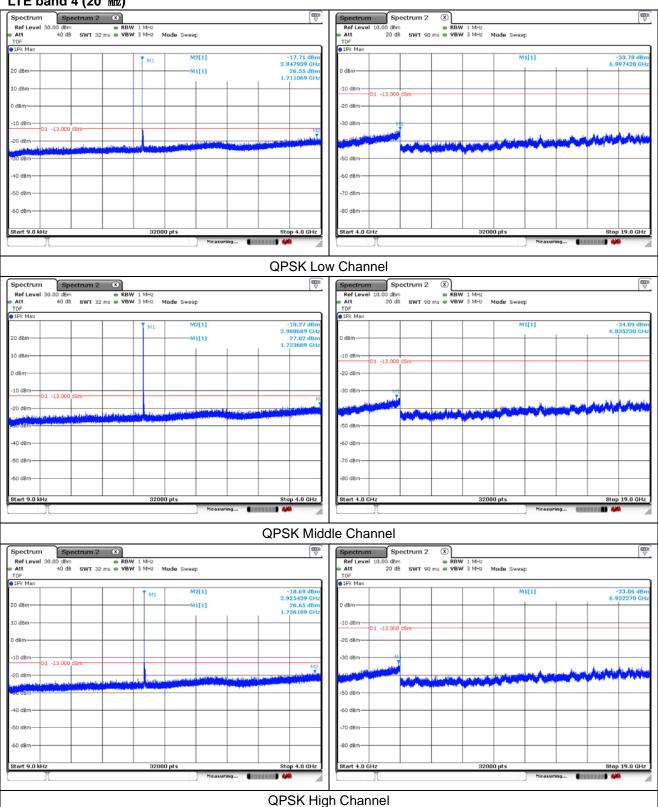


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LTE band 4 (20 Mb)

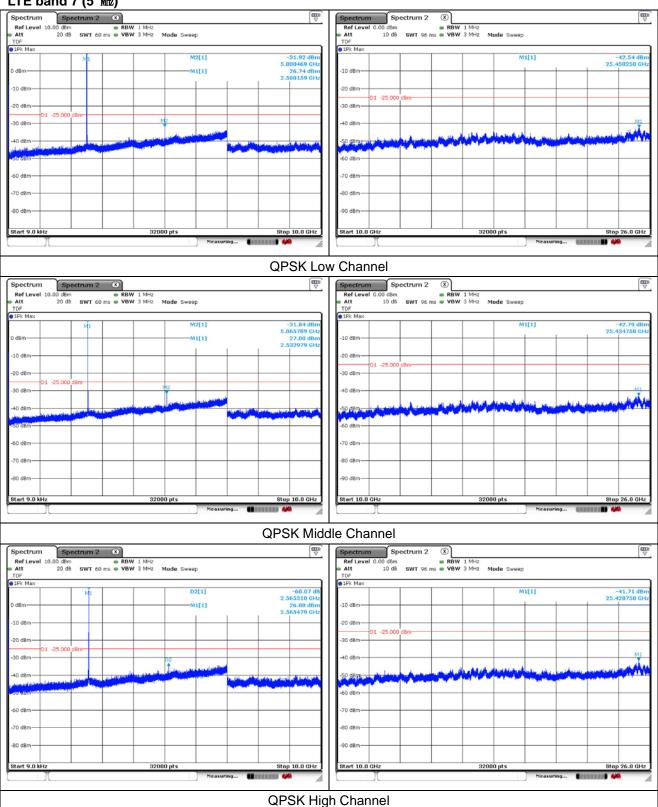




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LTE band 7 (5 11位)

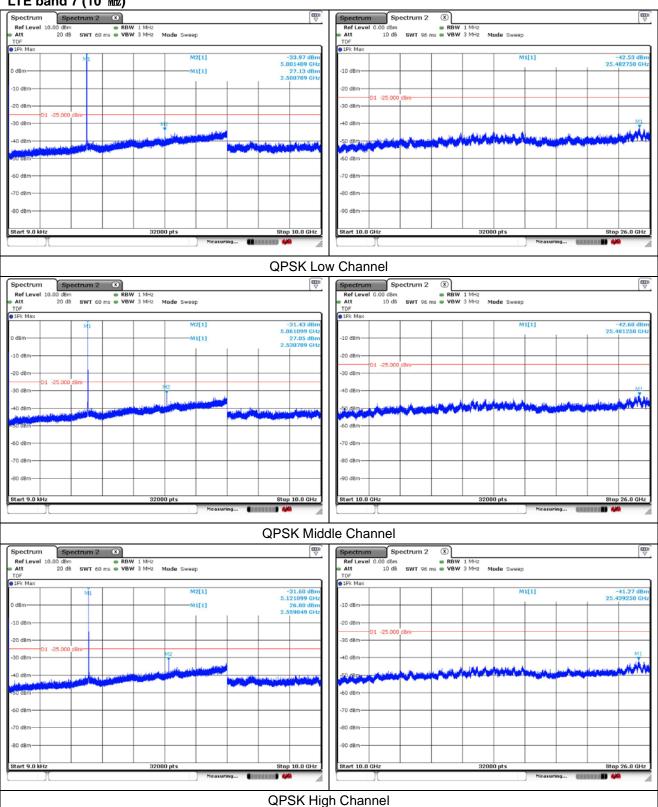




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LTE band 7 (10 11b)

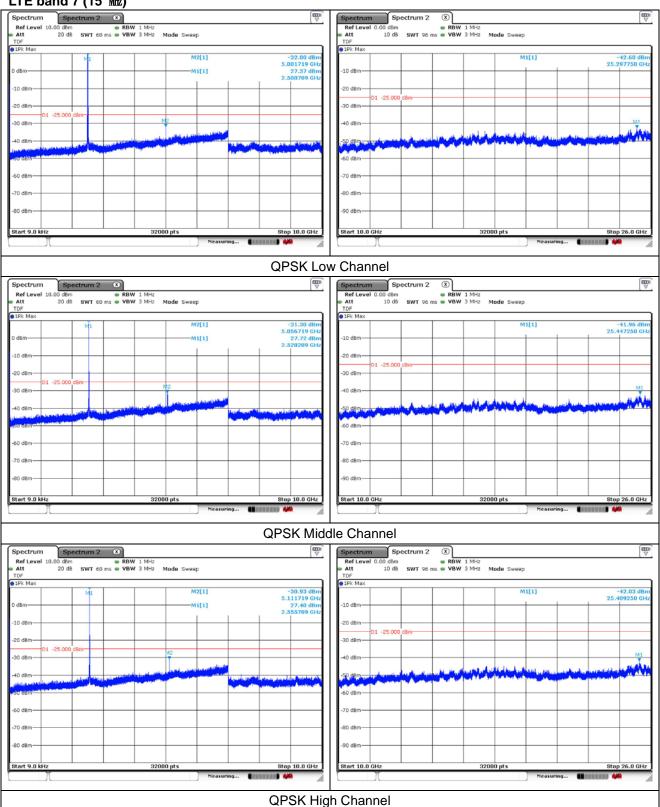




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LTE band 7 (15 11b)

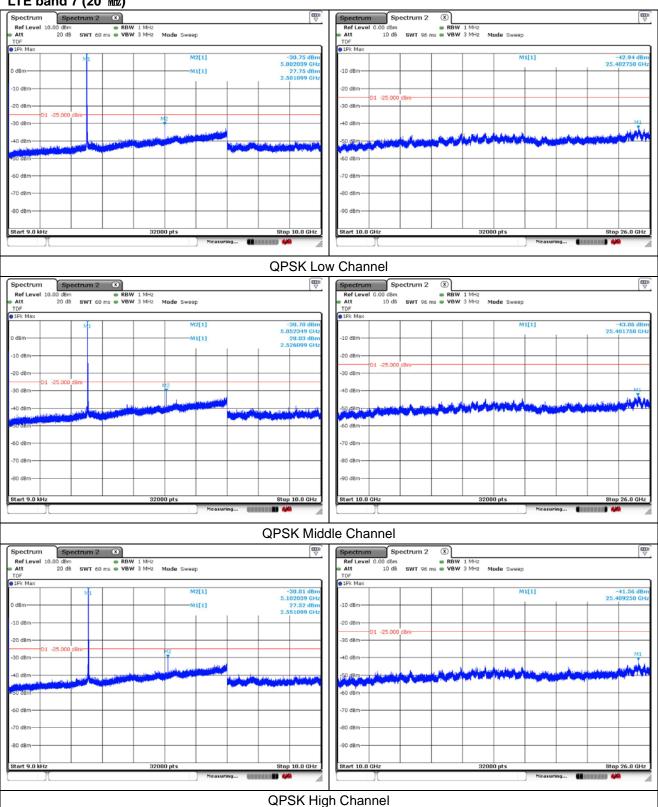




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LTE band 7 (20 11b)

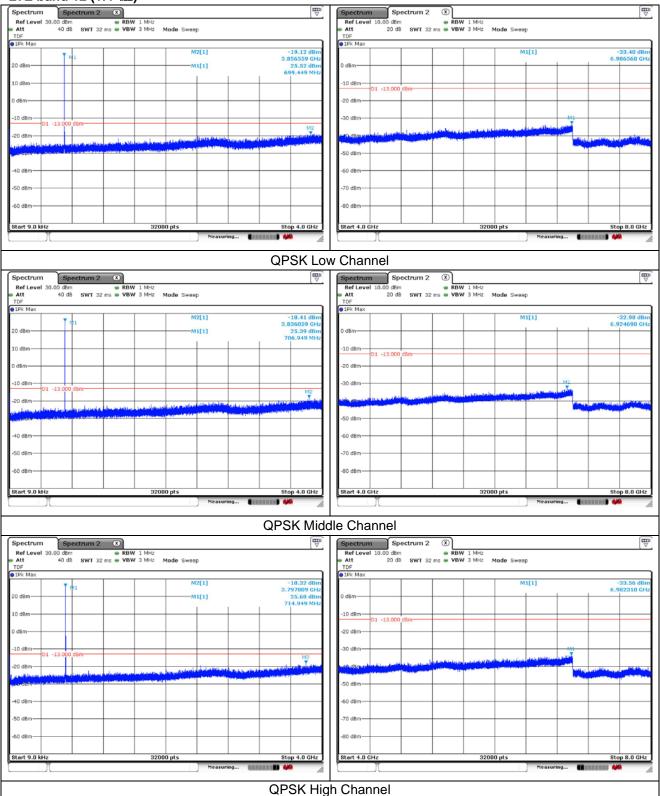




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LTE band 12 (1.4 脈)

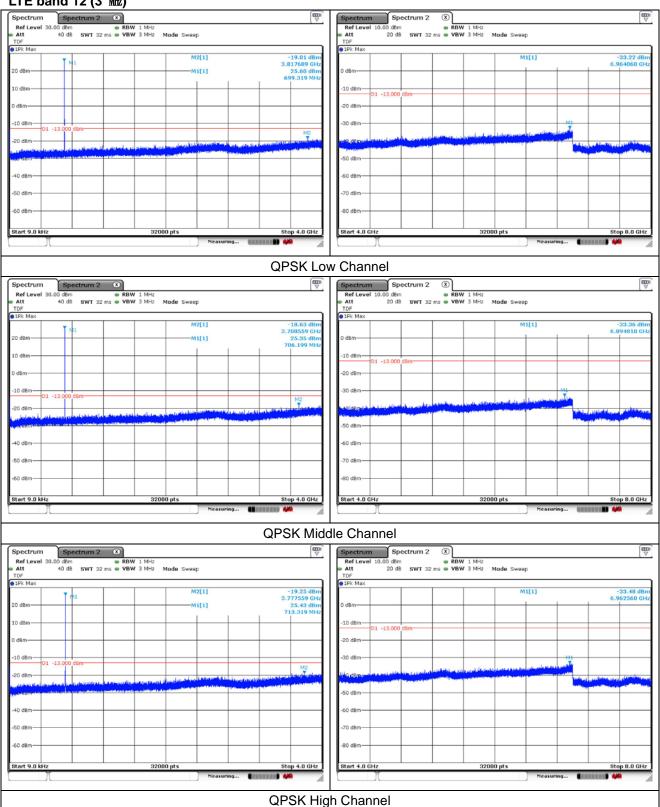




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LTE band 12 (3 账)

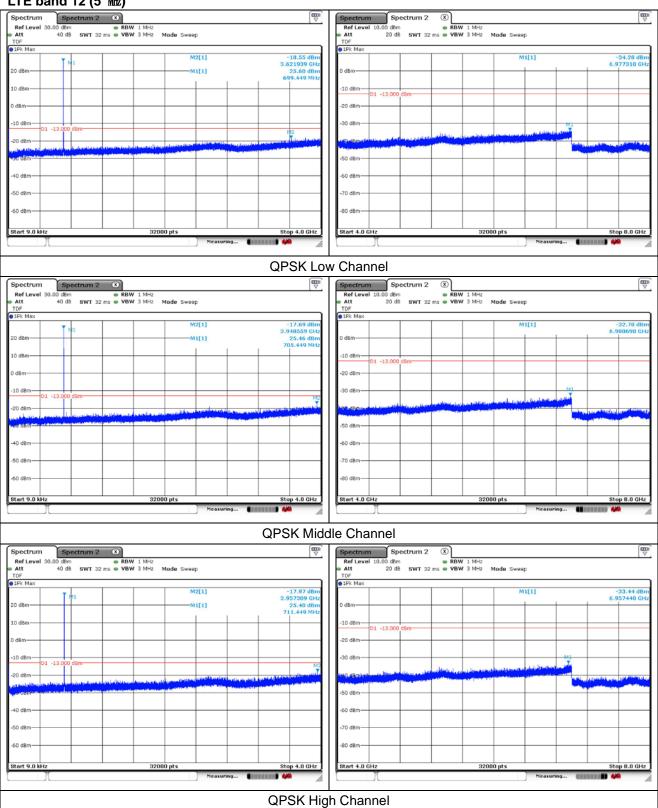




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LTE band 12 (5 账)

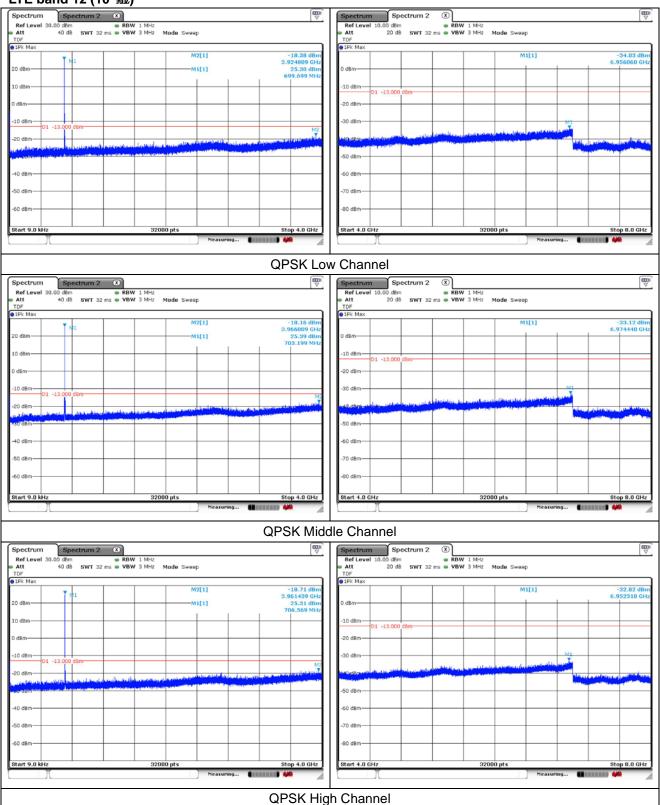




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LTE band 12 (10 Mb)

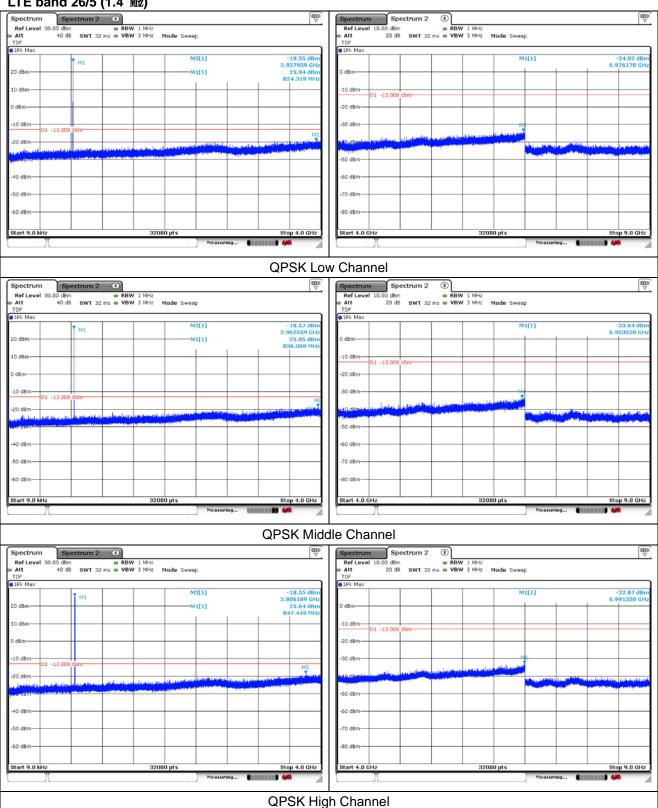




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LTE band 26/5 (1.4 账)

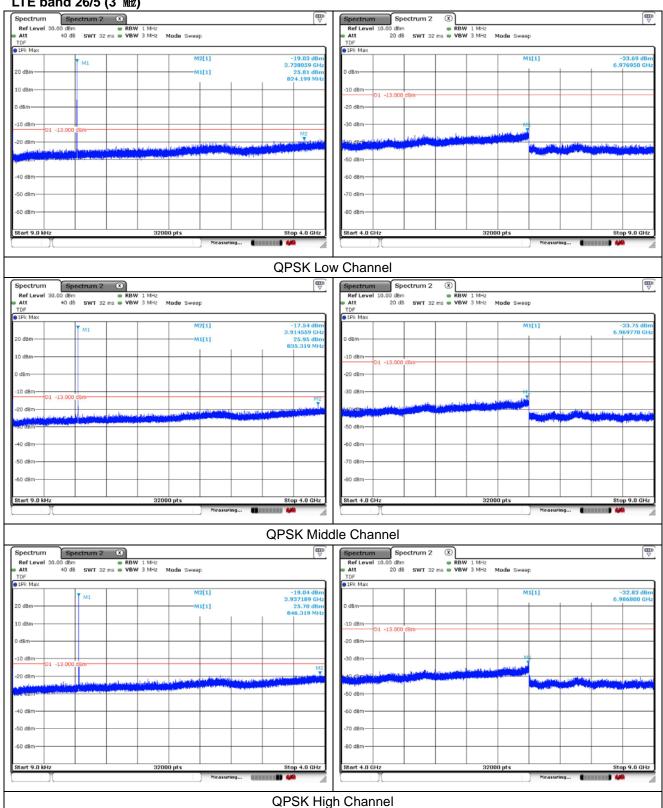




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LTE band 26/5 (3 账)

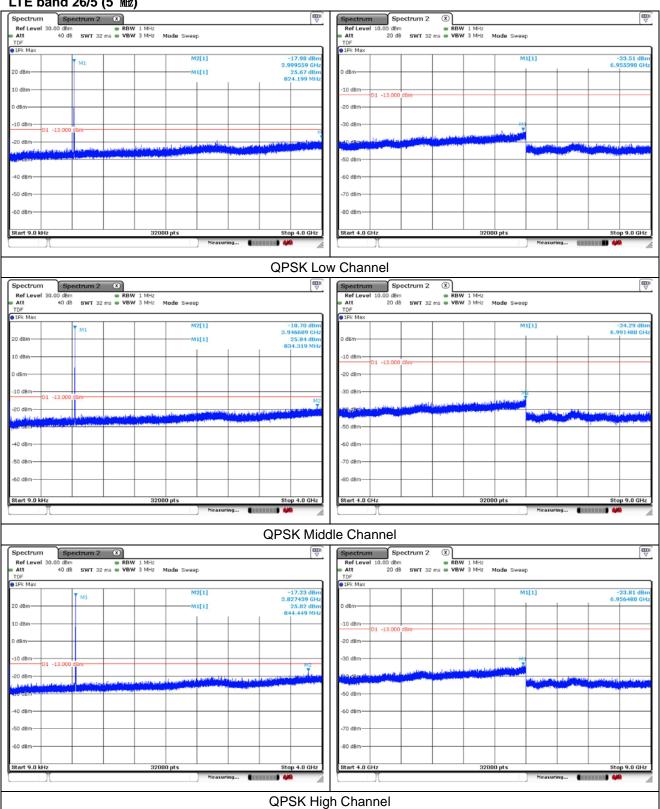




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LTE band 26/5 (5 账)

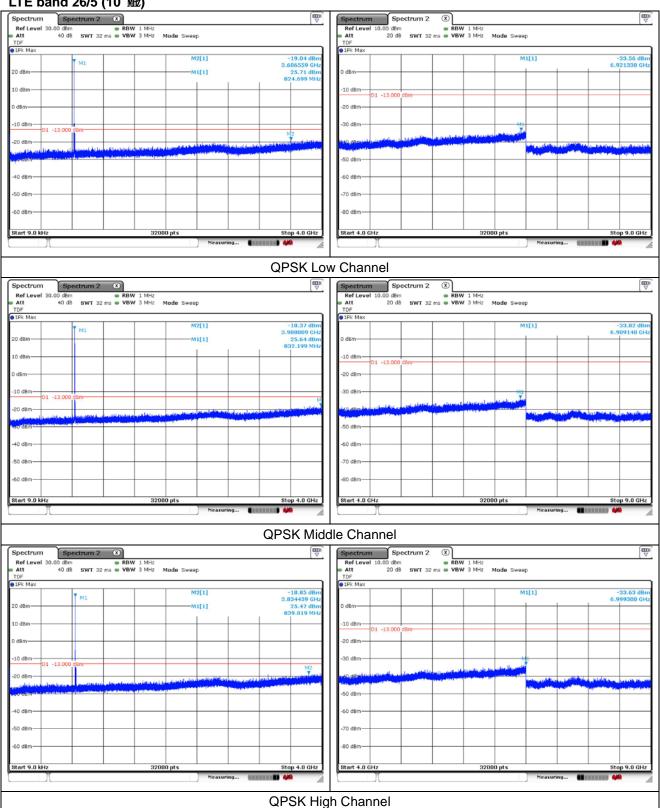




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LTE band 26/5 (10 账)

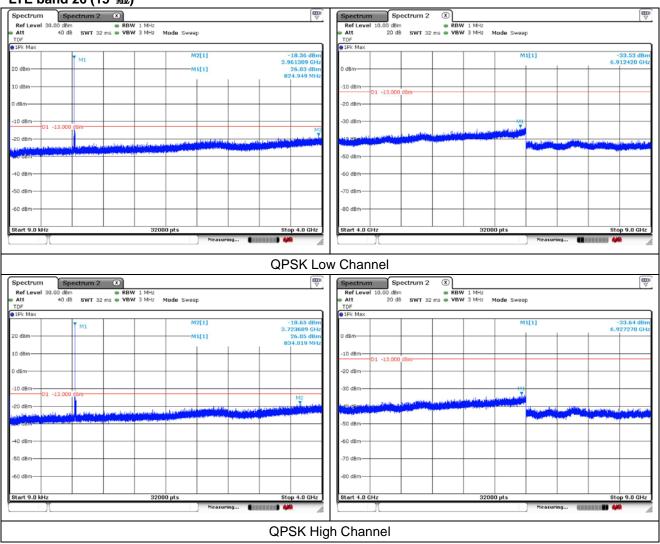




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LTE band 26 (15 Mb)





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7. Band Edge

7.1. Limit

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 + 10log(P) dB.
- §24.238(a), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.
- $\S27.53(g)$, 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.
- $\S27.53(h)(1)$, for operations in the 1 695-1 710 MHz, 1 710-1 755 MHz, 1 755-1 780 MHz, 1 915-1 920 MHz, 1 995-2 000 MHz, 2 000-2 020 MHz, 2 110-2 155 MHz, 2 155-2 180 MHz, and 2 180-2 200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10 log₁₀ (P) dB.
- $\S27.53(m)(4)$, For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log_{10}(P) \, dB$ on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log_{10}(P) \, dB$ on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log_{10}(P) \, dB$ on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that $43 + 10 \log_{10}(P) \, dB$ on all frequencies between 2490.5 Mb and 2496 Mb and 55 + 10 $\log_{10}(P) \, dB$ at or below 2490.5 Mb. Mobile Satellite Service licensees operating on frequencies below 2495 Mb 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.

IC

- RSS-130 Issue 2
- 4.7.1, the unwanted emissions in any 100 $\,\mathrm{kllz}\,$ bandwidth on any frequency outside the low frequency edge and the high frequency edge of each frequency block range(s), shall be attenuated below the transmitter power, P ($\,\mathrm{dB}\,$ W), by at least 43 + 10 $\,\mathrm{log_{10}}\,$ p (watts), $\,\mathrm{dB}.$ However, in the 100 $\,\mathrm{kllz}\,$ band immediately outside the equipment's operating frequency block range, a resolution bandwidth of 30 $\,\mathrm{kllz}\,$ may be employed.
- RSS-132 Issue 3
- 5.5, Mobile and base station equipment shall comply with the limits in (i) and (ii) below.
- (i) In the first 1.0 Mb band immediately outside and adjacent to each of the sub-bands specified in Section 5.1, the power of emissions per any 1 % of the occupied bandwidth shall be attenuated (in dB) below the transmitter output power P (dB W) by at least 43 + 10 log₁₀ p (watts).
- (ii) After the first 1.0 Mb immediately outside and adjacent to each of the sub-bands, the power of emissions in any 100 kb bandwidth shall be attenuated (in dB) below the transmitter output power P (dB W) by at least $43 + 10 \log_{10} p$ (watts). If the measurement is performed using 1 % of the occupied bandwidth, power integration over 100 kb is required.

RTT7081-02(2020.10.05)(0) $A4(210 \text{ mm} \times 297 \text{ mm})$



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- RSS-133 Issue 6

- 6.5, Equipment shall comply with the limits in (i) and (ii) below.
- (i) In the 1.0 Mb bands immediately outside and adjacent to the equipment's operating frequency block, the emission power per any 1 % of the emission bandwidth shall be attenuated (in dB) below the transmitter output power P (dB W) by at least 43 + 10 \log_{10} p(watts).
- (ii) After the first 1.0 Mb, the emission power in any 1 Mb bandwidth shall be attenuated (in dB) below the transmitter output power P (dB W) by at least 43 + 10 log₁₀ p(watts). If the measurement is performed using 1 % of the emission bandwidth, power integration over 1.0 Mb is required.

- RSS-139 Issue 3

- 6.6, (i) In the first 1.0 Mb bands immediately outside and adjacent to the equipment's smallest operating frequency block, which can contain the equipment's occupied bandwidth, the emission power per any 1 % of the emission bandwidth shall be attenuated below the transmitter output power P (in dB W) by at least 43 + $10 \log_{10} p$ (watts) dB.
- (ii) After the first 1.0 \pm outside the equipment's smallest operating frequency block, which can contain the equipment's occupied bandwidth, the emission power in any 1 \pm bandwidth shall be attenuated below the transmitter output power P (in dB W) by at least 43 + 10 log₁₀ p (watts) dB.

- RSS-199 Issue 3

4.5, In the 1 Mb band immediately outside and adjacent to the channel edge, the unwanted emission power shall be measured with a resolution bandwidth of at least 1% of the occupied bandwidth for base station and fixed subscriber equipment, and 2% for mobile subscriber equipment. Beyond the 1 Mb band, a resolution bandwidth of 1 Mb shall be used. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full required measurement bandwidth of 1 Mb, or 1% or 2% of the occupied bandwidth, as applicable.

Equipment shall comply with the following unwanted emission limits:

- a. for base station and fixed subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least 43 + 10 \log_{10} p
- b. for mobile subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least:
 - i. $40 + 10 \log_{10} p$ from the channel edges to 5 Mb away
 - ii. 43 + 10 \log_{10} p between 5 Mb and X Mb from the channel edges, and
 - iii. 55 + 10 log₁₀ p at X № and beyond from the channel edges

In addition, the attenuation shall not be less than 43 + 10 \log_{10} p on all frequencies between 2490.5 Mb and 2496 Mb, and 55 + 10 \log_{10} p at or below 2490.5 Mb.

In (a) and (b), **p** is the transmitter power measured in watts and **X** is 6 Mb or the equipment occupied bandwidth, whichever is greater.

RTT7081-02(2020.10.05)(0) $A4(210 \text{ mm} \times 297 \text{ mm})$



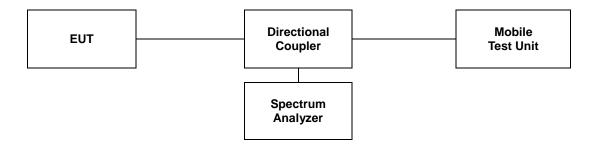
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7.2. Test Procedure

The test follows section 5.7 of ANSI C63.26-2015.

- a. Span was set large enough so as to capture all out of band emissions near the band edge.
- b. RBW ≥ 1 % of OBW
- c. VBW \geq 3 x RBW.
- d. Detector = RMS.
- e. Trace mode = Average.
- f. Sweep time = Auto.
- g. The trace was allowed to stabilize.
- h. All path loss of frequency range was investigated and compensated to spectrum analyzer as TDF function.





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7.3. Test Results

Ambient temperature : (23 \pm 1) $^{\circ}$ C Relative humidity : 47 $^{\circ}$ R.H.

- Test plots

LTE band 2 (1.4 1版)

