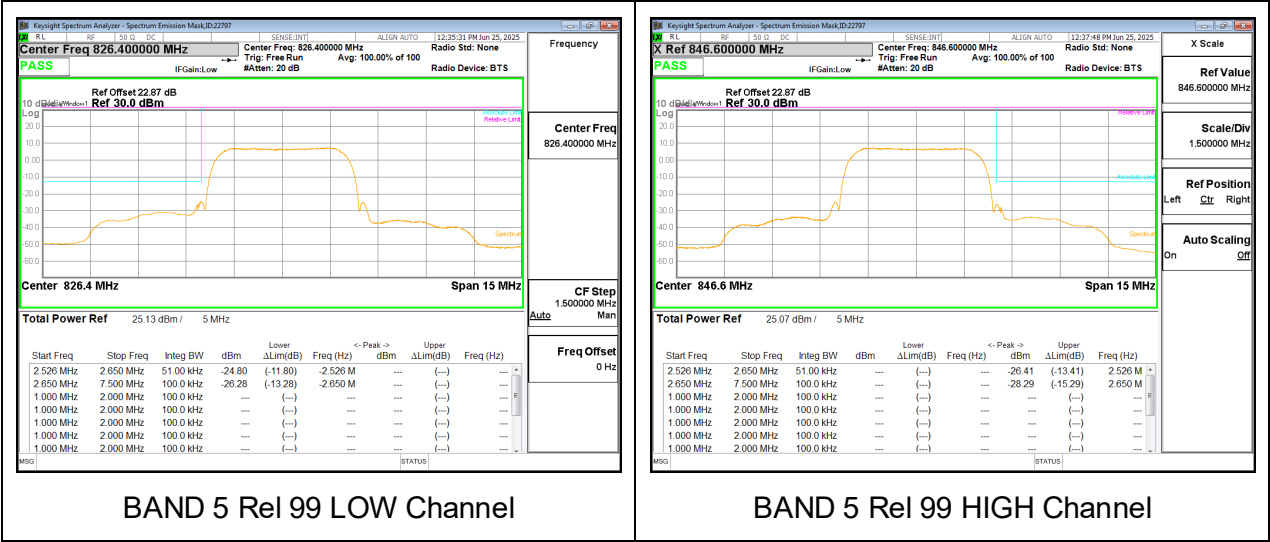


9.4.5. WCDMA BAND 5

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.

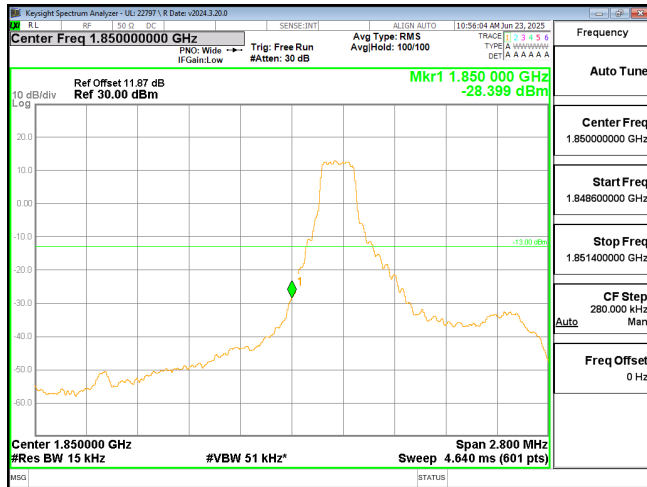


9.4.6. LTE2

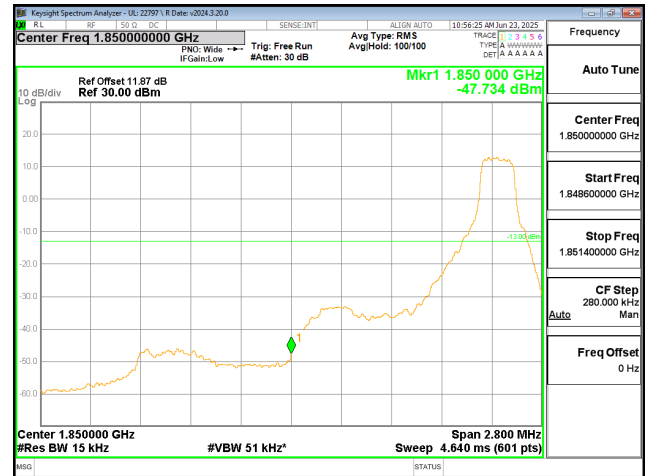
LIMITS

FCC: §24.238

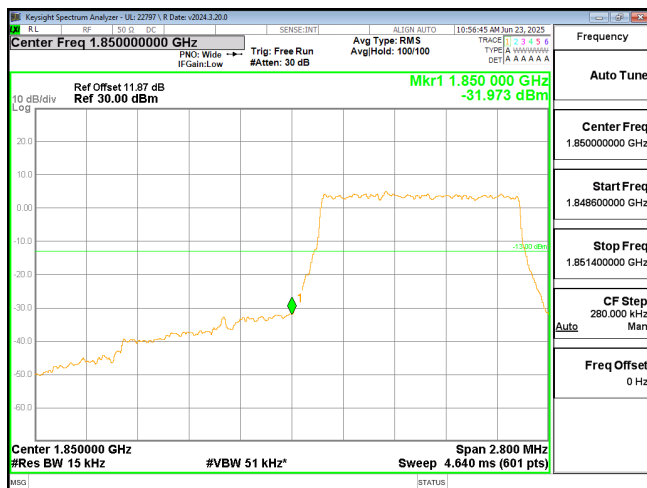
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.



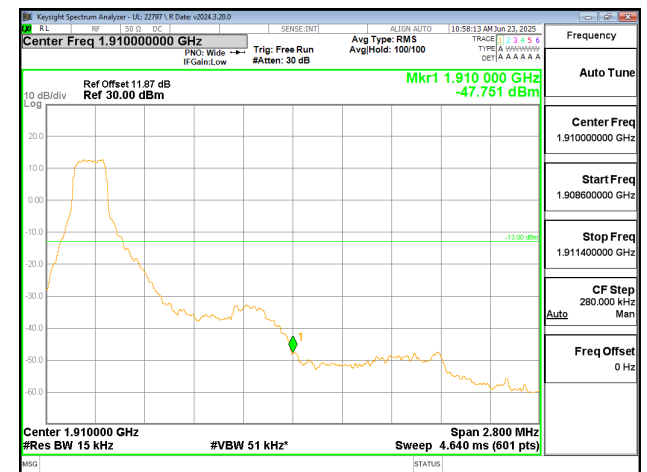
LTE2 1.4MHz QPSK LOW Ch RB1-0



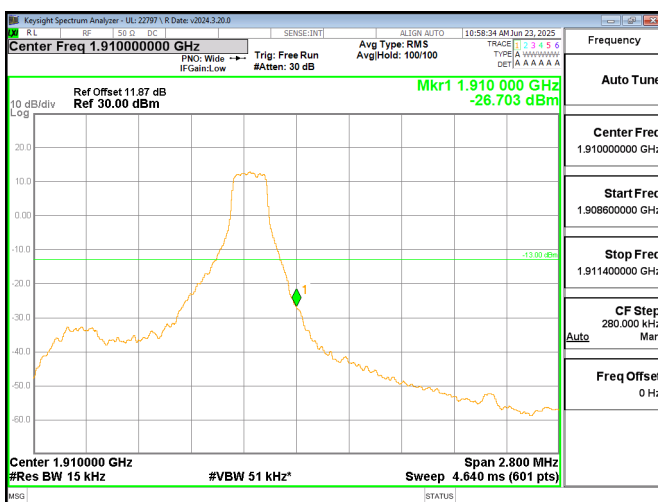
LTE2 1.4MHz QPSK LOW Ch RB1-5



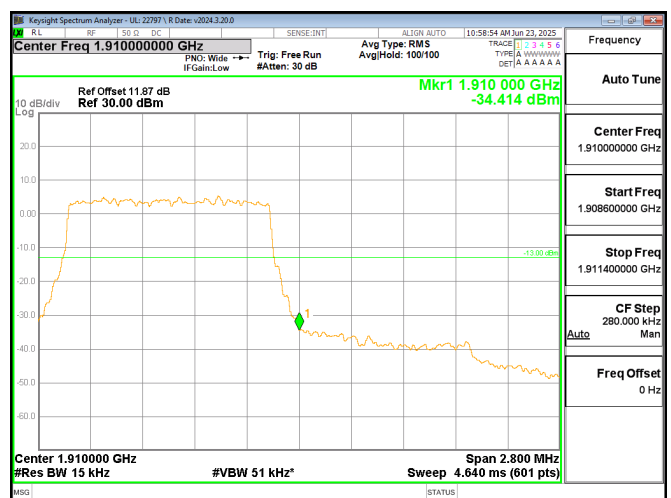
LTE2 1.4MHz QPSK LOW Ch RB6-0



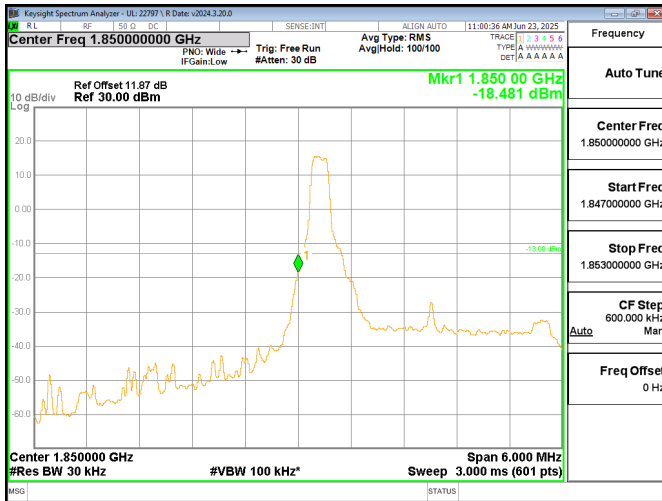
LTE2 1.4MHz QPSK HIGH Ch RB1-0



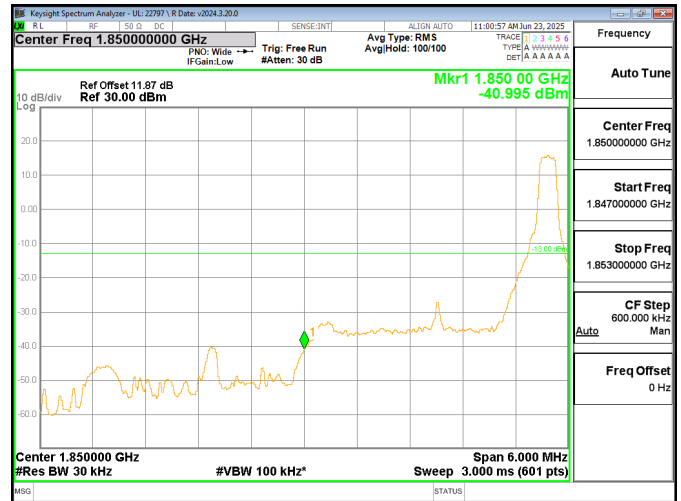
LTE2 1.4MHz QPSK HIGH Ch RB1-5



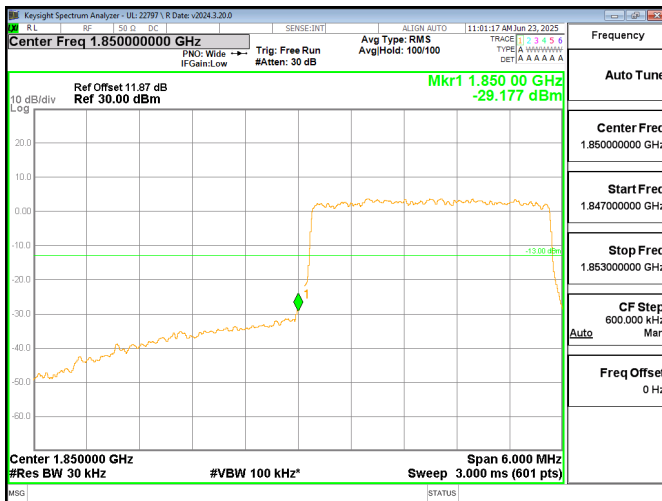
LTE2 1.4MHz QPSK HIGH Ch RB6-0



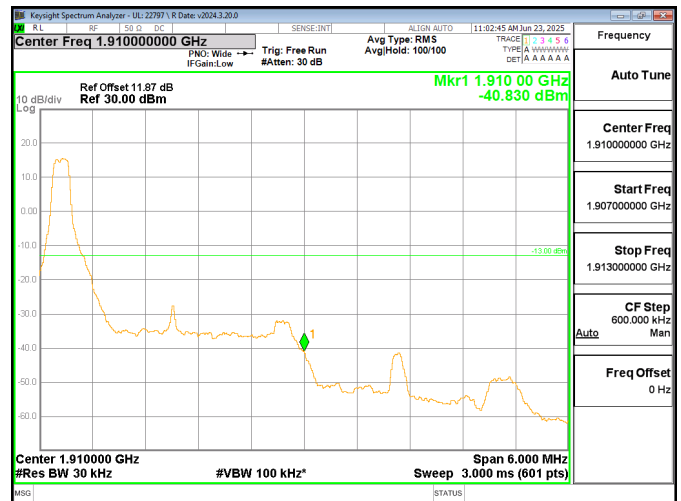
LTE2 3MHz QPSK LOW Ch RB1-0



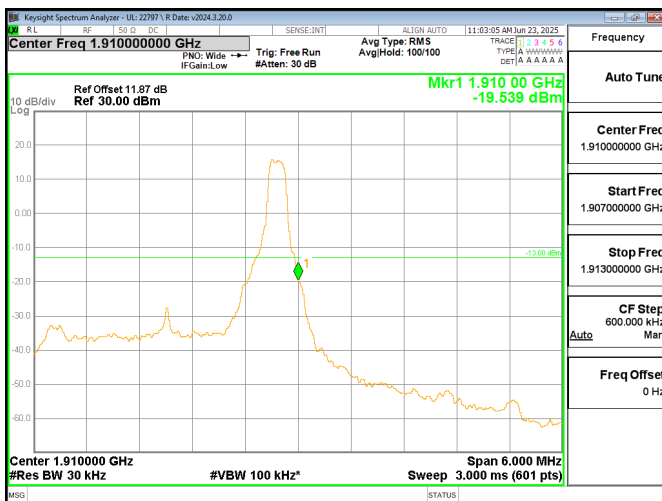
LTE2 3MHz QPSK LOW Ch RB1-14



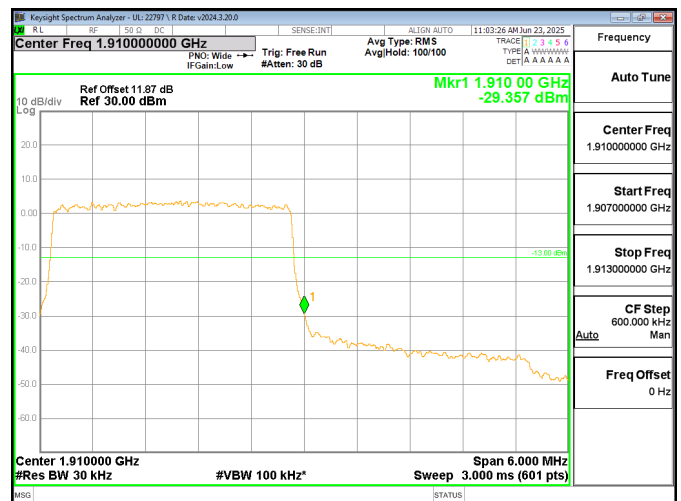
LTE2 3MHz QPSK LOW Ch RB15-0



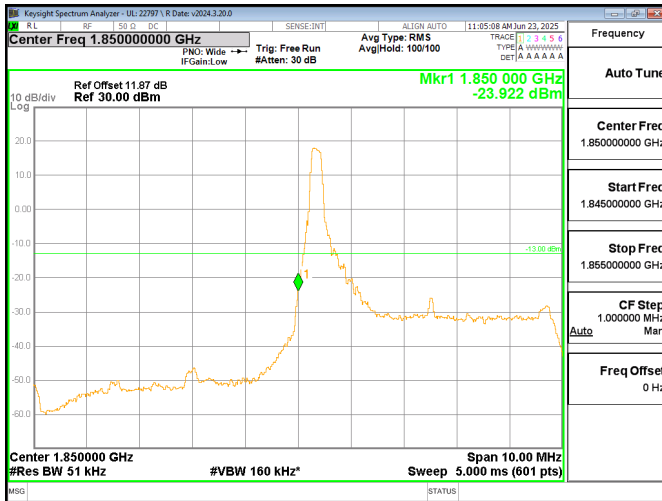
LTE2 3MHz QPSK HIGH Ch RB1-0



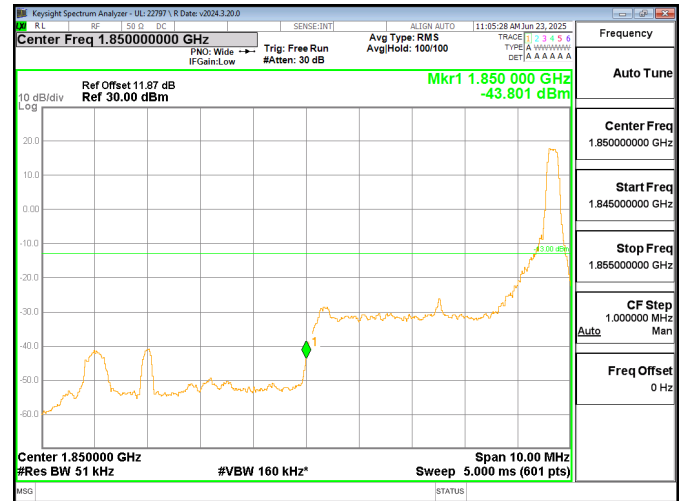
LTE2 3MHz QPSK HIGH Ch RB1-14



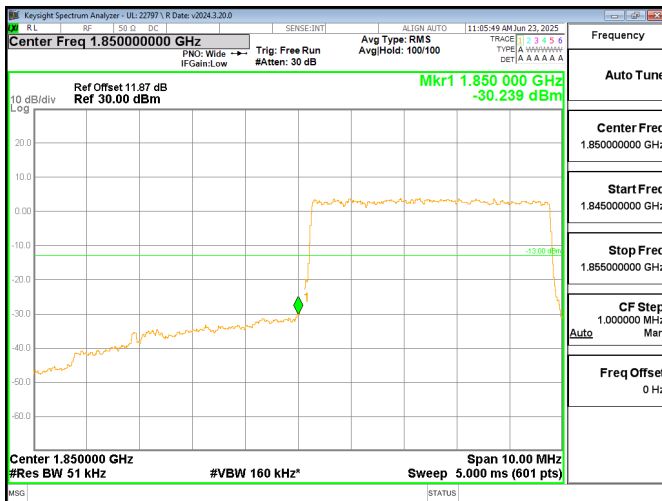
LTE2 3MHz QPSK HIGH Ch RB15-0



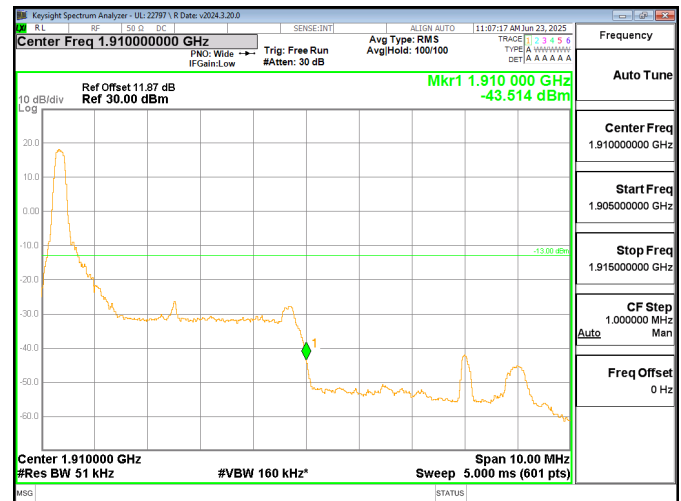
LTE2 5MHz QPSK LOW Ch RB1-0



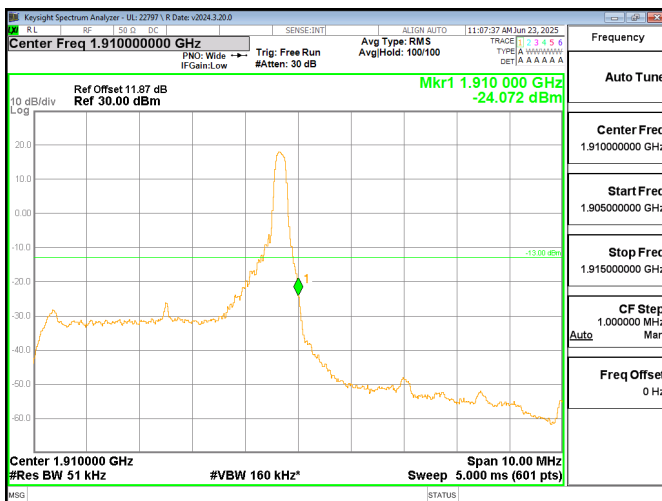
LTE2 5MHz QPSK LOW Ch RB1-24



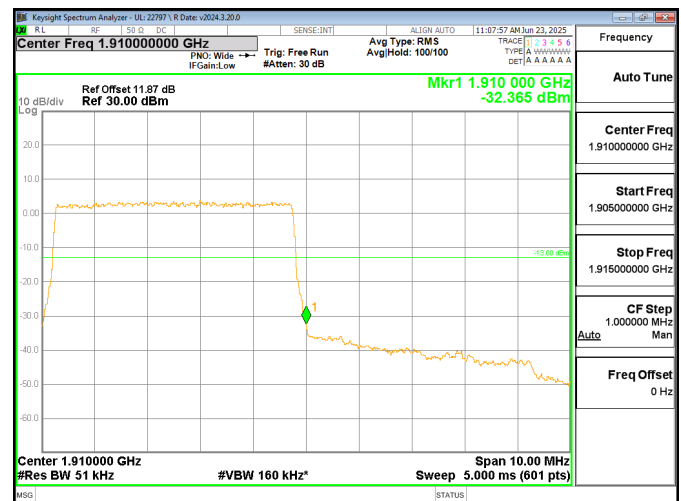
LTE2 5MHz QPSK LOW Ch RB25-0



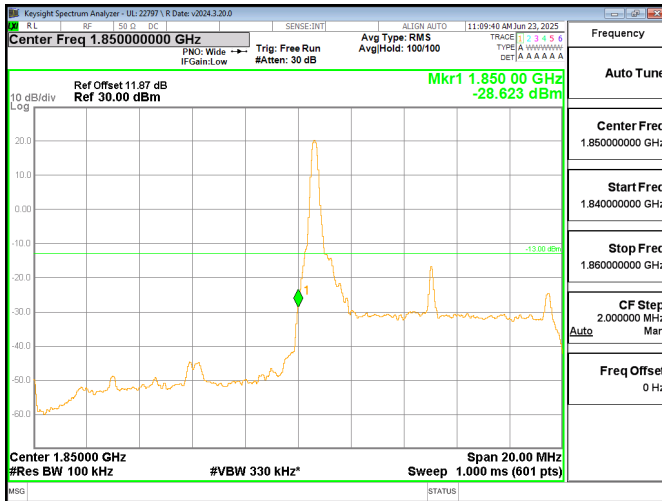
LTE2 5MHz QPSK HIGH Ch RB1-0



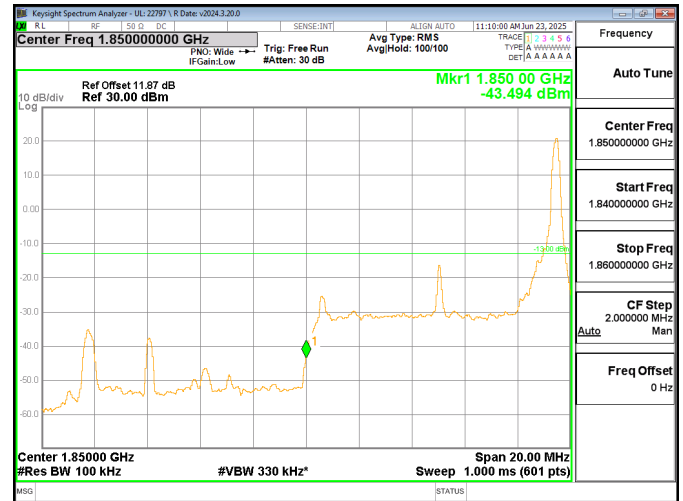
LTE2 5MHz QPSK HIGH Ch RB1-24



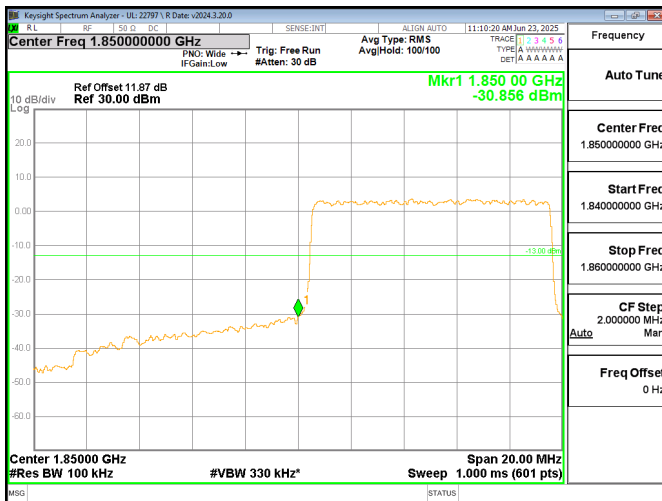
LTE2 5MHz QPSK HIGH Ch RB25-0



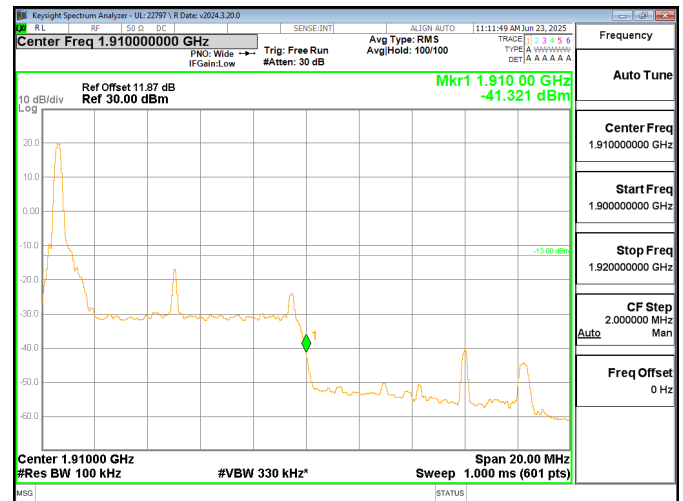
LTE2 10MHz QPSK LOW Ch RB1-0



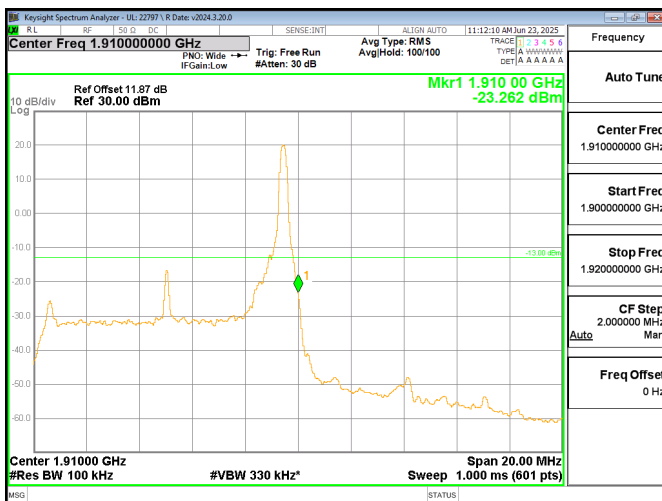
LTE2 10MHz QPSK LOW Ch RB1-49



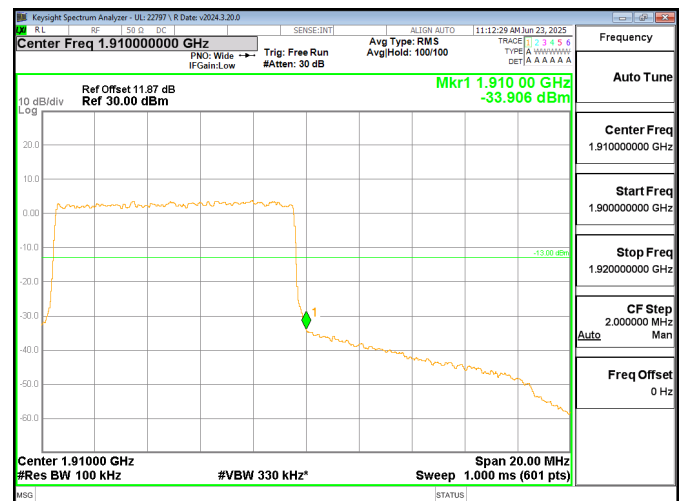
LTE2 10MHz QPSK LOW Ch RB50-0



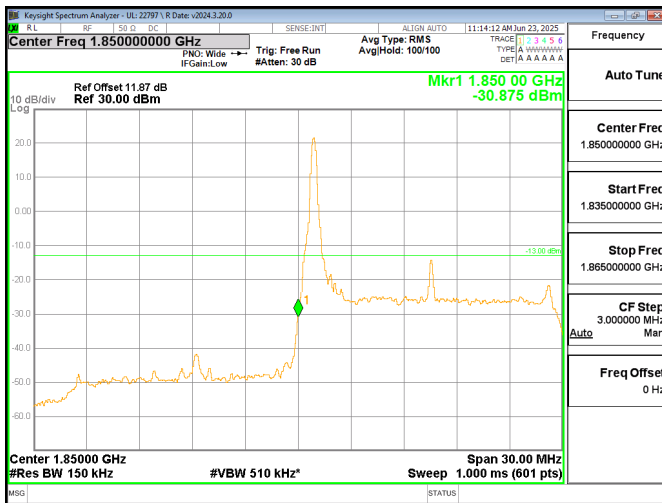
LTE2 10MHz QPSK HIGH Ch RB1-0



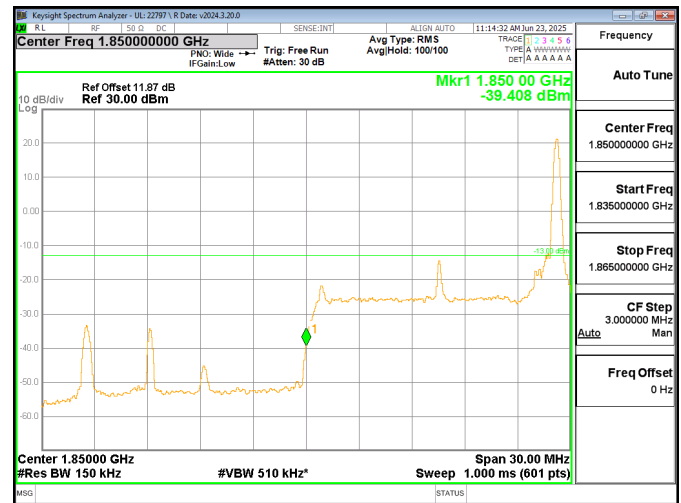
LTE2 10MHz QPSK HIGH Ch RB1-49



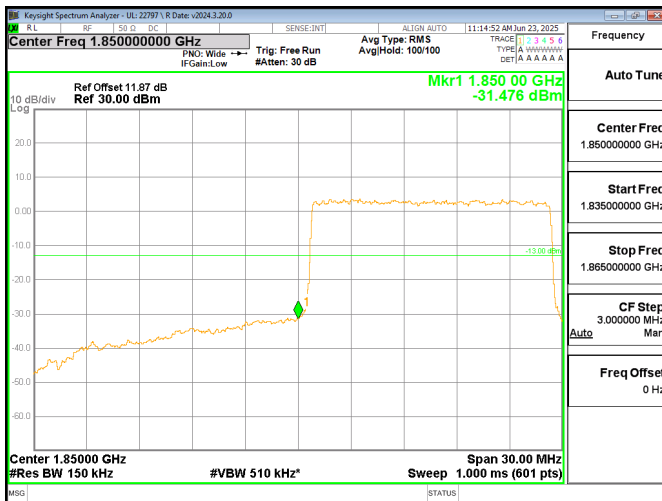
LTE2 10MHz QPSK HIGH Ch RB50-0



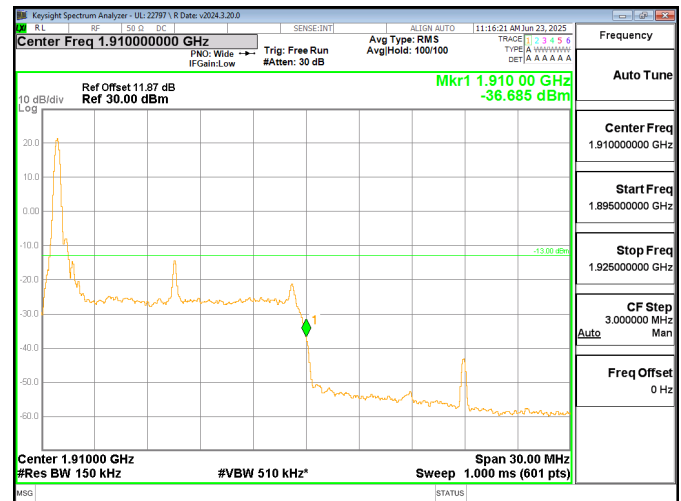
LTE2 15MHz QPSK LOW Ch RB1-0



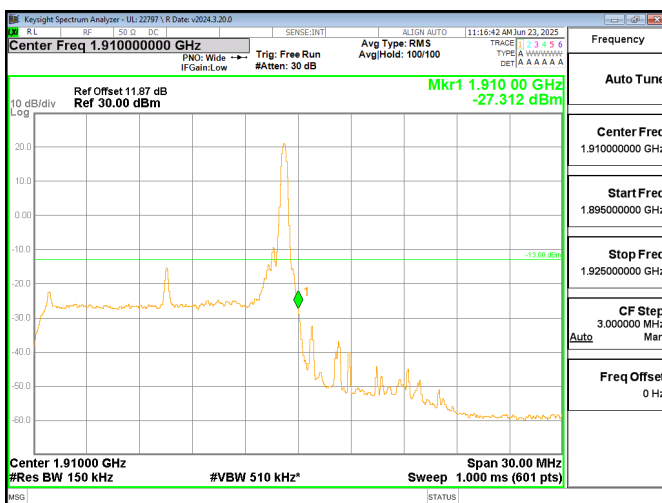
LTE2 15MHz QPSK LOW Ch RB1-74



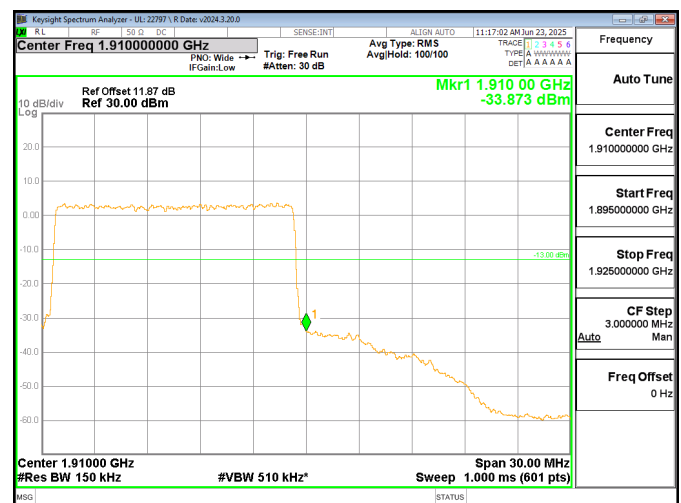
LTE2 15MHz QPSK LOW Ch RB75-0



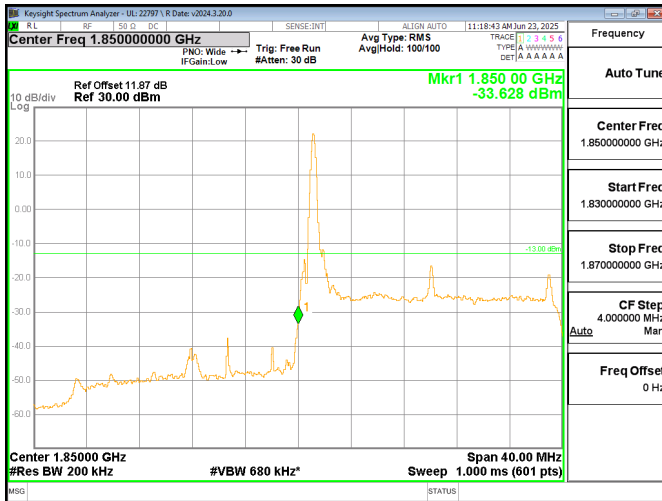
LTE2 15MHz QPSK HIGH Ch RB1-0



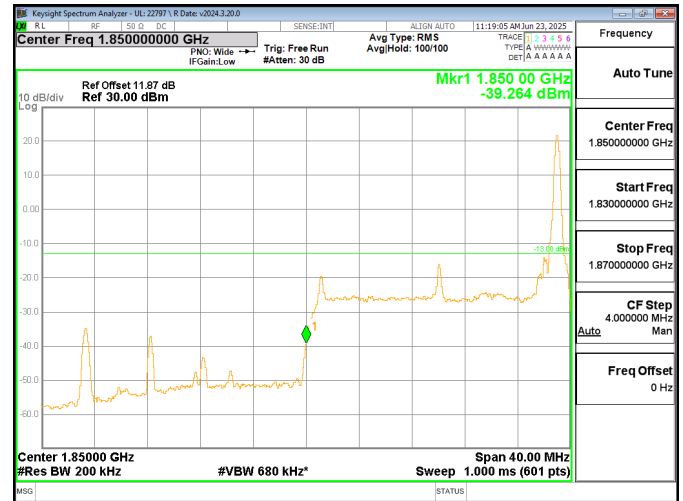
LTE2 15MHz QPSK HIGH Ch RB1-74



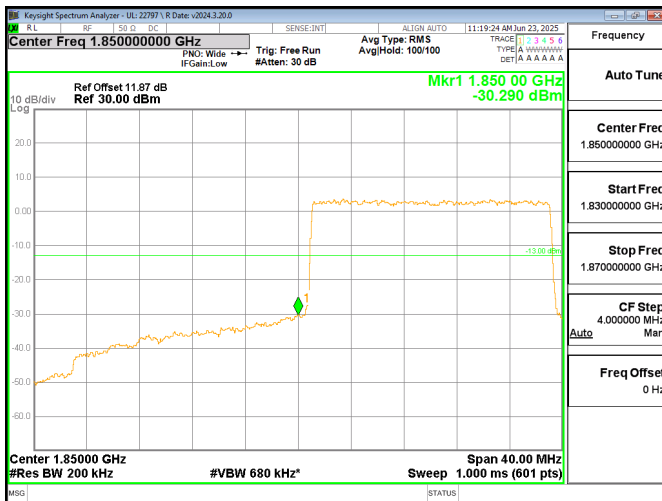
LTE2 15MHz QPSK HIGH Ch RB75-0



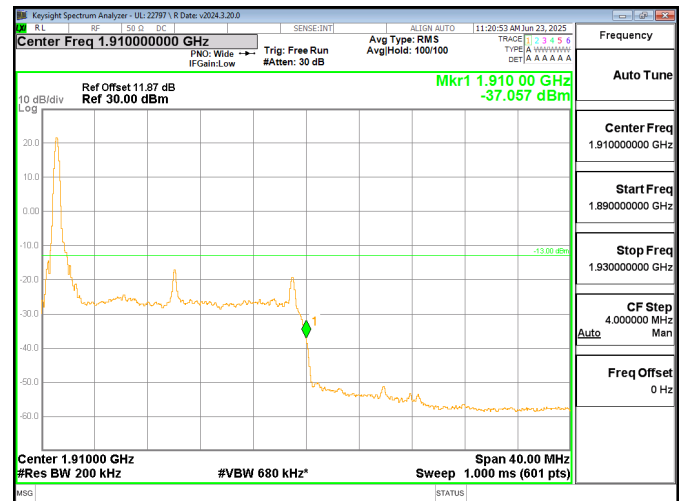
LTE2 20MHz QPSK LOW Ch RB1-0



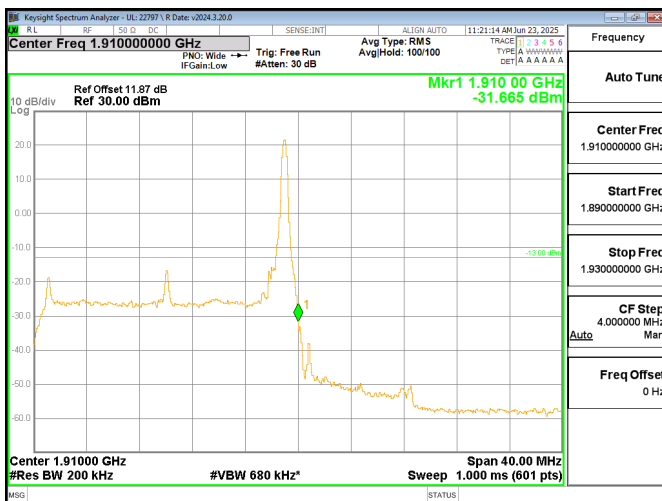
LTE2 20MHz QPSK LOW Ch RB1-99



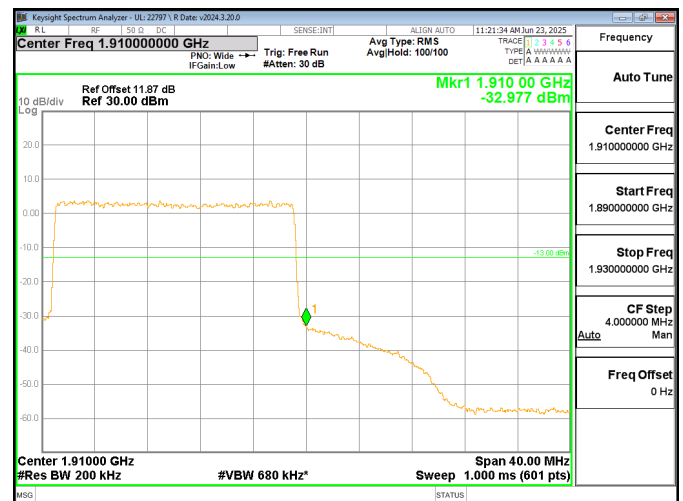
LTE2 20MHz QPSK LOW Ch RB100-0



LTE2 20MHz QPSK HIGH Ch RB1-0



LTE2 20MHz QPSK HIGH Ch RB1-99



LTE2 20MHz QPSK HIGH Ch RB100-0

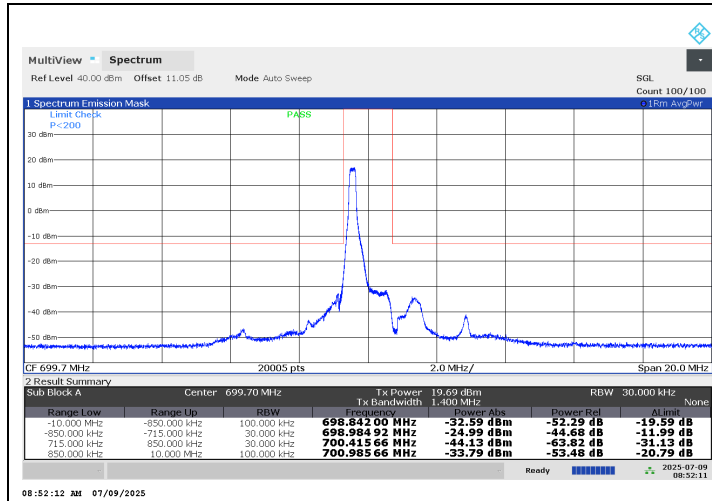
9.4.7. LTE12 & LTE17

LIMITS

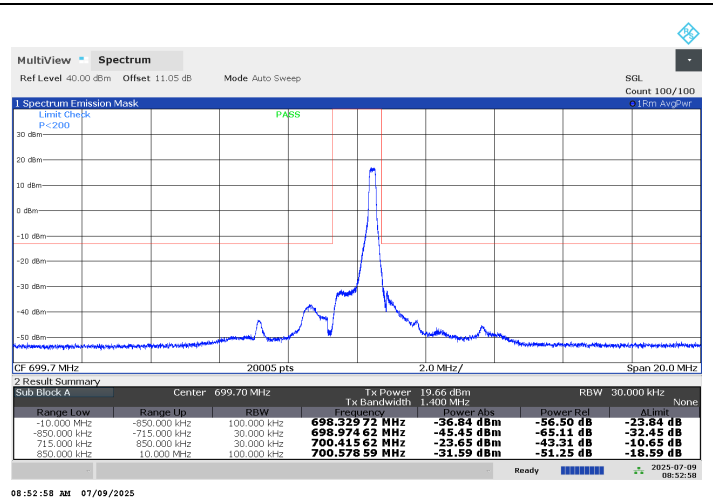
FCC: §27.53

(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.

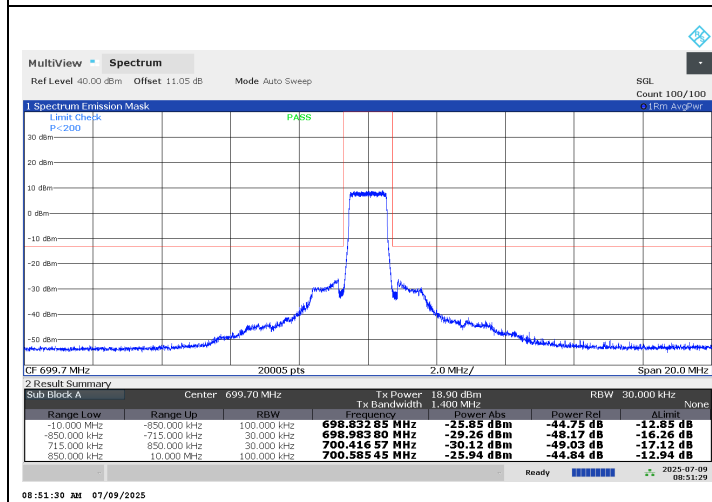
LTE BAND 12



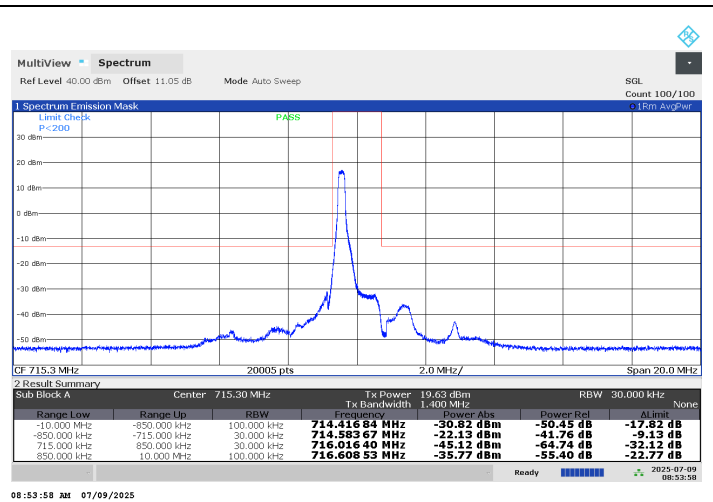
LTE12 1.4MHz QPSK LOW Ch RB1-0



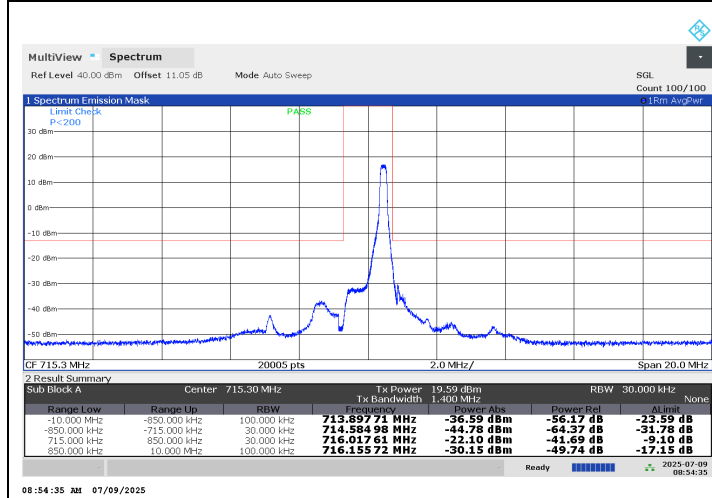
LTE12 1.4MHz QPSK LOW Ch RB1-5



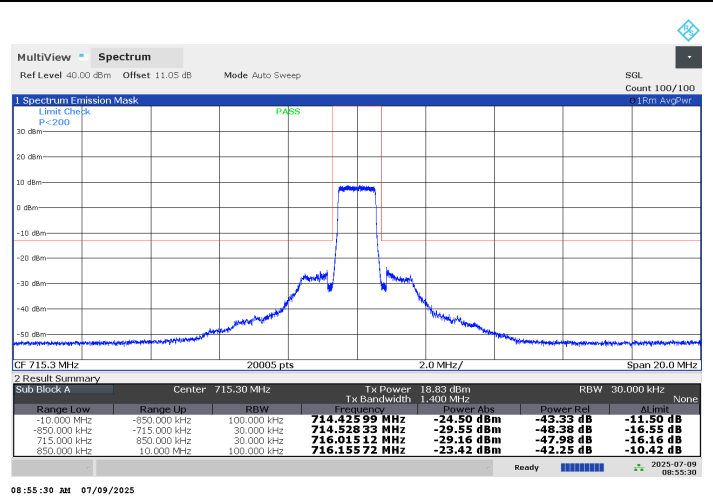
LTE12 1.4MHz QPSK LOW Ch RB6-0



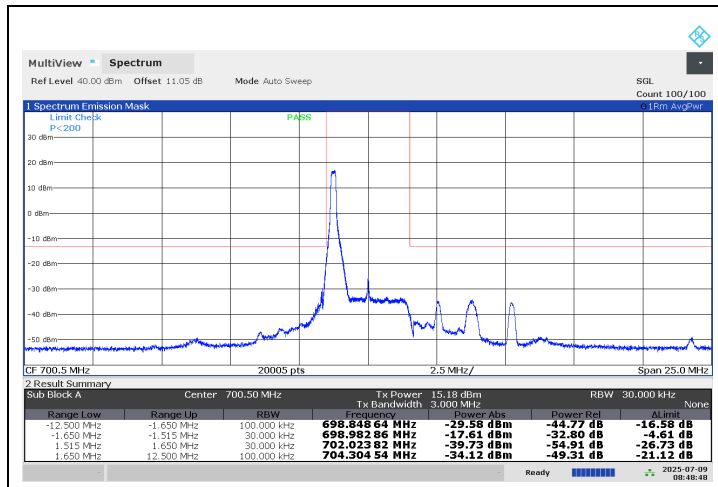
LTE12 1.4MHz QPSK HIGH Ch RB1-0



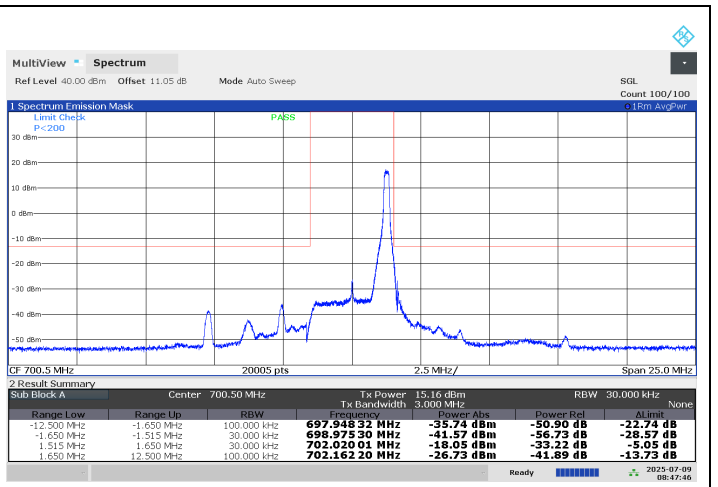
LTE12 1.4MHz QPSK HIGH Ch RB1-5



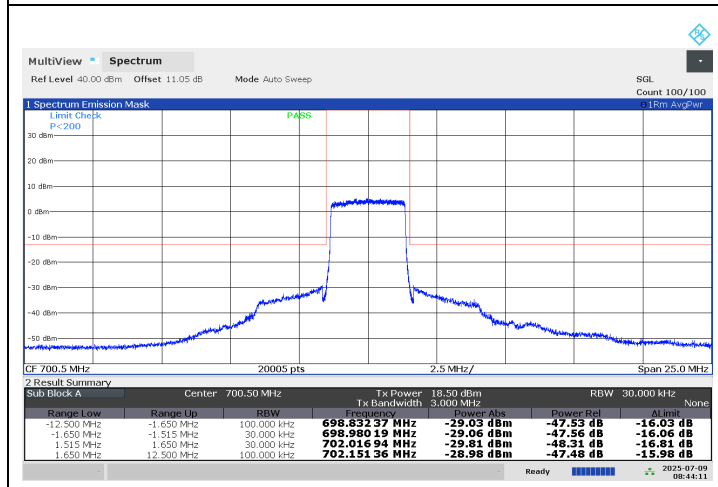
LTE12 1.4MHz QPSK HIGH Ch RB6-0



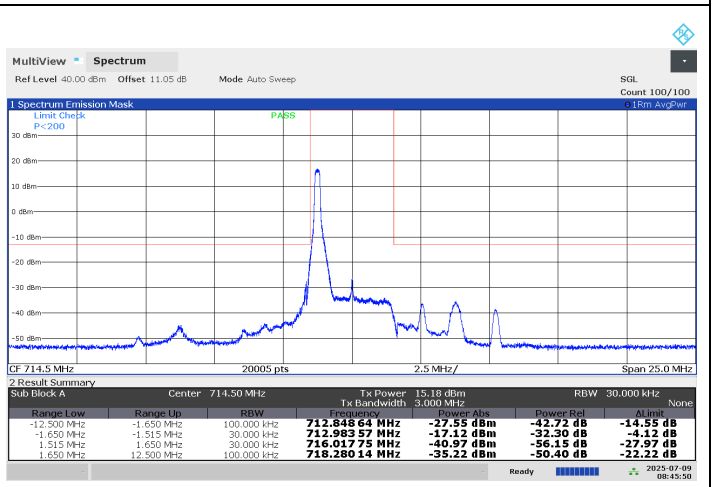
LTE12 3MHz QPSK LOW Ch RB1-0



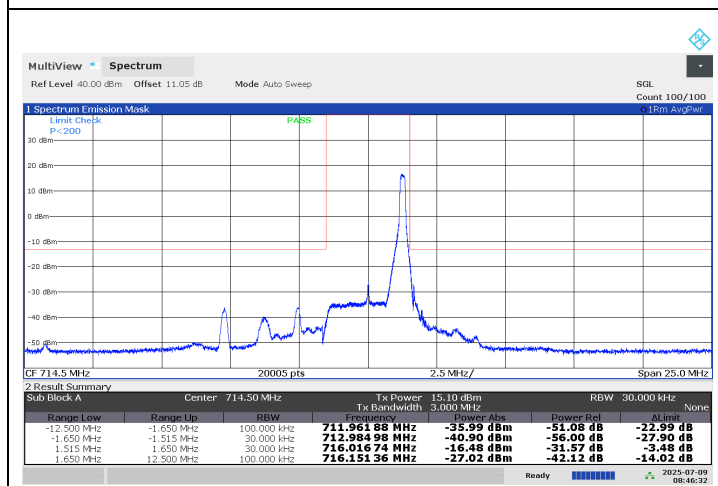
LTE12 3MHz QPSK LOW Ch RB1-14



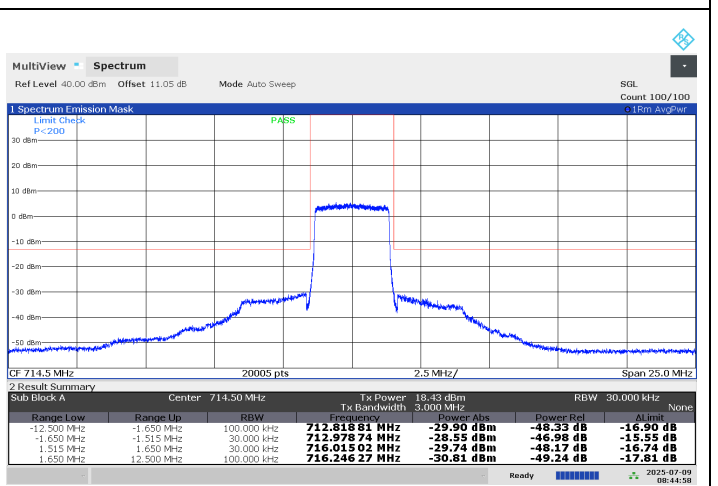
LTE12 3MHz QPSK LOW Ch RB15-0



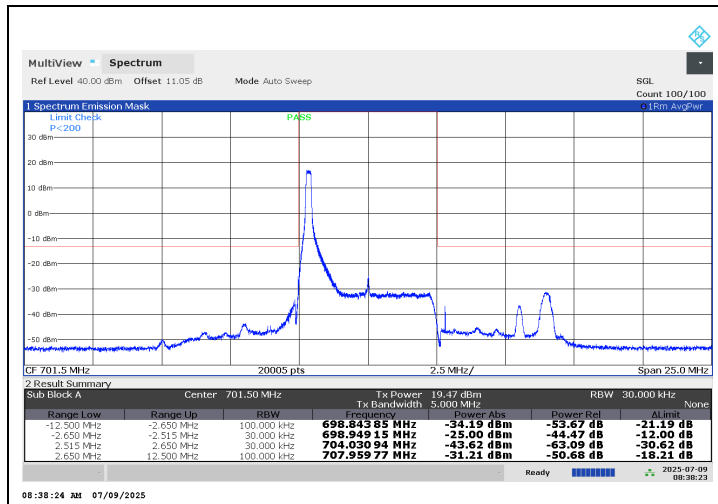
LTE12 3MHz QPSK HIGH Ch RB1-0



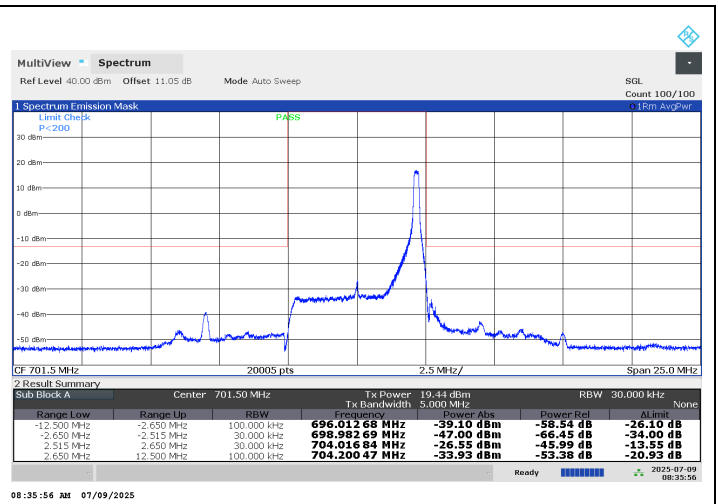
LTE12 3MHz QPSK HIGH Ch RB1-14



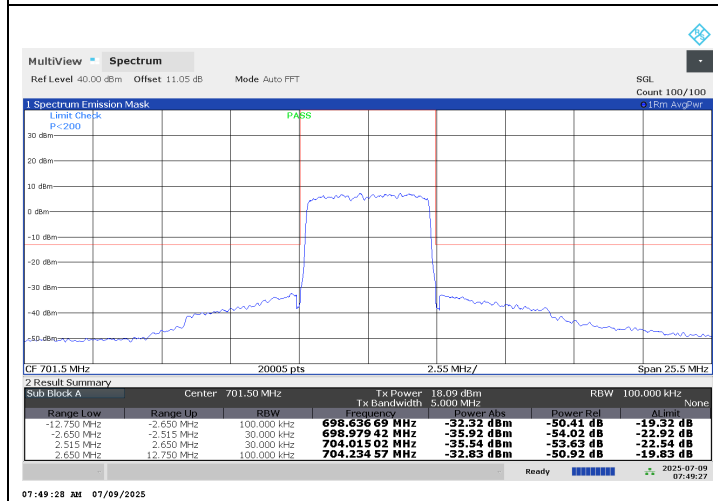
LTE12 3MHz QPSK HIGH Ch RB15-0



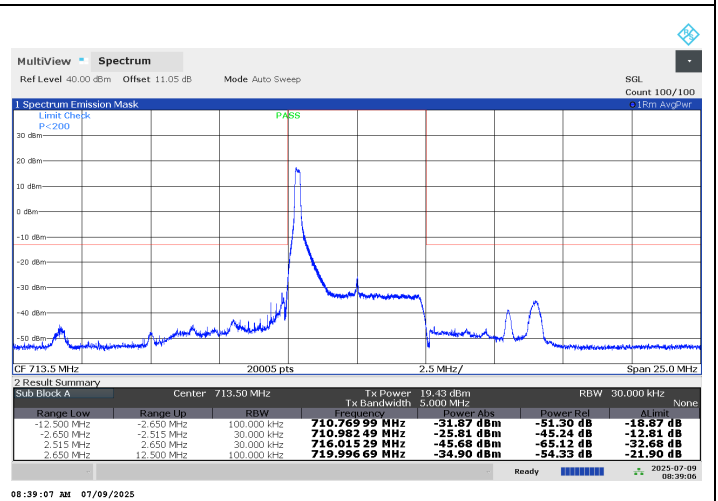
LTE12 5MHz QPSK LOW Ch RB1-0



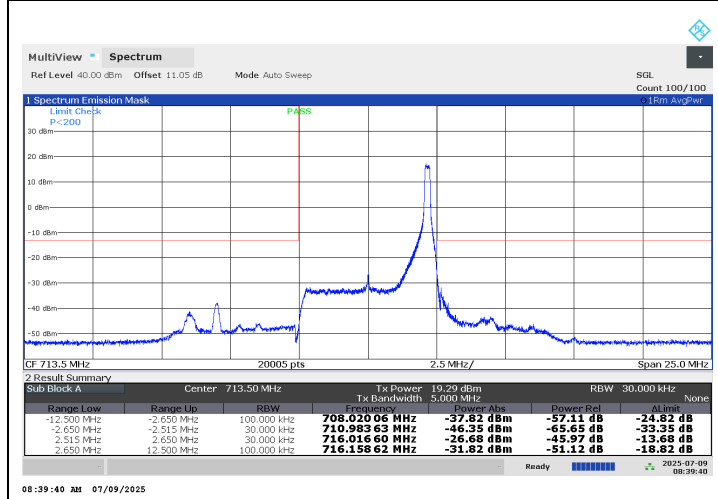
LTE12 5MHz QPSK LOW Ch RB1-24



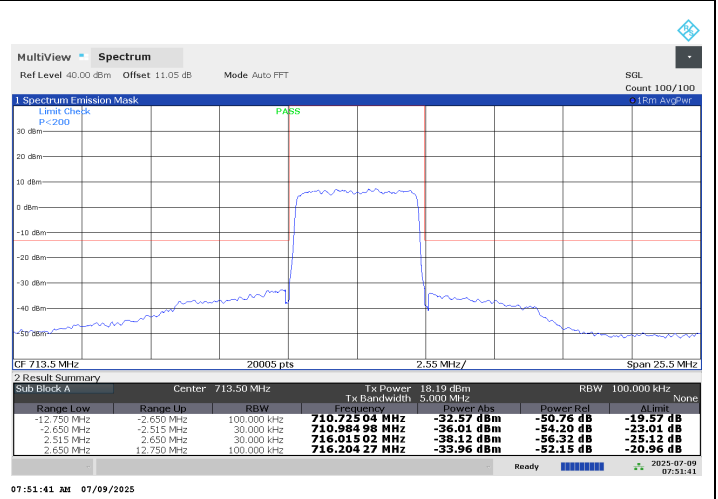
LTE12 5MHz QPSK LOW Ch RB25-0



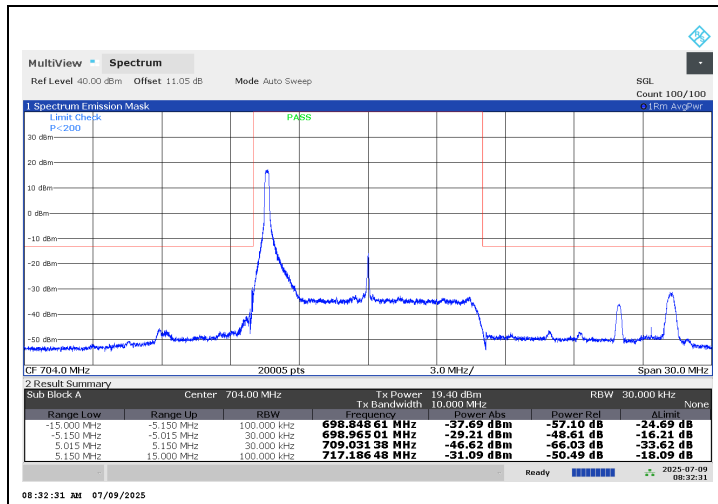
LTE12 5MHz QPSK HIGH Ch RB1-0



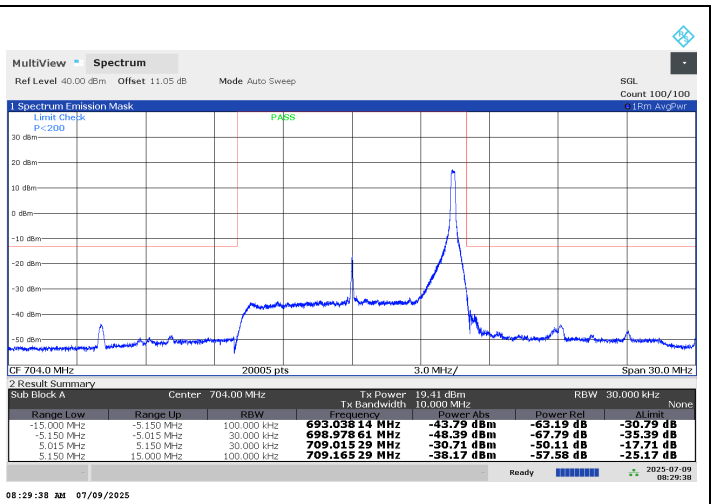
LTE12 5MHz QPSK HIGH Ch RB1-24



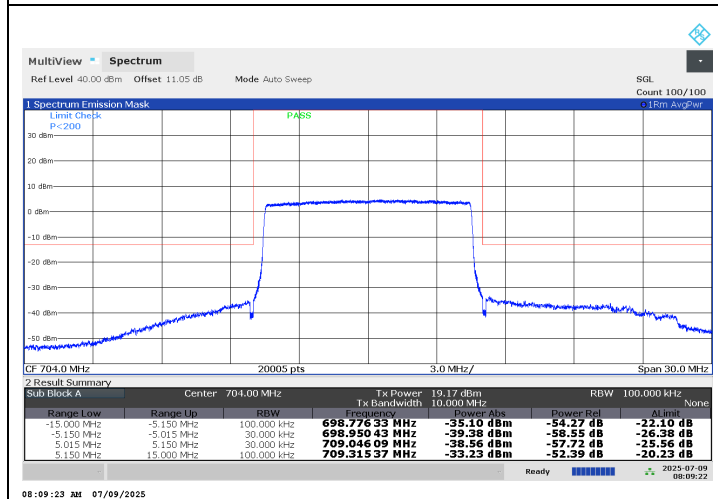
LTE12 5MHz QPSK HIGH Ch RB25-0



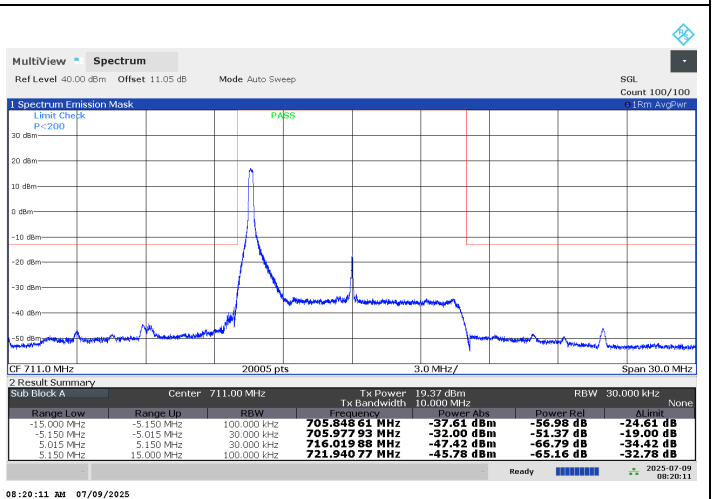
LTE12 10MHz QPSK LOW Ch RB1-0



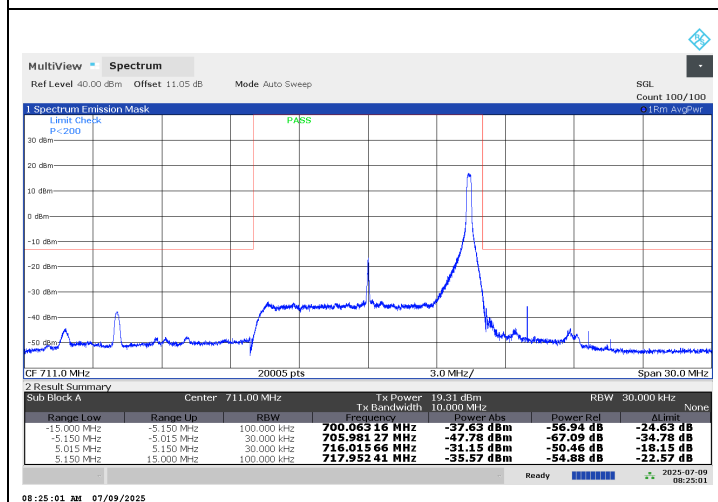
LTE12 10MHz QPSK LOW Ch RB1-49



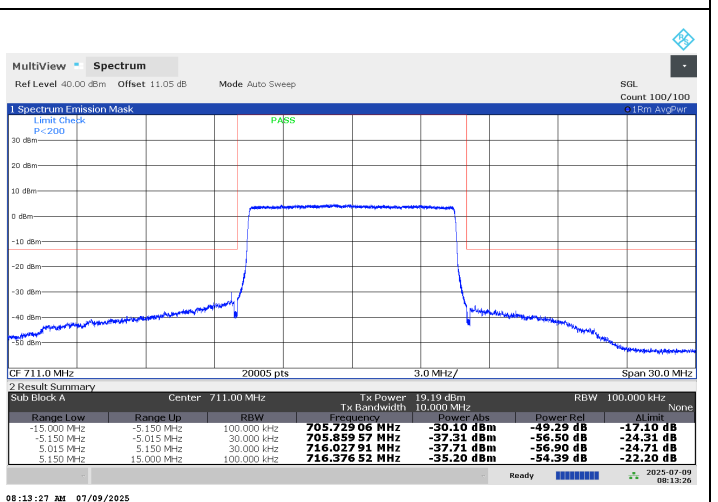
LTE12 10MHz QPSK LOW Ch RB50-0



LTE12 10MHz QPSK HIGH Ch RB1-0

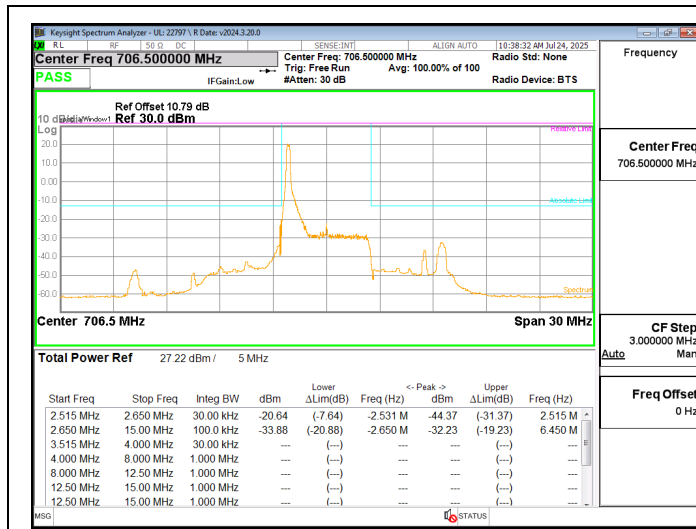


LTE12 10MHz QPSK HIGH Ch RB1-49

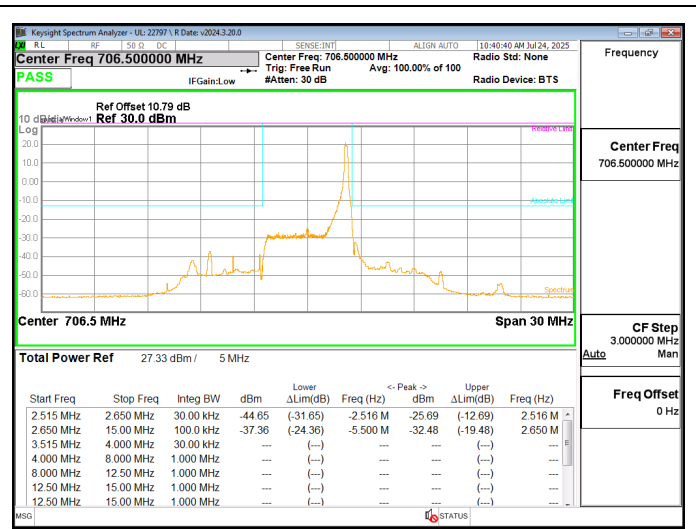


LTE12 10MHz QPSK HIGH Ch RB50-0

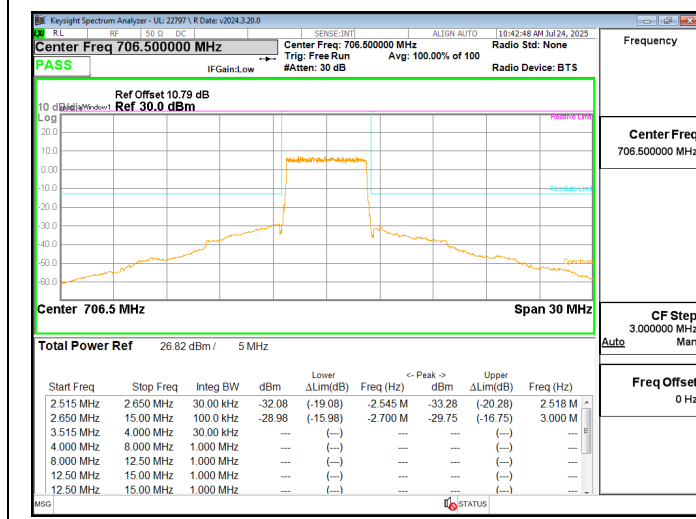
LTE BAND 17 (LOW CHANNEL)



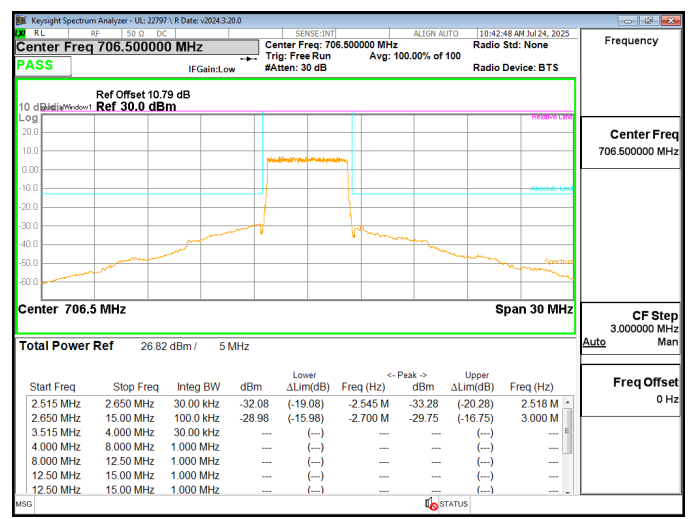
LTE17 5MHz QPSK LOW Ch RB1-0



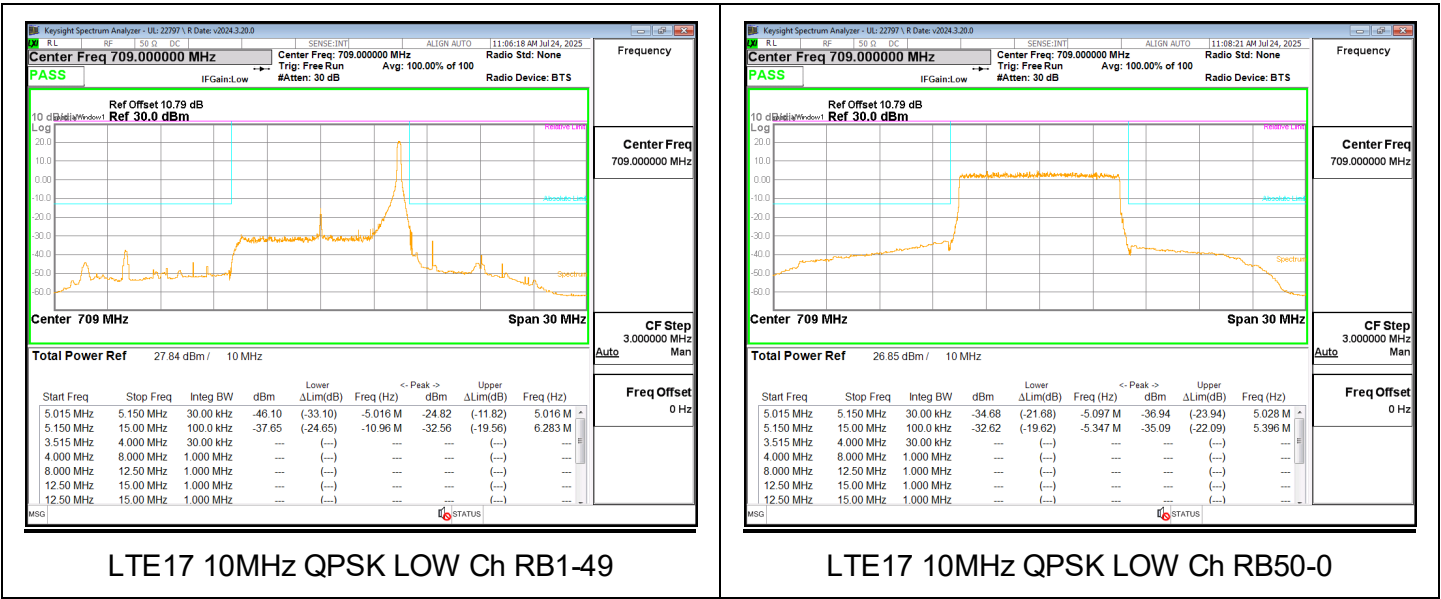
LTE17 5MHz QPSK LOW Ch RB1-24



LTE17 5MHz QPSK LOW Ch RB25-0



LTE17 10MHz QPSK LOW Ch RB1-0



9.4.8. LTE13

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;

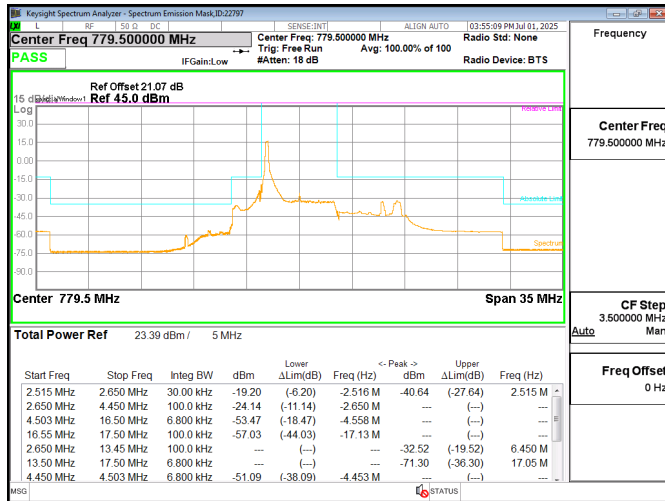
(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;

(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;

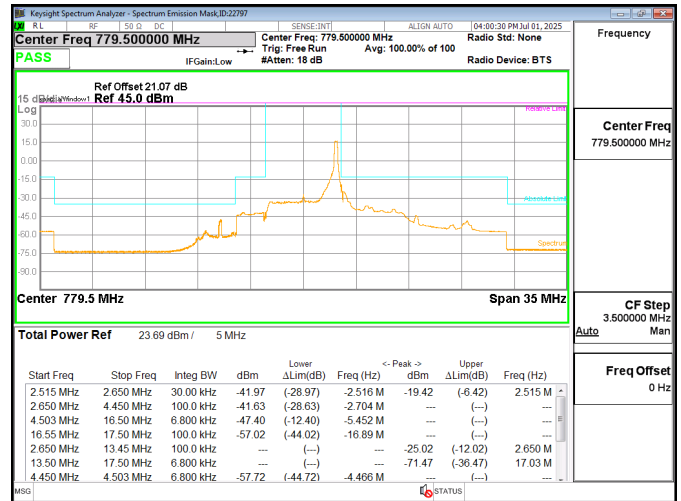
(6) Compliance with the provisions of paragraphs (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

(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).

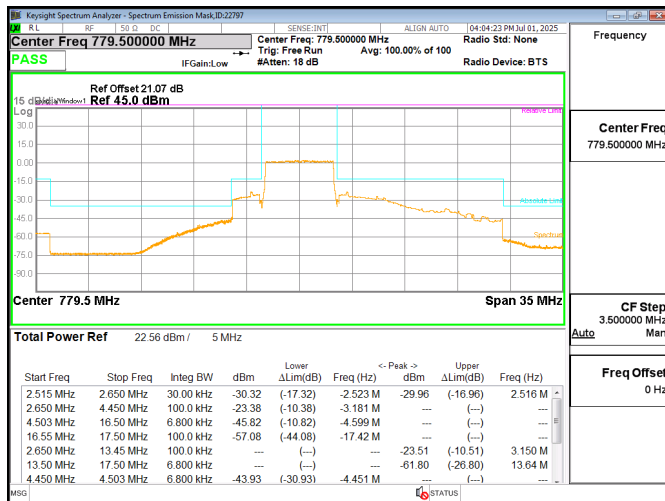
Note: Compliance to Part 27.53(6) was performed with an RBW of 6.8kHz instead of 6.25kHz RBW as worst-case. No corrections were applied.



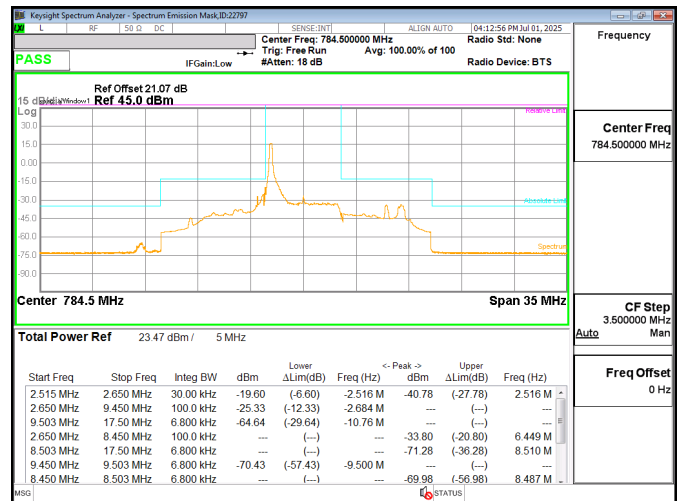
LTE13 5MHz QPSK LOW Ch RB1-0



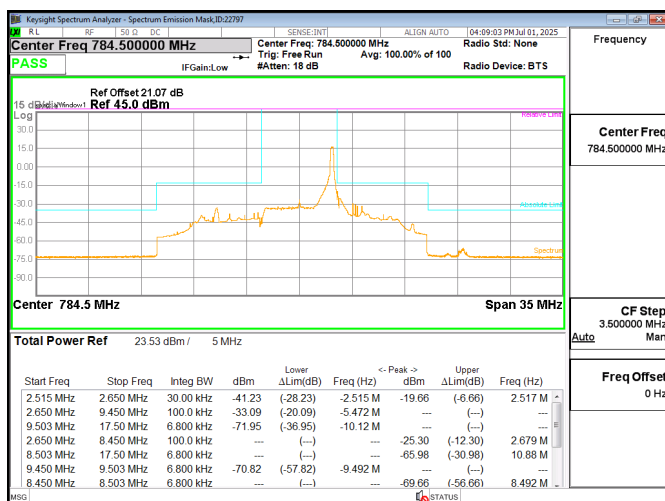
LTE13 5MHz QPSK LOW Ch RB1-24



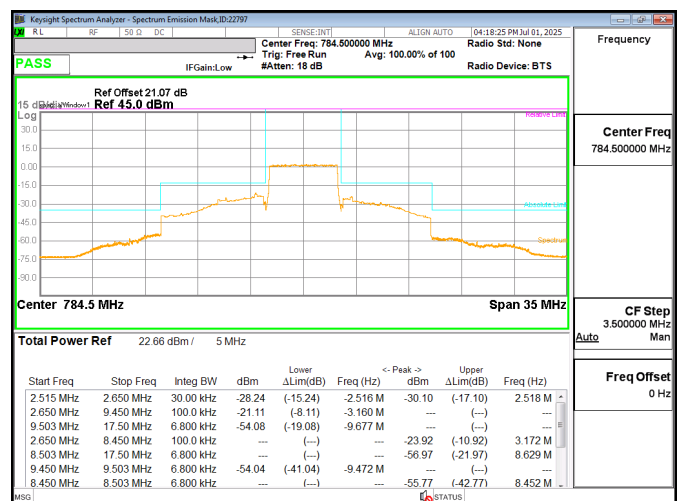
LTE13 5MHz QPSK LOW Ch RB25-0



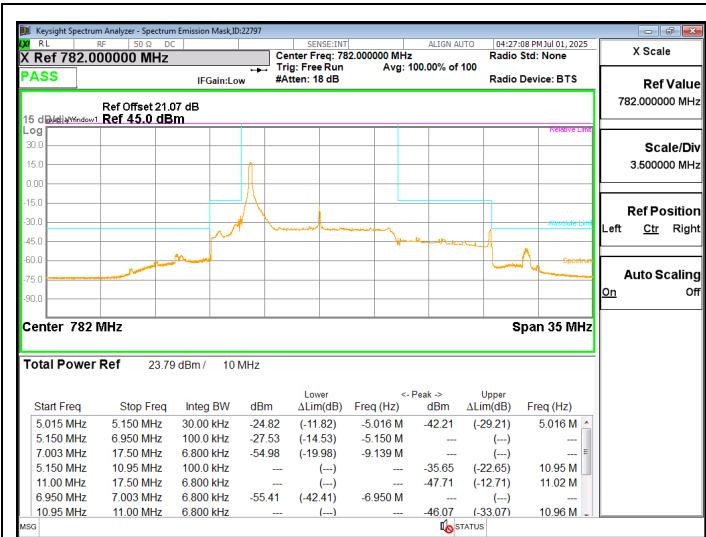
LTE13 5MHz QPSK HIGH Ch RB1-0



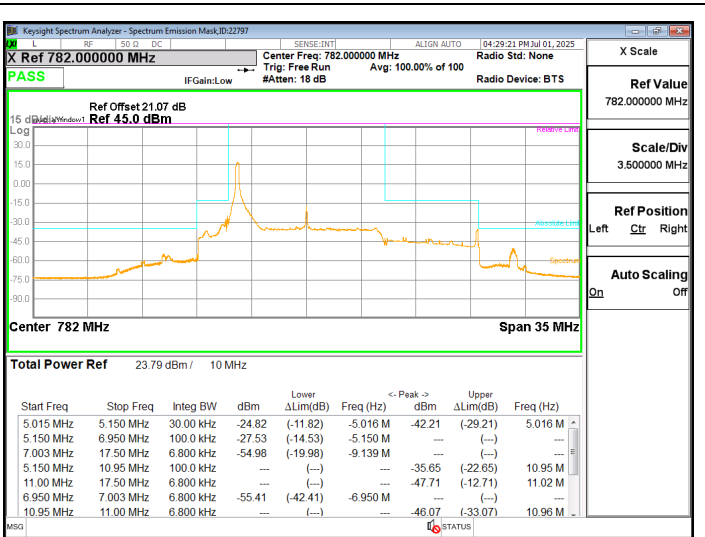
LTE13 5MHz QPSK HIGH Ch RB1-24



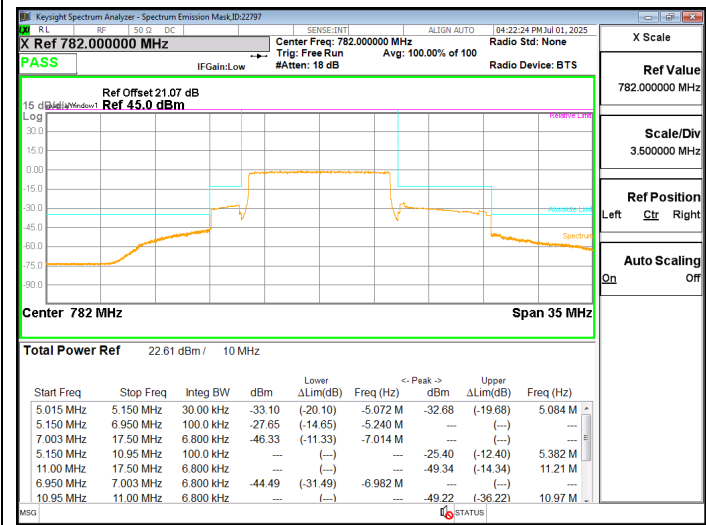
LTE13 5MHz QPSK HIGH Ch RB25-0



LTE13 10MHz QPSK MID Ch RB1-0



LTE13 10MHz QPSK MID Ch RB1-49



LTE13 10MHz QPSK MID Ch RB50-0

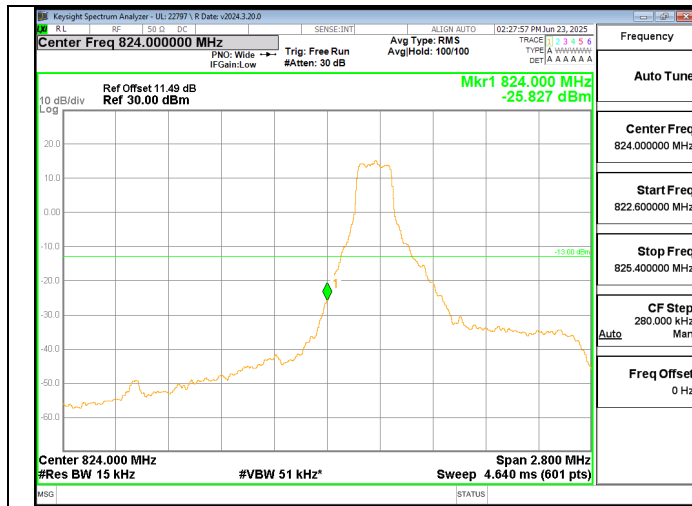


9.4.1. LTE26 (Part 22H)

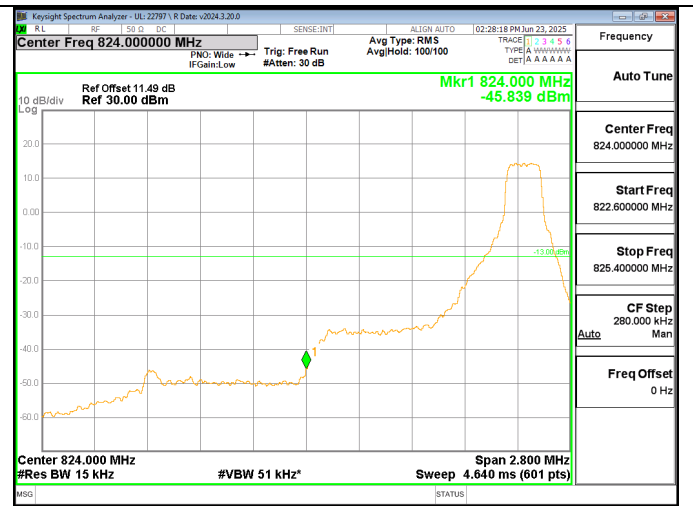
LIMITS

FCC: §22.917

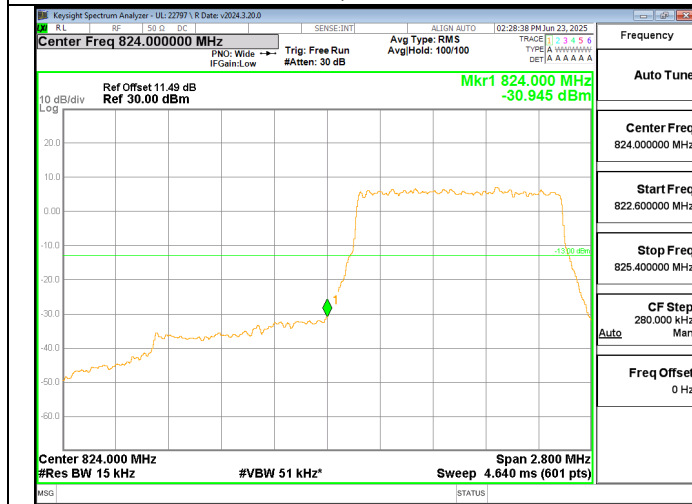
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.



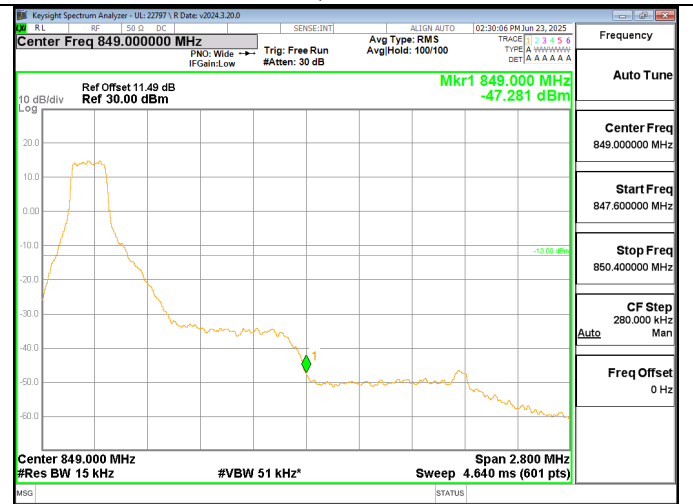
LTE26 1.4MHz QPSK LOW Ch RB1-0



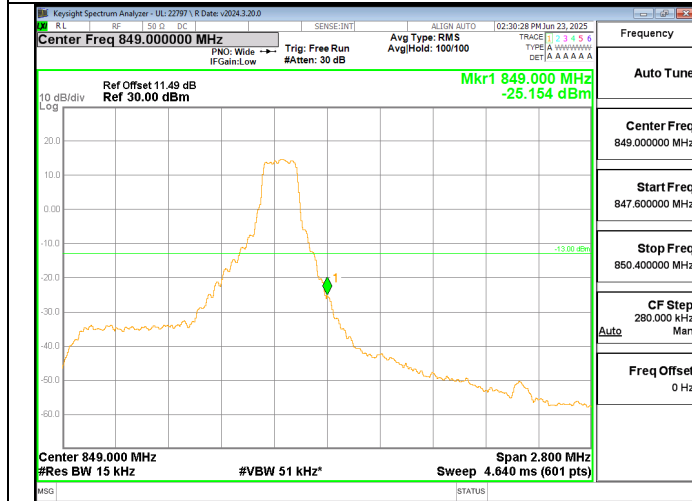
LTE26 1.4MHz QPSK LOW Ch RB1-5



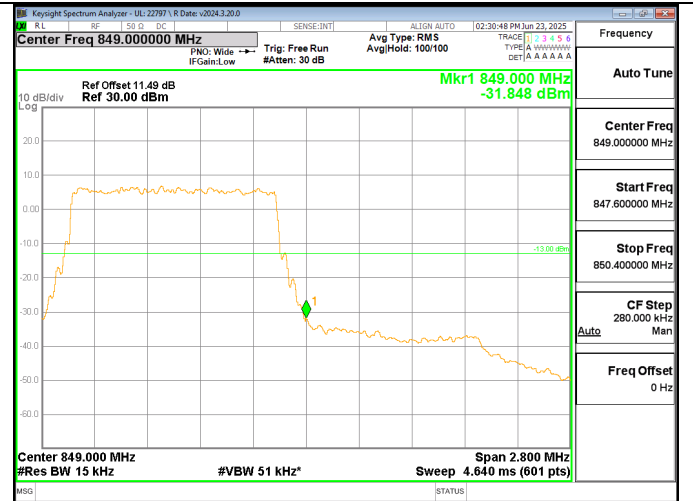
LTE26 1.4MHz QPSK LOW Ch RB6-0



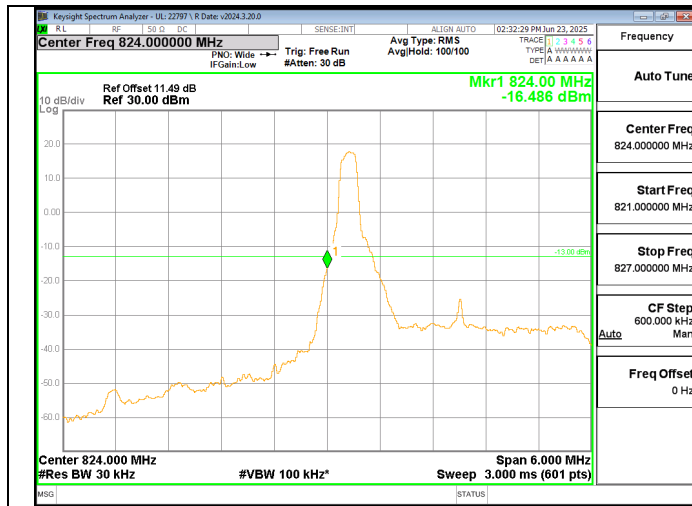
LTE26 1.4MHz QPSK HIGH Ch RB1-0



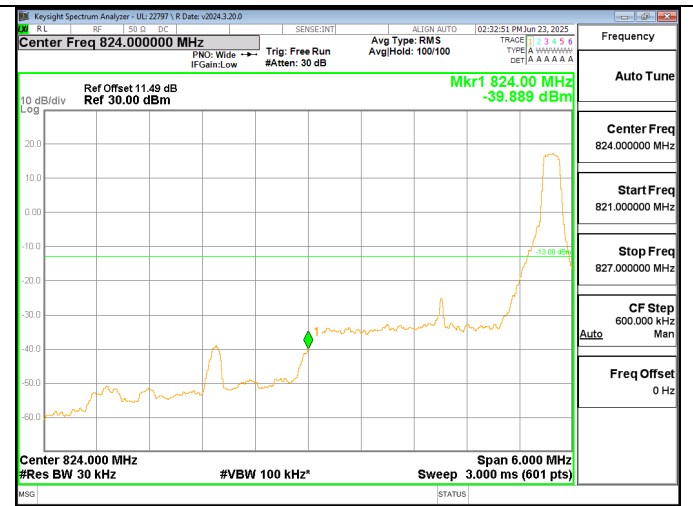
LTE26 1.4MHz QPSK HIGH Ch RB1-5



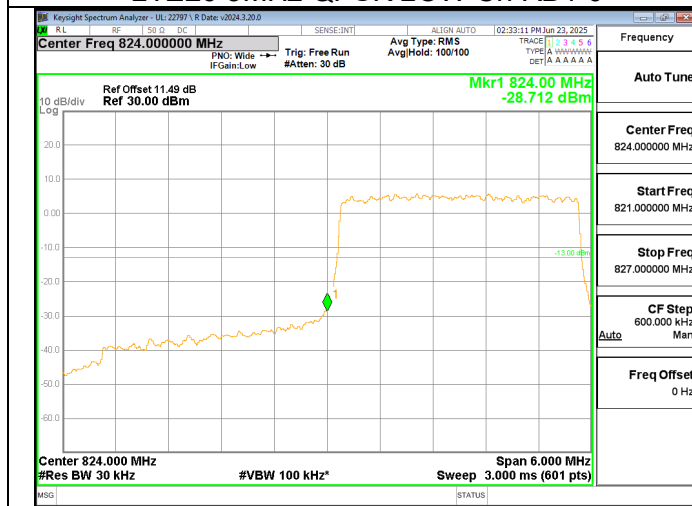
LTE26 1.4MHz QPSK HIGH Ch RB6-0



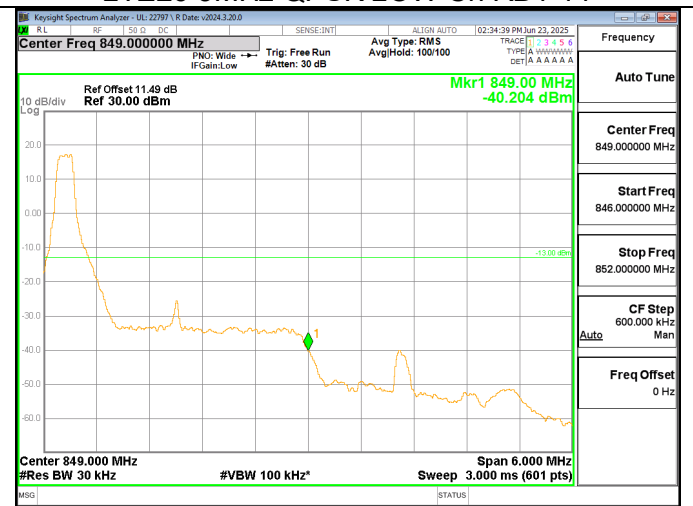
LTE26 3MHz QPSK LOW Ch RB1-0



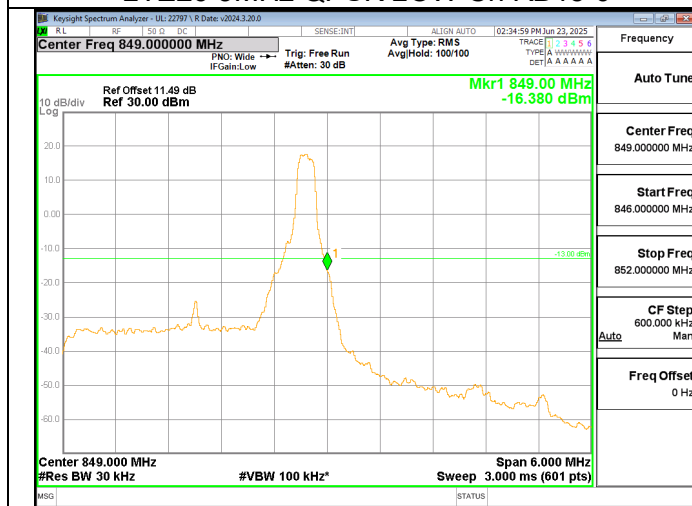
LTE26 3MHz QPSK LOW Ch RB1-14



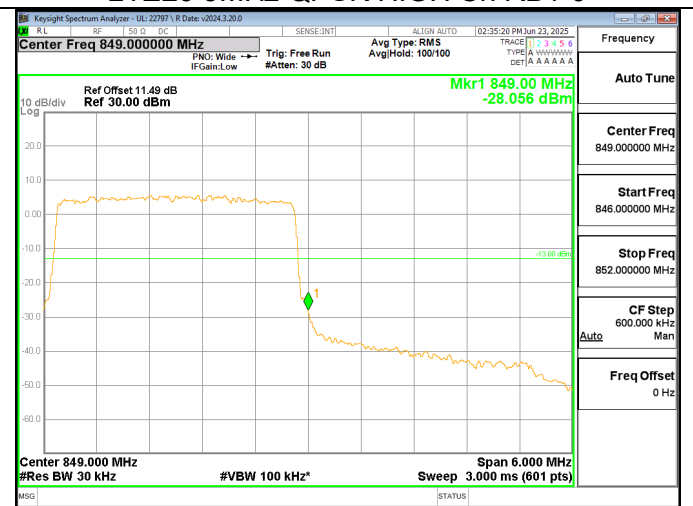
LTE26 3MHz QPSK LOW Ch RB15-0



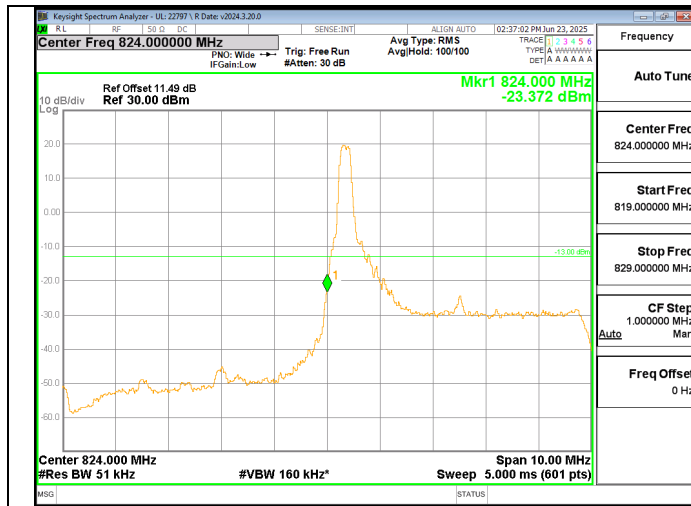
LTE26 3MHz QPSK HIGH Ch RB1-0



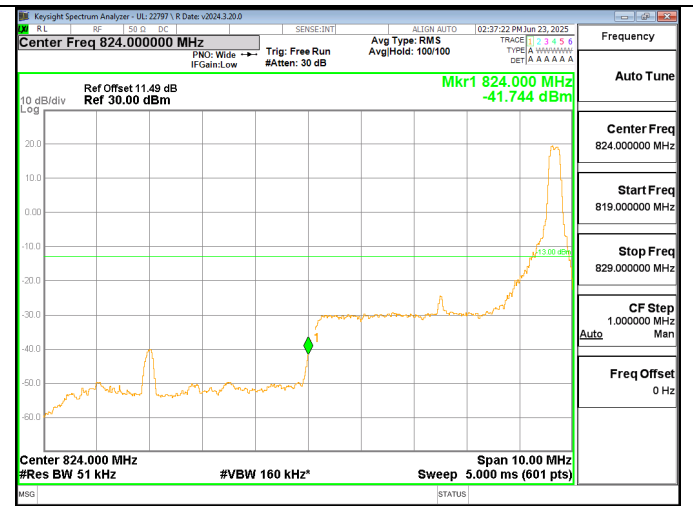
LTE26 3MHz QPSK HIGH Ch RB1-14



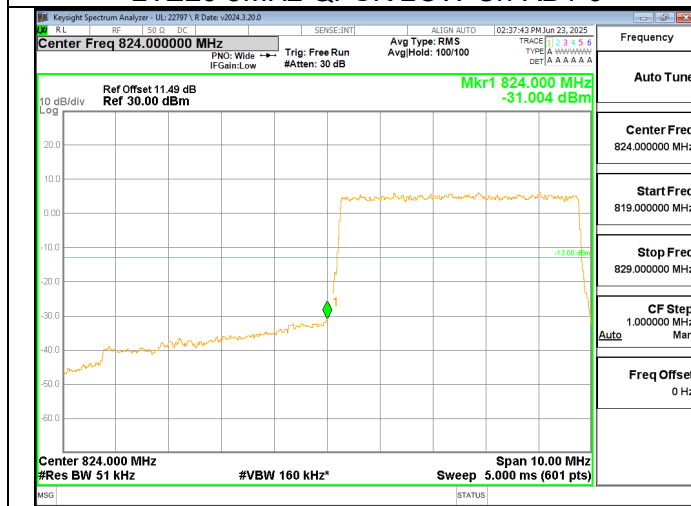
LTE26 3MHz QPSK HIGH Ch RB15-0



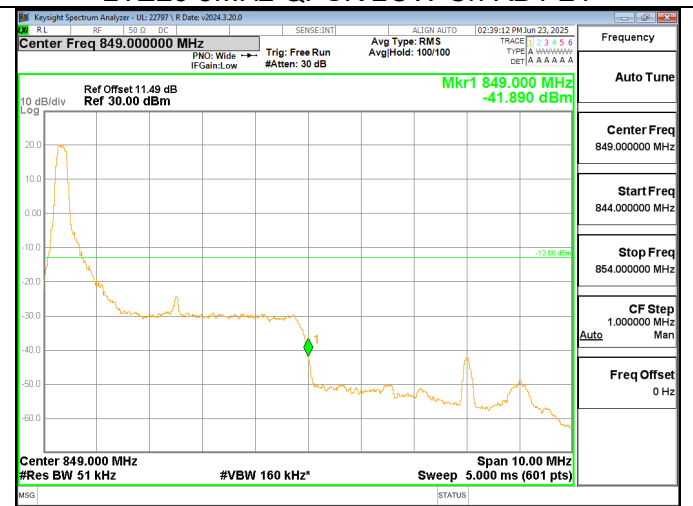
LTE26 5MHz QPSK LOW Ch RB1-0



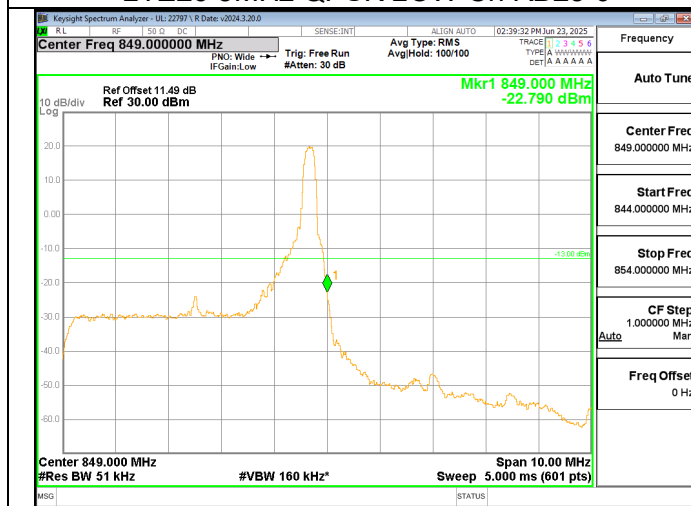
LTE26 5MHz QPSK LOW Ch RB1-24



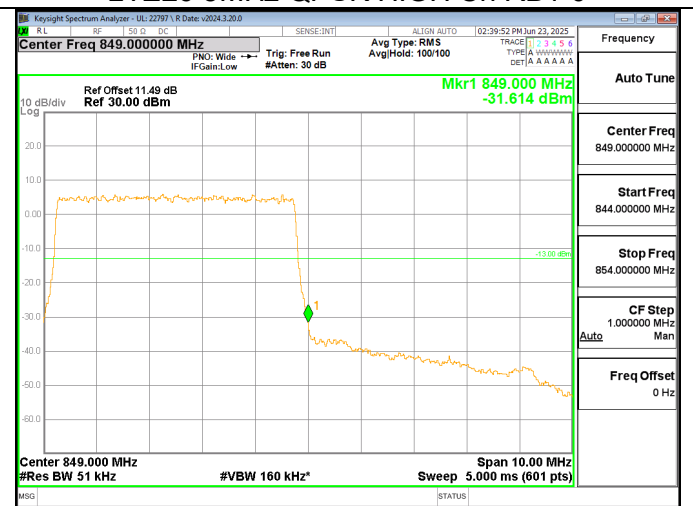
LTE26 5MHz QPSK LOW Ch RB25-0



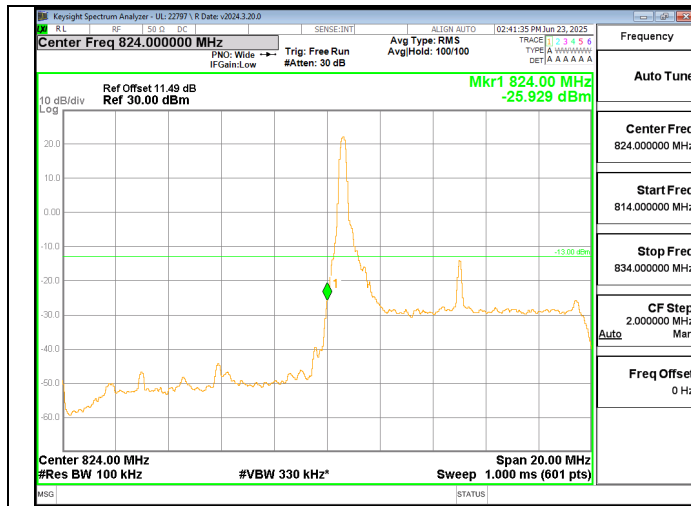
LTE26 5MHz QPSK HIGH Ch RB1-0



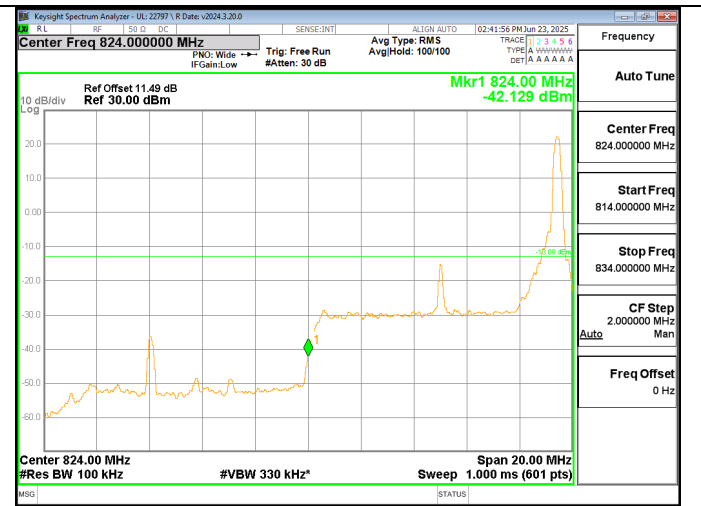
LTE26 5MHz QPSK HIGH Ch RB1-24



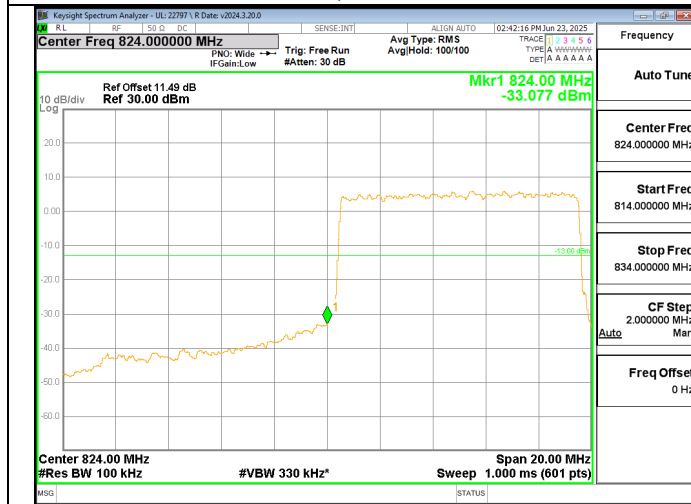
LTE26 5MHz QPSK HIGH Ch RB25-0



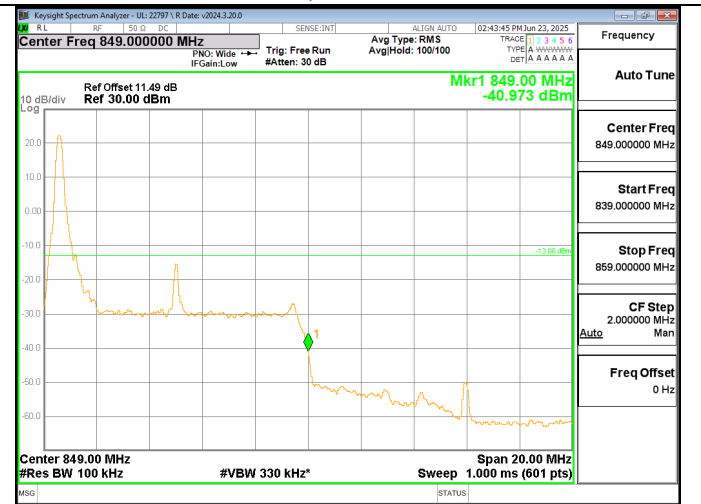
LTE26 10MHz QPSK LOW Ch RB1-0



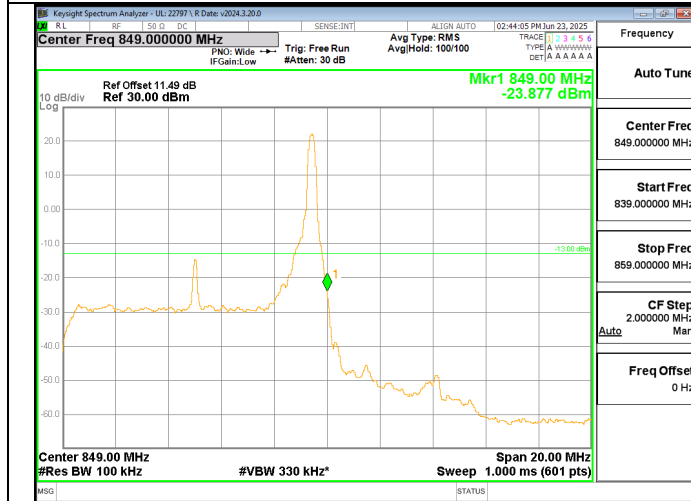
LTE26 10MHz QPSK LOW Ch RB1-49



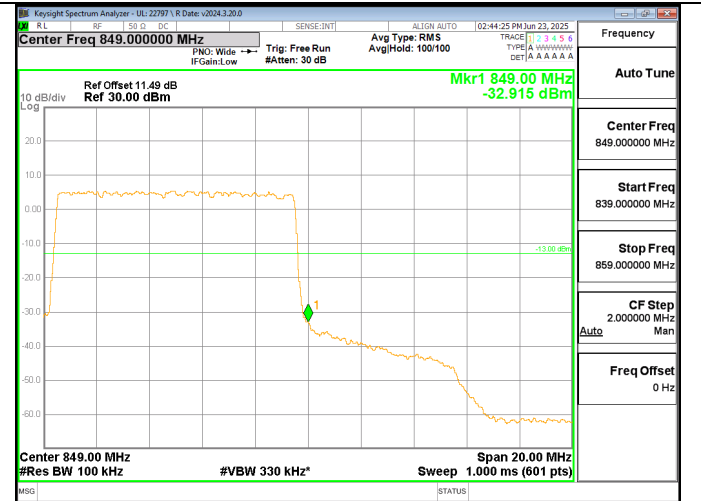
LTE26 10MHz QPSK LOW Ch RB50-0



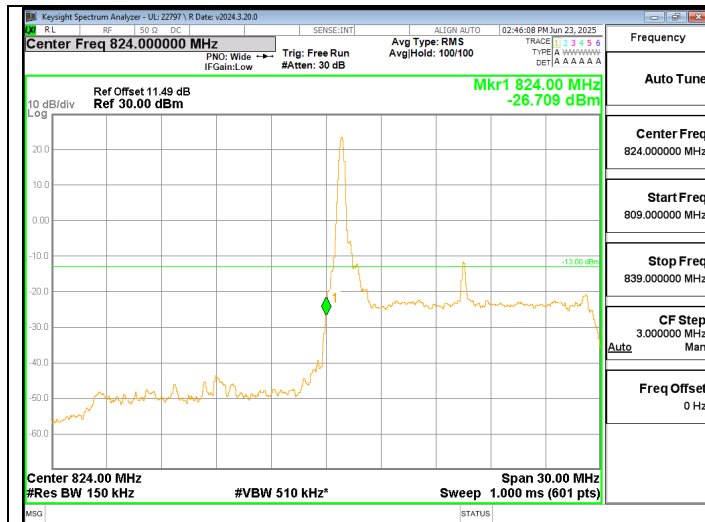
LTE26 10MHz QPSK HIGH Ch RB1-0



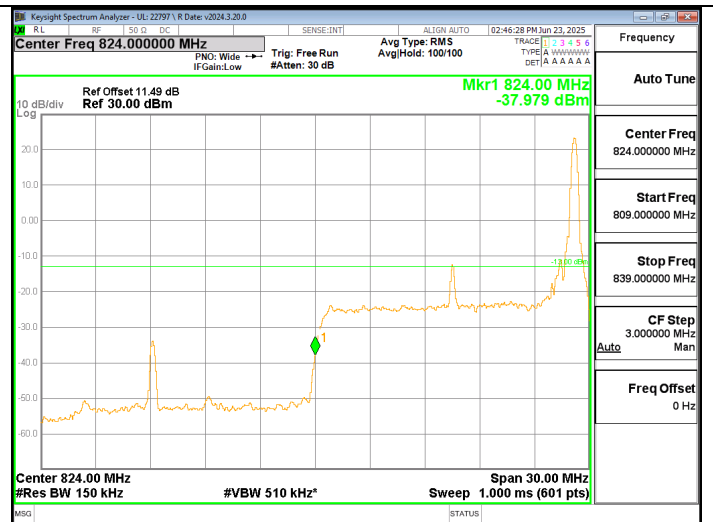
LTE26 10MHz QPSK HIGH Ch RB1-49



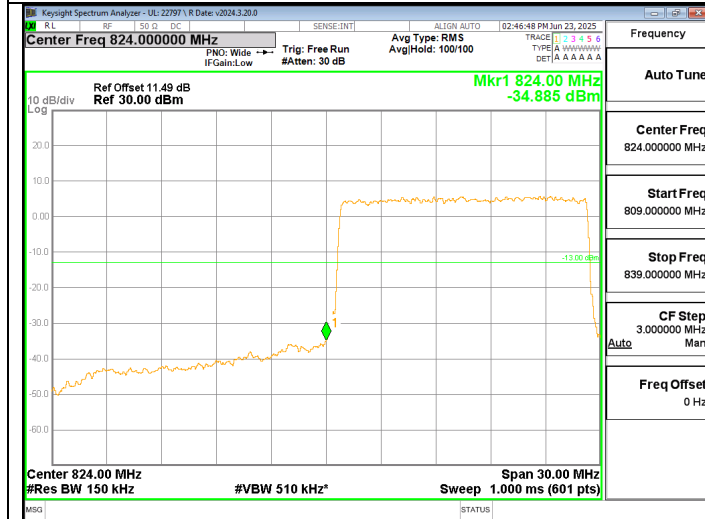
LTE26 10MHz QPSK HIGH Ch RB50-0



LTE26 15MHz QPSK Low CH RB1-0



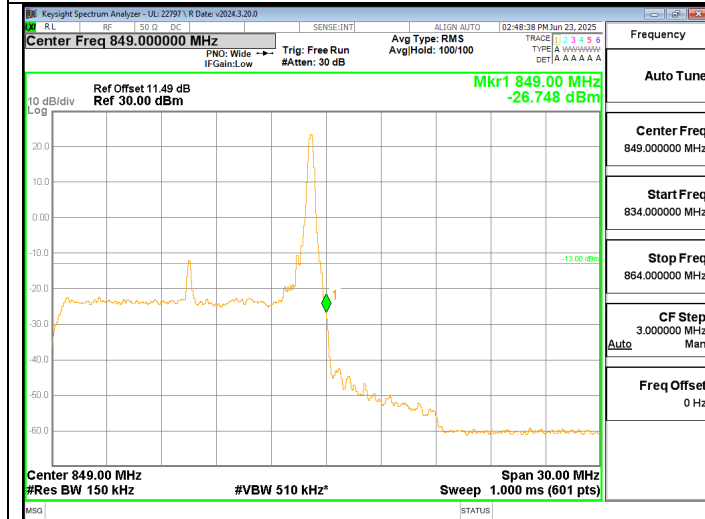
LTE26 15MHz QPSK Low CH RB1-74



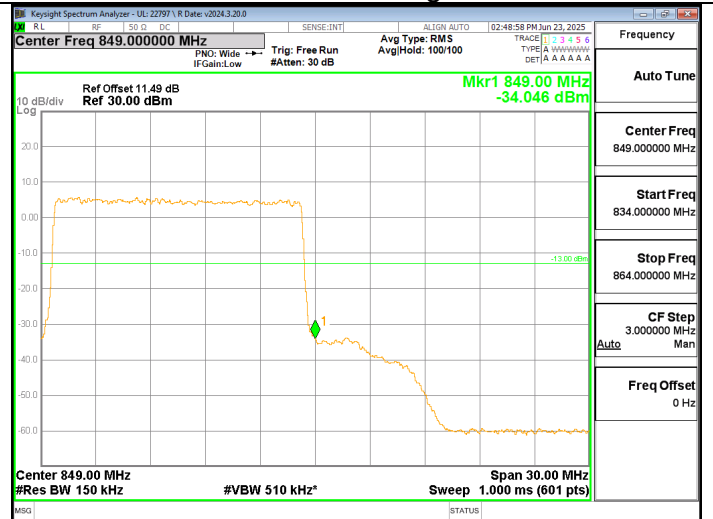
LTE26 15MHz QPSK Low CH RB75-0



LTE26 15MHz QPSK High CH RB1-0



LTE26 15MHz QPSK High CH RB1-74



LTE26 15MHz QPSK High CH RB75-0

9.4.1. LTE26 (Part 90S)

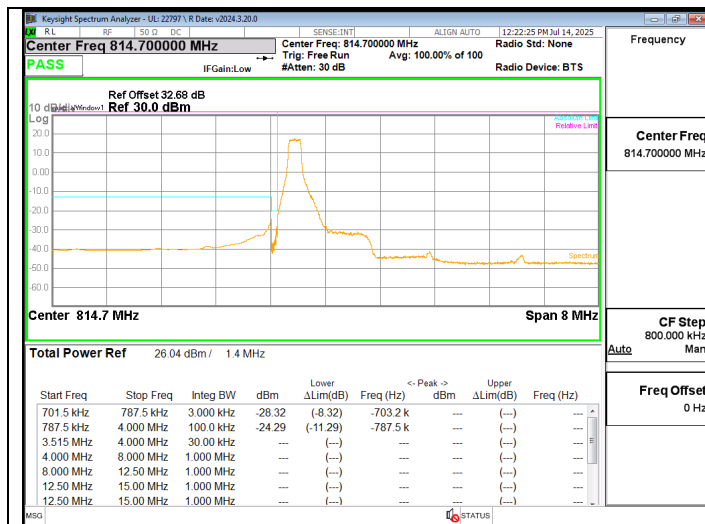
LIMITS

FCC: § 90.691 Emission mask requirements for EA-based systems.

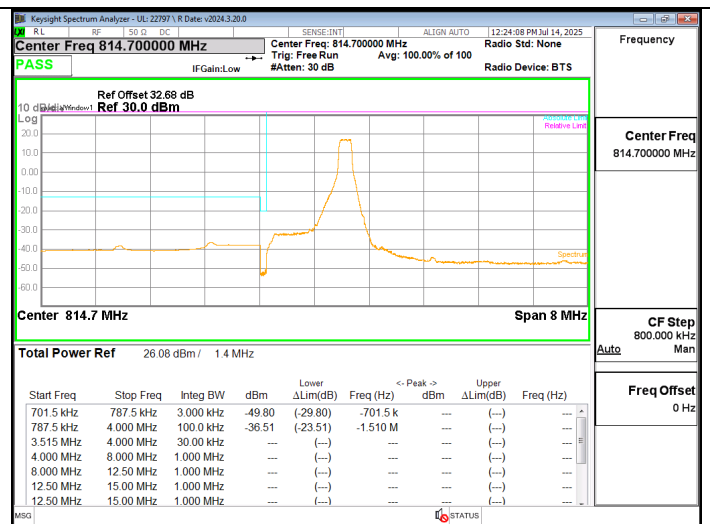
(a) Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(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 $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ 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.

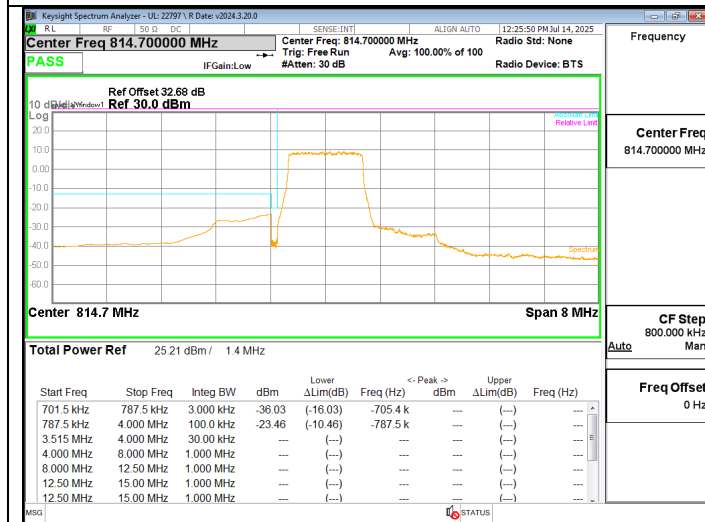
(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency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



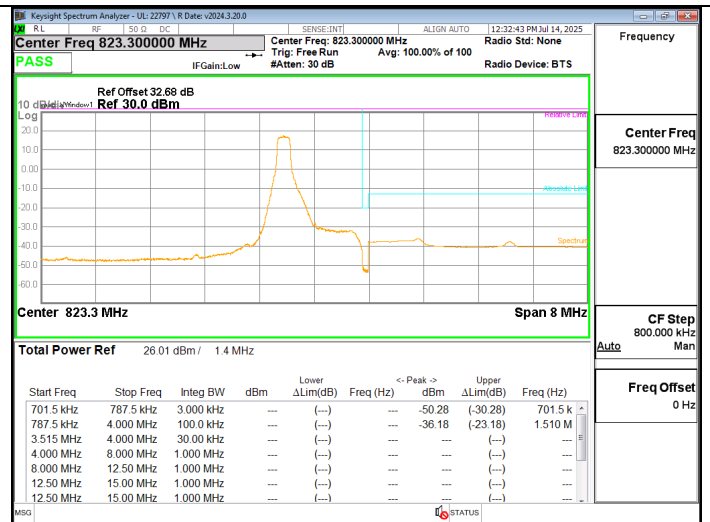
LTE26 1.4MHz QPSK LOW Ch RB1-0



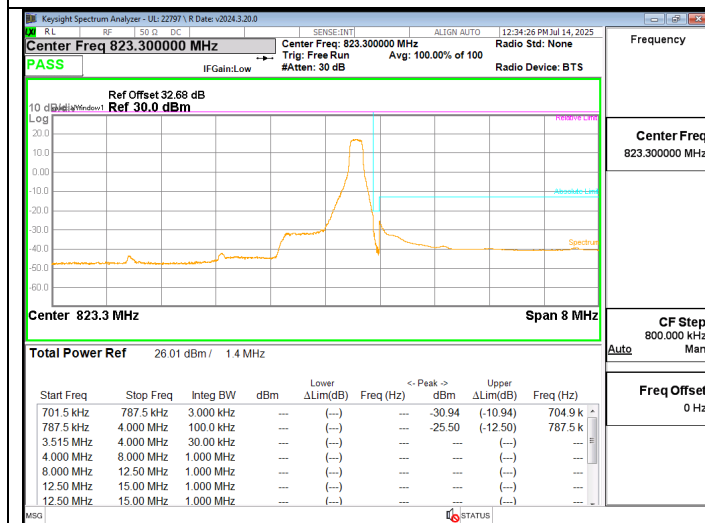
LTE26 1.4MHz QPSK LOW Ch RB1-5



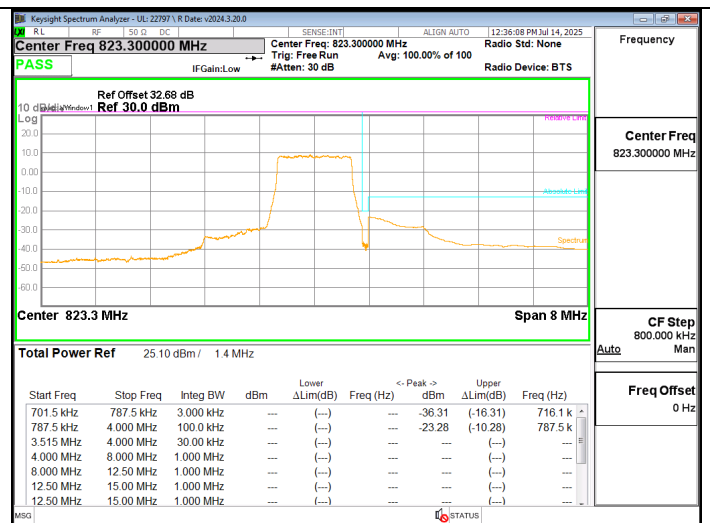
LTE26 1.4MHz QPSK LOW Ch RB6-0



LTE26 1.4MHz QPSK HIGH Ch RB1-0



LTE26 1.4MHz QPSK HIGH Ch RB1-5



LTE26 1.4MHz QPSK HIGH Ch RB6-0