



Plot 7-33. Occupied Bandwidth Plot (NR Band n5 - 10MHz 16-QAM - Full RB Configuration)



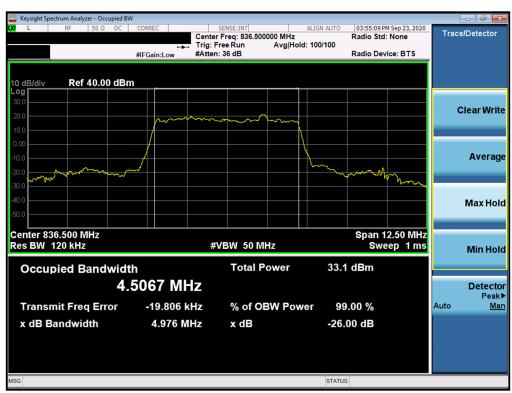
Plot 7-34. Occupied Bandwidth Plot (NR Band n5 - 10MHz 64-QAM - Full RB Configuration)

FCC ID: A3LSMG996U	Proceed to be part of a element	PART 22 MEASUREMENT REPORT	UNG	Approved by: Quality Manager
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Plot 7-35. Occupied Bandwidth Plot (NR Band n5 - 10MHz 256-QAM - Full RB Configuration)



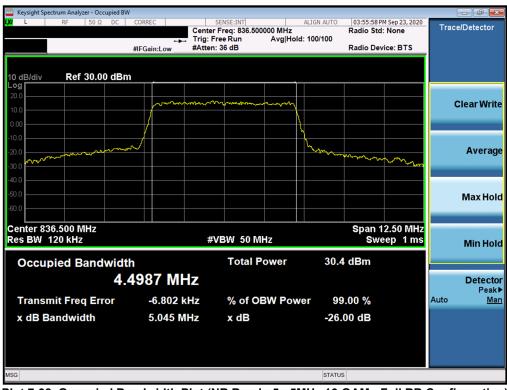
Plot 7-36. Occupied Bandwidth Plot (NR Band n5 - 5MHz π/2 BPSK - Full RB Configuration)

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Plot 7-37. Occupied Bandwidth Plot (NR Band n5 - 5MHz QPSK - Full RB Configuration)



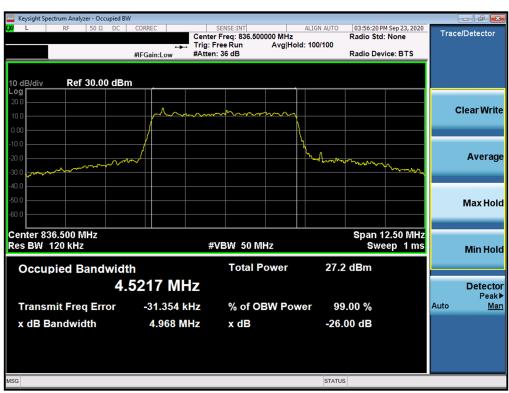
Plot 7-38. Occupied Bandwidth Plot (NR Band n5 - 5MHz 16-QAM - Full RB Configuration)

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Plot 7-39. Occupied Bandwidth Plot (NR Band n5 - 5MHz 64-QAM - Full RB Configuration)



Plot 7-40. Occupied Bandwidth Plot (NR Band n5 - 5MHz 256-QAM - Full RB Configuration)

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GPRS Cell



Plot 7-41. Occupied Bandwidth Plot (GPRS, Ch. 190)

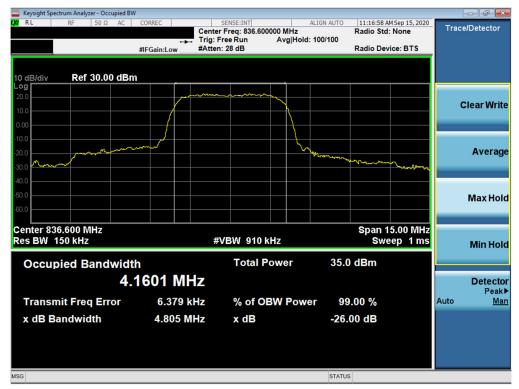


Plot 7-42. Occupied Bandwidth Plot (EDGE, Ch. 190)

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WCDMA Cell



Plot 7-43. Occupied Bandwidth Plot (WCDMA, Ch. 4183)

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CDMA Cell



Plot 7-44. Occupied Bandwidth Plot (CDMA, Ch. 384)

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7.3 Spurious and Harmonic Emissions at Antenna Terminal

Test Overview

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

The minimum permissible attenuation level of any spurious emission is 43 + 10 $log_{10}(P_{[Watts]})$, where P is the transmitter power in Watts.

Test Procedure Used

KDB 971168 D01 v03r01 - Section 6.0

Test Settings

- 1. Start frequency was set to 30MHz and stop frequency was set to 10GHz (separated into at least two plots per channel)
- 2. Detector = RMS
- 3. Trace mode = trace average for continuous emissions, max hold for pulse emissions
- 4. Sweep time = auto couple
- 5. The trace was allowed to stabilize
- 6. Please see test notes below for RBW and VBW settings

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



Figure 7-2. Test Instrument & Measurement Setup

Test Notes

- 1. Per Part 22 and RSS-132, compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth 100 kHz or greater for measurements below 1GHz. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. 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 emission are attenuated at least 26 dB below the transmitter power.
- 2. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

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