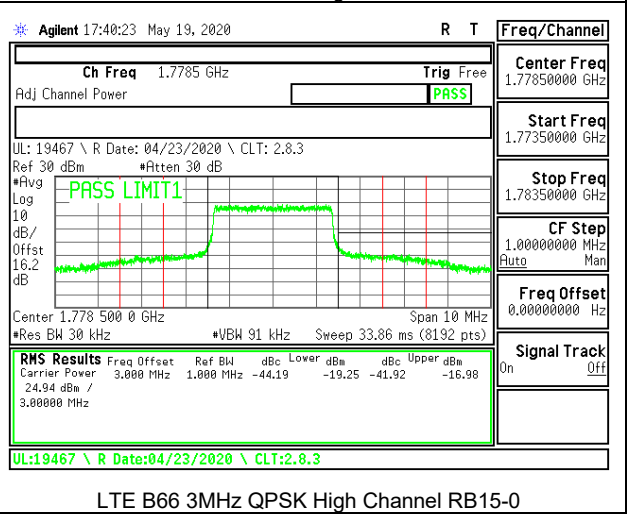
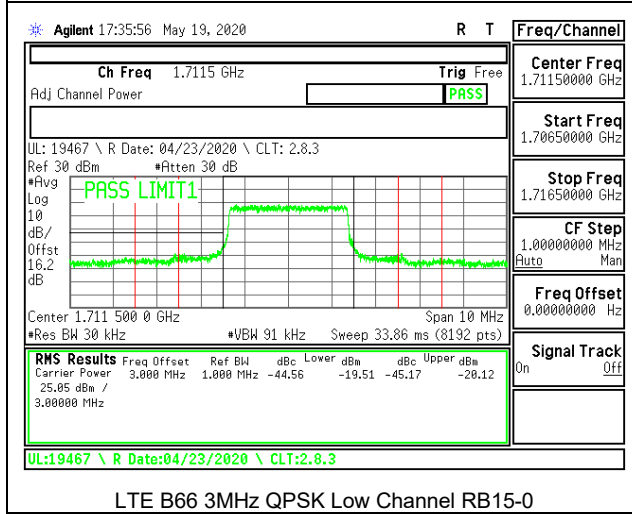
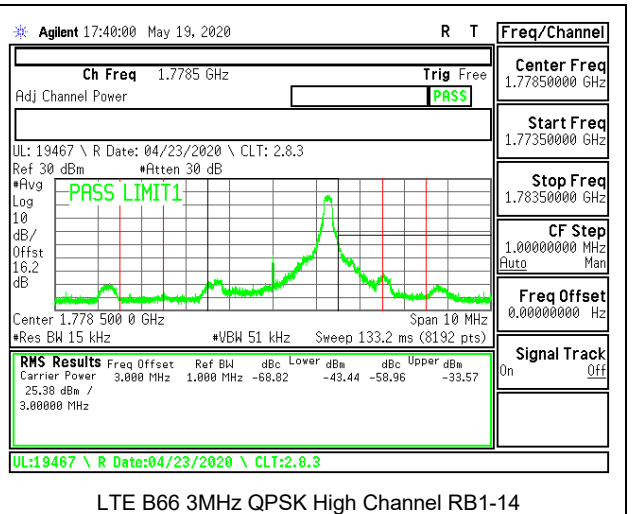
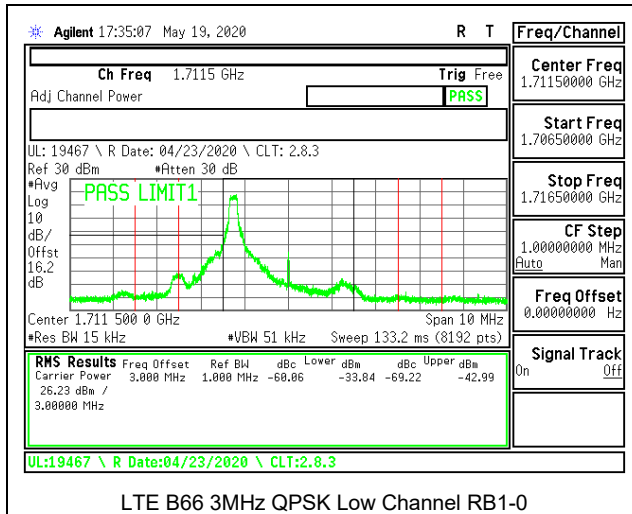
LTE B66 1.4MHz QPSK High Channel RB1-5

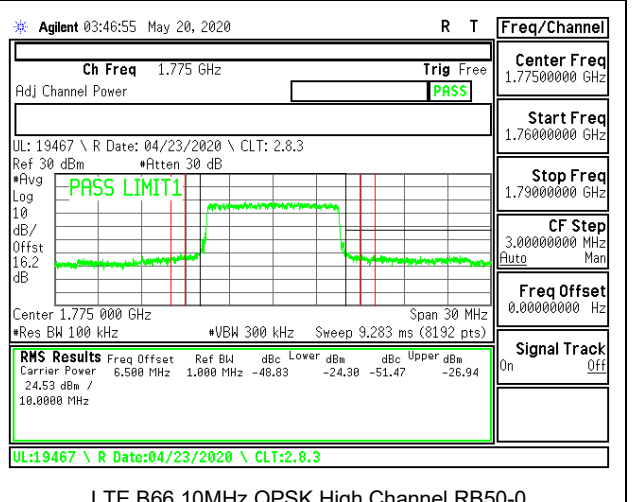
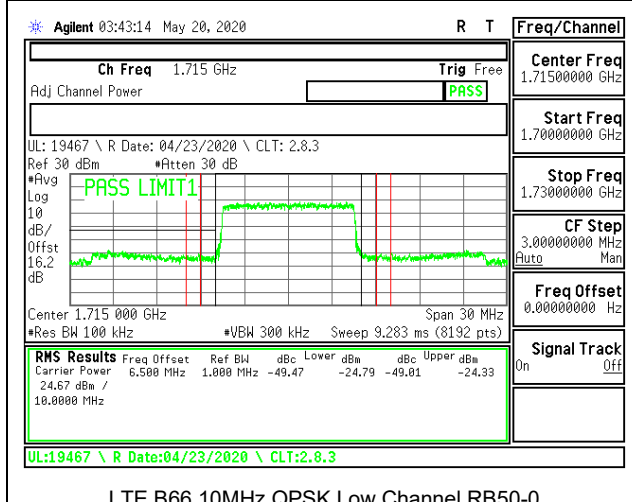
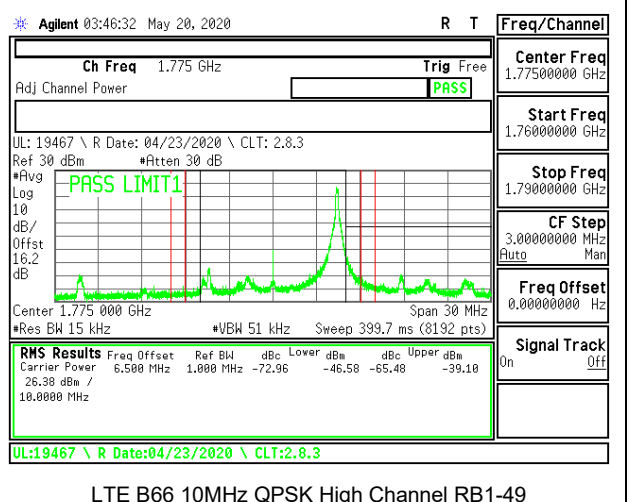
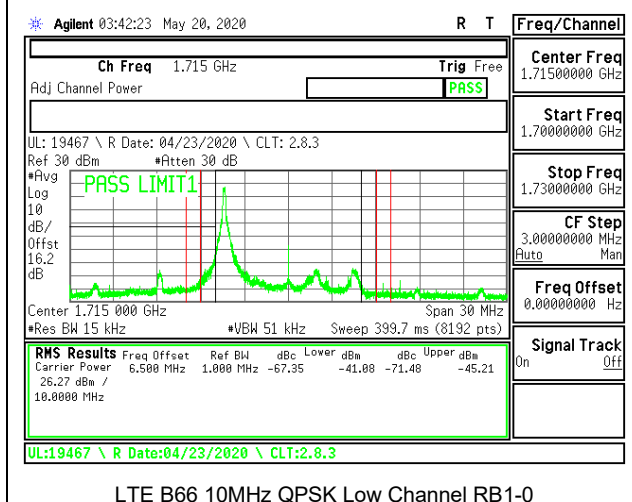
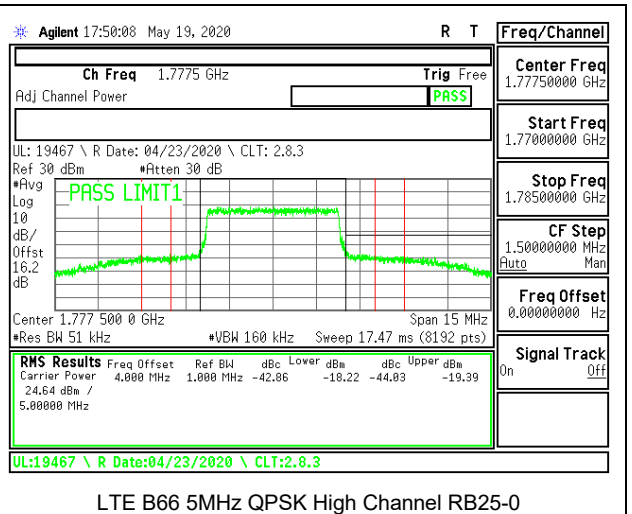
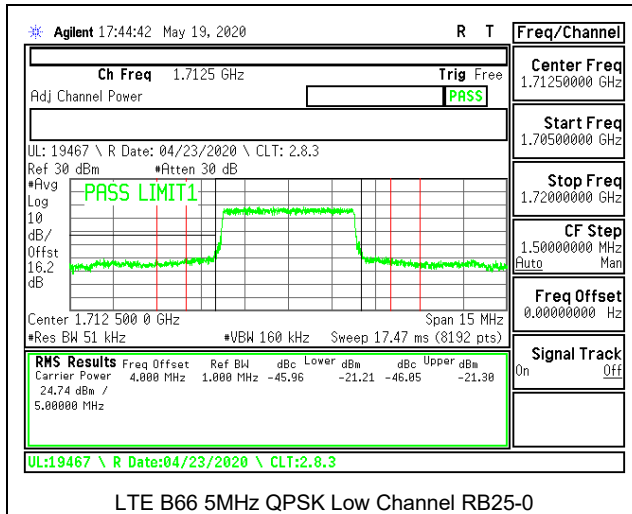


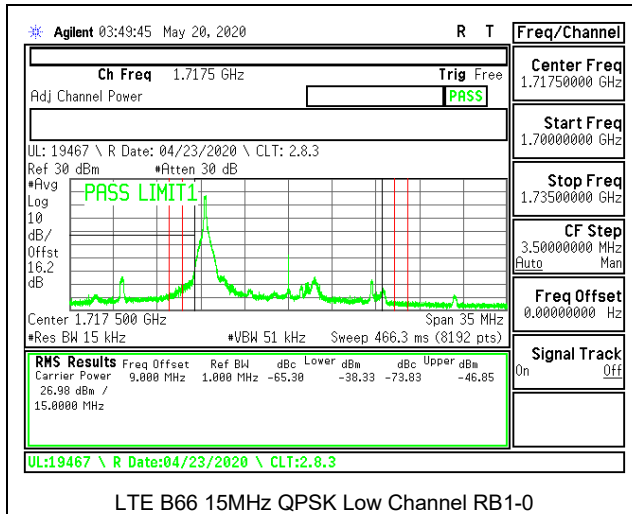
LTE B66 1.4MHz QPSK Low Channel RB6-0



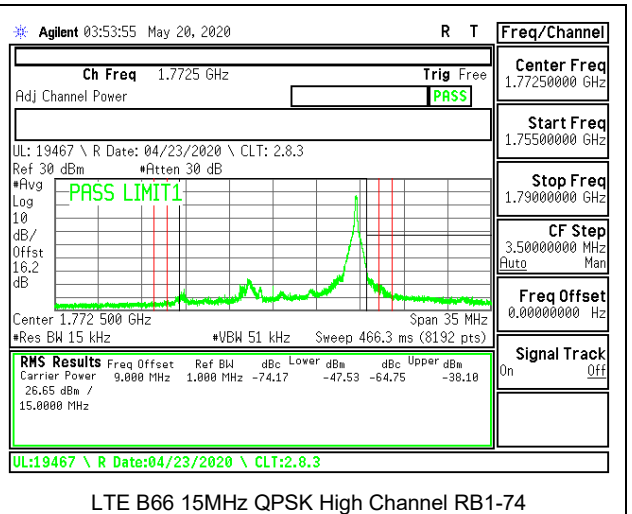
LTE B66 1.4MHz QPSK High Channel RB6-0



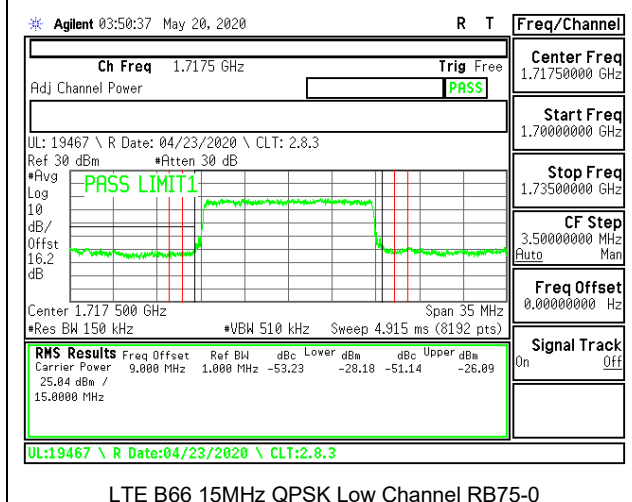




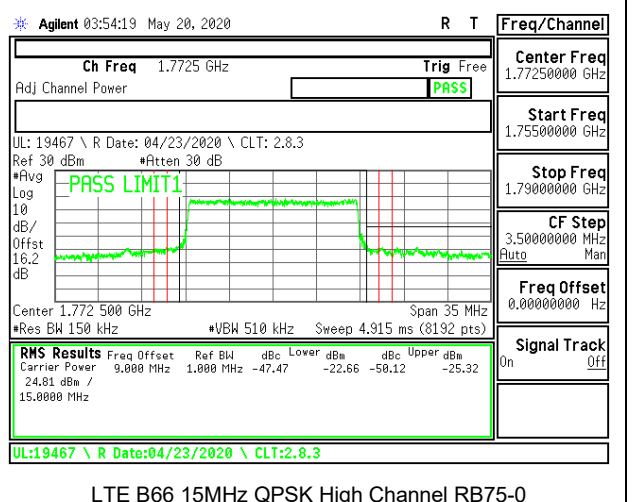
LTE B66 15MHz QPSK Low Channel RB1-0



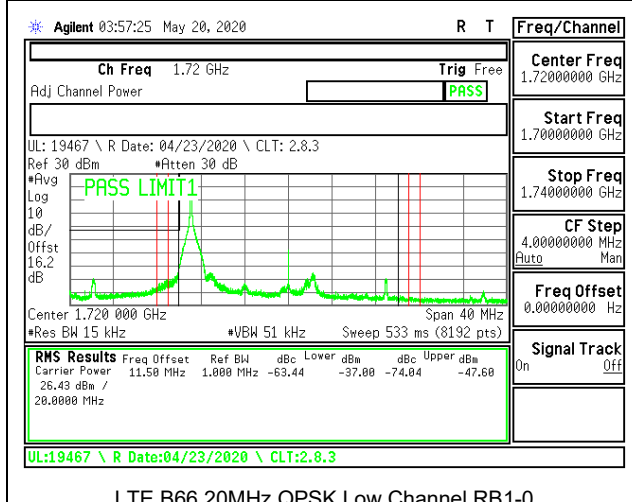
LTE B66 15MHz QPSK High Channel RB1-74



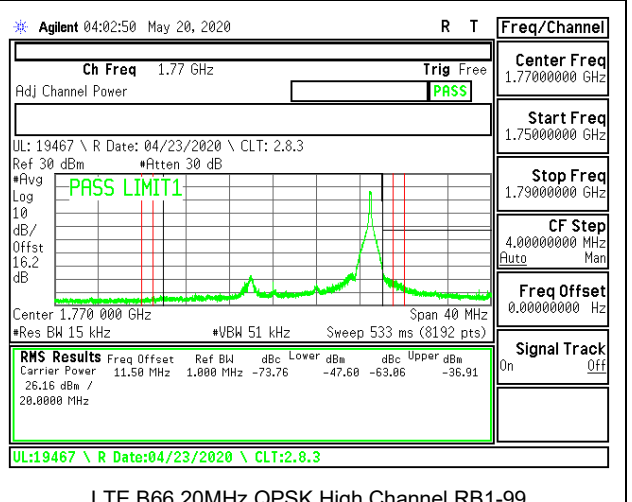
LTE B66 15MHz QPSK Low Channel RB75-0



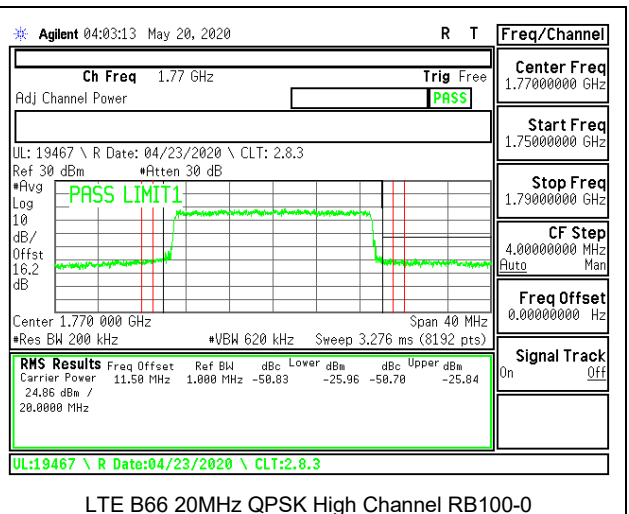
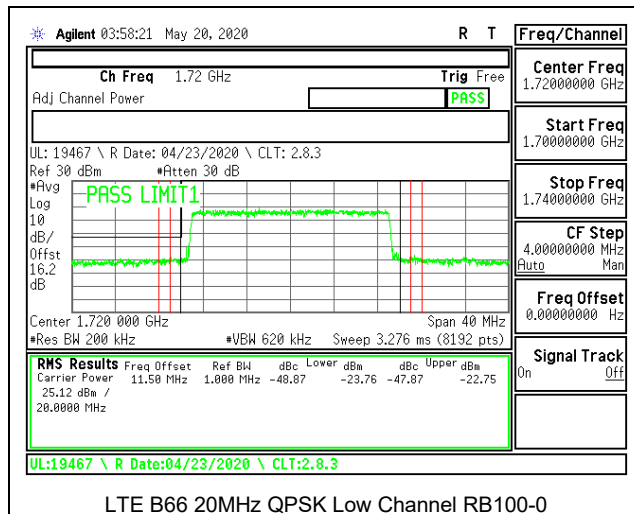
LTE B66 15MHz QPSK High Channel RB75-0



LTE B66 20MHz QPSK Low Channel RB1-0



LTE B66 20MHz QPSK High Channel RB1-99

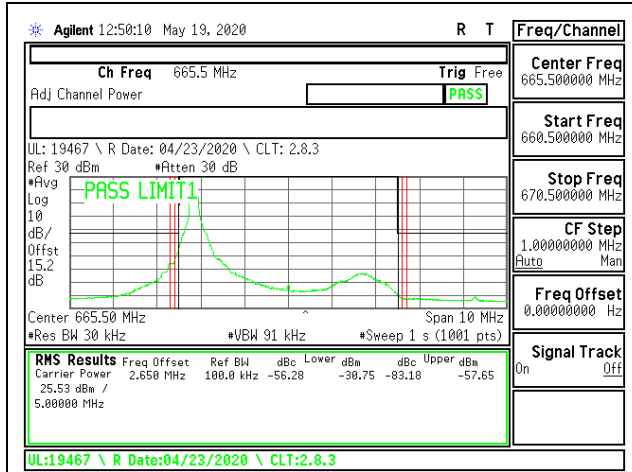


8.2.14. LTE BAND 71 ADJACENT CHANNEL POWER

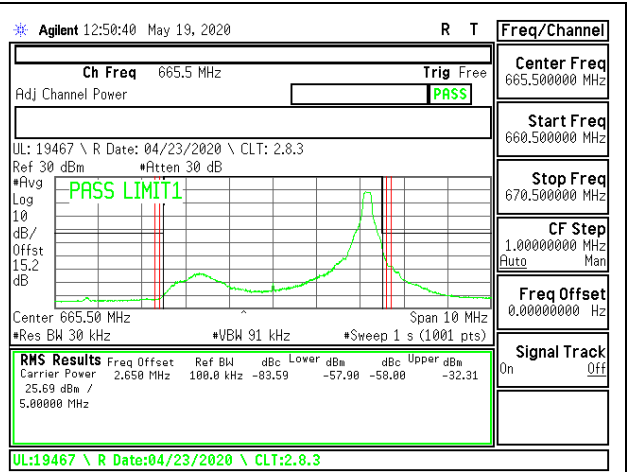
LIMITS

FCC: §27.53

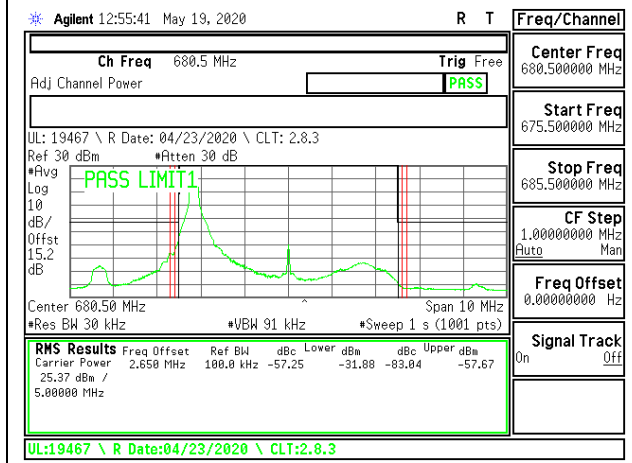
(g) For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB. Compliance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



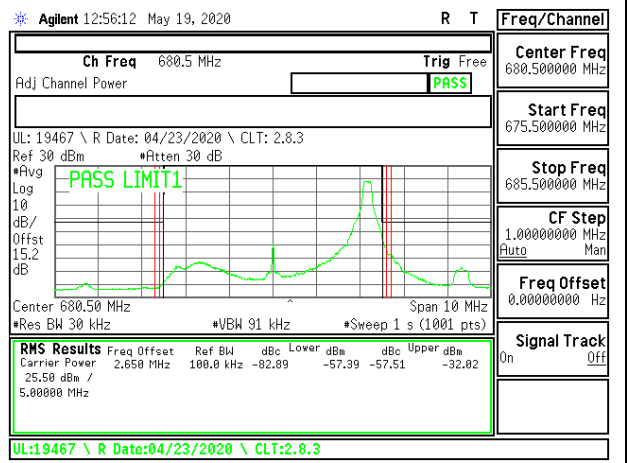
LTE B71 5MHz QPSK Low Channel RB1-0



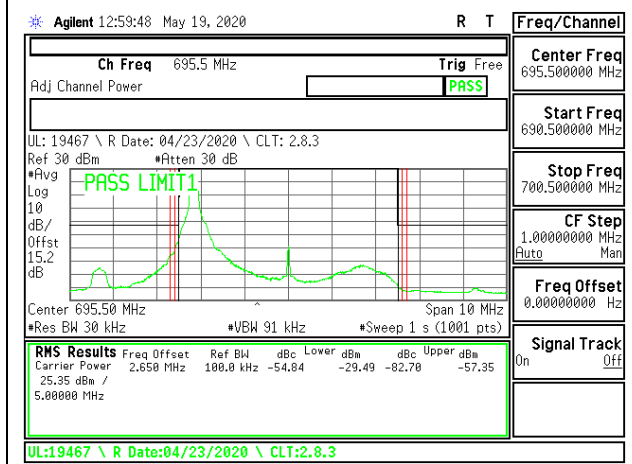
LTE B71 5MHz QPSK Low Channel RB1-24



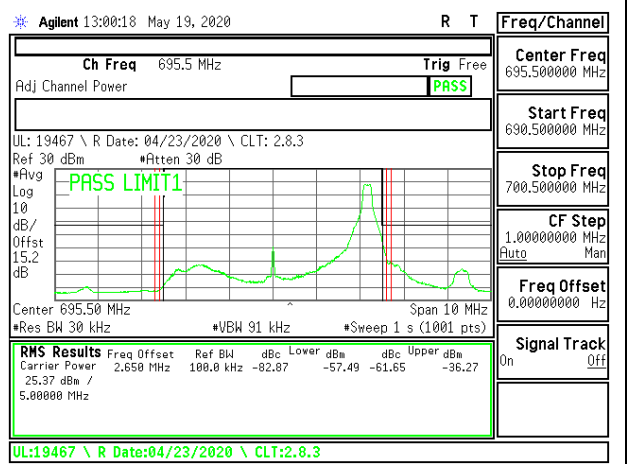
LTE B71 5MHz QPSK Middle Channel RB1-0



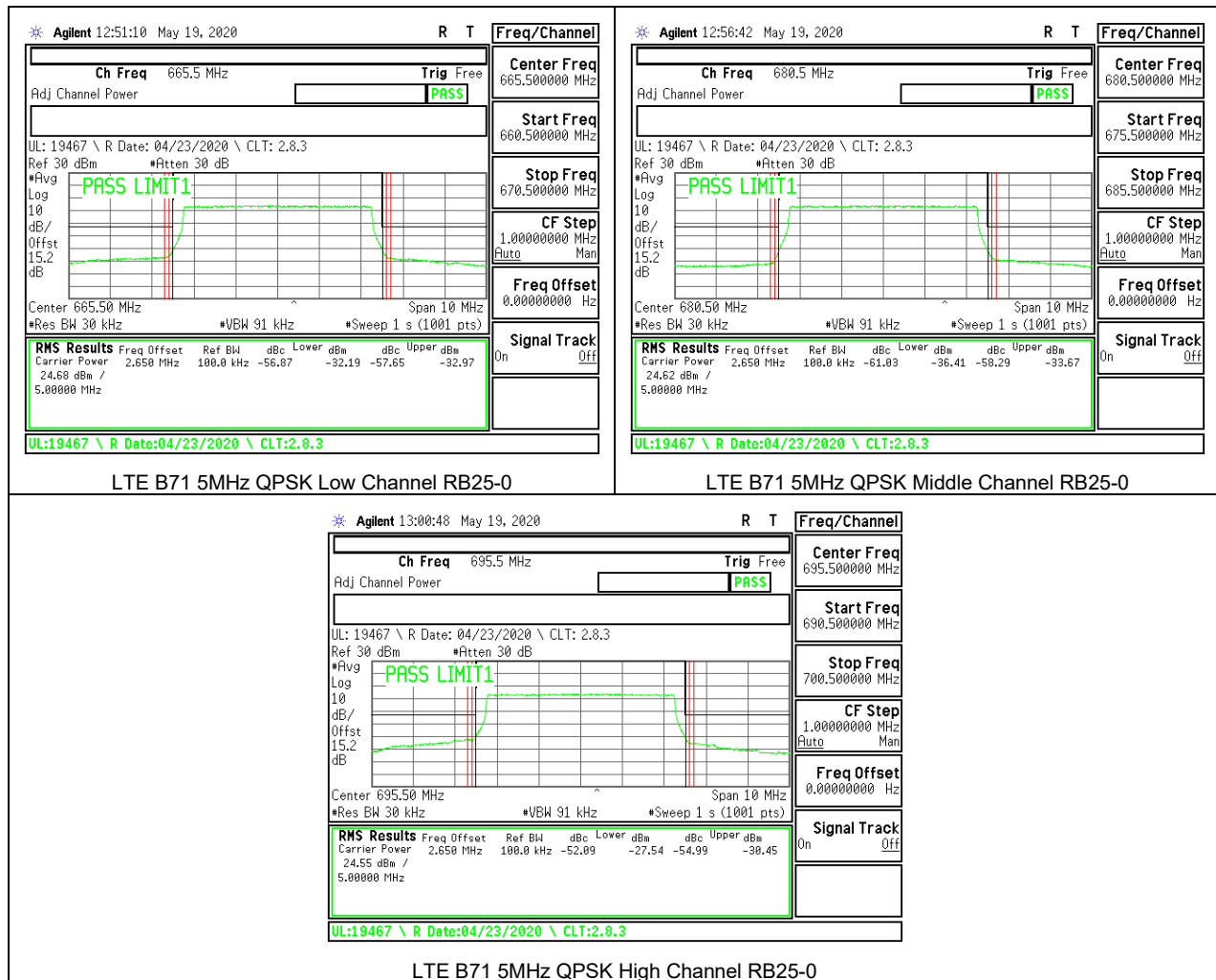
LTE B71 5MHz QPSK Middle Channel RB1-24

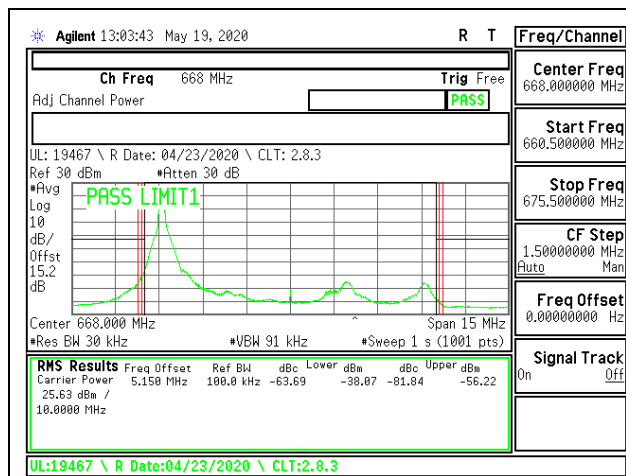


LTE B71 5MHz QPSK High Channel RB1-0

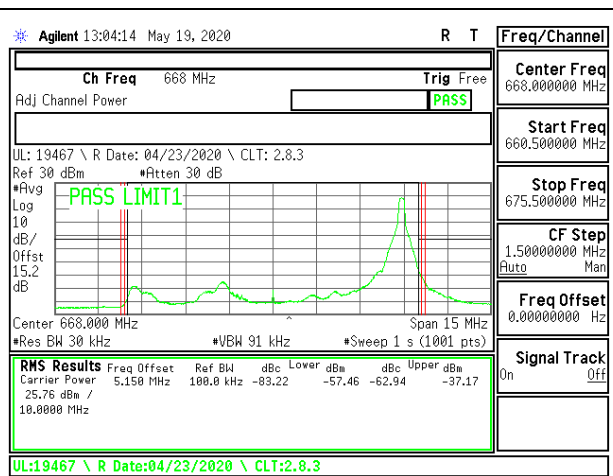


LTE B71 5MHz QPSK High Channel RB1-24

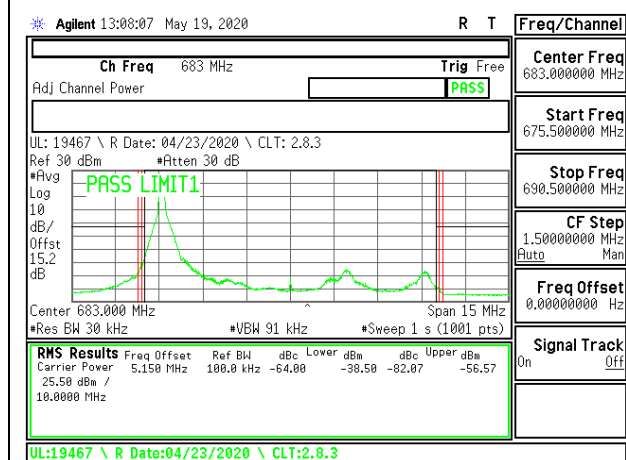




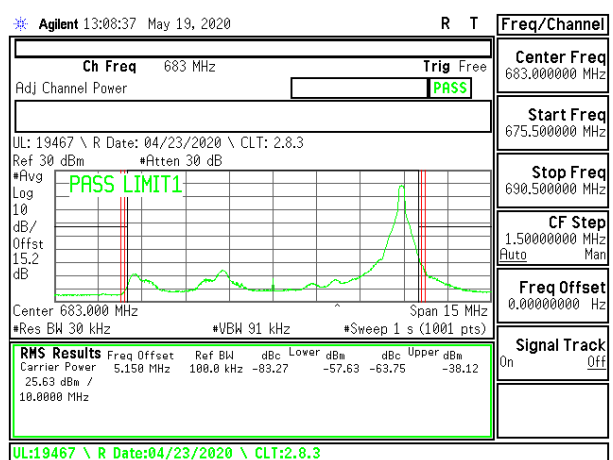
LTE B71 10MHz QPSK Low Channel RB1-0



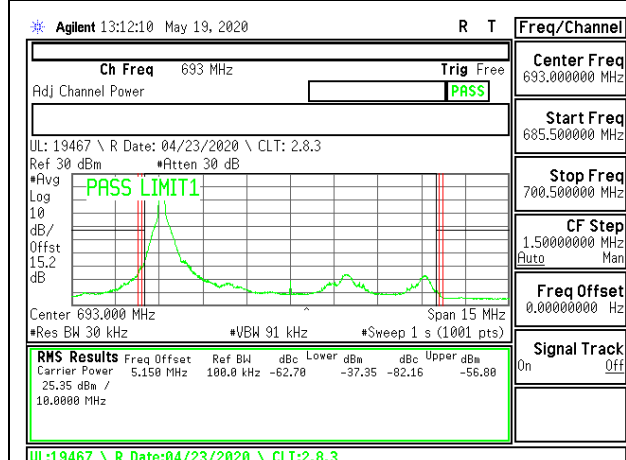
LTE B71 10MHz QPSK Low Channel RB1-49



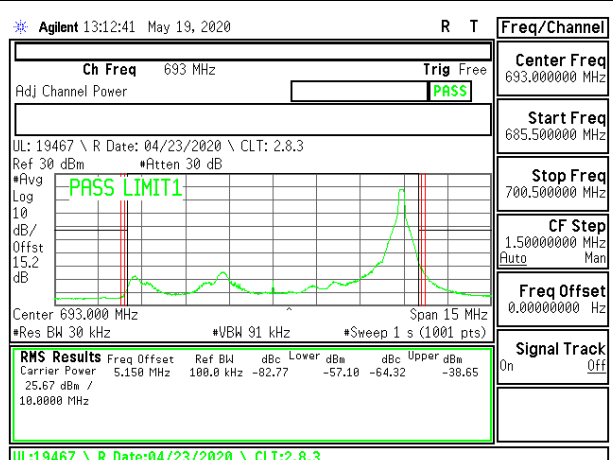
LTE B71 10MHz QPSK Middle Channel RB1-0



LTE B71 10MHz QPSK Middle Channel RB1-49

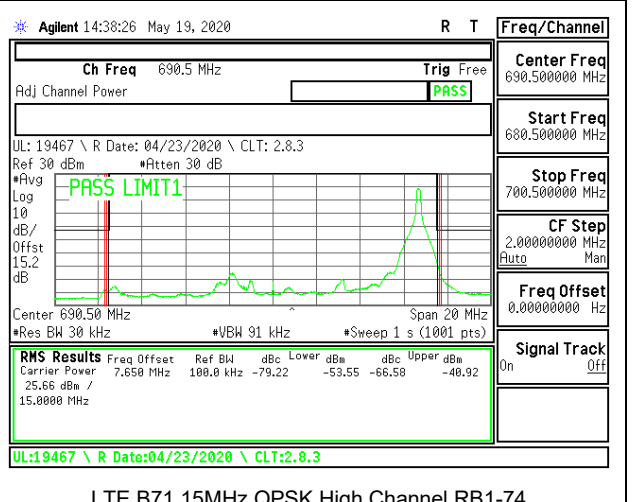
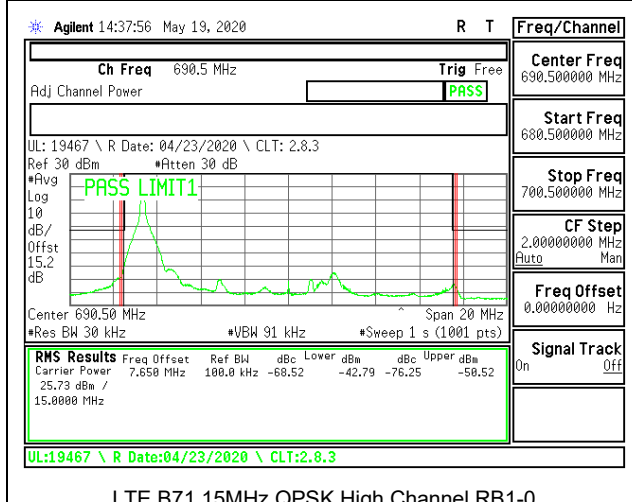
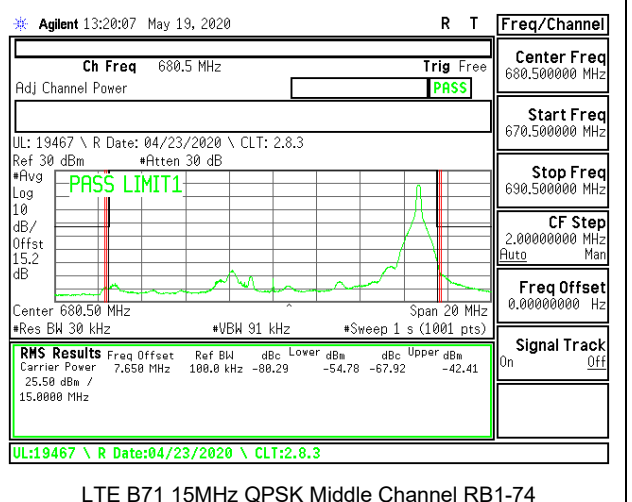
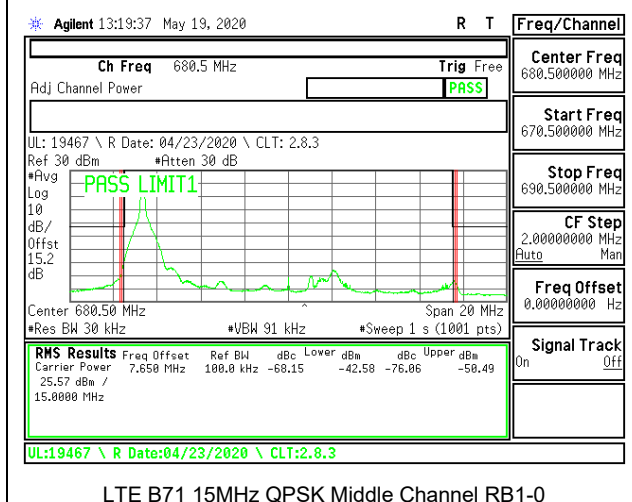
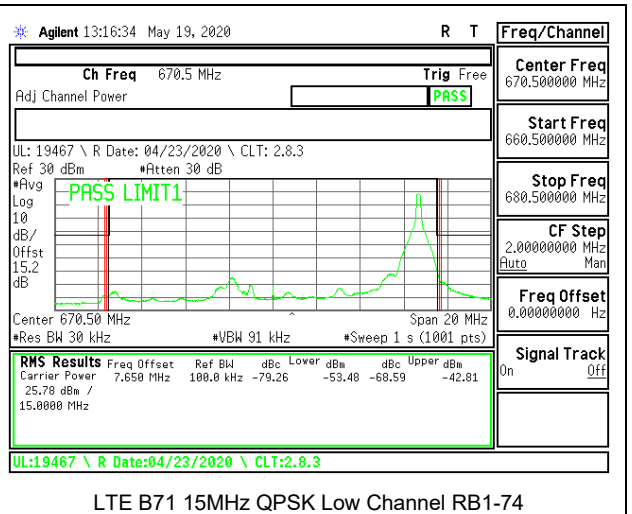
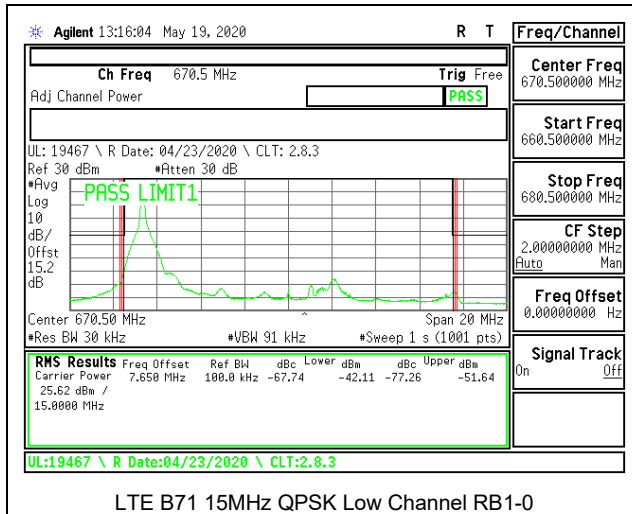


LTE B71 10MHz QPSK High Channel RB1-0

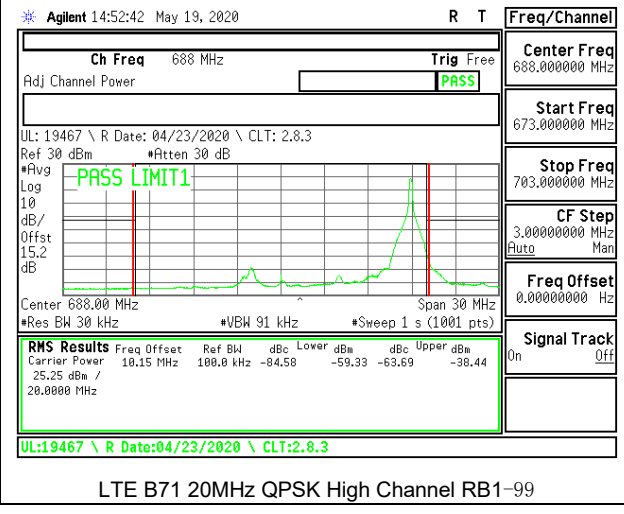
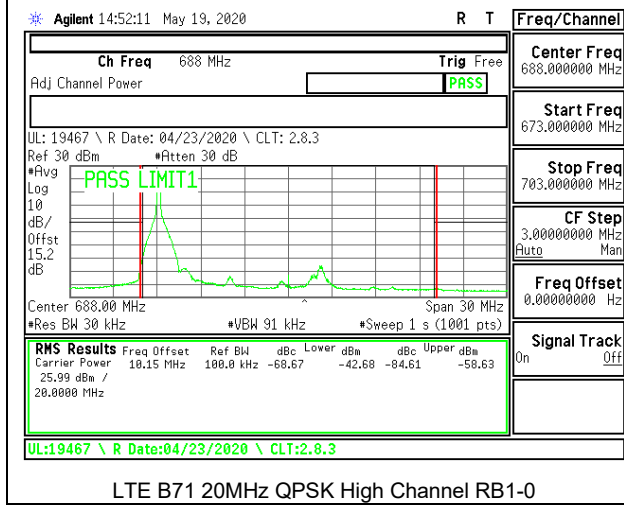
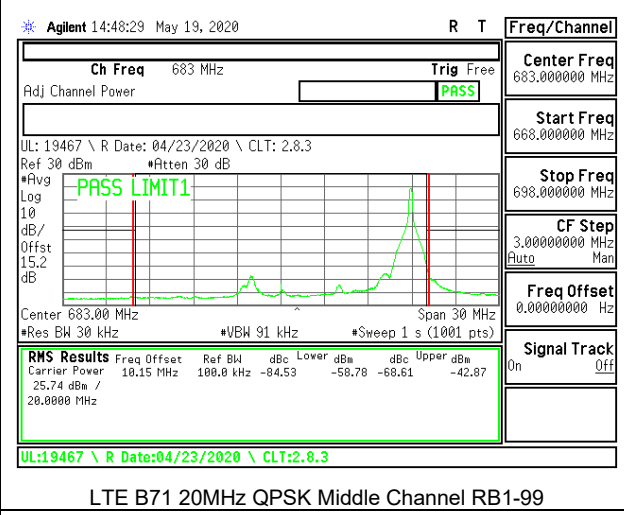
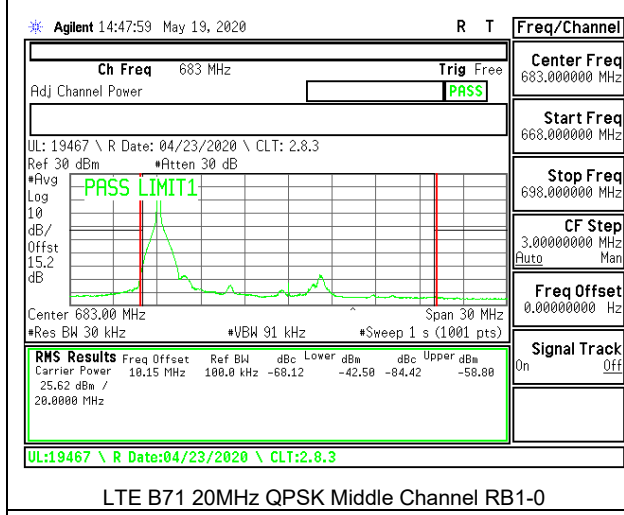
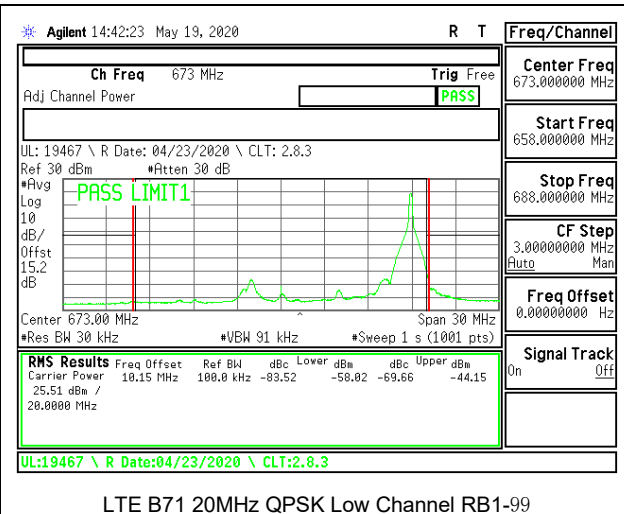
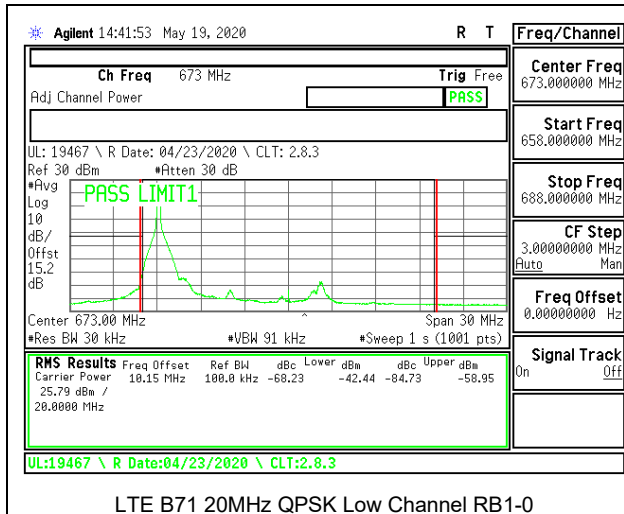


LTE B71 10MHz QPSK High Channel RB1-49











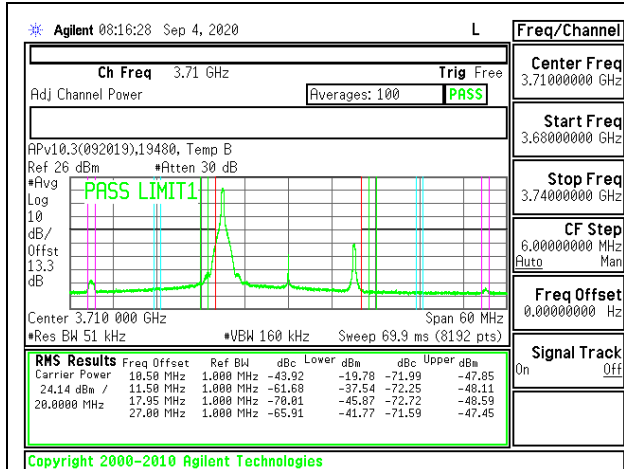
8.2.15. 5G NR BAND n77 ADJACENT CHANNEL POWER

LIMITS

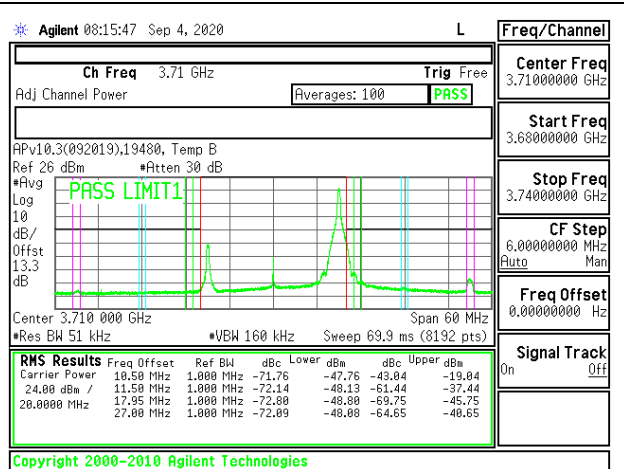
FCC: §27.53

(1) 3.7 GHz Service. The following emission limits apply to stations transmitting in the 3700-3980 MHz band:

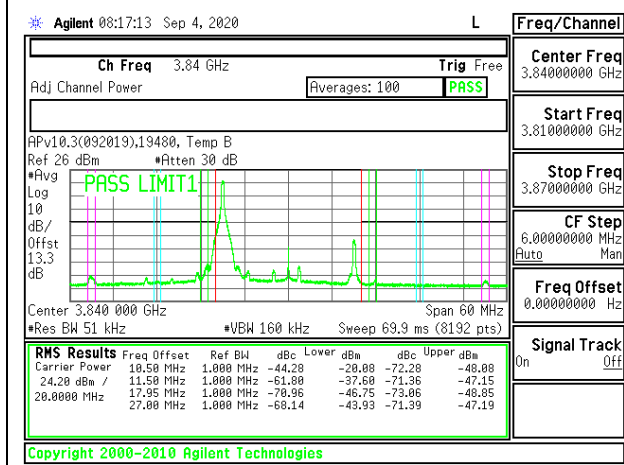
(2) For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph (1)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 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.



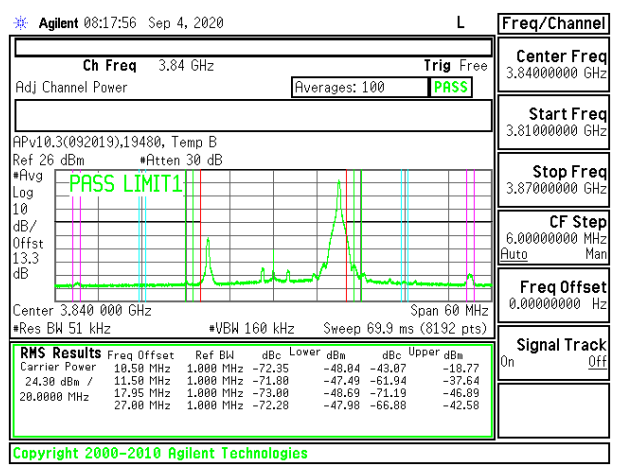
5G NR Band n77 20MHz QPSK Low Channel RB1-0



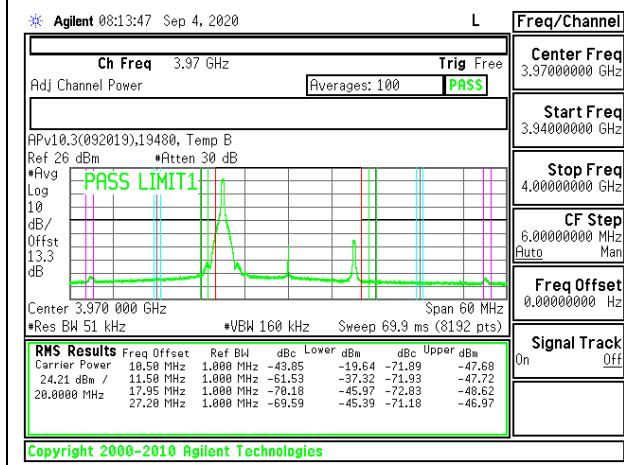
5G NR Band n77 20MHz QPSK Low Channel RB1-50



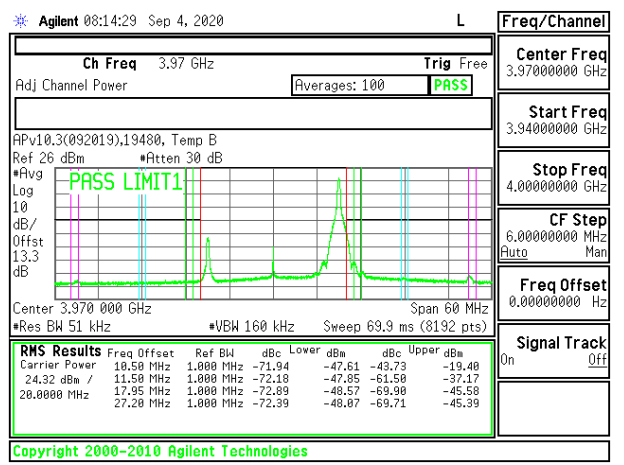
5G NR Band n77 20MHz QPSK Middle Channel RB1-0



5G NR Band n77 20MHz QPSK Middle Channel RB1-50

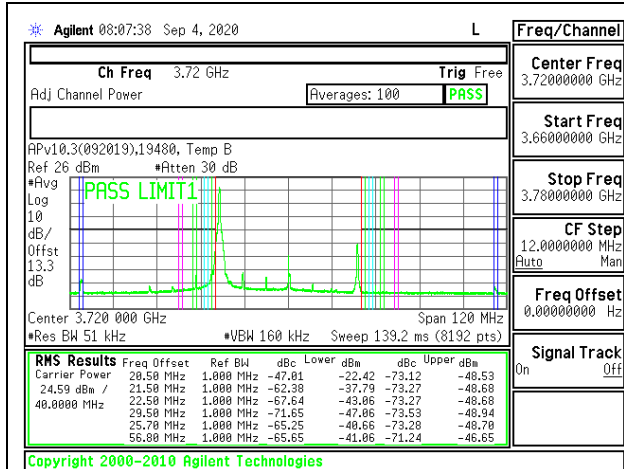


5G NR Band n77 20MHz QPSK High Channel RB1-0

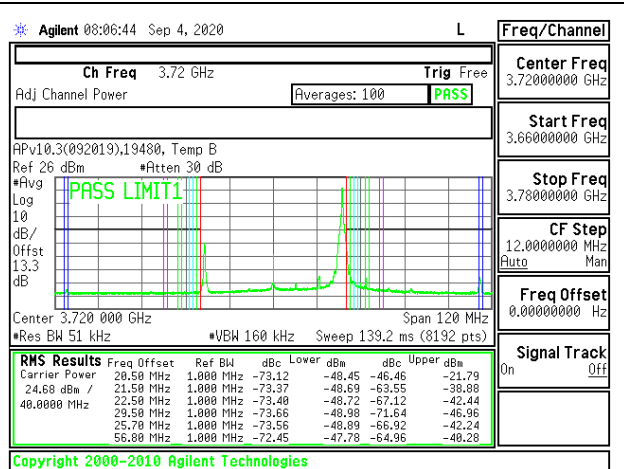


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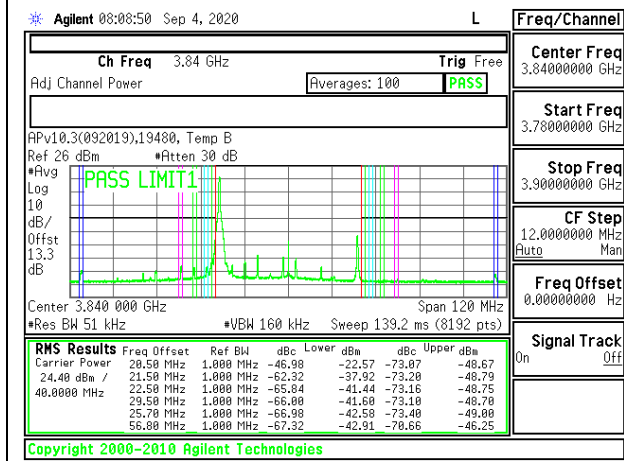




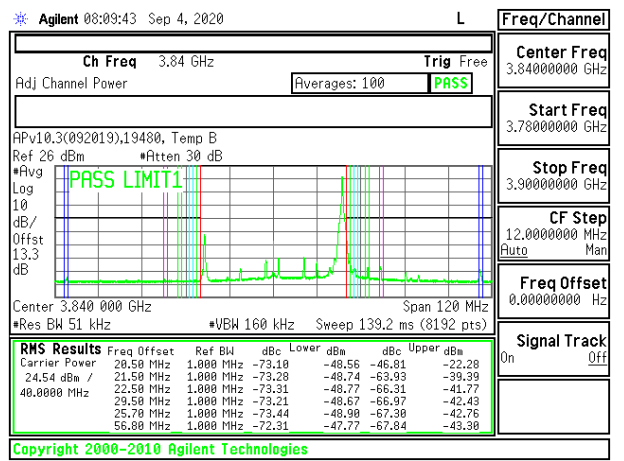
5G NR Band n77 40MHz QPSK Low Channel RB1-0



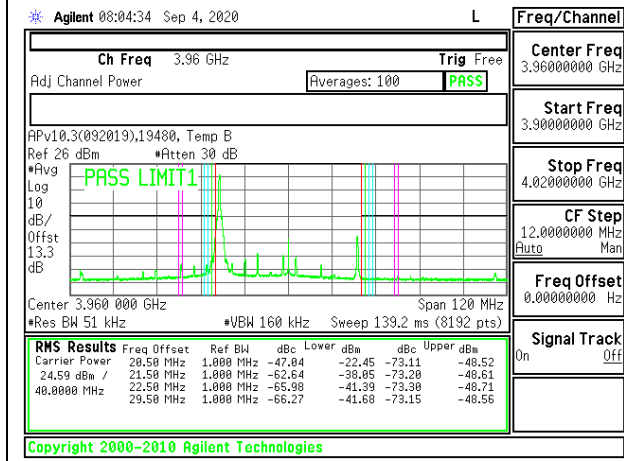
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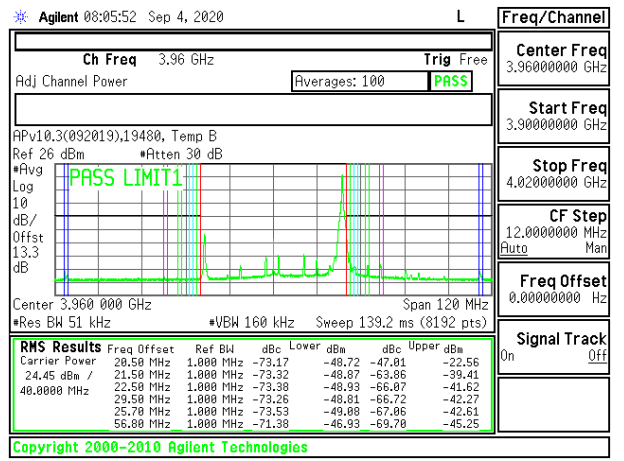
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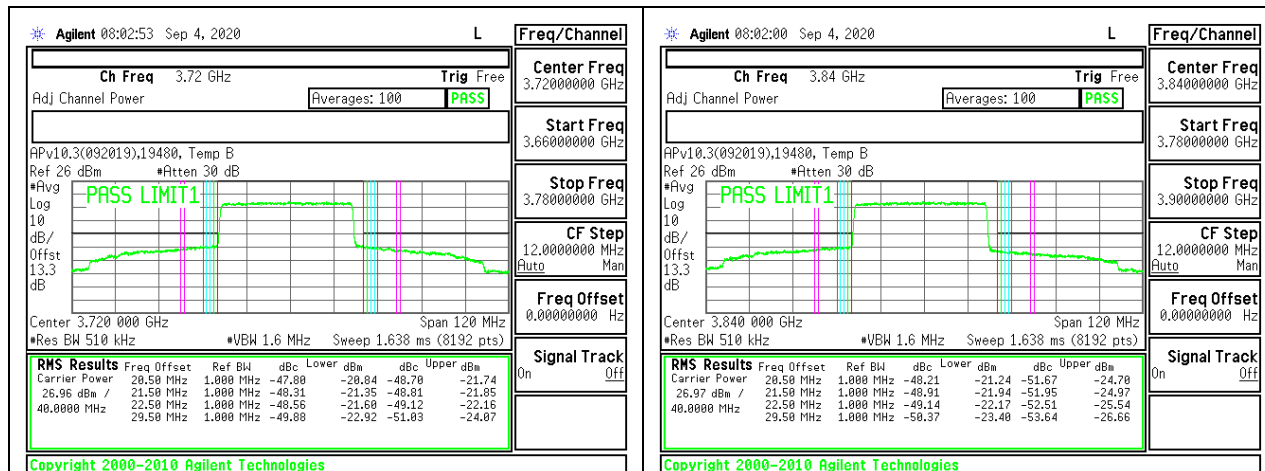
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5G NR Band n77 40MHz QPSK High Channel RB1-0

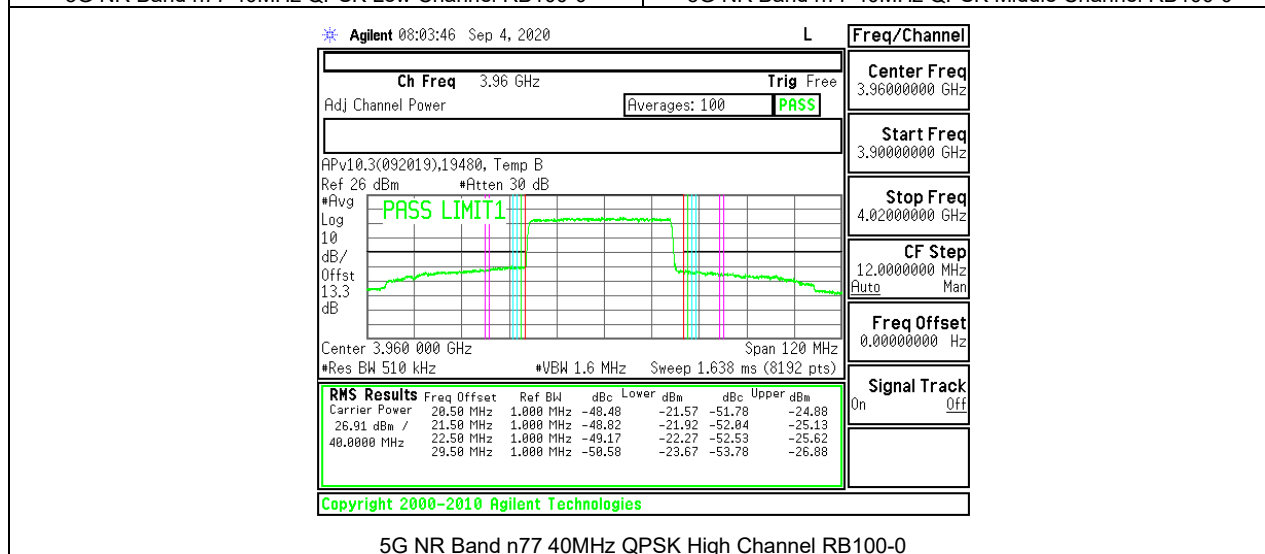


5G NR Band n77 40MHz QPSK High Channel RB1-105

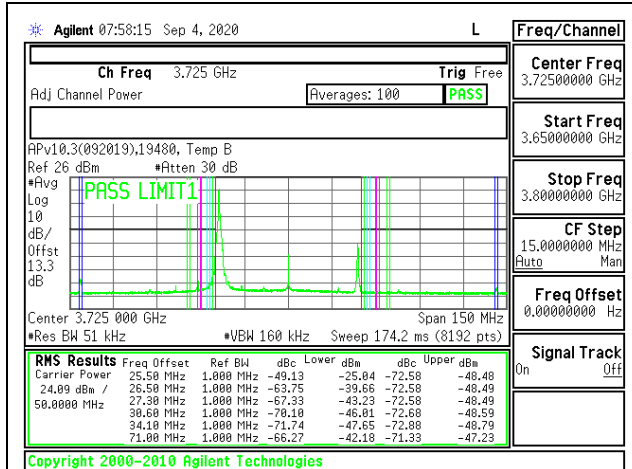


5G NR Band n77 40MHz QPSK Low Channel RB100-0

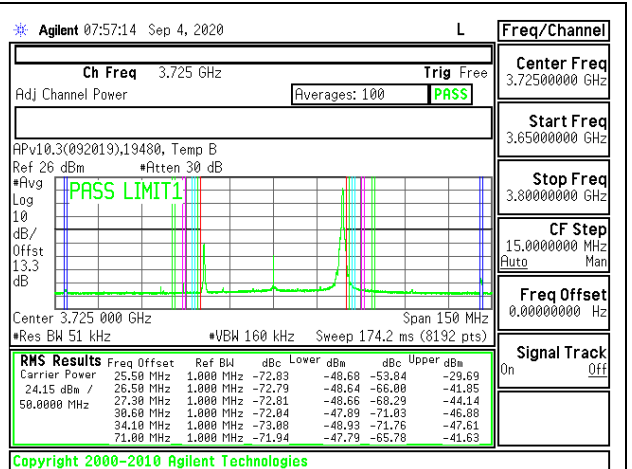
5G NR Band n77 40MHz QPSK Middle Channel RB100-0



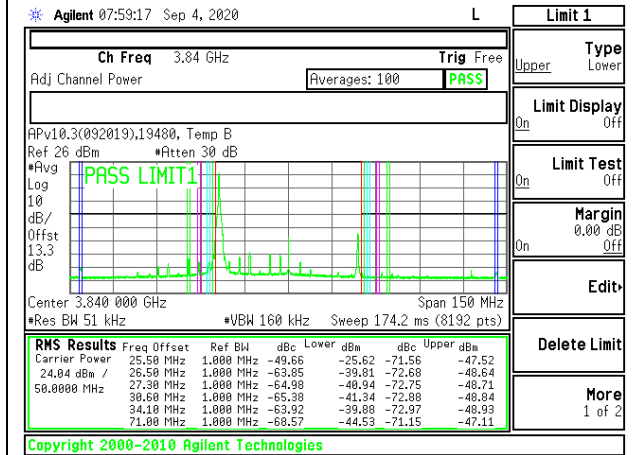
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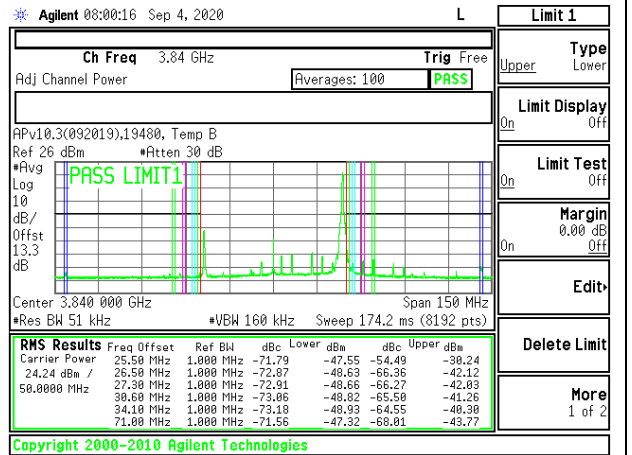
5G NR Band n77 50MHz QPSK Low Channel RB1-0



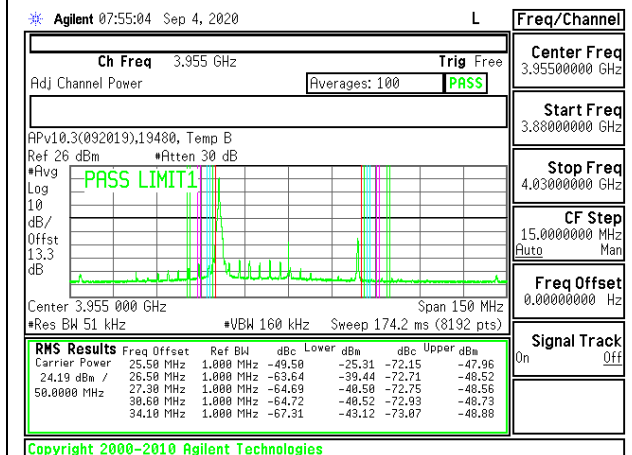
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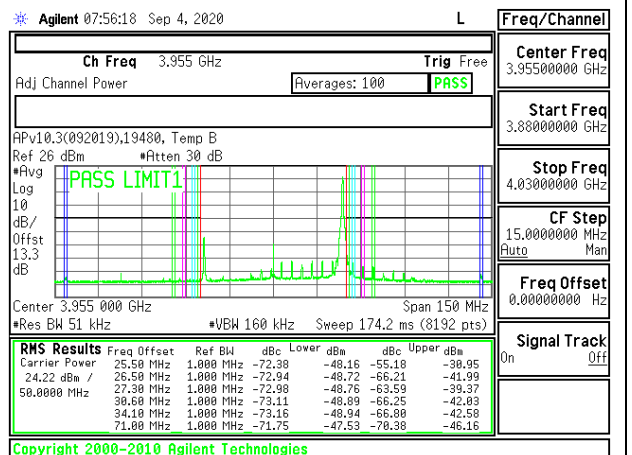
5G NR Band n77 50MHz QPSK Middle Channel RB1-0



5G NR Band n77 50MHz QPSK Middle Channel RB1-132

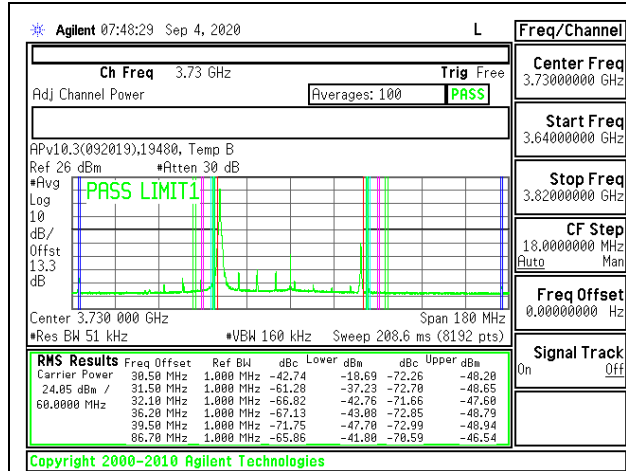


5G NR Band n77 50MHz QPSK High Channel RB1-0

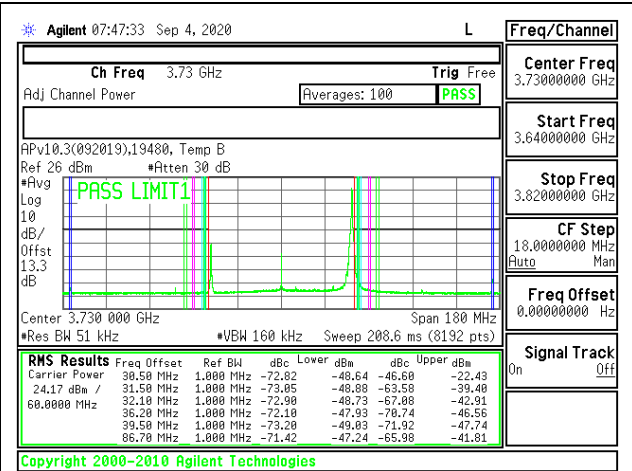


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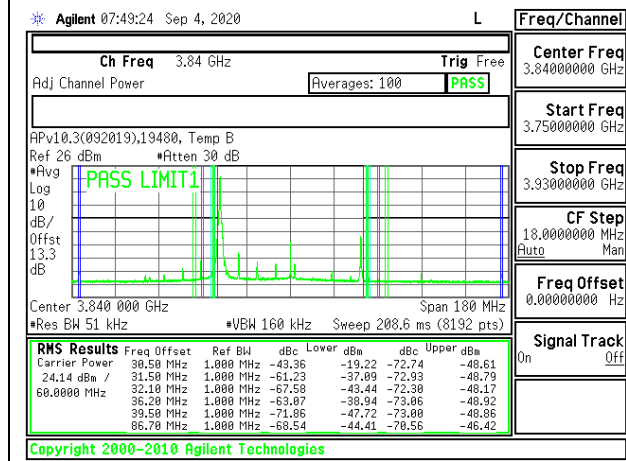




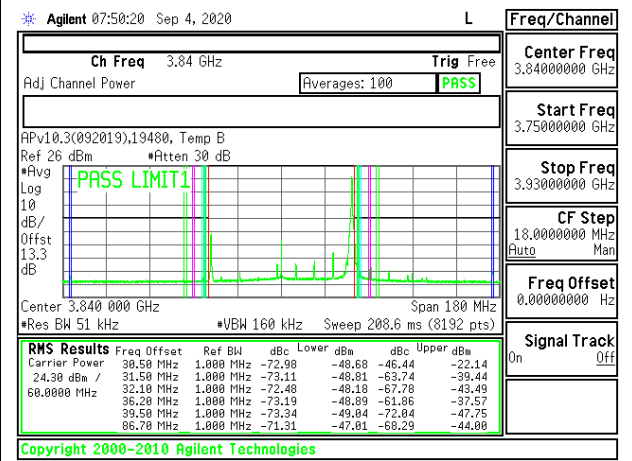
5G NR Band n77 60MHz QPSK Low Channel RB1-0



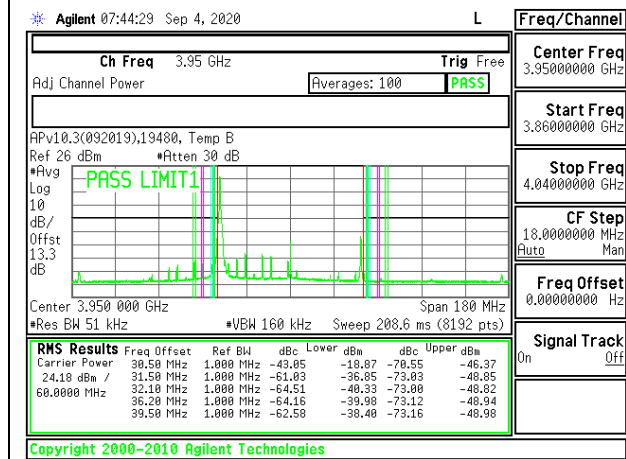
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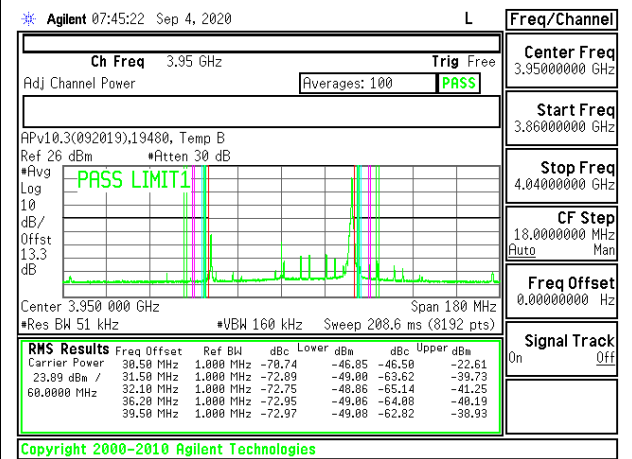
5G NR Band n77 60MHz QPSK Middle Channel RB1-0



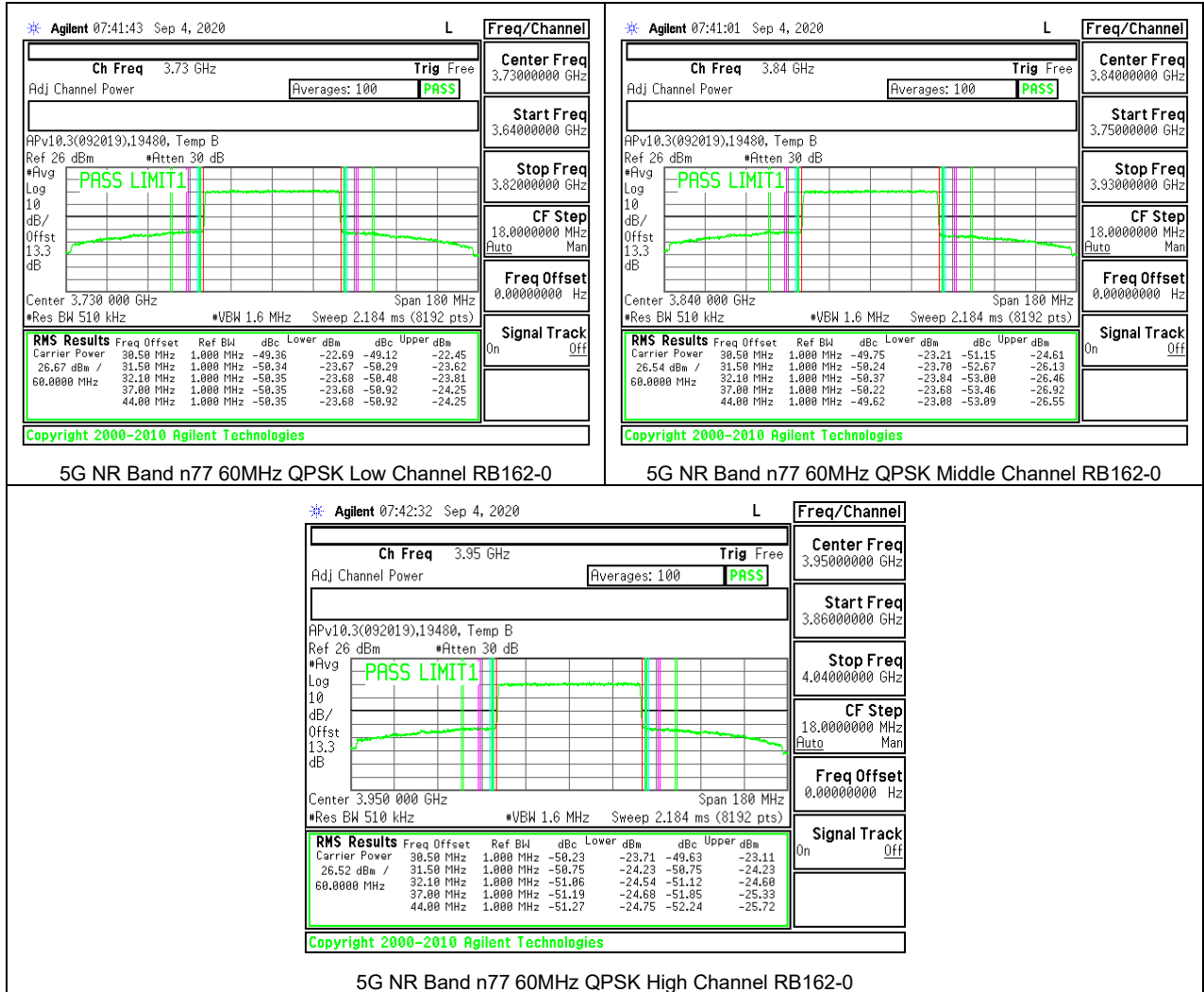
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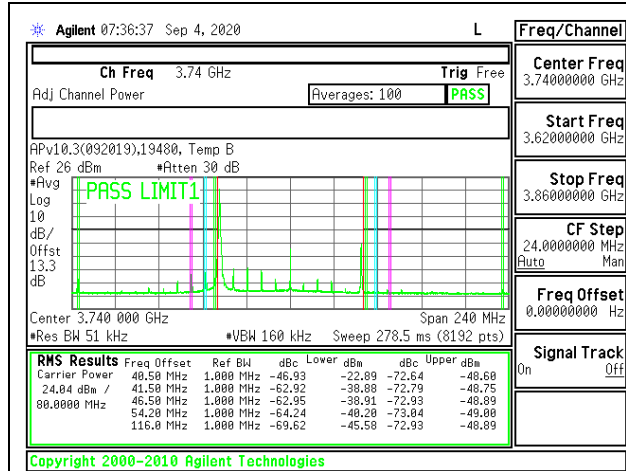


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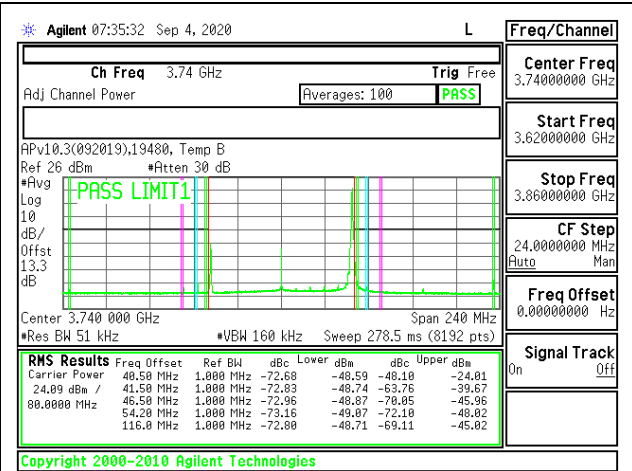


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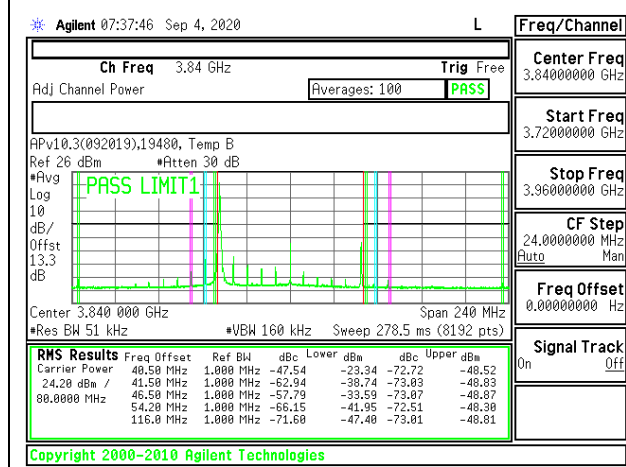




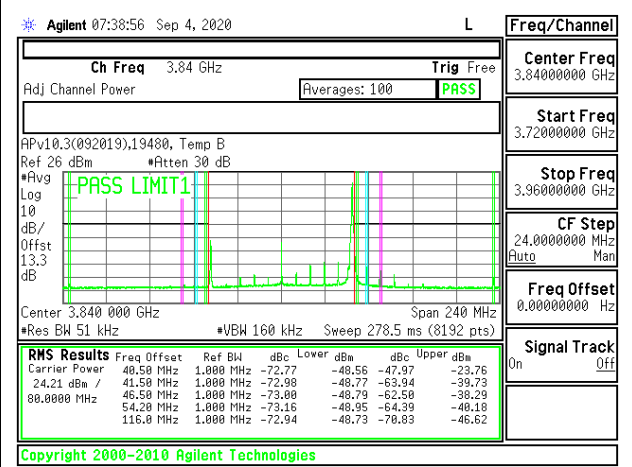
5G NR Band n77 80MHz QPSK Low Channel RB1-0



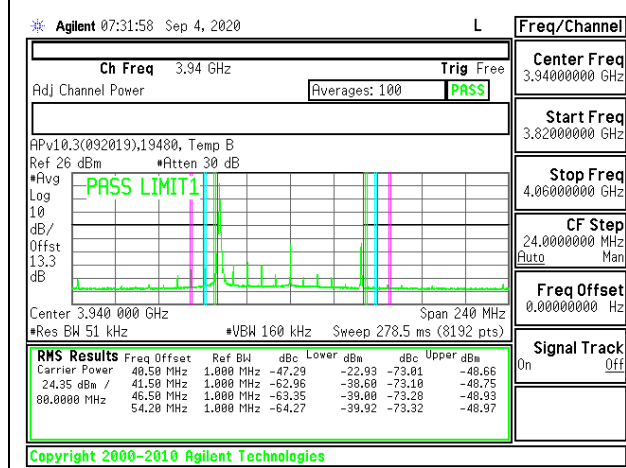
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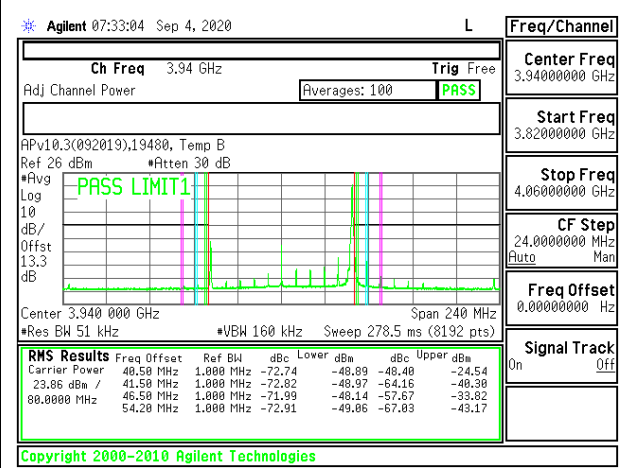
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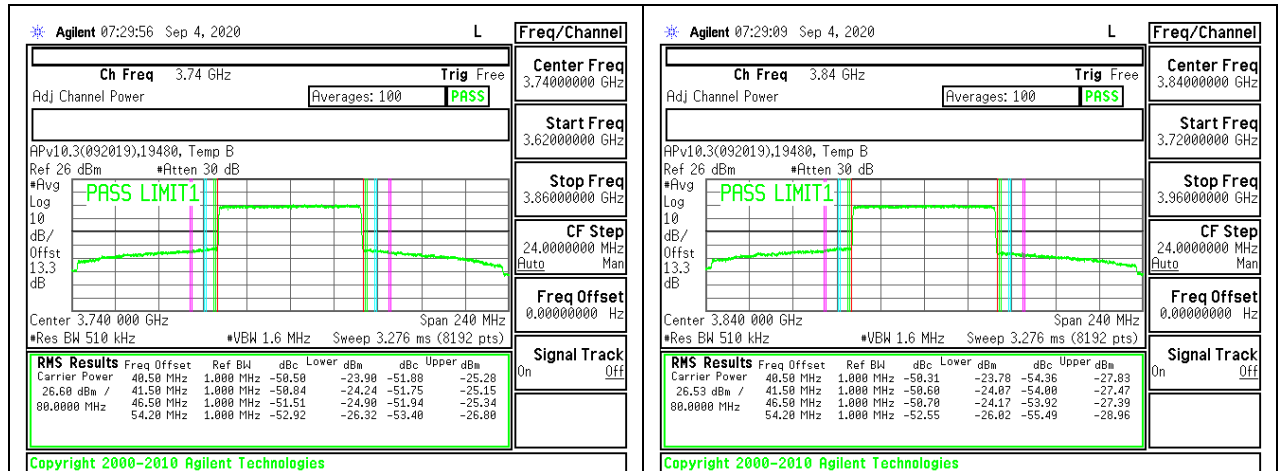
5G NR Band n77 80MHz QPSK Middle Channel RB1-216



5G NR Band n77 80MHz QPSK High Channel RB1-0

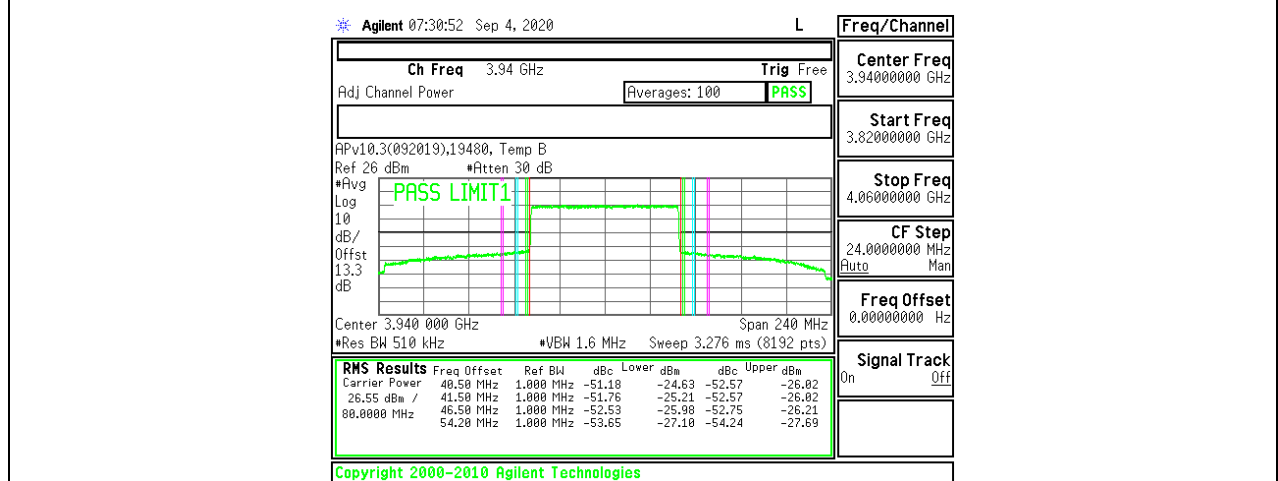


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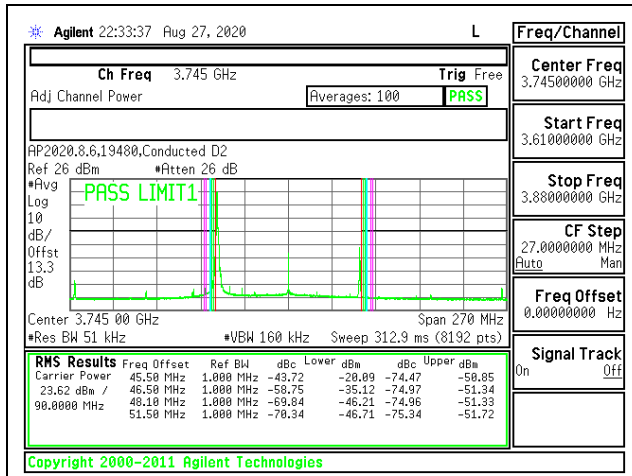


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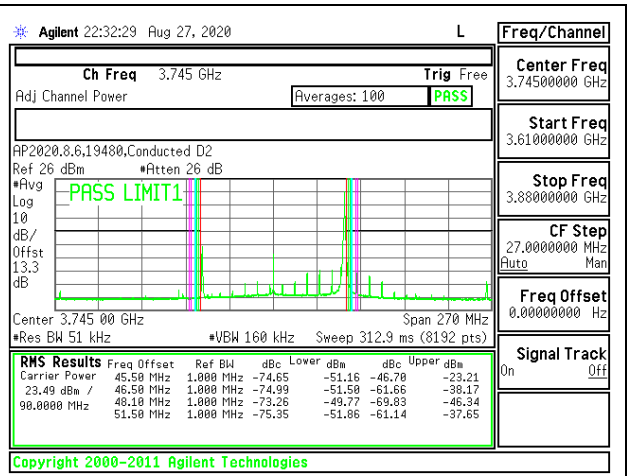
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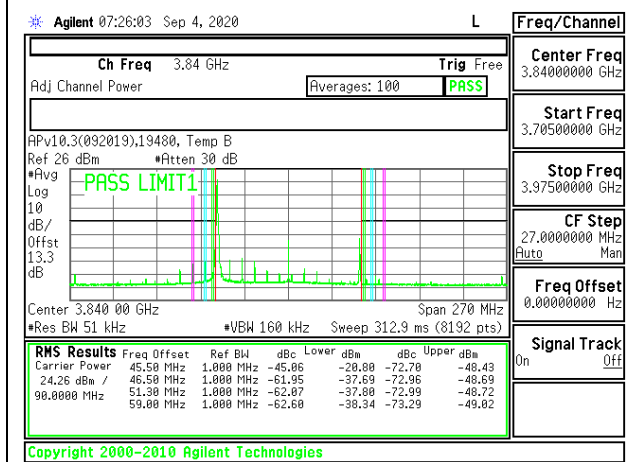
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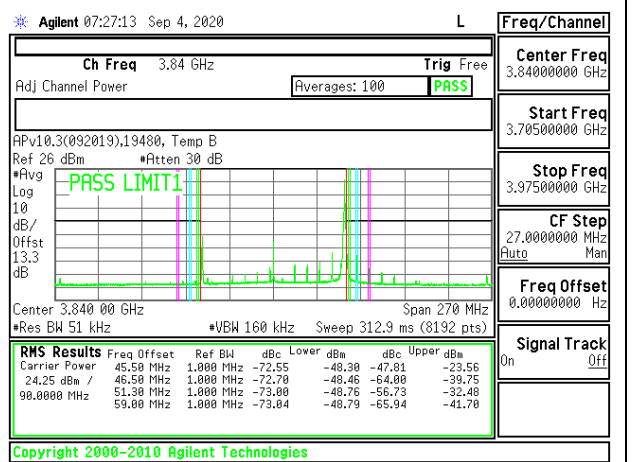
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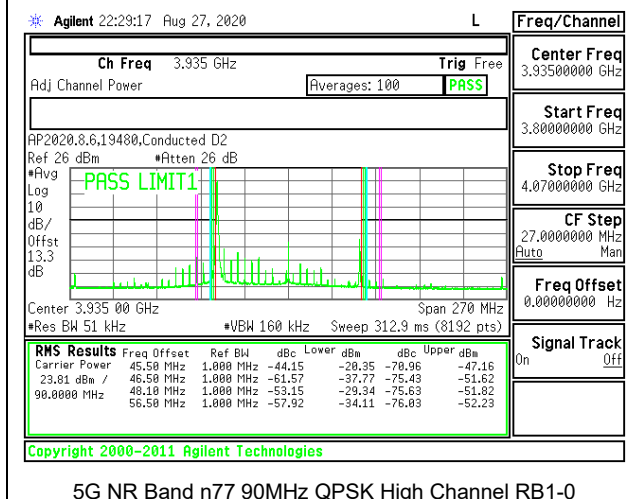
5G NR Band n77 90MHz QPSK Low Channel RB1-244



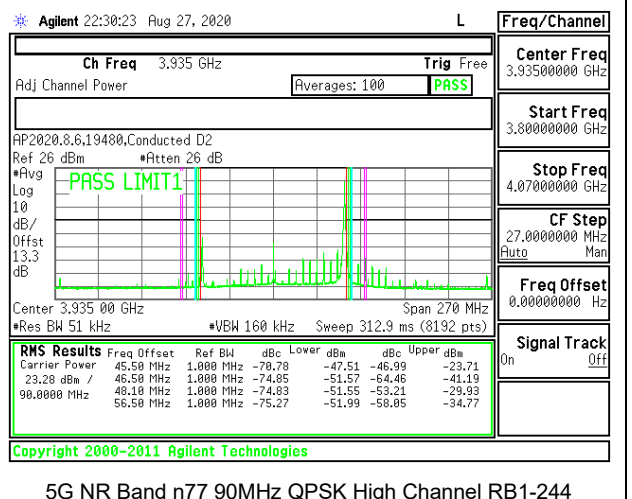
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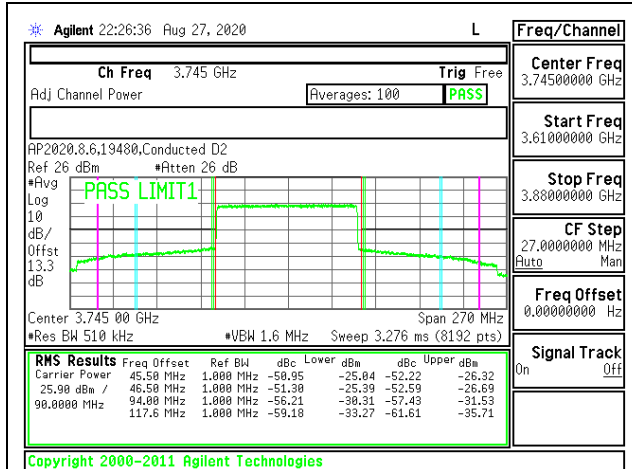
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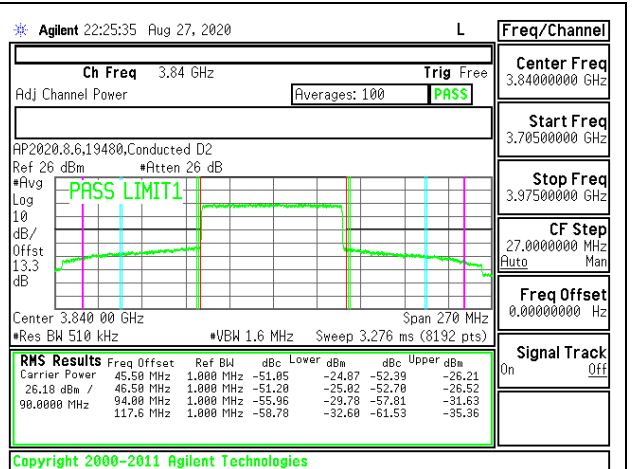
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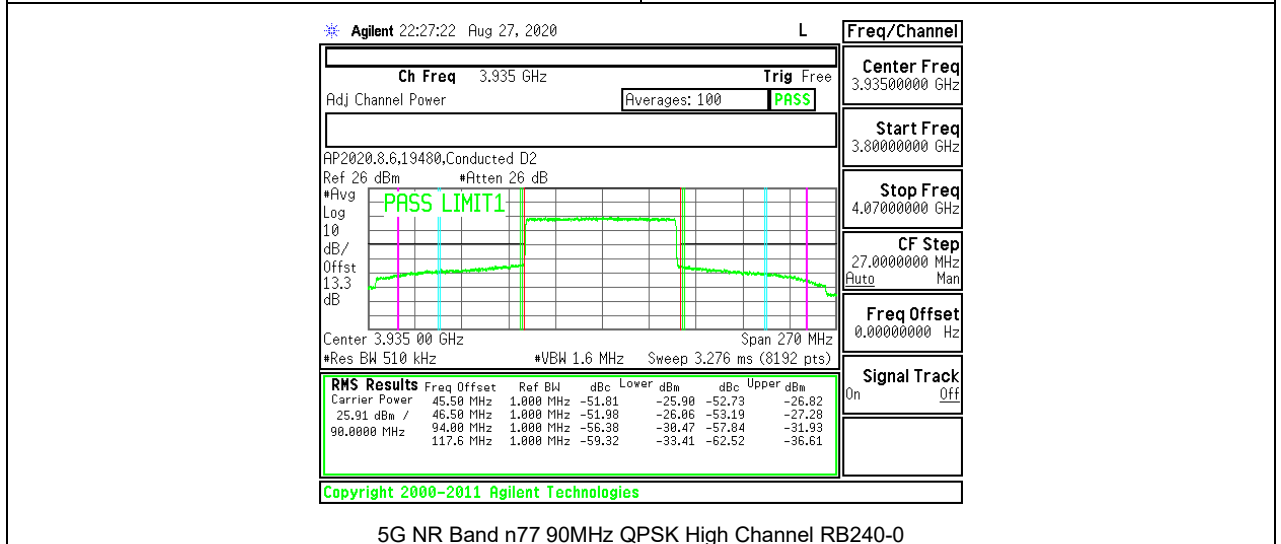
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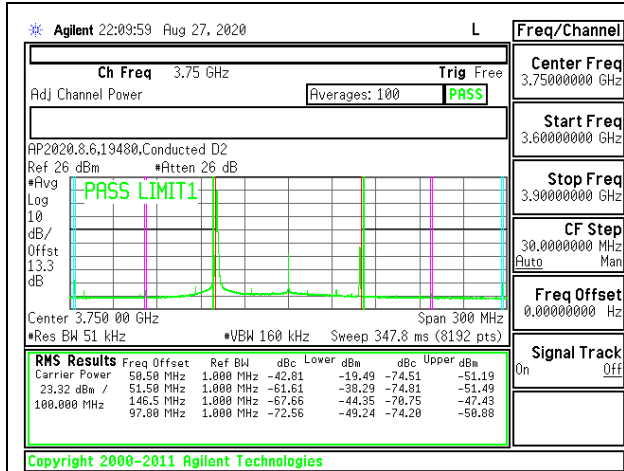
5G NR Band n77 90MHz QPSK Low Channel RB240-0



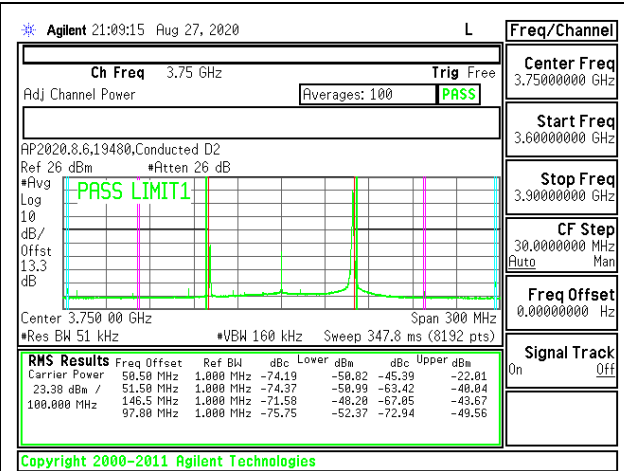
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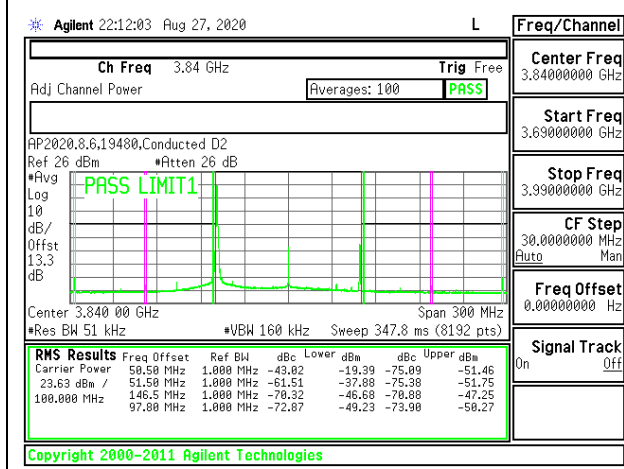
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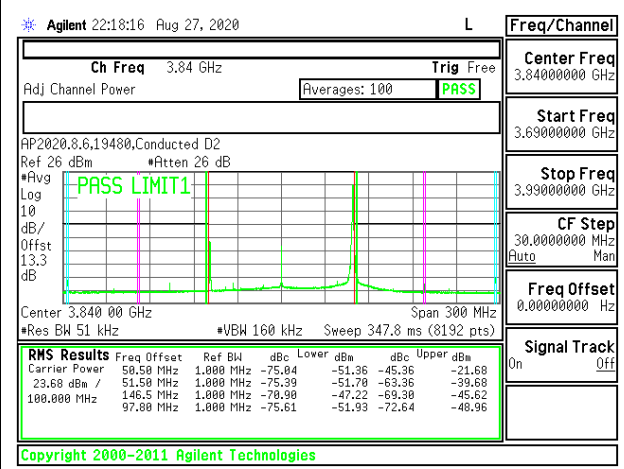
5G NR Band n77 100MHz QPSK Low Channel RB1-0



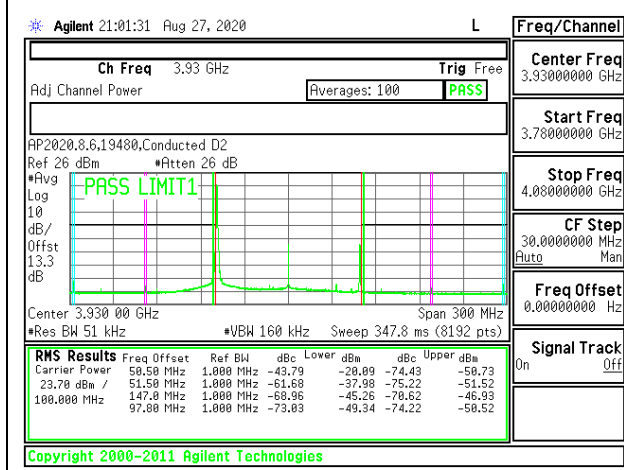
5G NR Band n77 100MHz QPSK Low Channel RB1-272



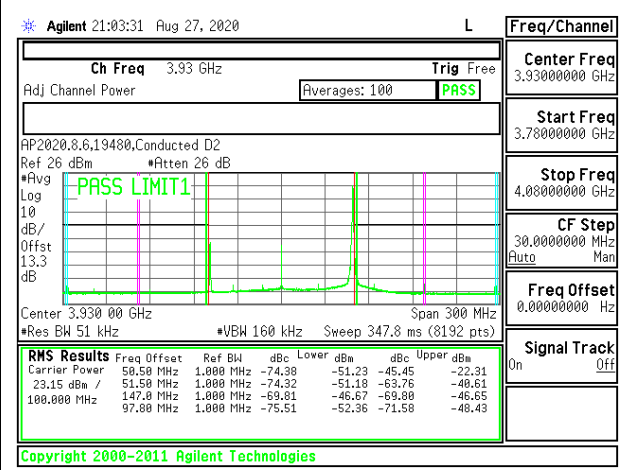
5G NR Band n77 100MHz QPSK Middle Channel RB1-0



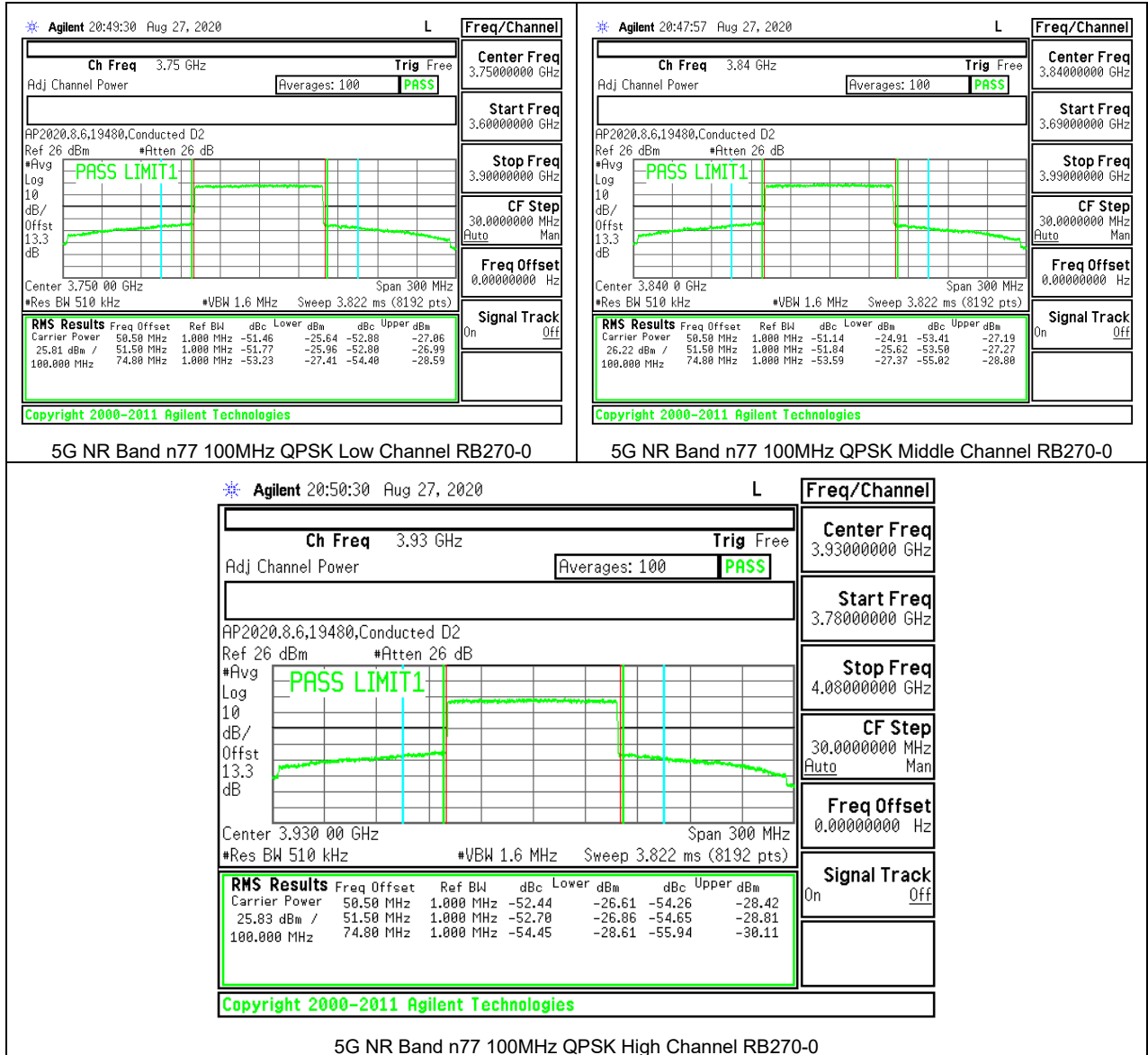
5G NR Band n77 100MHz QPSK Middle Channel RB1-272



5G NR Band n77 100MHz QPSK High Channel RB1-0



5G NR Band n77 100MHz QPSK High Channel RB1-272



8.3. OUT OF BAND EMISSIONS

TEST PROCEDURE

The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-band Emissions, if any, up to 10th harmonic. Multiple sweeps were recorded in maximum hold mode using a peak detector to ensure that the worst-case emissions were caught.

For each out of band emissions measurement:

- Set display line at -13 dBm, -25dBm and -40dBm according to the band Limit
- Set RBW & VBW to 100 kHz for the measurement below 1 GHz, and 1 MHz for the measurement above 1 GHz.
(NOTE: Worst case set RBW/VBW to 1MHz/3MHz)

RESULTS

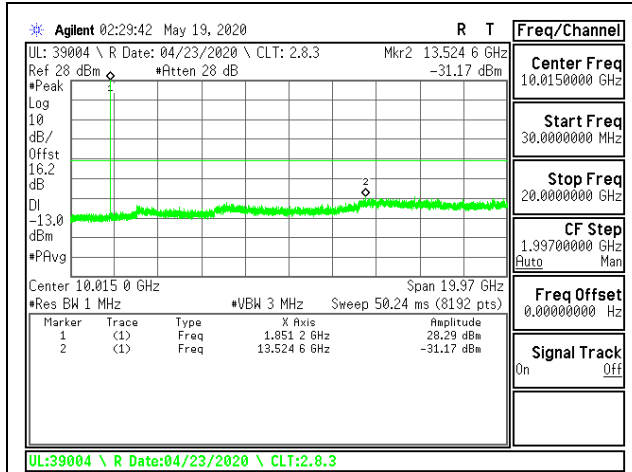
Both QPSK and 16QAM modes are tested, QPSK bandwidths results are reported as worst case.

8.3.1. LTE BAND 2

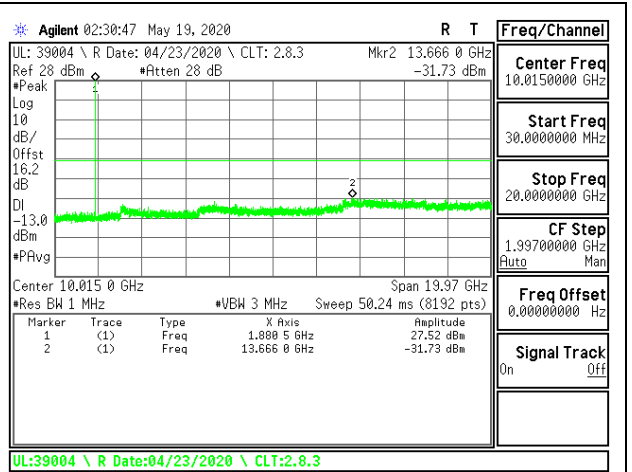
LIMITS

FCC: §24.238

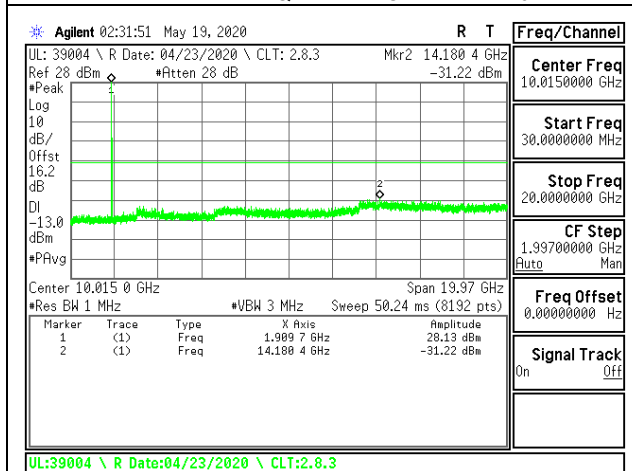
The minimum permissible attenuation level of any spurious emissions is $43 + 10 \log (P)$ dB where transmitting power (P) in Watts.



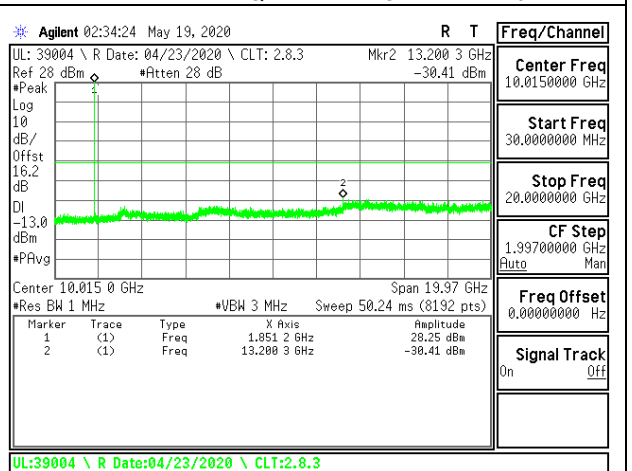
LTE B2 1.4MHz QPSK Low Channel RB1-0



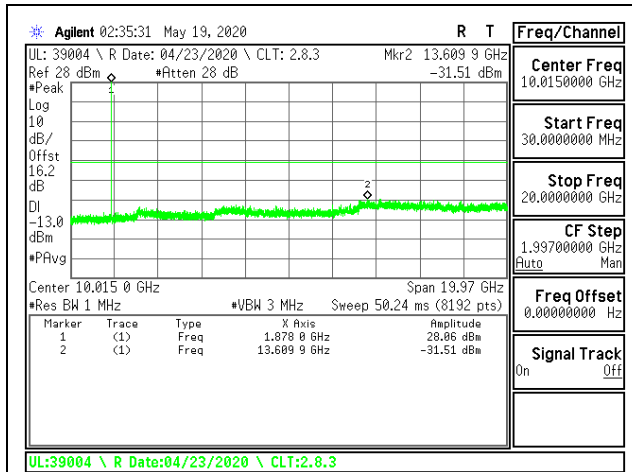
LTE B2 1.4MHz QPSK Middle Channel RB1-0



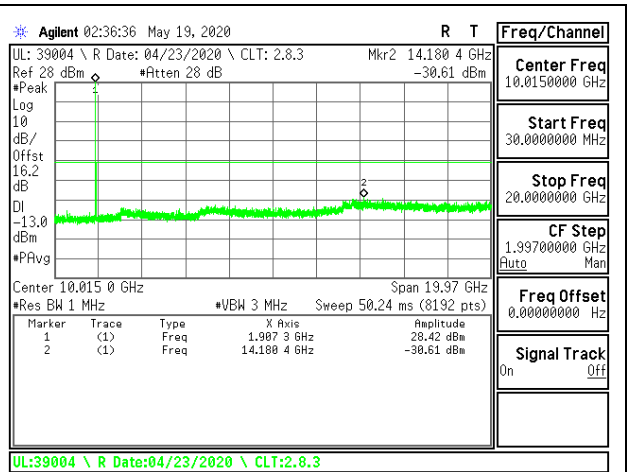
LTE B2 1.4MHz QPSK High Channel RB1-0



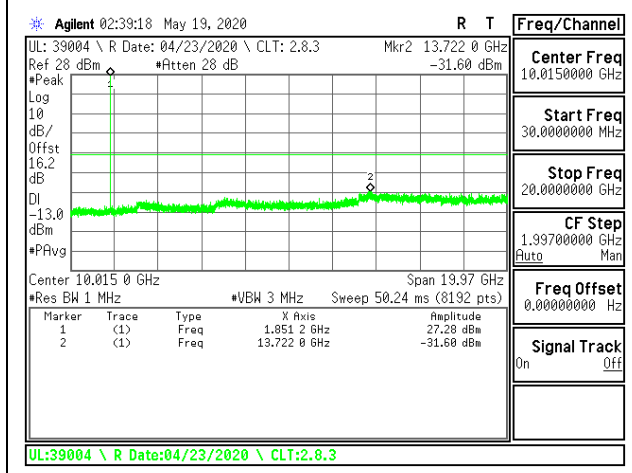
LTE B2 3MHz QPSK Low Channel RB1-0



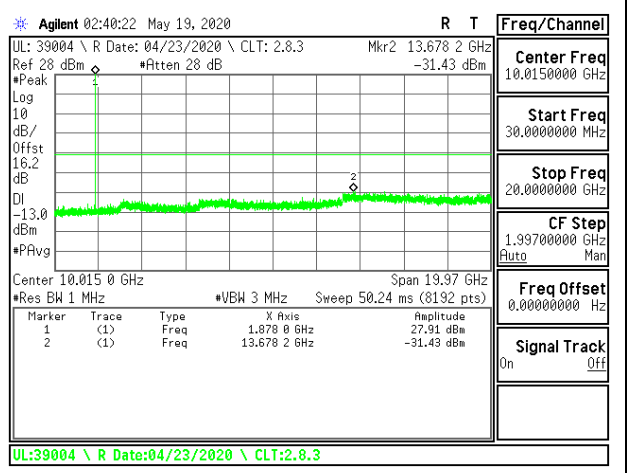
LTE B2 3MHz QPSK Middle Channel RB1-0



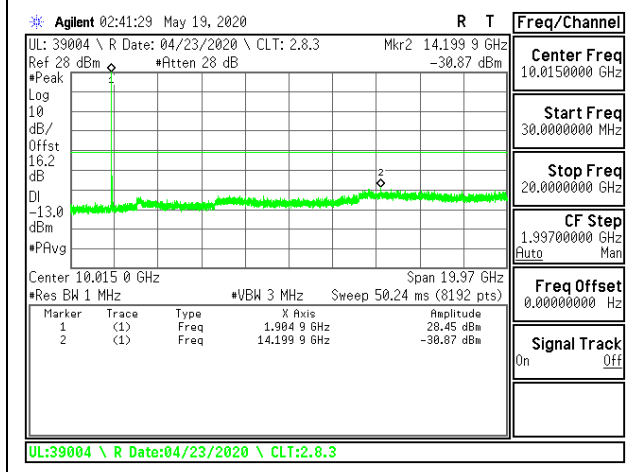
LTE B2 3MHz QPSK High Channel RB1-0



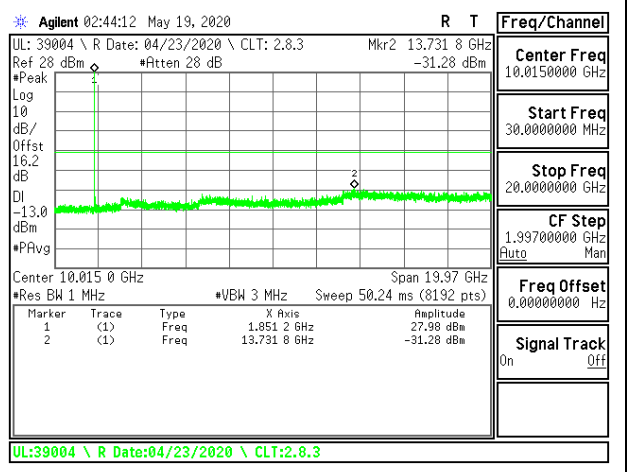
LTE B2 5MHz QPSK Low Channel RB1-0



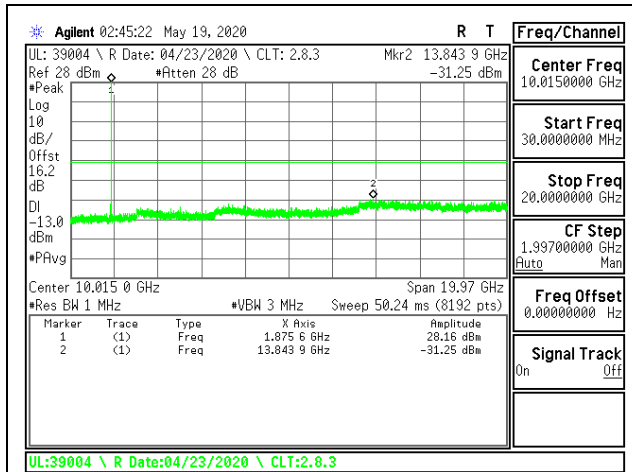
LTE B2 5MHz QPSK Middle Channel RB1-0



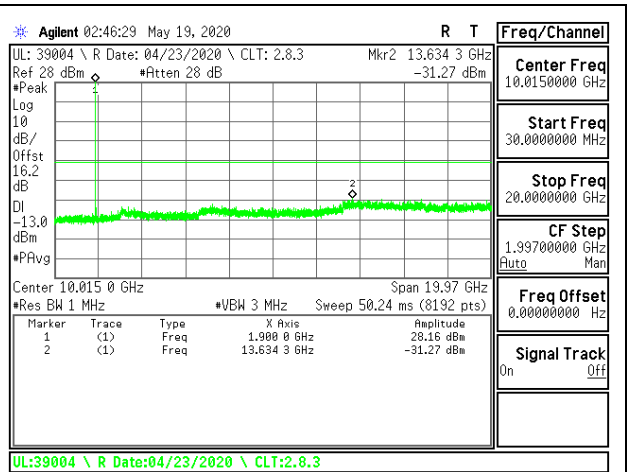
LTE B2 5MHz QPSK High Channel RB1-0



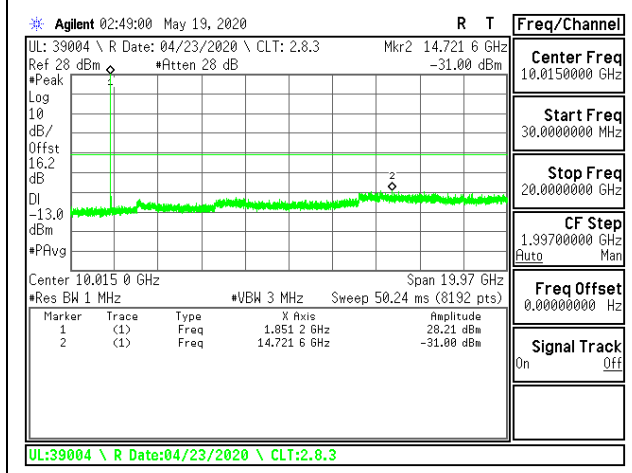
LTE B2 10MHz QPSK Low Channel RB1-0



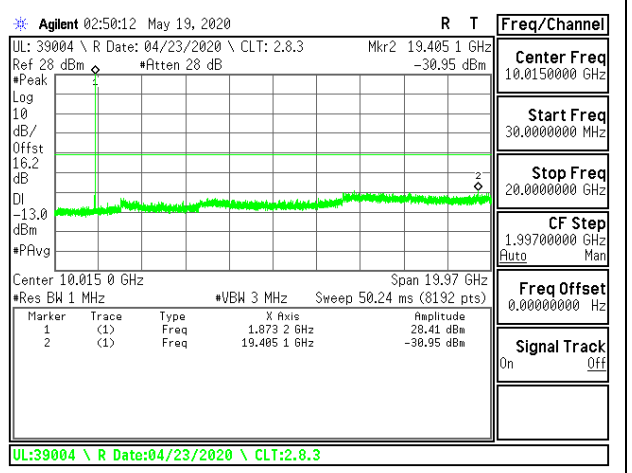
LTE B2 10MHz QPSK Middle Channel RB1-0



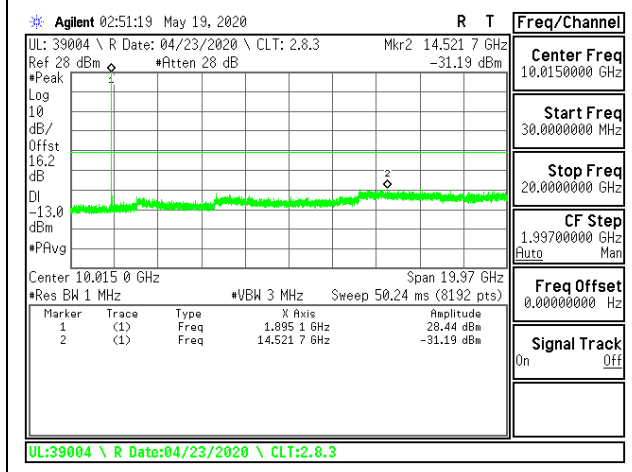
LTE B2 10MHz QPSK High Channel RB1-0



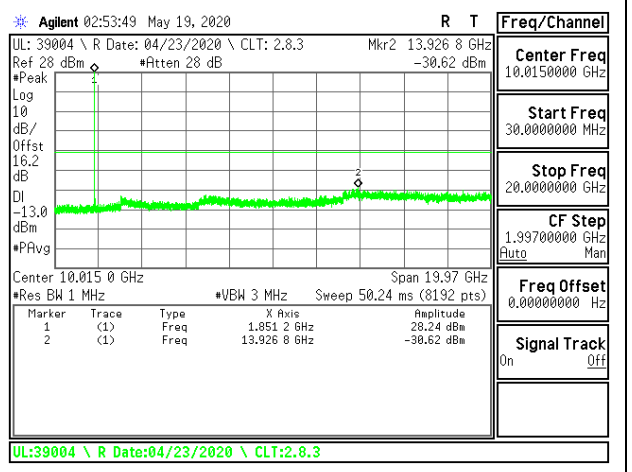
LTE B2 15MHz QPSK Low Channel RB1-0



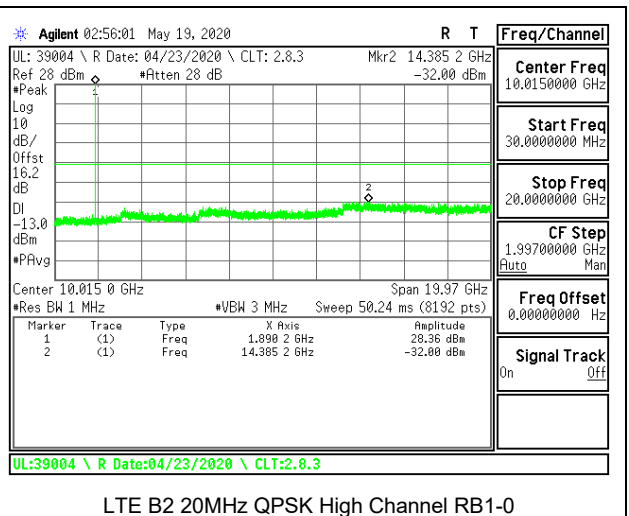
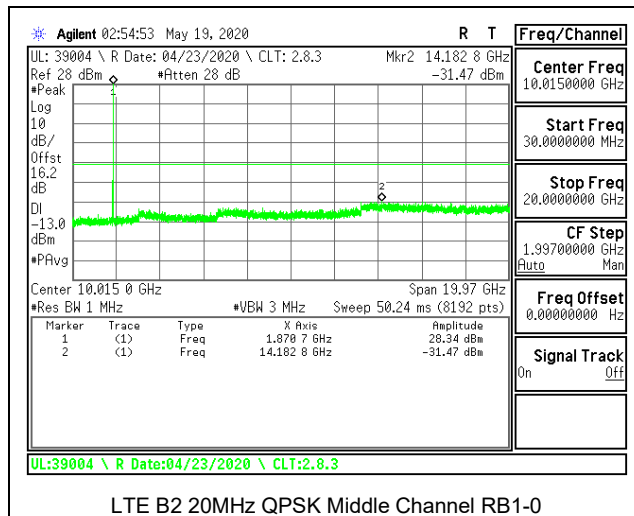
LTE B2 15MHz QPSK Middle Channel RB1-0



LTE B2 15MHz QPSK High Channel RB1-0



LTE B2 20MHz QPSK Low Channel RB1-0



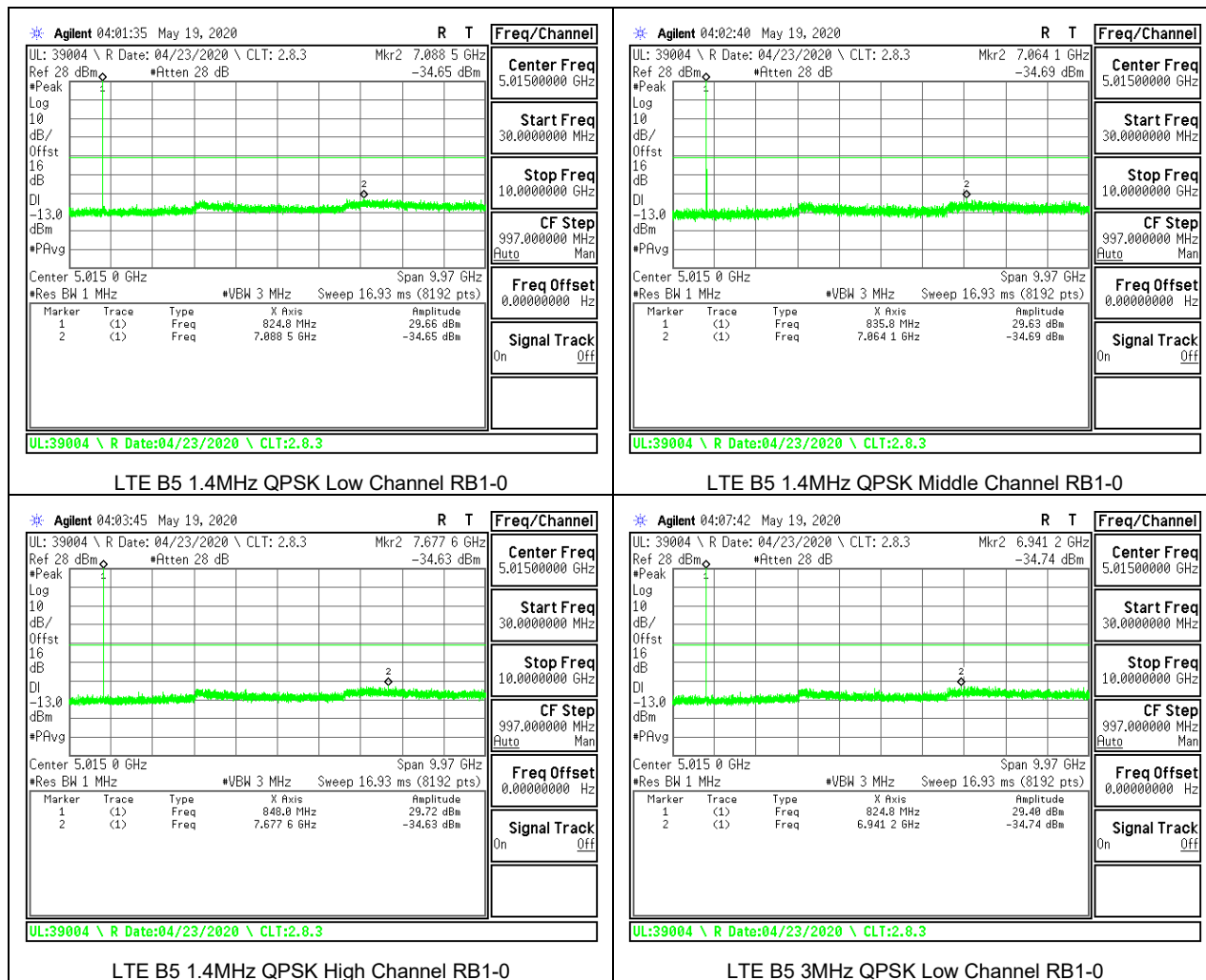
8.3.2. LTE BAND 5 AND 5G NR BAND n5

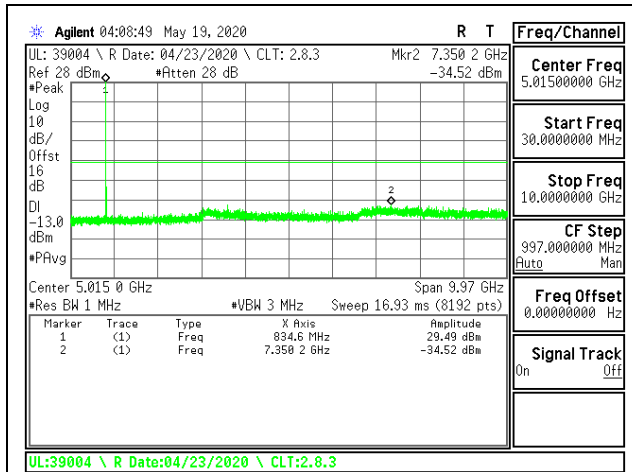
LIMITS

FCC: §22.917

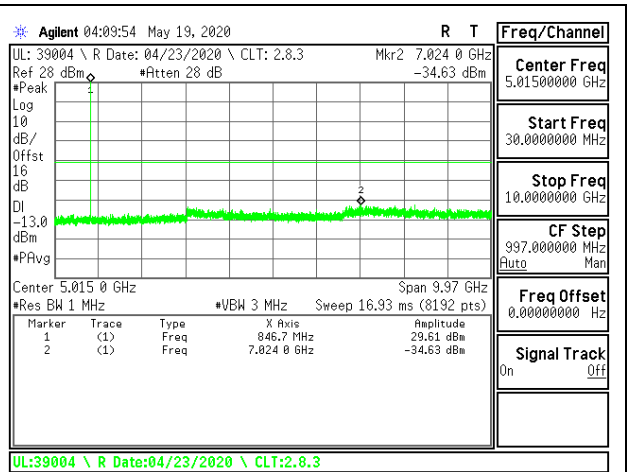
The minimum permissible attenuation level of any spurious emissions is $43 + 10 \log(P)$ dB where transmitting power (P) in Watts.

LTE BAND 5

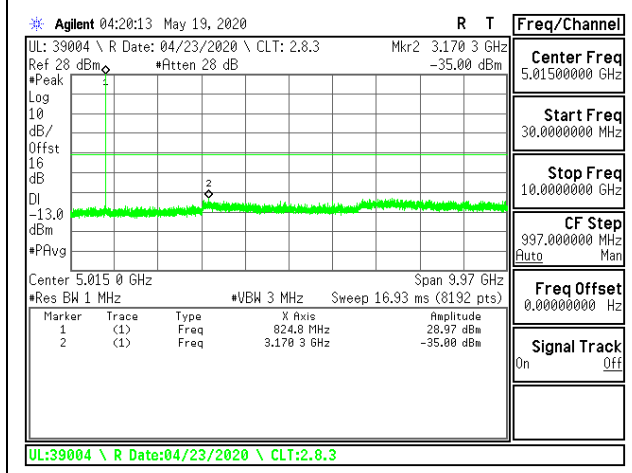




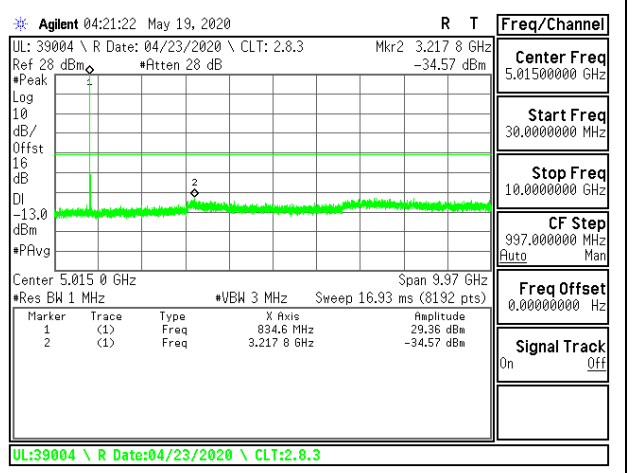
LTE B5 3MHz QPSK Middle Channel RB1-0



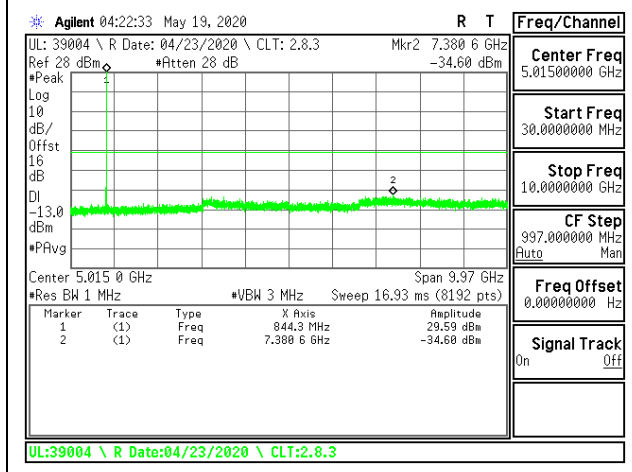
LTE B5 3MHz QPSK High Channel RB1-0



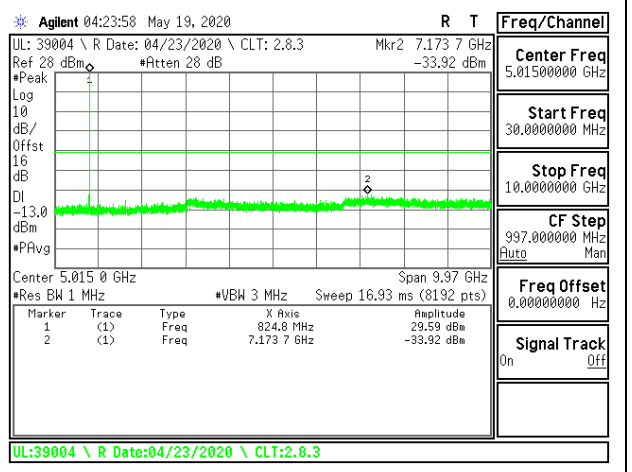
LTE B5 5MHz QPSK Low Channel RB1-0



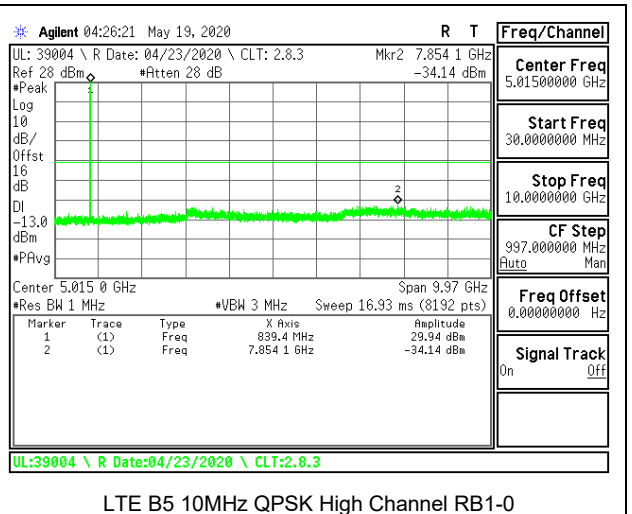
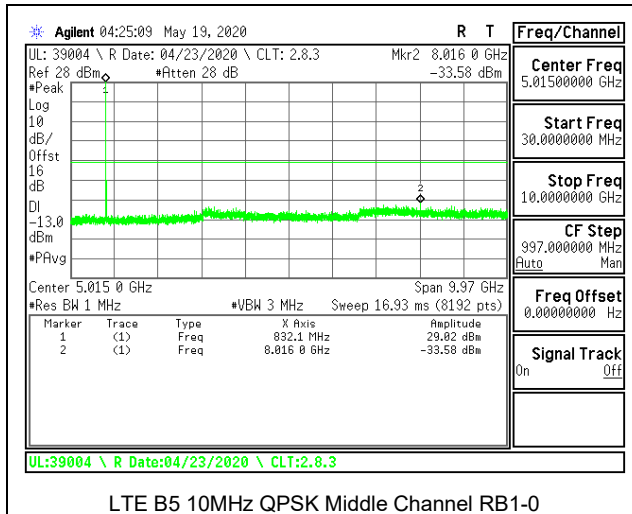
LTE B5 5MHz QPSK Middle Channel RB1-0



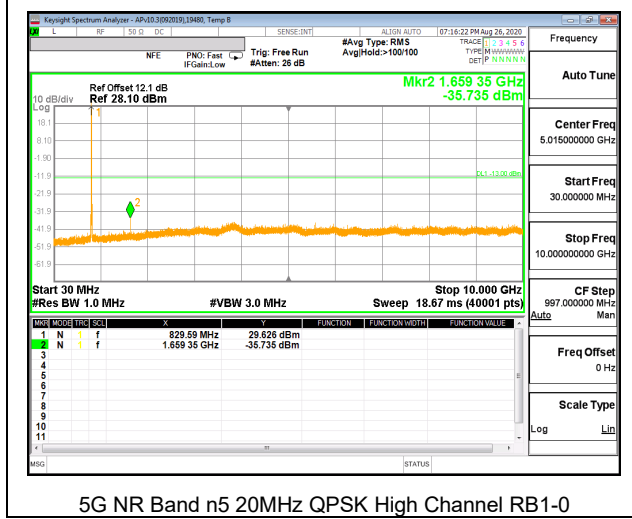
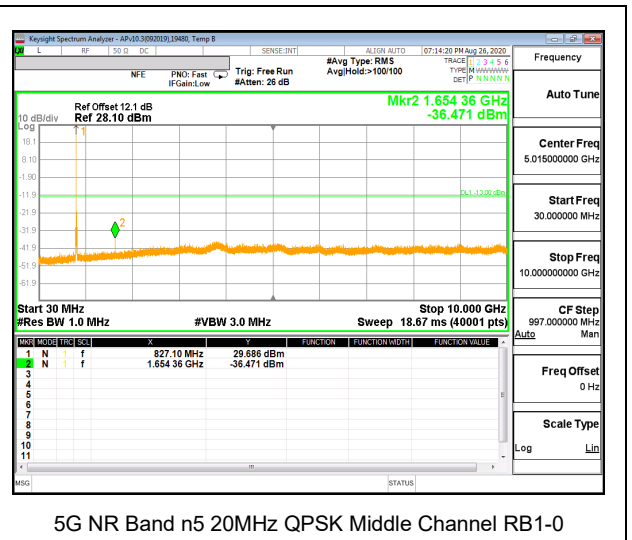
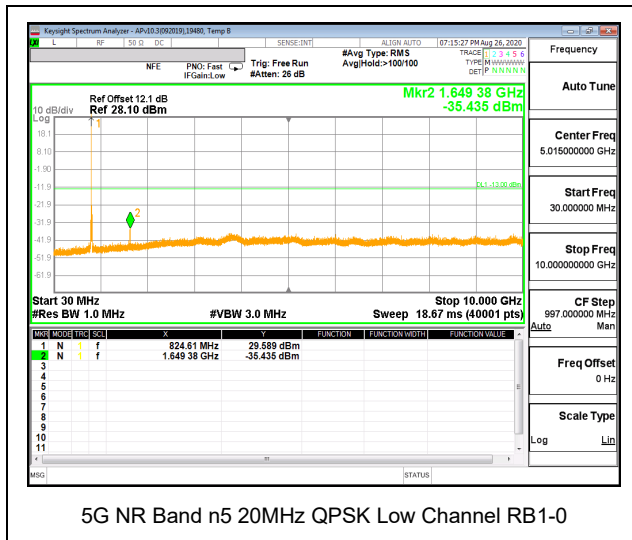
LTE B5 5MHz QPSK High Channel RB1-0



LTE B5 10MHz QPSK Low Channel RB1-0



5G NR BAND n5

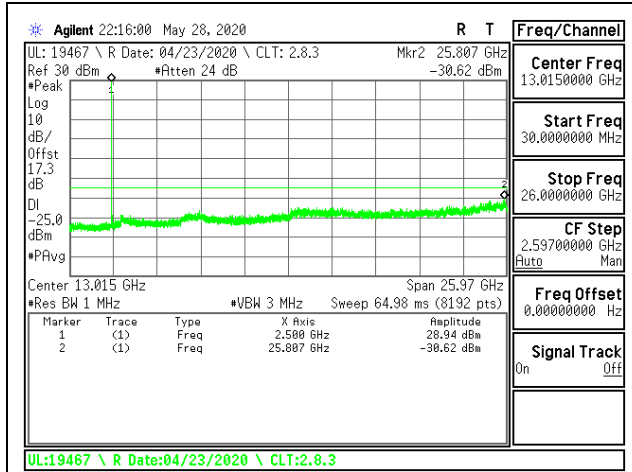


8.3.3. LTE BAND 7

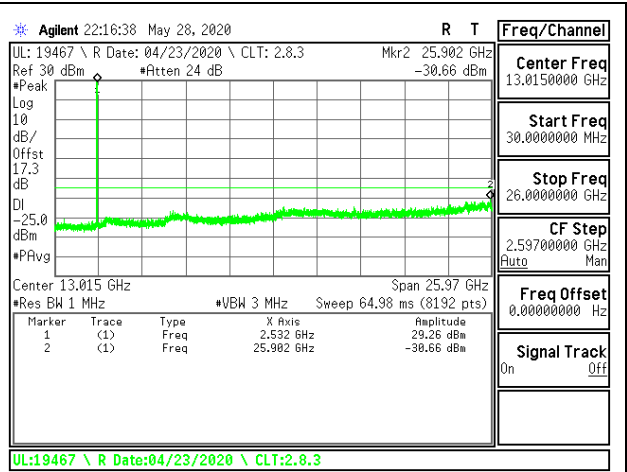
LIMITS

FCC: §27.53 (m)

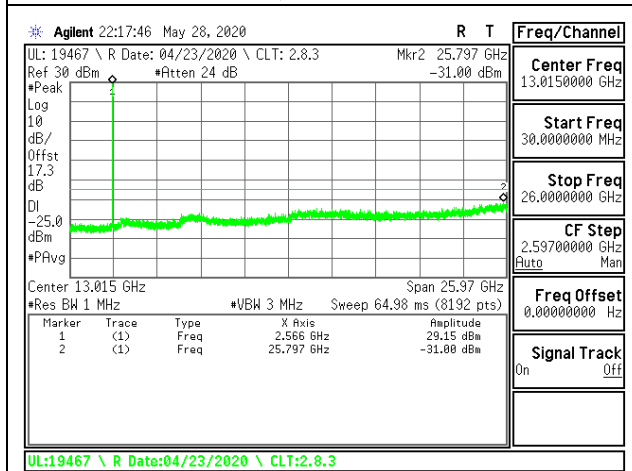
The minimum permissible attenuation level of any spurious emissions is $55 + 10 \log (P)$ dB where transmitting power (P) in Watts.



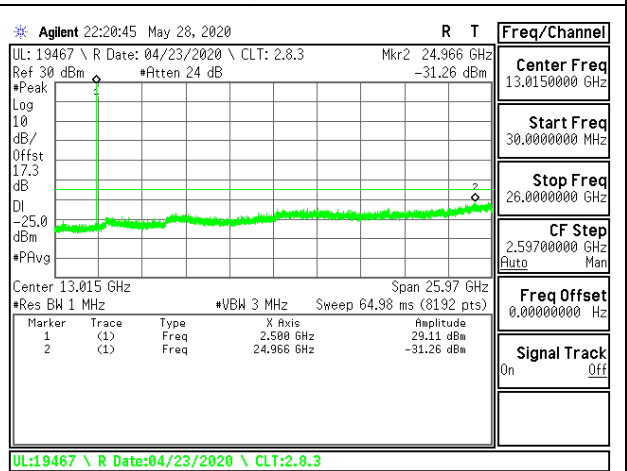
LTE B7 5MHz QPSK Low Channel RB1-0



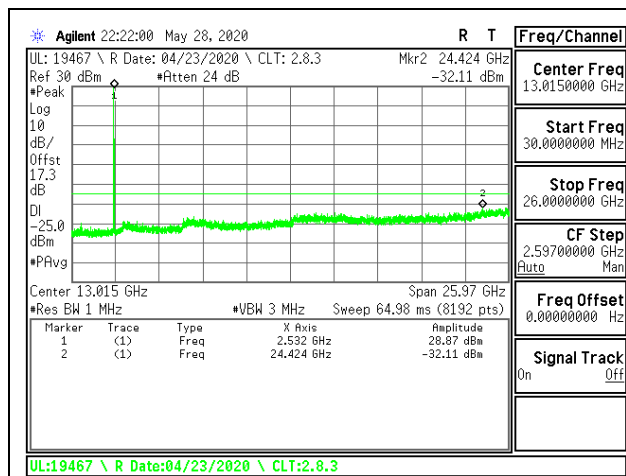
LTE B7 5MHz QPSK Middle Channel RB1-0



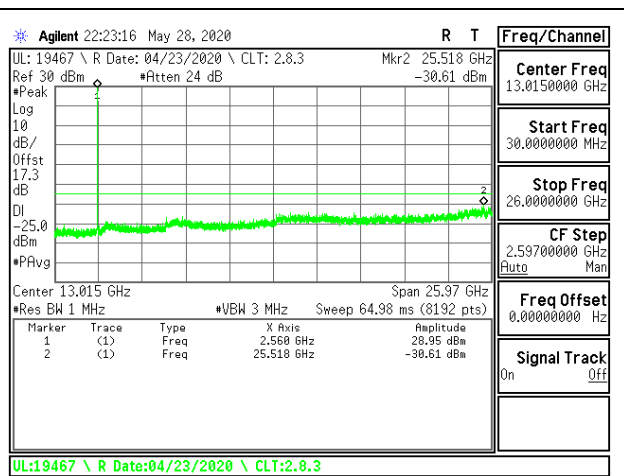
LTE B7 5MHz QPSK High Channel RB1-0



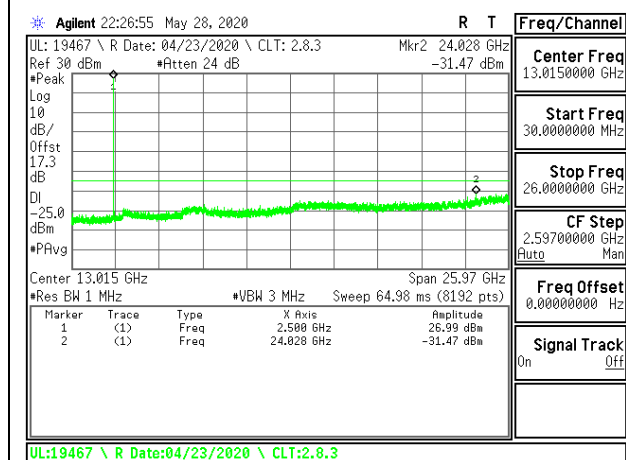
LTE B7 10MHz QPSK Low Channel RB1-0



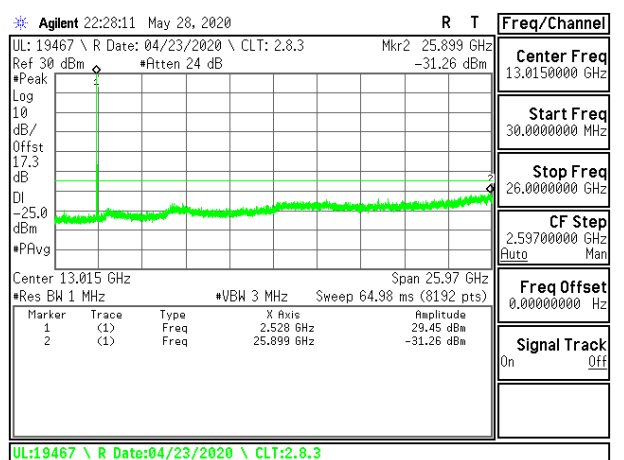
LTE B7 10MHz QPSK Middle Channel RB1-0



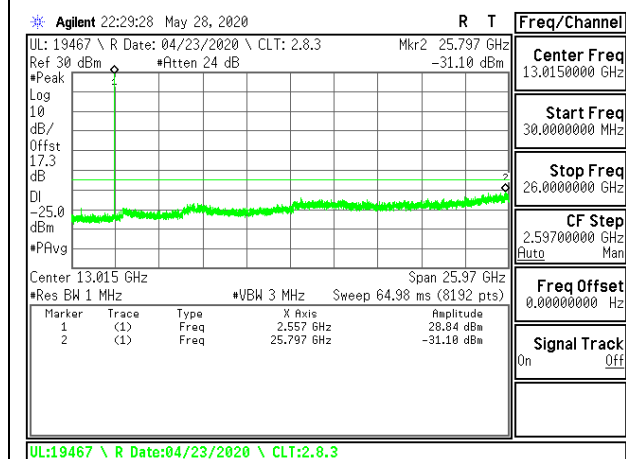
LTE B7 10MHz QPSK High Channel RB1-0



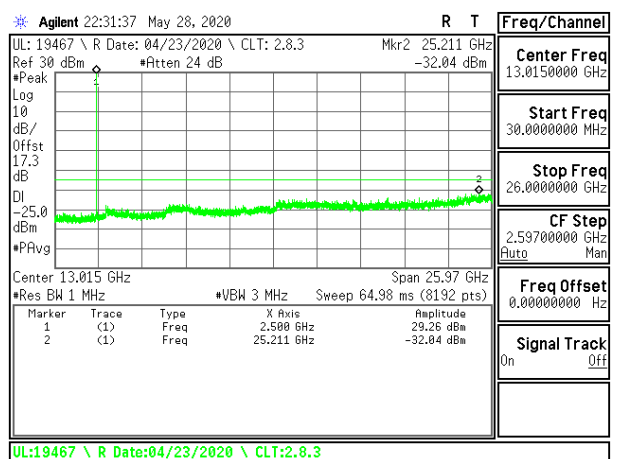
LTE B7 15MHz QPSK Low Channel RB1-0



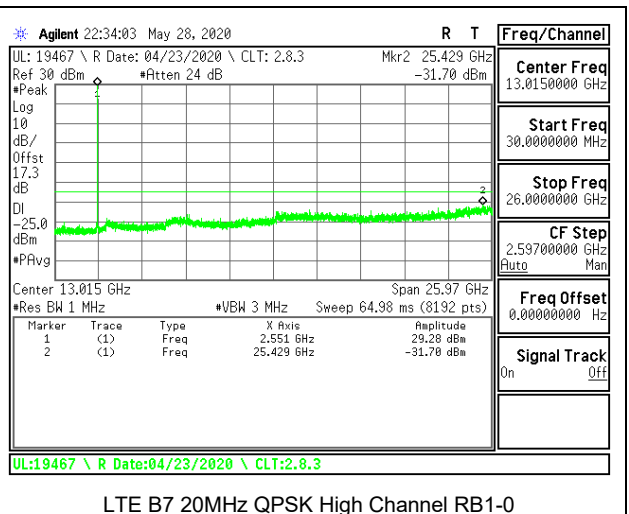
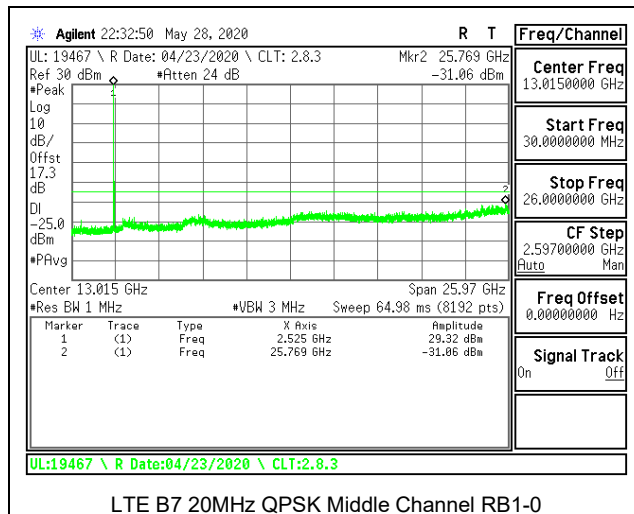
LTE B7 15MHz QPSK Middle Channel RB1-0



LTE B7 15MHz QPSK High Channel RB1-0



LTE B7 20MHz QPSK Low Channel RB1-0



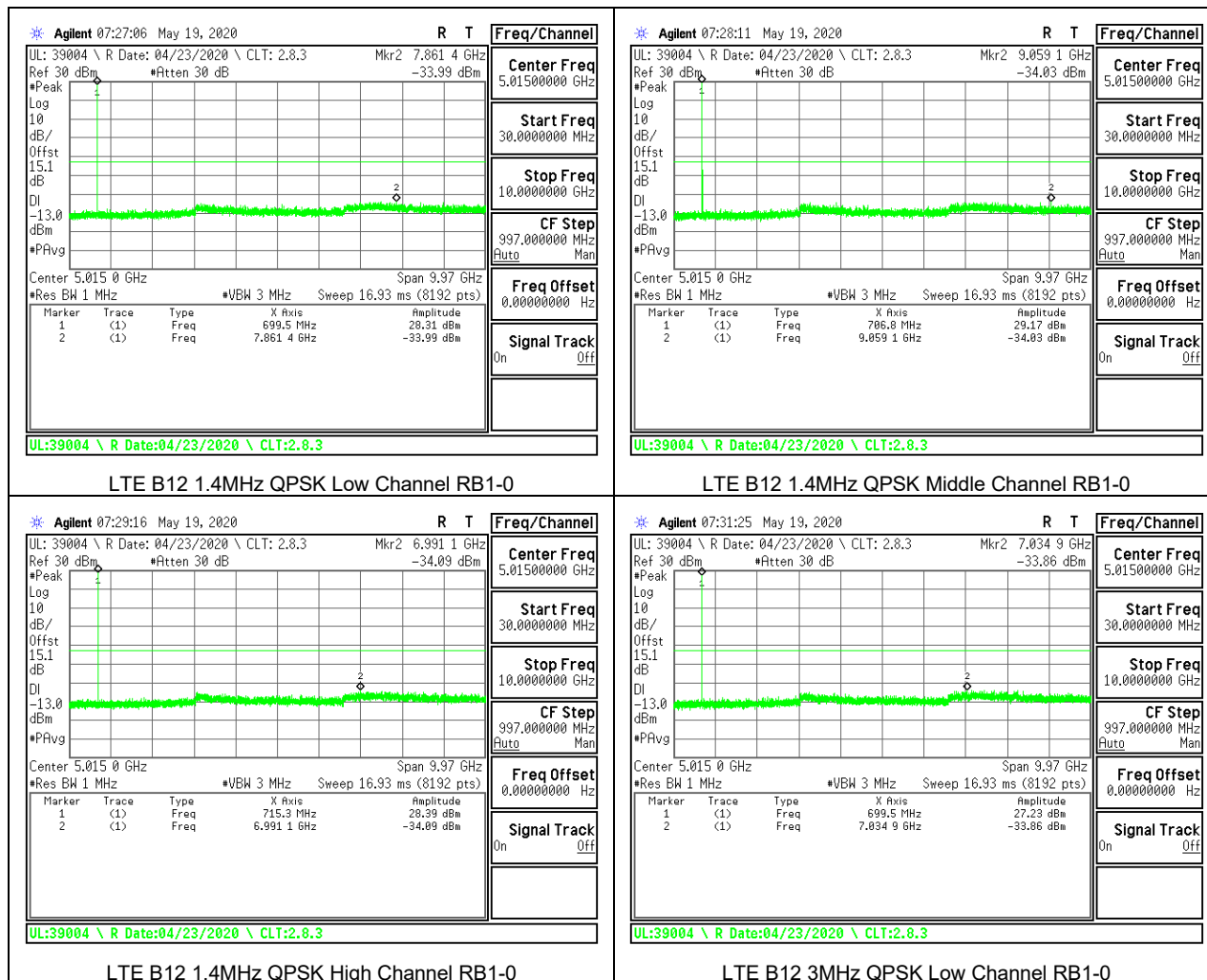
8.3.4. LTE BAND 12 AND 5G NR BAND n12

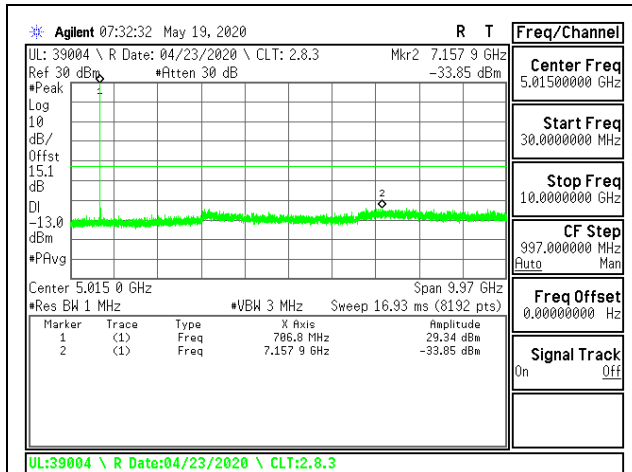
LIMITS

FCC: §27.53 (g)

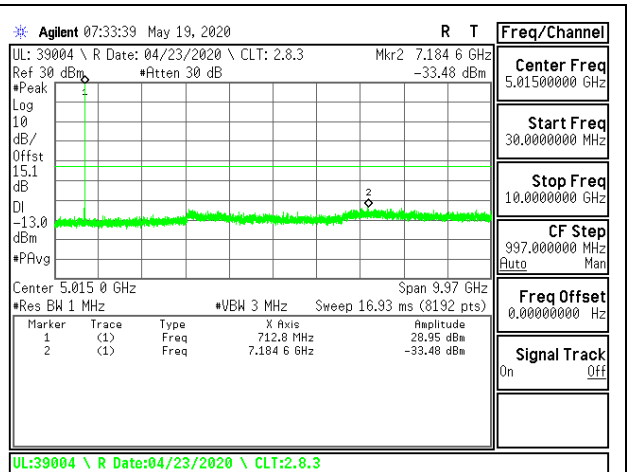
The minimum permissible attenuation level of any spurious emissions is $43 + 10 \log (P)$ dB where transmitting power (P) in Watts.

LTE BAND 12

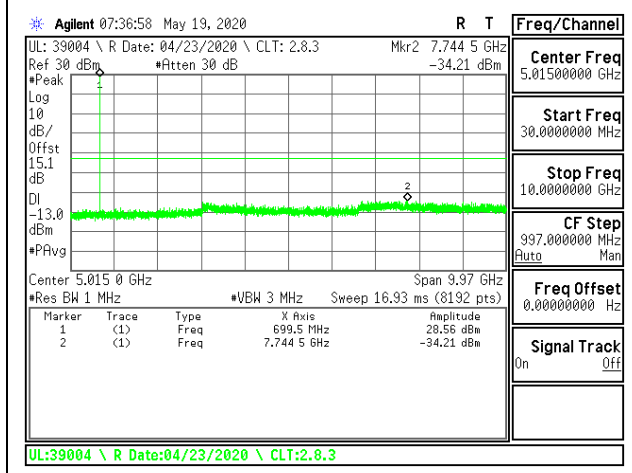




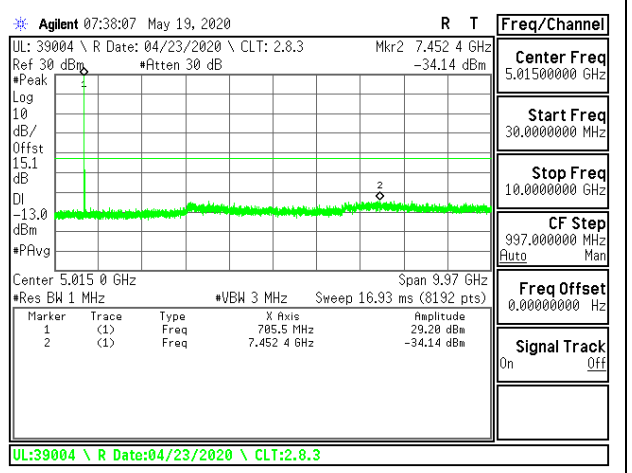
LTE B12 3MHz QPSK Middle Channel RB1-0



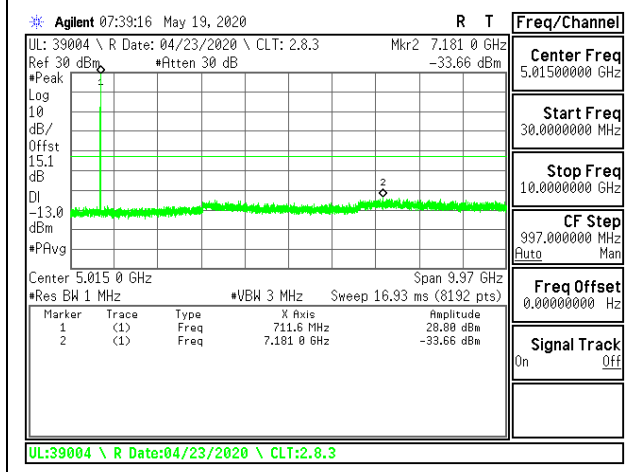
LTE B12 3MHz QPSK High Channel RB1-0



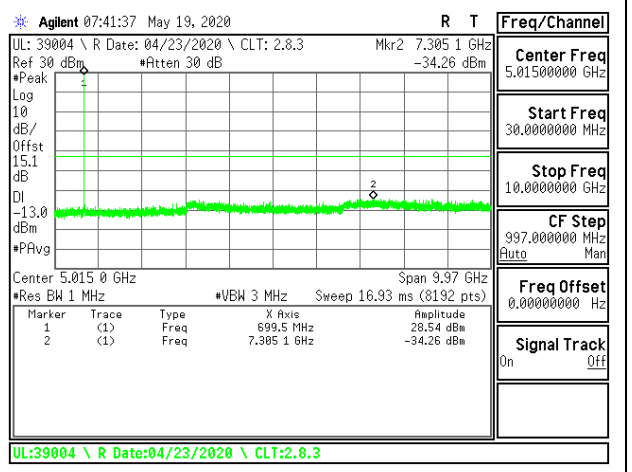
LTE B12 5MHz QPSK Low Channel RB1-0



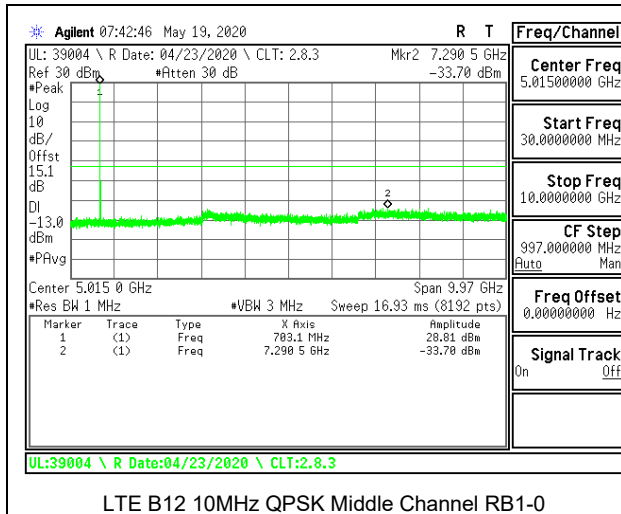
LTE B12 5MHz QPSK Middle Channel RB1-0



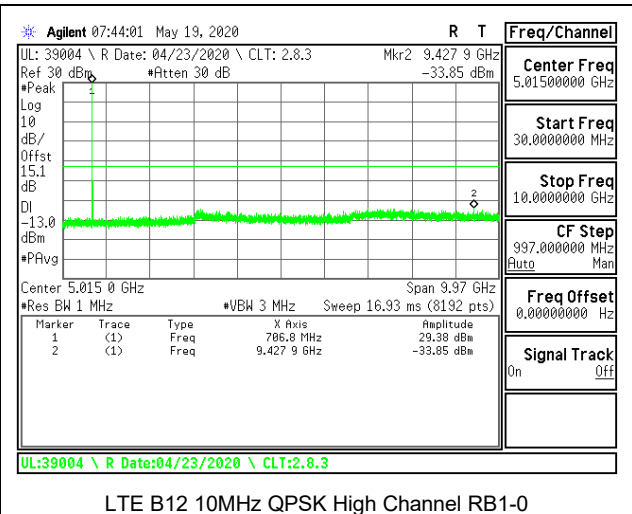
LTE B12 5MHz QPSK High Channel RB1-0



LTE B12 10MHz QPSK Low Channel RB1-0

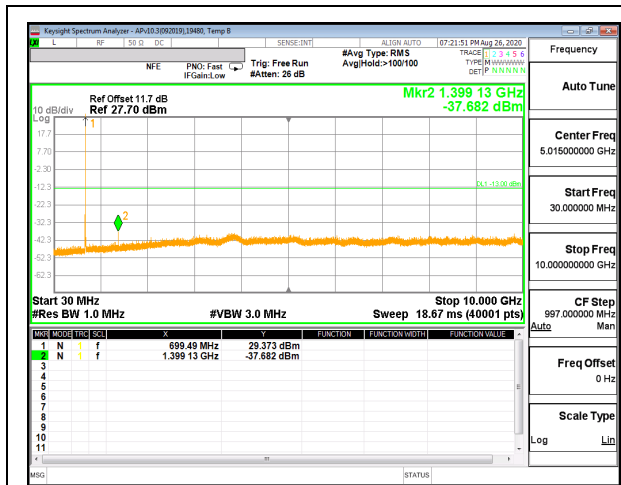


LTE B12 10MHz QPSK Middle Channel RB1-0

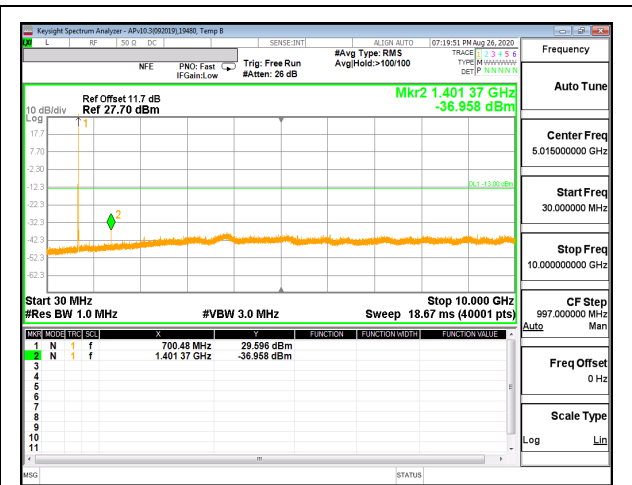


LTE B12 10MHz QPSK High Channel RB1-0

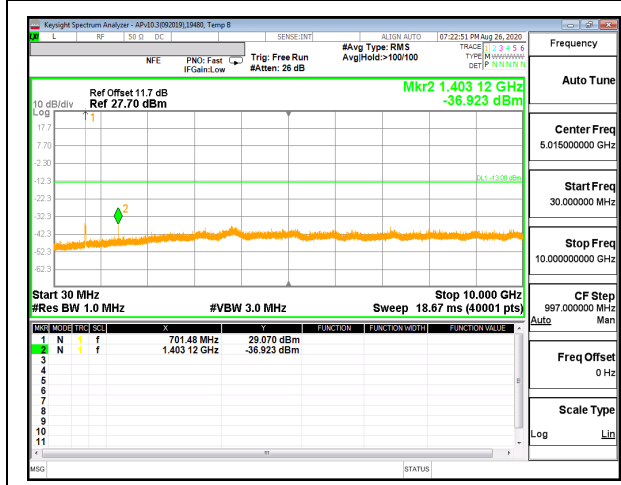
5G NR BAND n12



5G NR Band n12 15MHz QPSK Low Channel RB1-0



5G NR Band n12 15MHz QPSK Middle Channel RB1-0



5G NR Band n12 15MHz QPSK High Channel RB1-0

8.3.5. LTE BAND 13

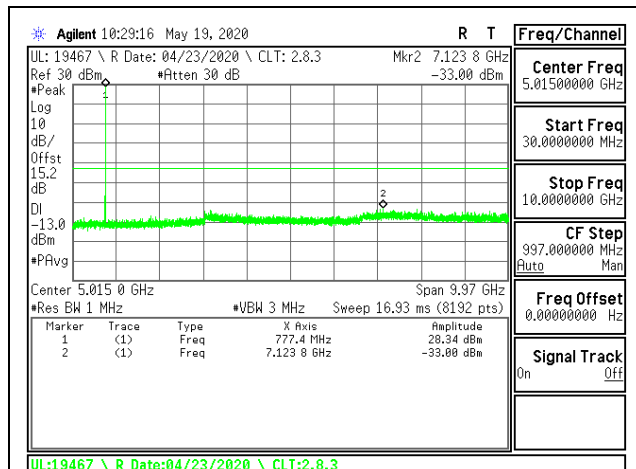
LIMITS

FCC: §27.53 (c), (f)

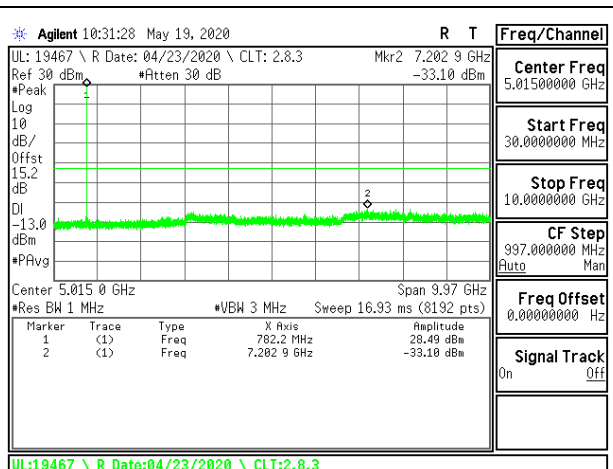
The minimum permissible attenuation level of any spurious emissions is $43 + 10 \log (P)$ dB where transmitting power (P) in Watts. The band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

Note: Radiated data in section 9.1.6 confirms a compliance for the emissions in GPS 1559-1610 MHz band were wideband emissions therefore the -40 dBm/MHz limit was used.

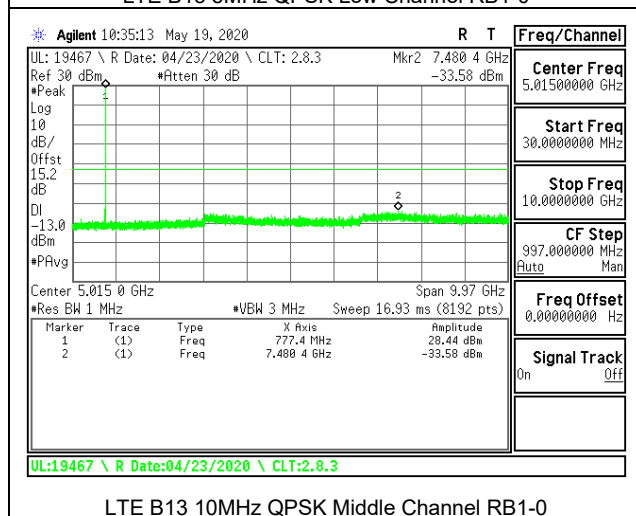
Note: Radiated data in section 9.1.6 confirms a compliance for the emissions in GPS 1559-1610 MHz band were wideband emissions therefore the -40 dBm/MHz limit was used.



LTE B13 5MHz QPSK Low Channel RB1-0



LTE B13 5MHz QPSK High Channel RB1-0



LTE B13 10MHz QPSK Middle Channel RB1-0

Note: Radiated data in section 9.1.6 confirms a compliance with narrowband limits for GPS1559-1610 MHz band.

8.3.6. LTE BAND 14

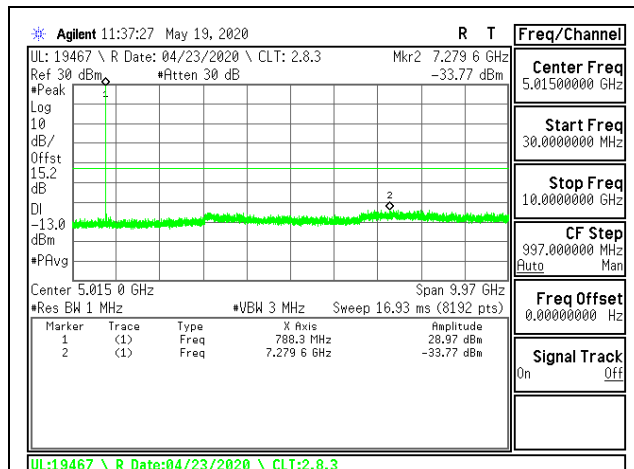
LIMITS

FCC: §90.543 (e), (f)

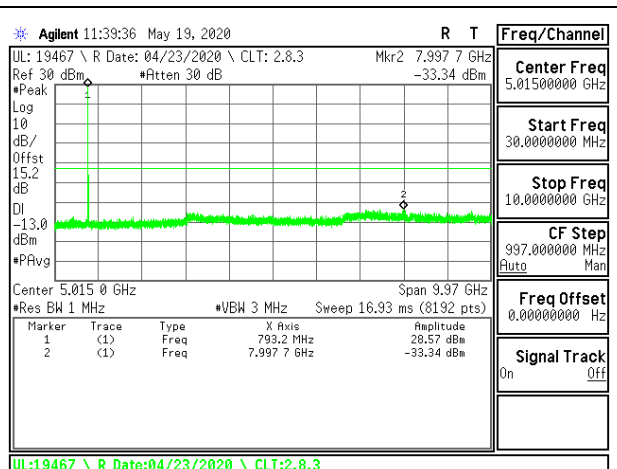
The minimum permissible attenuation level of any spurious emissions is $43 + 10 \log (P)$ dB where transmitting power (P) in Watts. The band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

Note: Radiated data in section 9.1.7 confirms a compliance for the emissions in GPS 1559-1610 MHz band were wideband emissions therefore the -40 dBm/MHz limit was used.

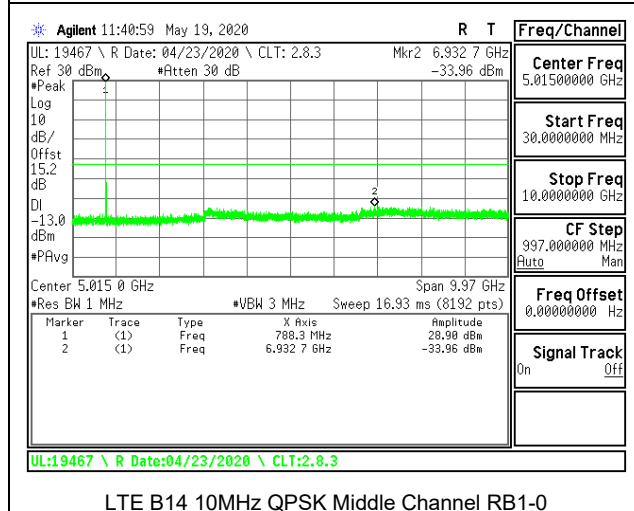
Note: Radiated data in section 9.1.7 confirms a compliance for the emissions in GPS 1559-1610 MHz band were wideband emissions therefore the -40 dBm/MHz limit was used.



LTE B14 5MHz QPSK Low Channel RB1-0



LTE B14 5MHz QPSK High Channel RB1-0



LTE B14 10MHz QPSK Middle Channel RB1-0

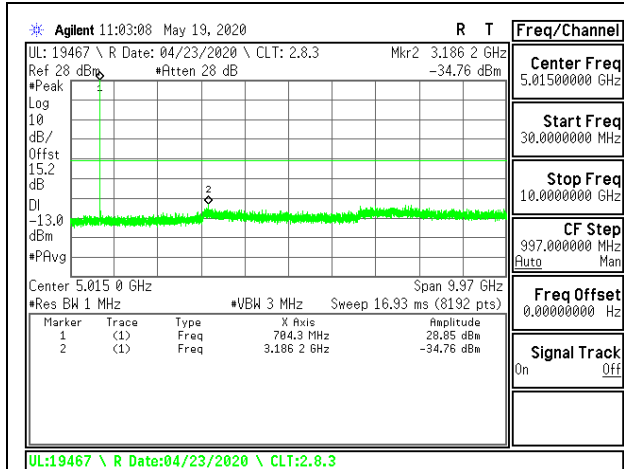
Note: Radiated data in section 9.1.7 confirms a compliance with narrowband limits for GPS1559-1610 MHz band.

8.3.7. LTE BAND 17

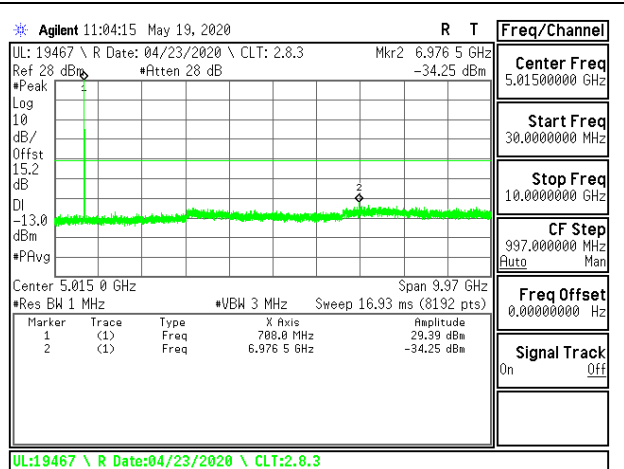
LIMITS

FCC: §27.53 (g)

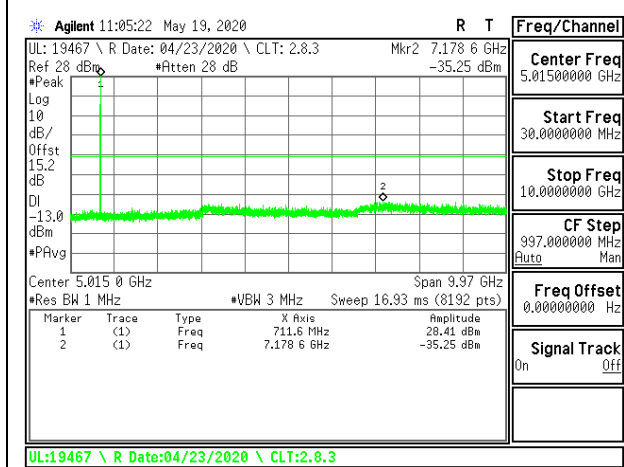
The minimum permissible attenuation level of any spurious emissions is $43 + 10 \log (P)$ dB where transmitting power (P) in Watts.



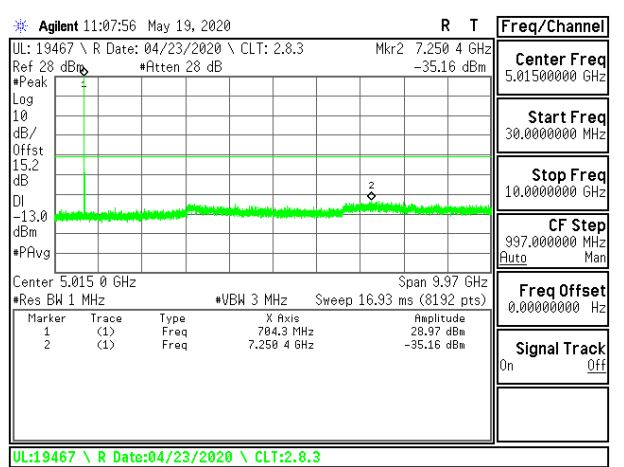
LTE B17 5MHz QPSK Low Channel RB1-0



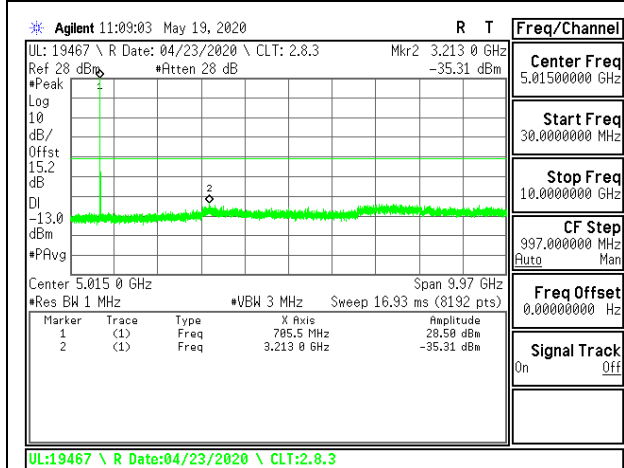
LTE B17 5MHz QPSK Middle Channel RB1-0



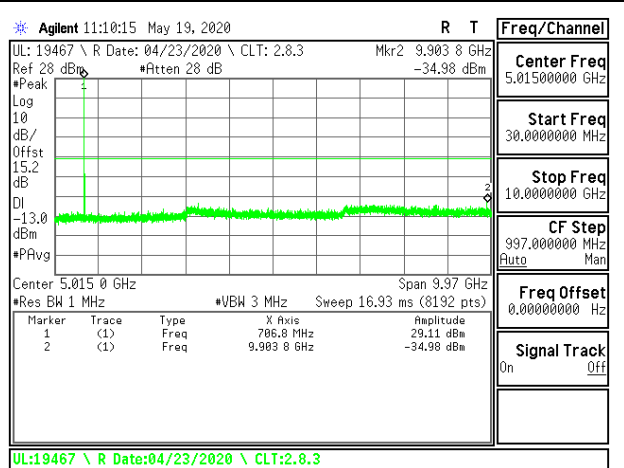
LTE B17 5MHz QPSK High Channel RB1-0



LTE B17 10MHz QPSK Low Channel RB1-0



LTE B17 10MHz QPSK Middle Channel RB1-0



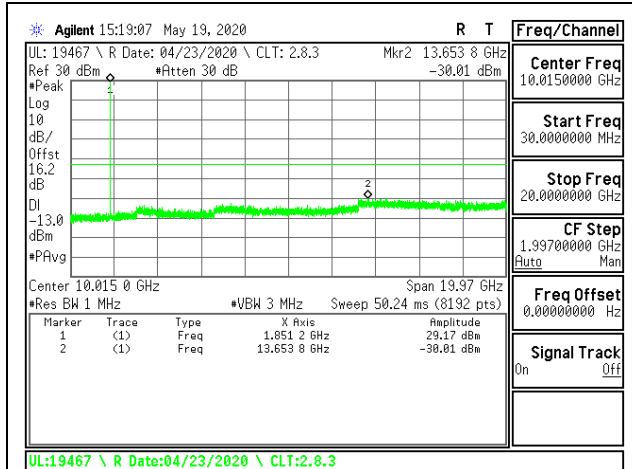
LTE B17 10MHz QPSK High Channel RB1-0

8.3.8. LTE BAND 25

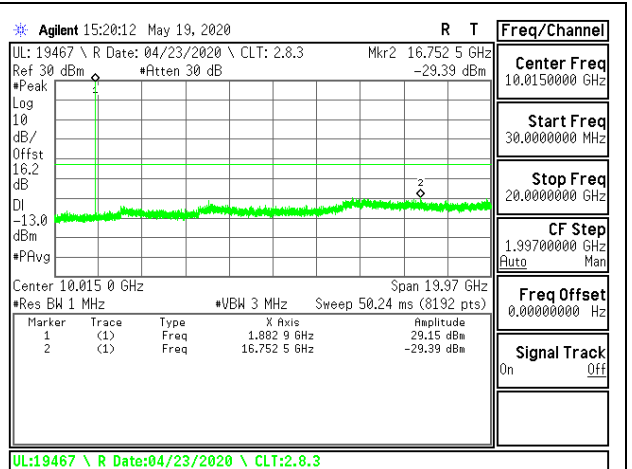
LIMITS

FCC: §24.238

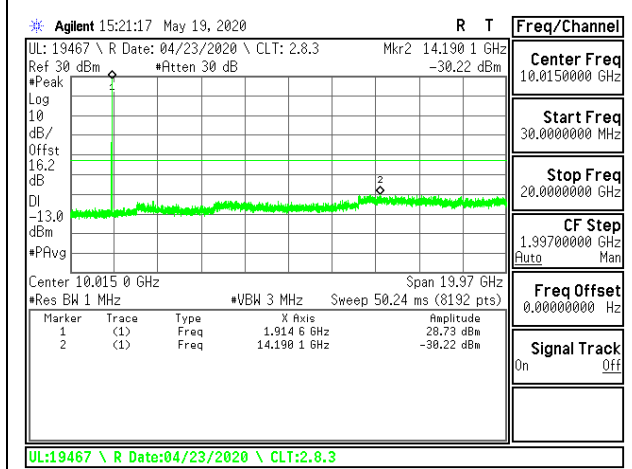
The minimum permissible attenuation level of any spurious emissions is $43 + 10 \log (P)$ dB where transmitting power (P) in Watts.



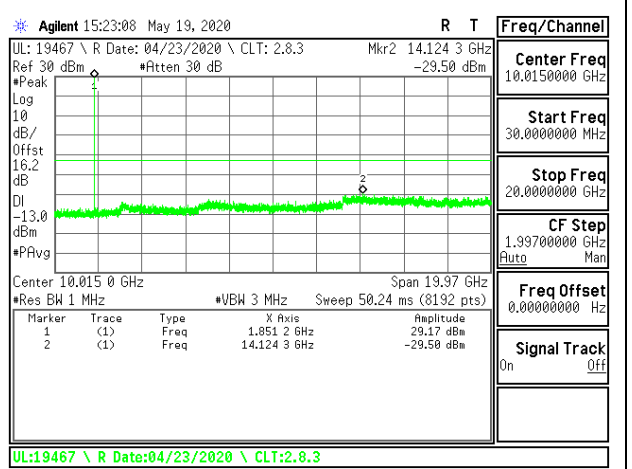
LTE B25 1.4MHz QPSK Low Channel RB1-0



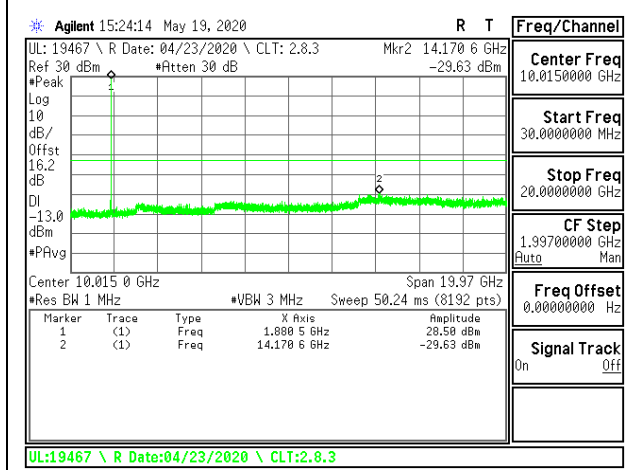
LTE B25 1.4MHz QPSK Middle Channel RB1-0



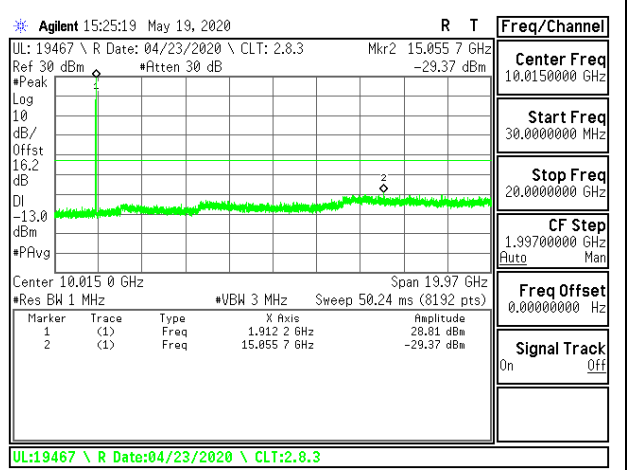
LTE B25 1.4MHz QPSK High Channel RB1-0



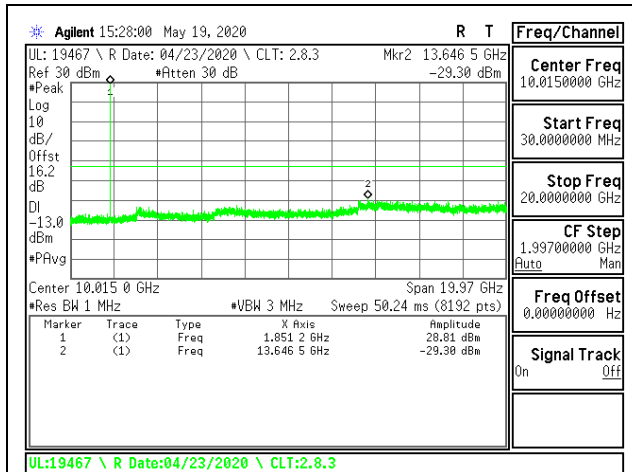
LTE B25 3MHz QPSK Low Channel RB1-0



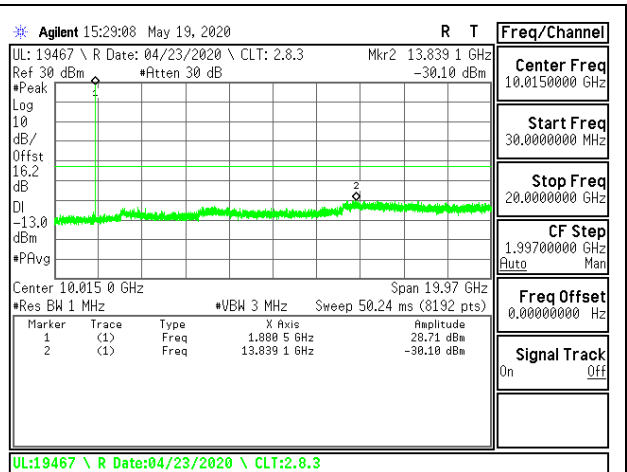
LTE B25 3MHz QPSK Middle Channel RB1-0



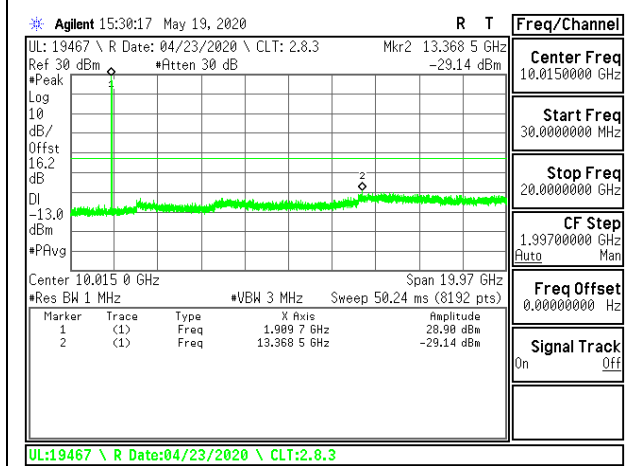
LTE B25 3MHz QPSK High Channel RB1-0



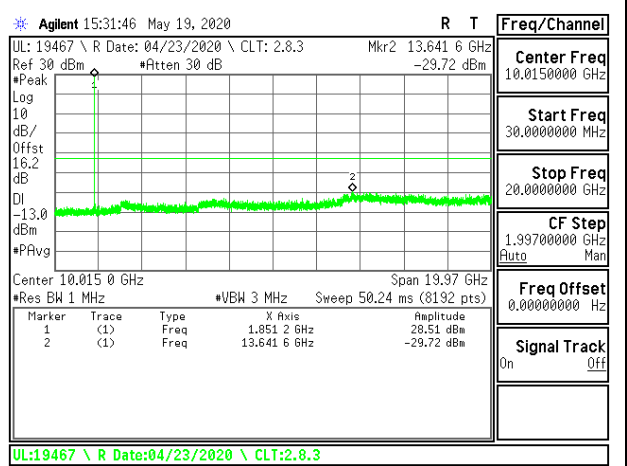
LTE B25 5MHz QPSK Low Channel RB1-0



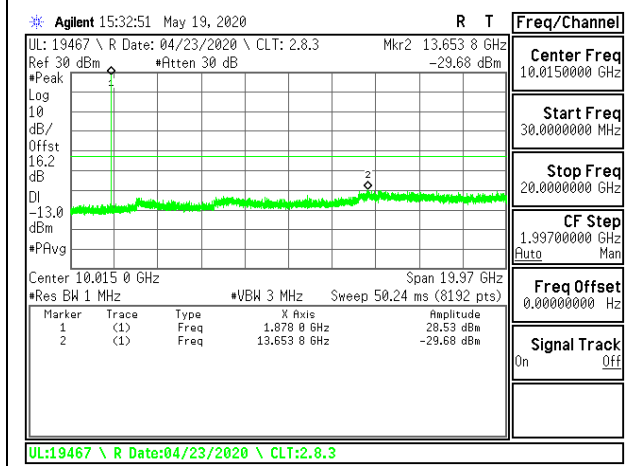
LTE B25 5MHz QPSK Middle Channel RB1-0



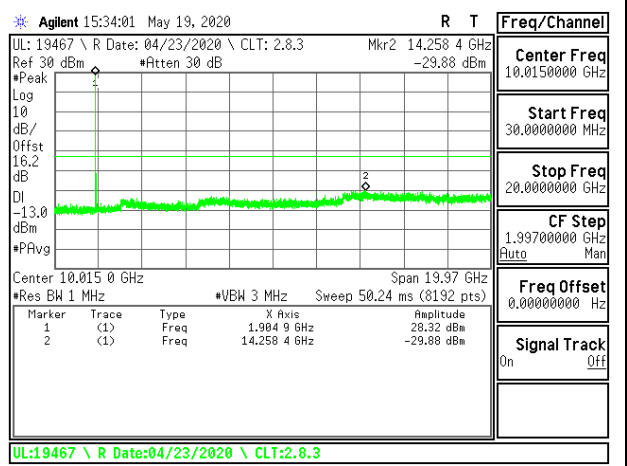
LTE B25 5MHz QPSK High Channel RB1-0



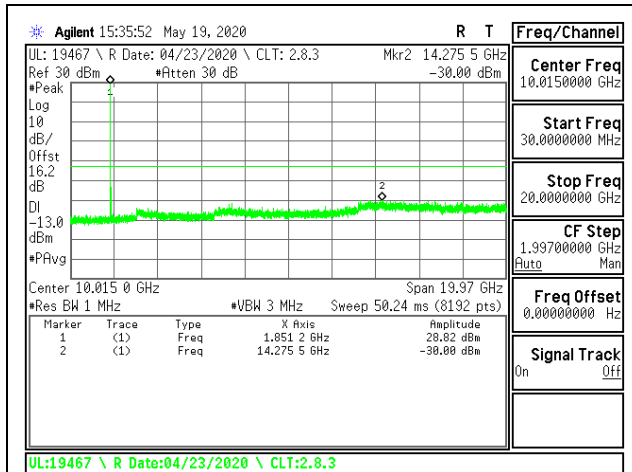
LTE B25 10MHz QPSK Low Channel RB1-0



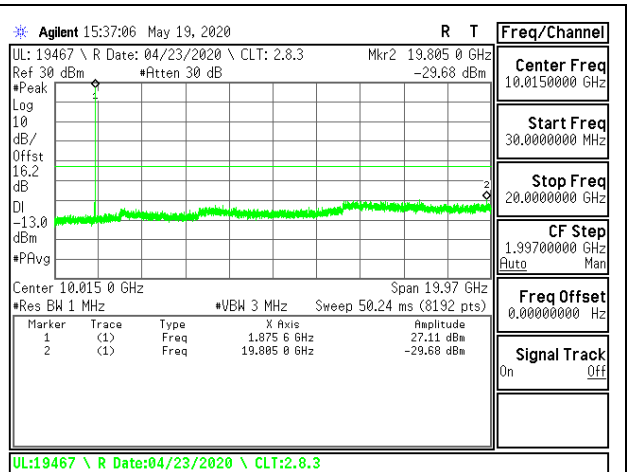
LTE B25 10MHz QPSK Middle Channel RB1-0



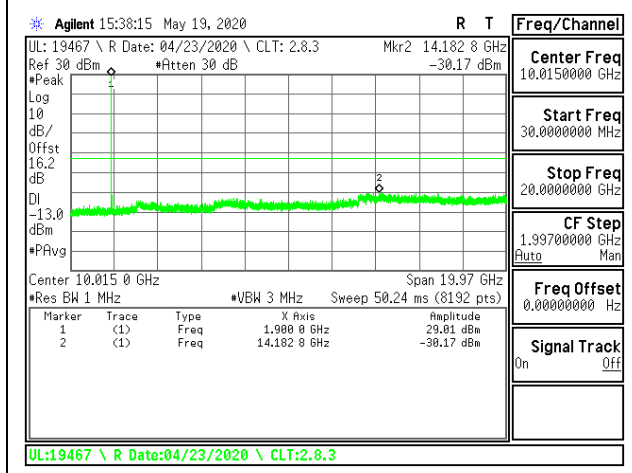
LTE B25 10MHz QPSK High Channel RB1-0



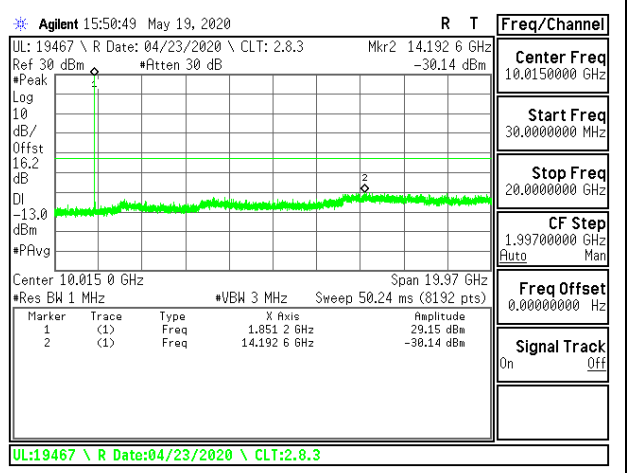
LTE B25 15MHz QPSK Low Channel RB1-0



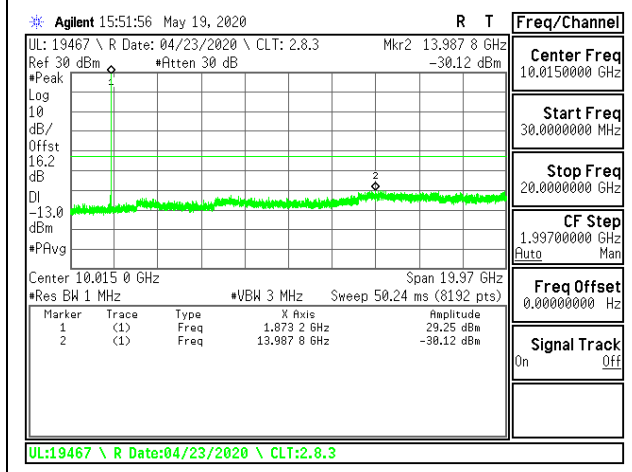
LTE B25 15MHz QPSK Middle Channel RB1-0



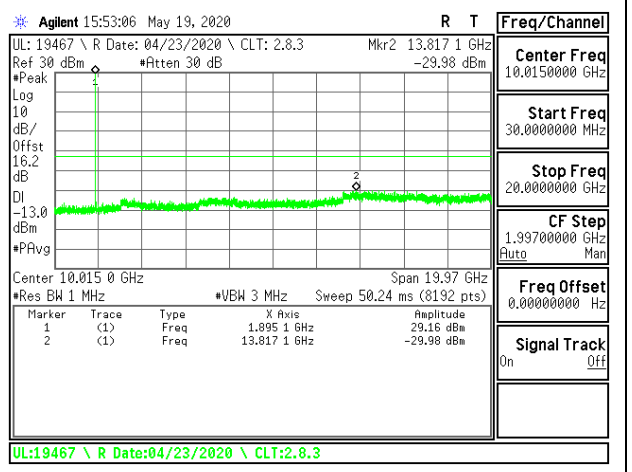
LTE B25 15MHz QPSK High Channel RB1-0



LTE B25 20MHz QPSK Low Channel RB1-0



LTE B25 20MHz QPSK Middle Channel RB1-0



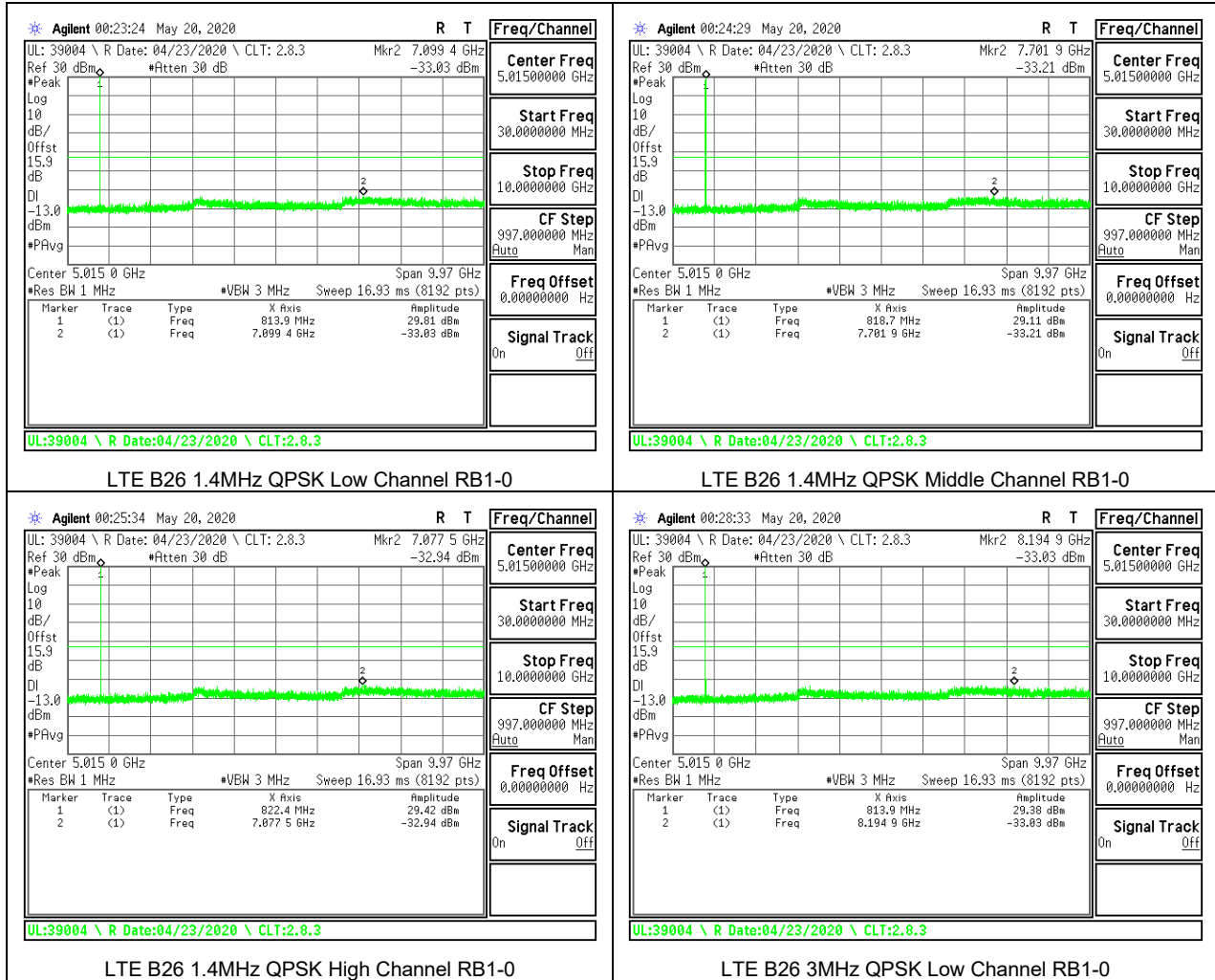
LTE B25 20MHz QPSK High Channel RB1-0

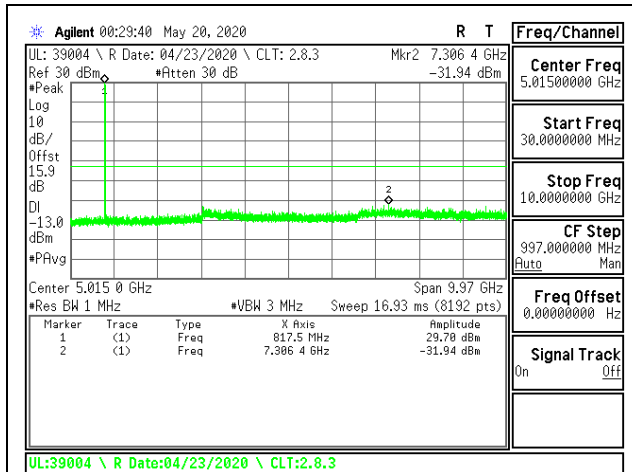
8.3.9. LTE BAND 26 (FCC PART 90S)

LIMITS

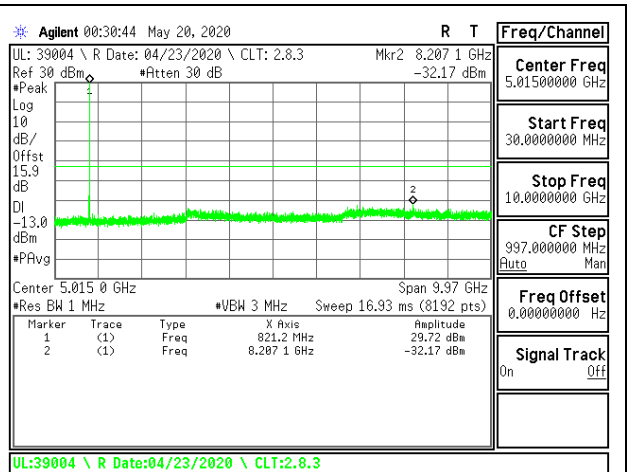
FCC: §90.691

The minimum permissible attenuation level of any spurious emissions is $43 + 10 \log (P)$ dB where transmitting power (P) in Watts.

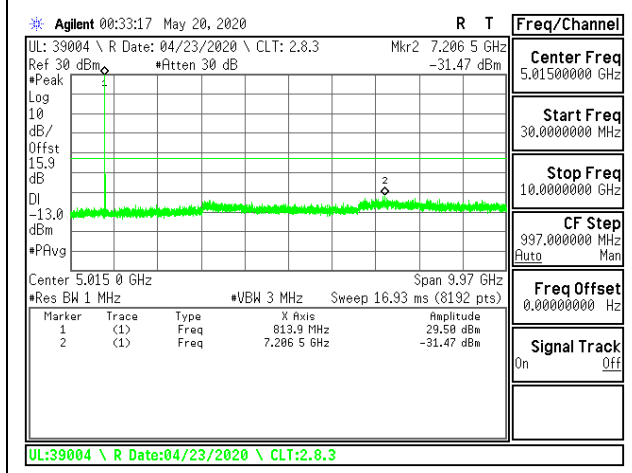




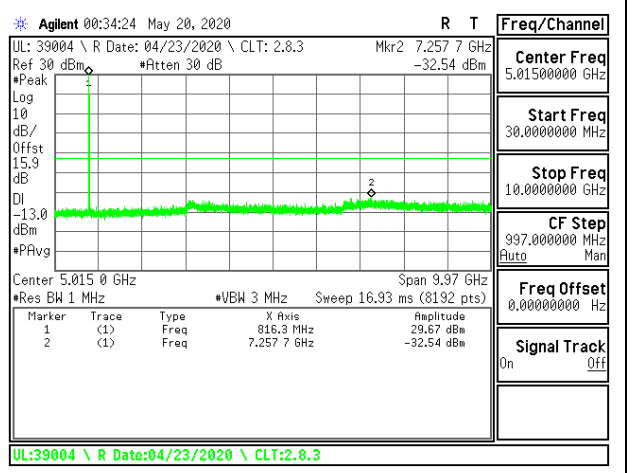
LTE B26 3MHz QPSK Middle Channel RB1-0



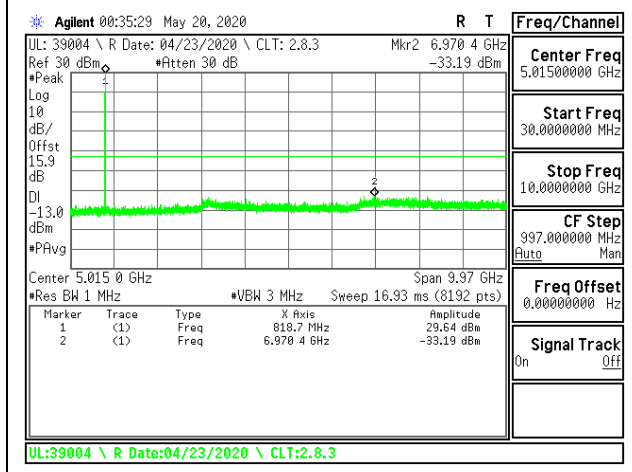
LTE B26 3MHz QPSK High Channel RB1-0



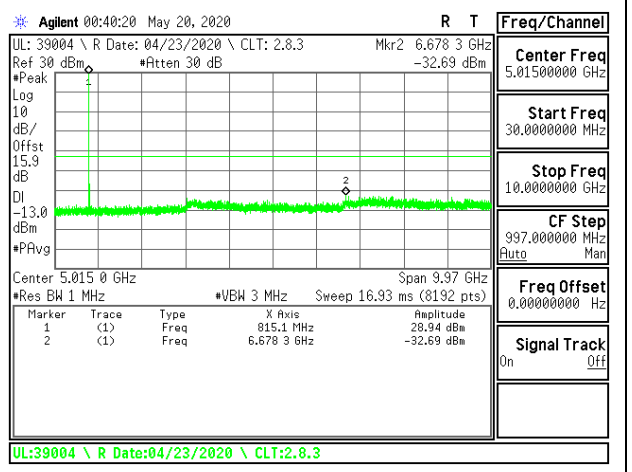
LTE B26 5MHz QPSK Low Channel RB1-0



LTE B26 5MHz QPSK Middle Channel RB1-0



LTE B26 5MHz QPSK High Channel RB1-0



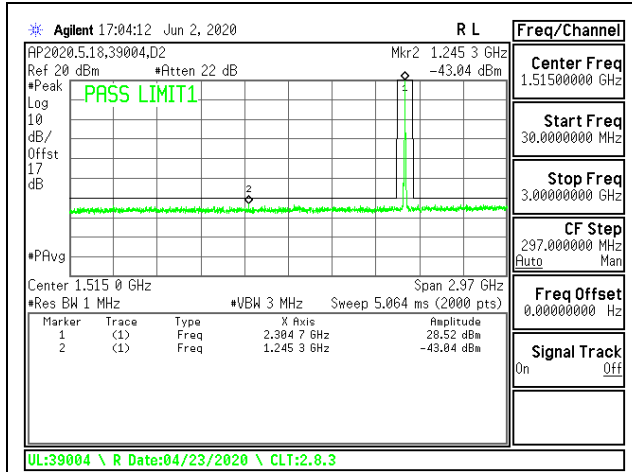
LTE B26 10MHz QPSK Middle Channel RB1-0

8.3.10. LTE BAND 30

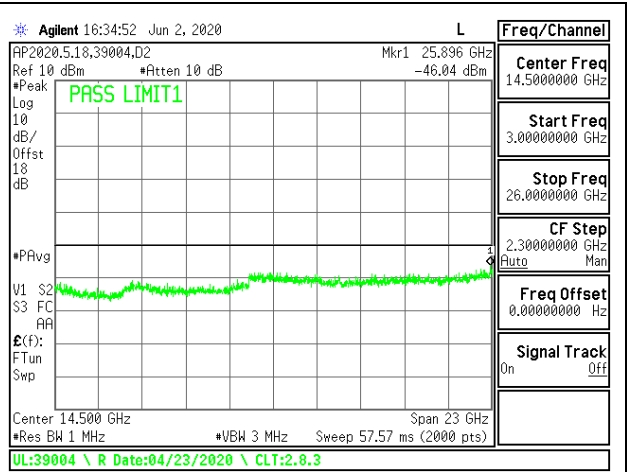
LIMITS

FCC: §27.53 (a)

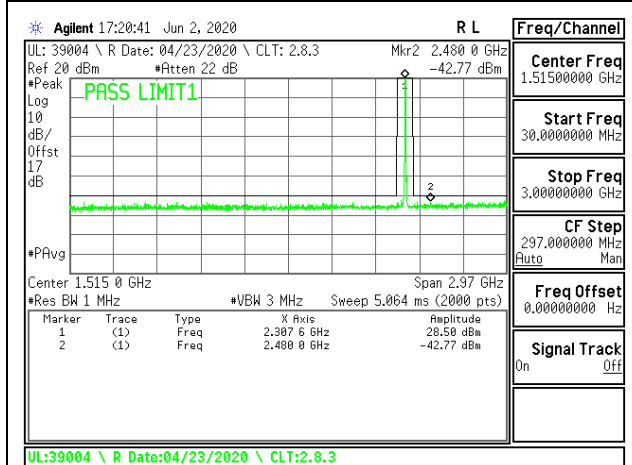
The minimum permissible attenuation level of any spurious emissions is $70 + 10 \log (P)$ dB where transmitting power (P) in Watts.



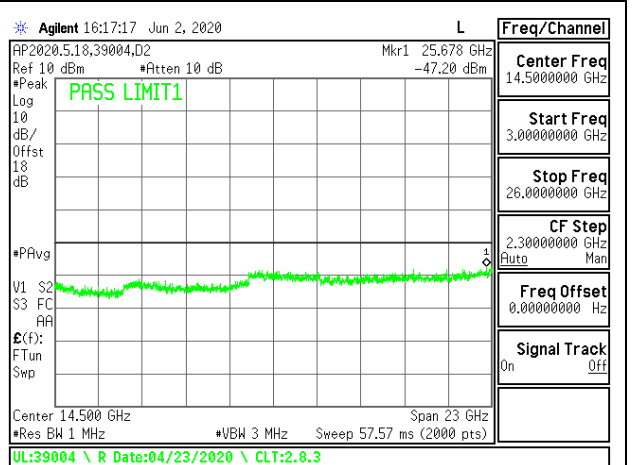
LTE B30 5MHz QPSK Low Channel RB1-0 (30MHz to 3GHz)



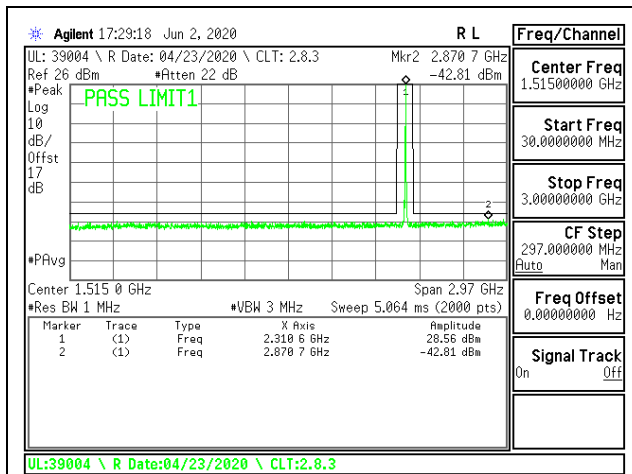
LTE B30 5MHz QPSK Low Channel RB1-0 (3G to 26G)



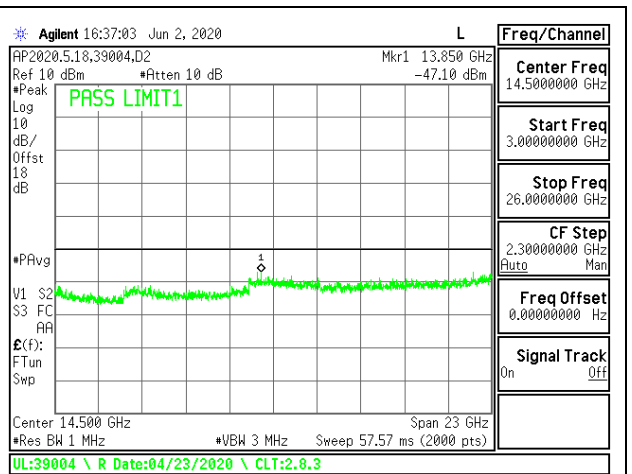
LTE B30 5MHz QPSK Mid Channel RB1-0 (30MHz to 3GHz)



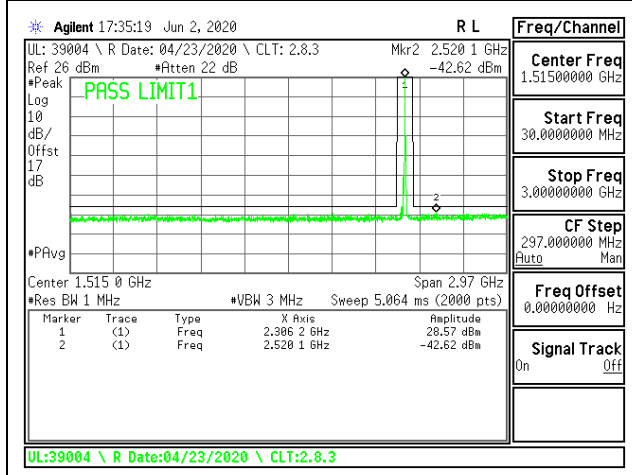
LTE B30 5MHz QPSK Middle Channel RB1-0 (3G to 26G)



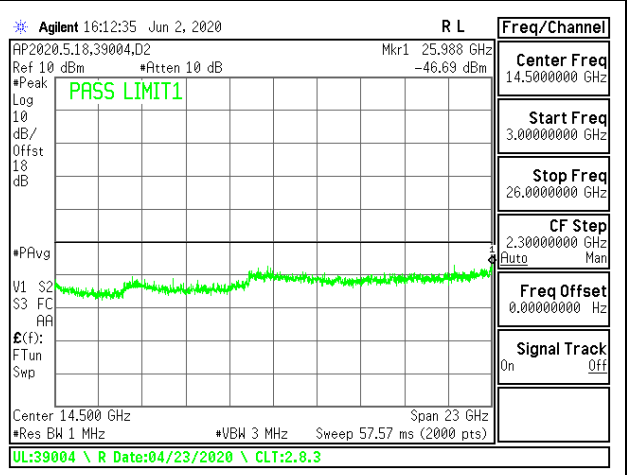
LTE B30 5MHz QPSK High Channel RB1-0 (30MHz to 3GHz)



LTE B30 5MHz QPSK High Channel RB1-0 (3G to 26G)



LTE B30 10MHz QPSK Mid Channel RB1-0 (30MHz to 3GHz)



LTE B30 10MHz QPSK Middle Channel RB1-0 (3G to 26G)

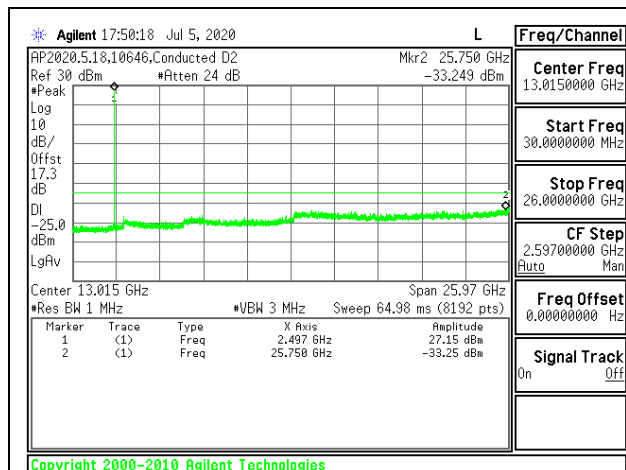
8.3.11. LTE BAND 41 AND 5G NR BAND n41

LIMITS

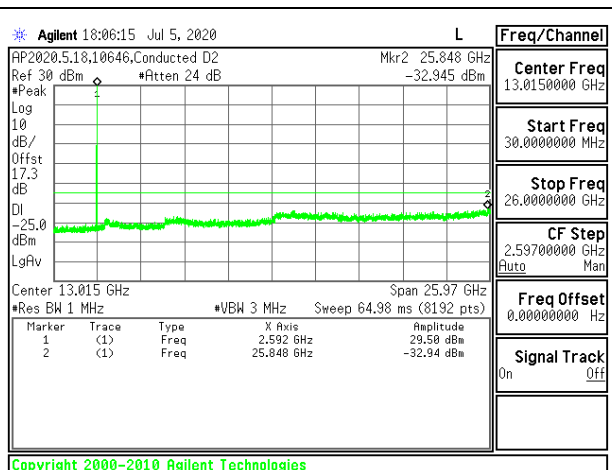
FCC: §27.53 (m)

The minimum permissible attenuation level of any spurious emissions is $55 + 10 \log (P)$ dB where transmitting power (P) in Watts.

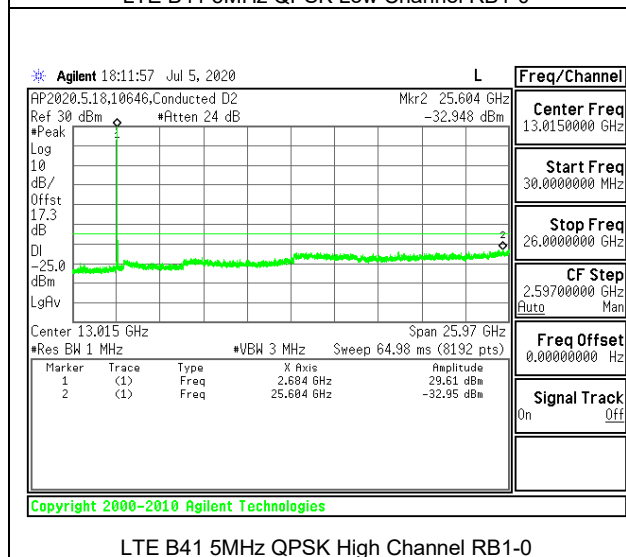
LTE BAND 41



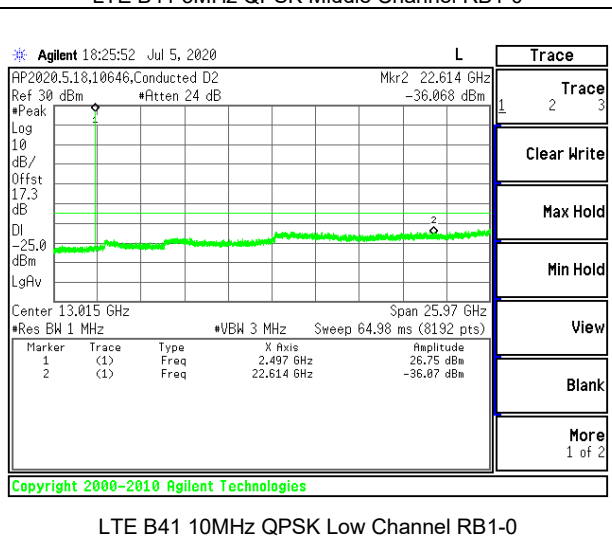
LTE B41 5MHz QPSK Low Channel RB1-0



LTE B41 5MHz QPSK Middle Channel RB1-0



LTE B41 5MHz QPSK High Channel RB1-0



LTE B41 10MHz QPSK Low Channel RB1-0