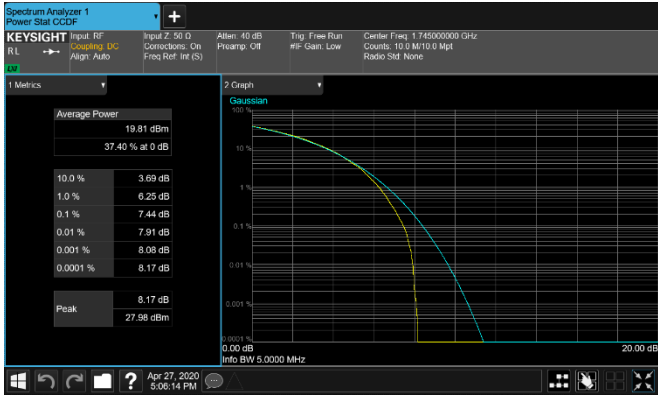
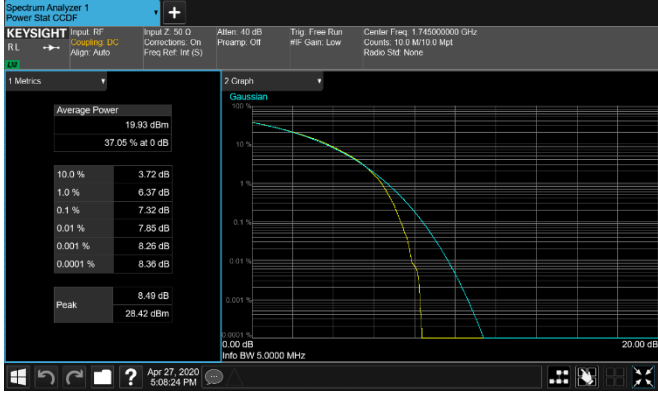
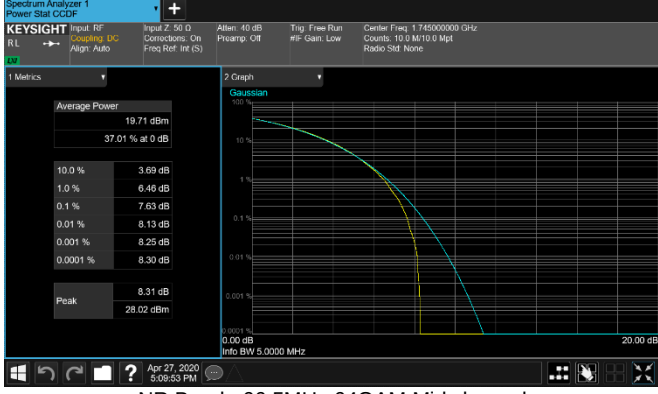
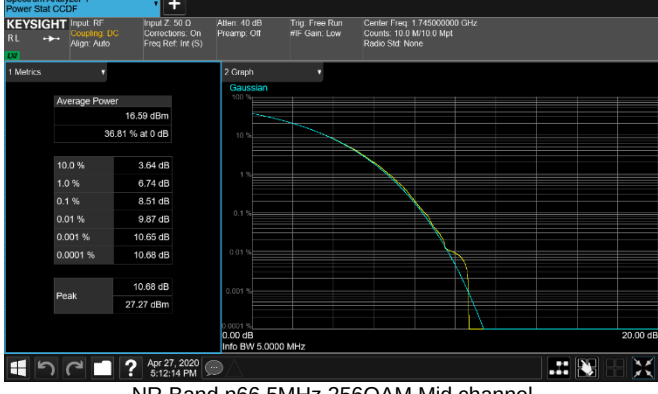


	 NR Band n66 5MHz QPSK Mid channel
NR Band n66 5 MHz CP-OFDM	 NR Band n66 5MHz 16QAM Mid channel
	 NR Band n66 5MHz 64QAM Mid channel
	 NR Band n66 5MHz 256QAM Mid channel

9. LIMITS AND CONDUCTED RESULTS

9.1. OCCUPIED BANDWIDTH

RULE PART(S)

FCC: §2.1049

LIMITS

For reporting purposes only

TEST PROCEDURE

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at the low, middle and high channel in each band. The -26dB bandwidth was also measured and recorded.

(KDB 971168 D01 Power Meas License Digital Systems v03r01)

Note

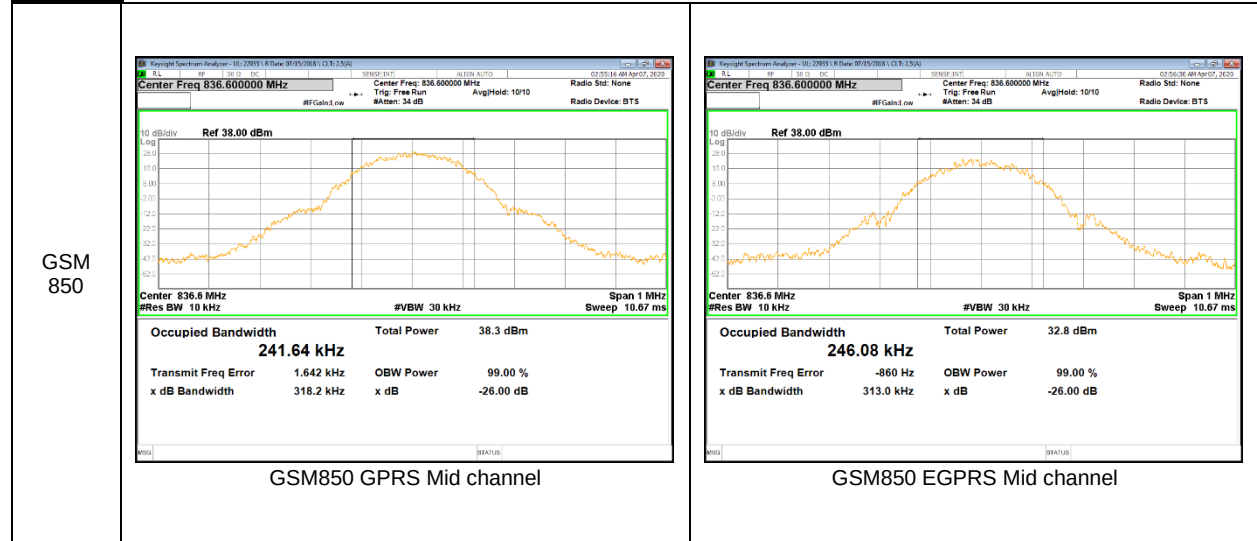
5G NR: All Waveforms (CP-OFDM vs DFT-s OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

RESULTS

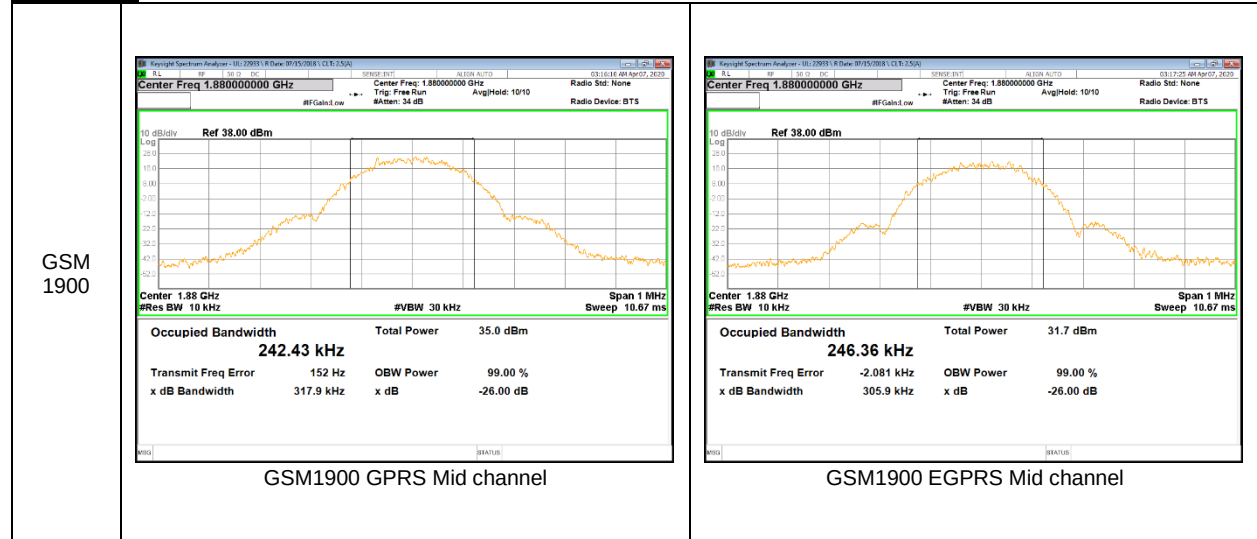
See the following pages.

9.1.1. OCCUPIED BANDWIDTH RESULTS

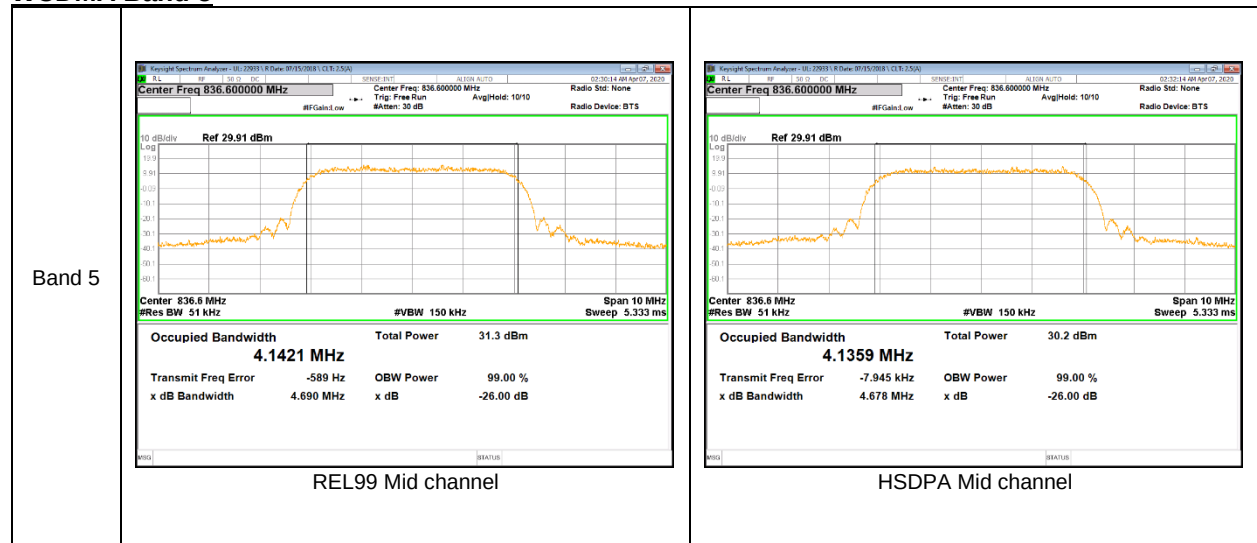
GSM 850



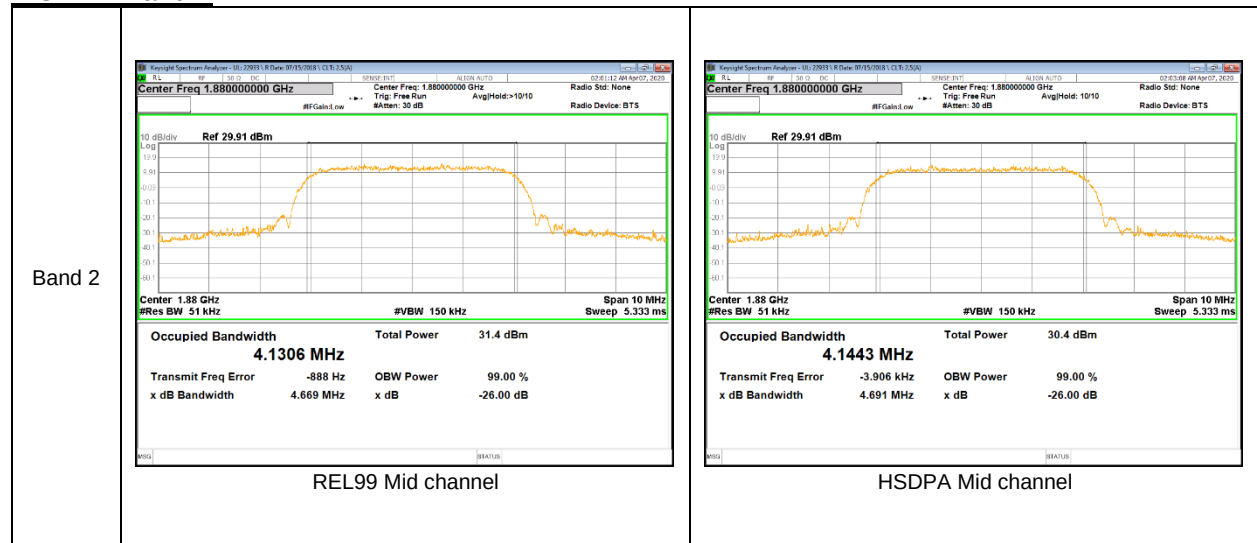
GSM 1900



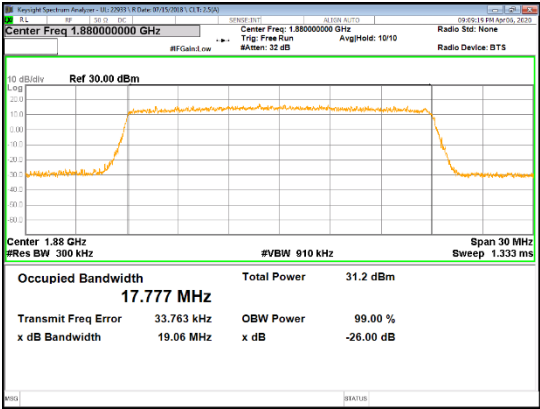
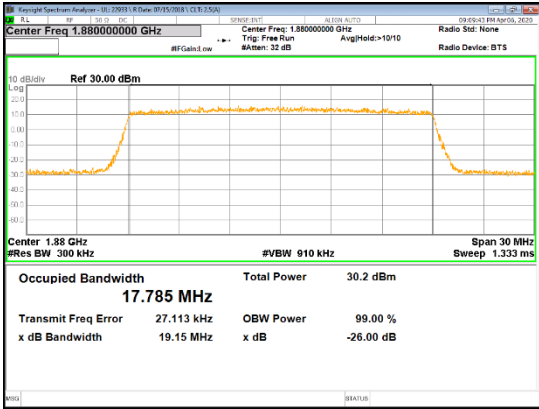
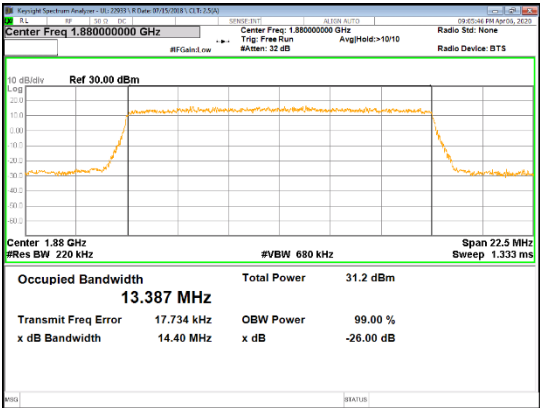
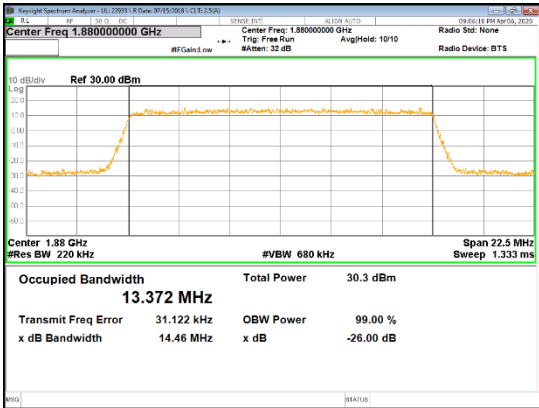
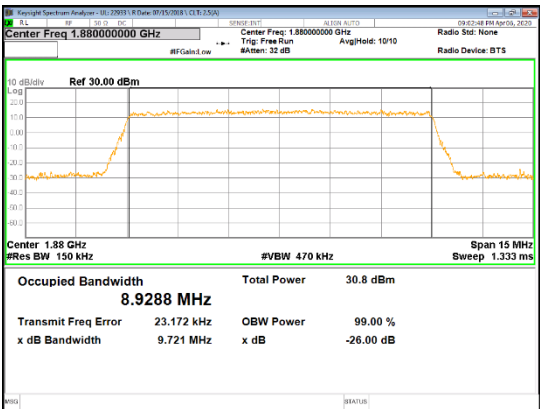
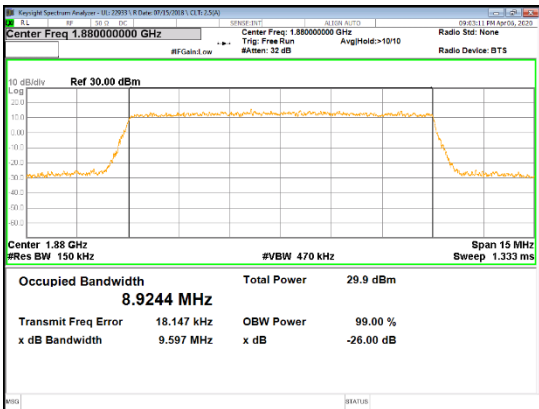
WCDMA Band 5

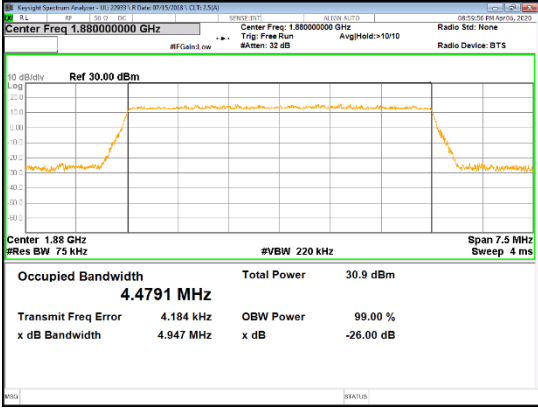
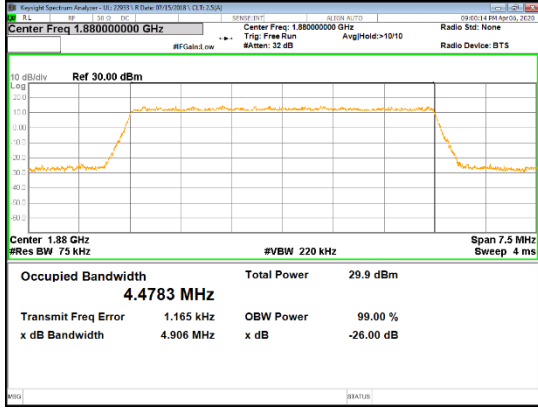
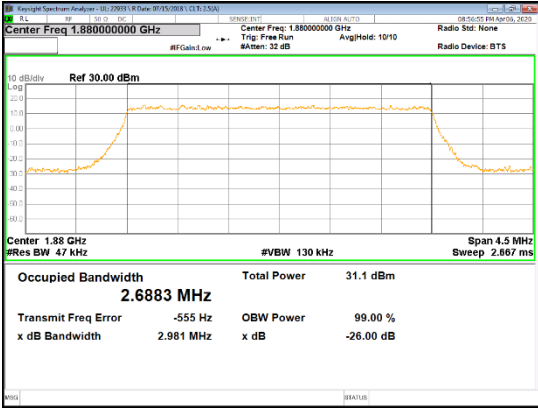
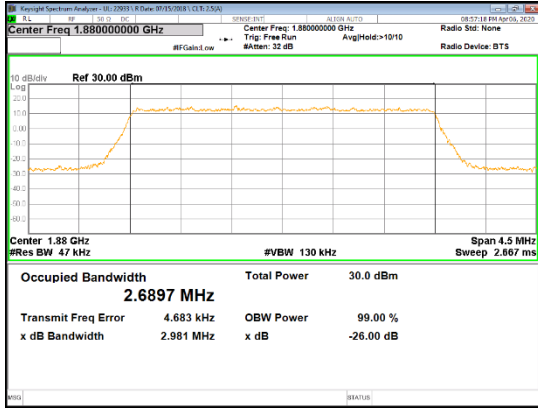
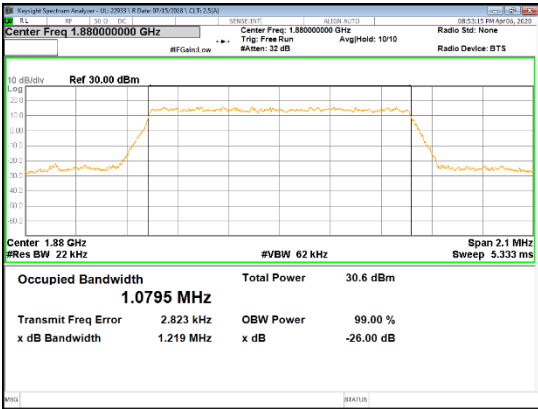
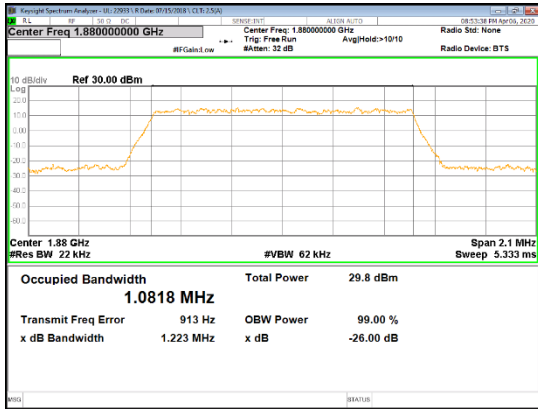


WCDMA Band 2

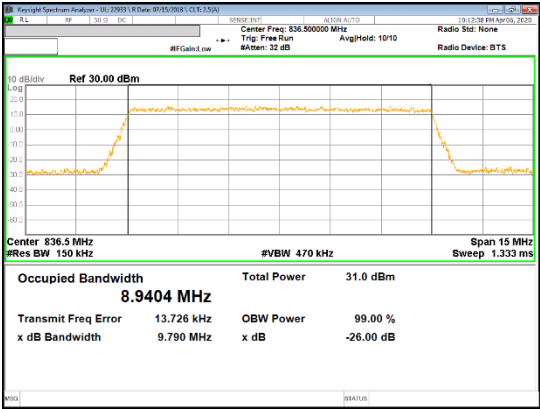
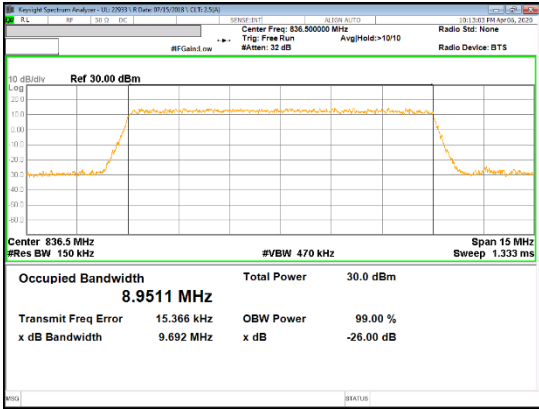
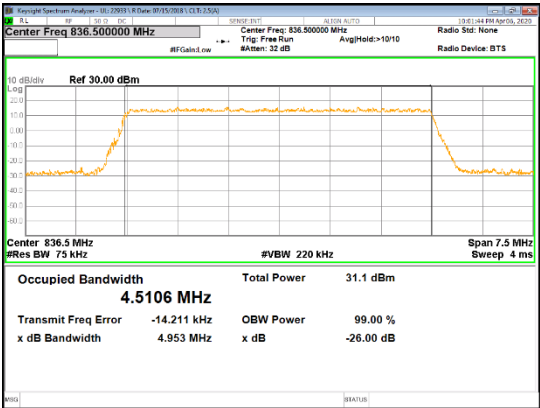
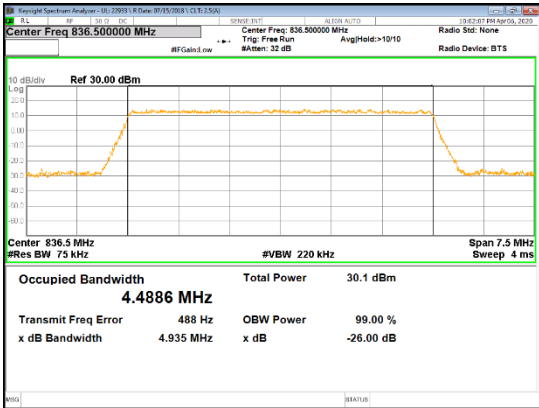
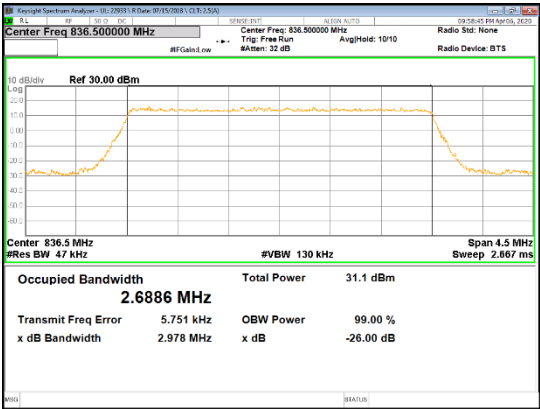
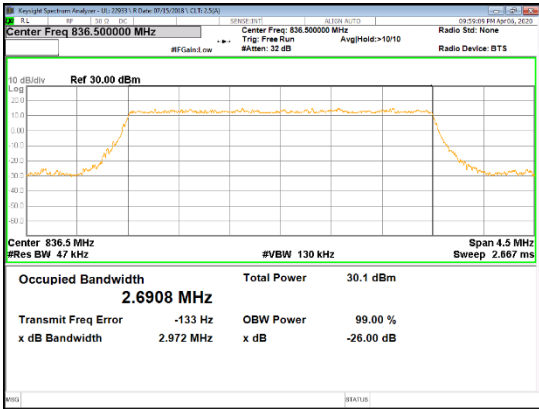


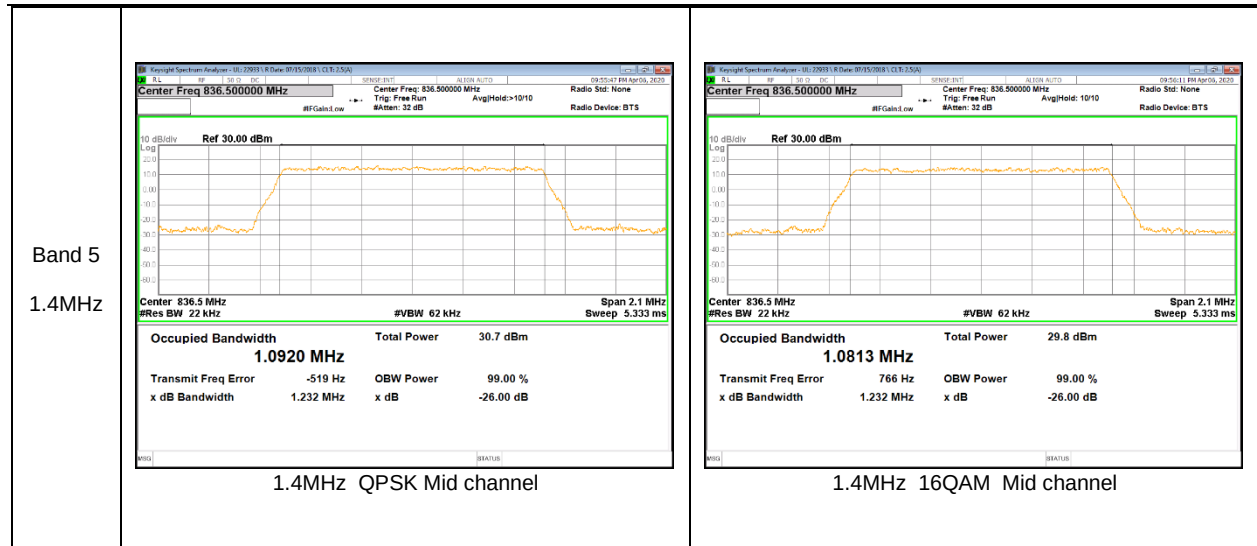
LTE Band 2

Band 2 20MHz	 20MHz QPSK Mid channel	 20MHz 16QAM Mid channel
Band 2 15MHz	 15MHz QPSK Mid channel	 15MHz 16QAM Mid channel
Band 2 10MHz	 10MHz QPSK Mid channel	 10MHz 16QAM Mid channel

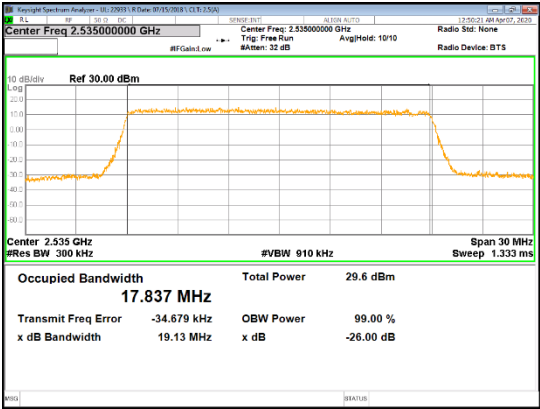
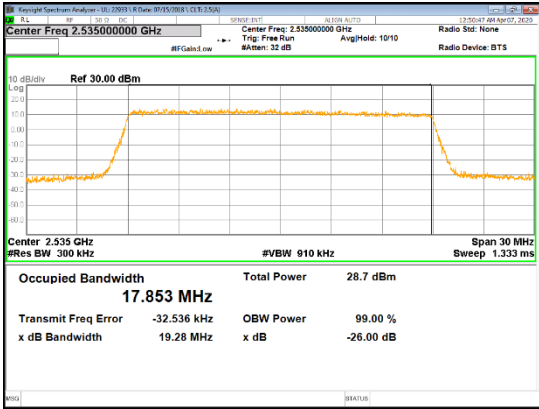
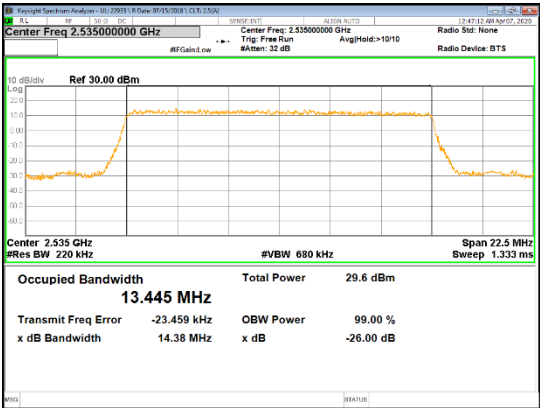
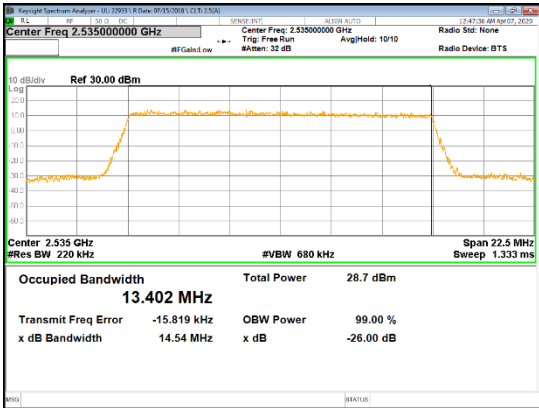
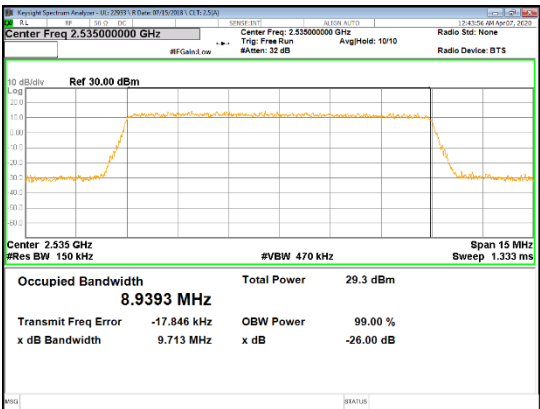
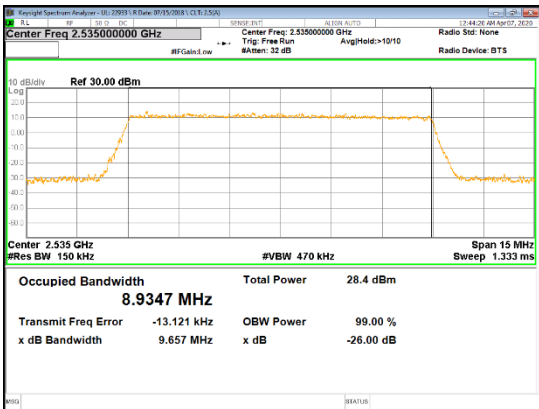
Band 2 5MHz	 5MHz QPSK Mid channel	 5MHz 16QAM Mid channel
Band 2 3MHz	 3MHz QPSK Mid channel	 3MHz 16QAM Mid channel
Band 2 1.4MHz	 1.4MHz QPSK Mid channel	 1.4MHz 16QAM Mid channel

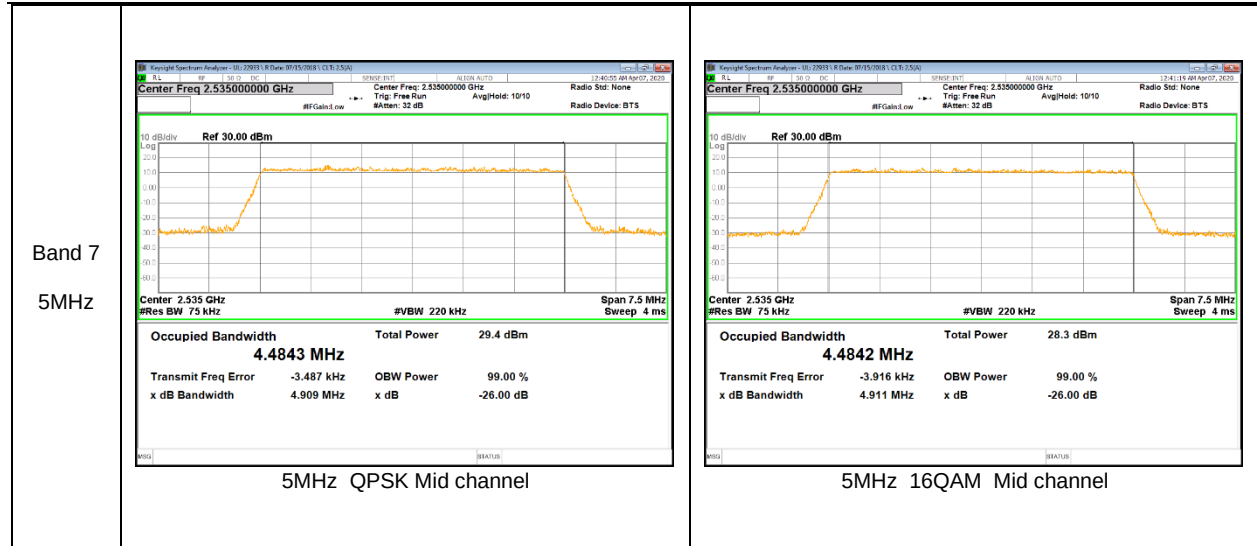
LTE Band 5

Band 5 10MHz	 10MHz QPSK Mid channel	 10MHz 16QAM Mid channel
Band 5 5MHz	 5MHz QPSK Mid channel	 5MHz 16QAM Mid channel
Band 5 3MHz	 3MHz QPSK Mid channel	 3MHz 16QAM Mid channel

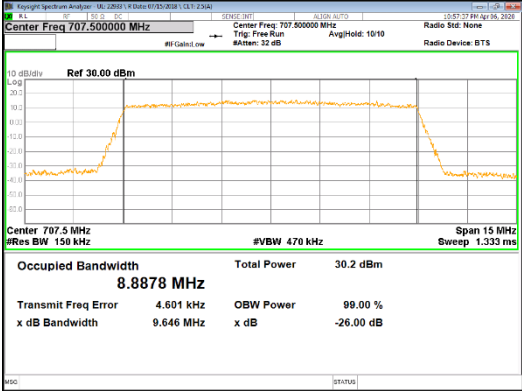
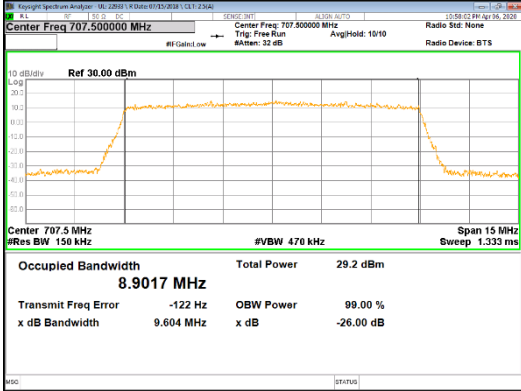
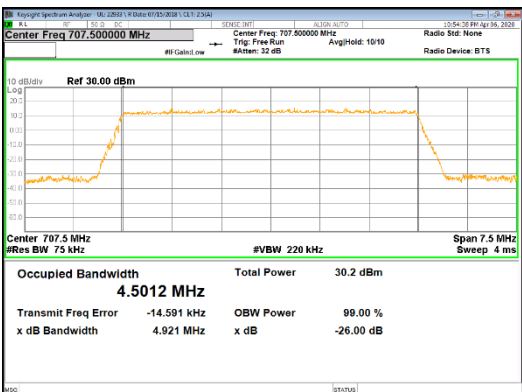
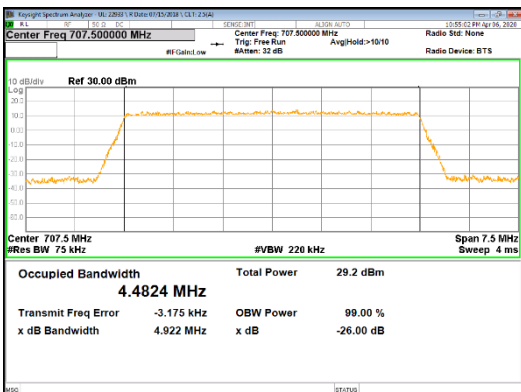
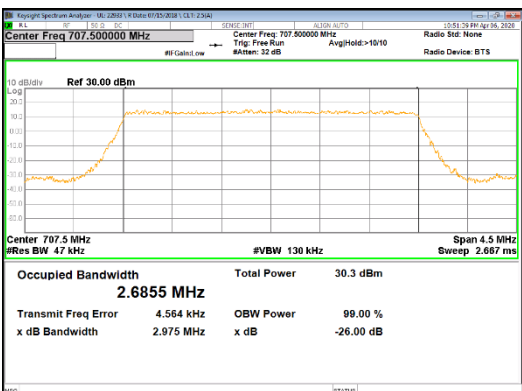
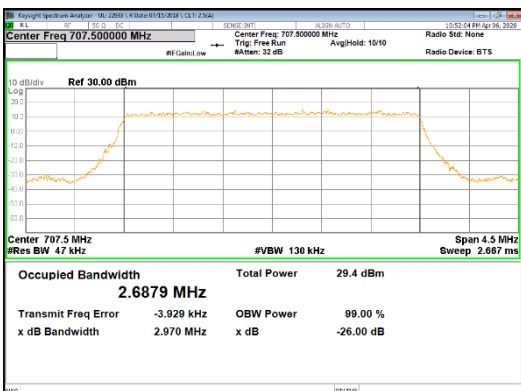


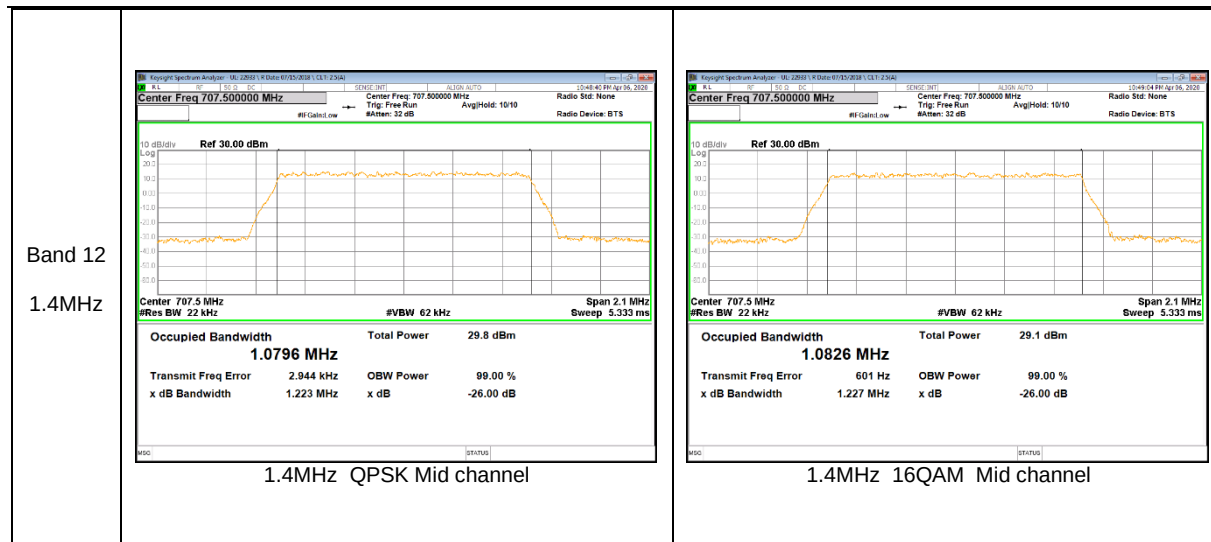
LTE Band 7

Band 7 20MHz	 20MHz QPSK Mid channel	 20MHz 16QAM Mid channel
Band 7 15MHz	 15MHz QPSK Mid channel	 15MHz 16QAM Mid channel
Band 7 10MHz	 10MHz QPSK Mid channel	 10MHz 16QAM Mid channel

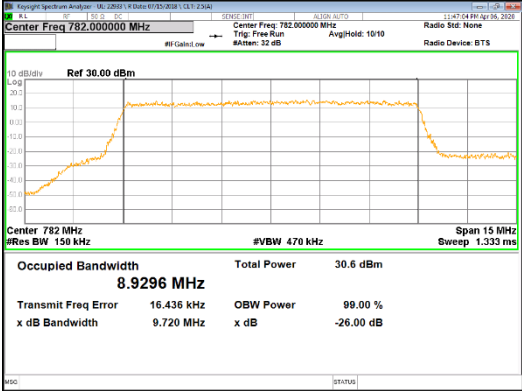
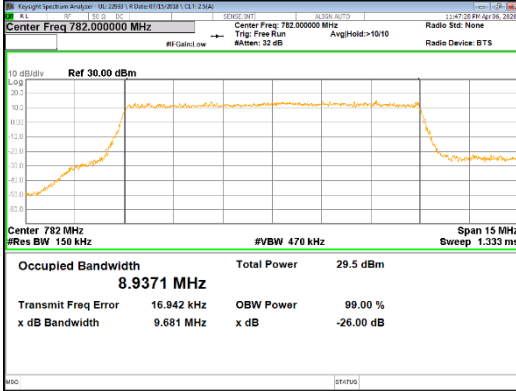
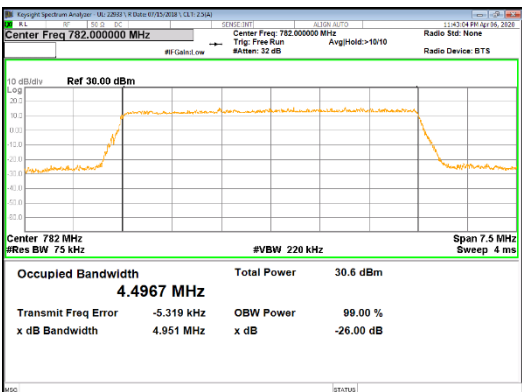
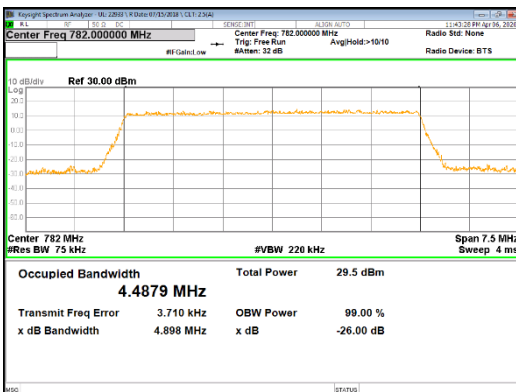


LTE Band 12

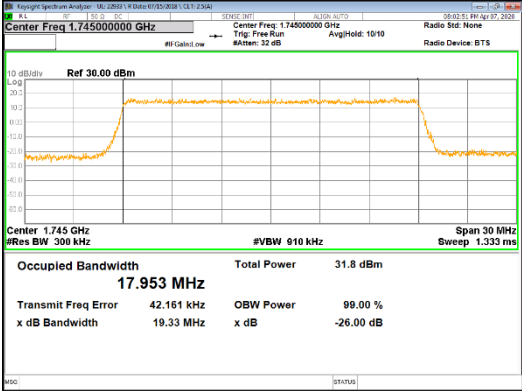
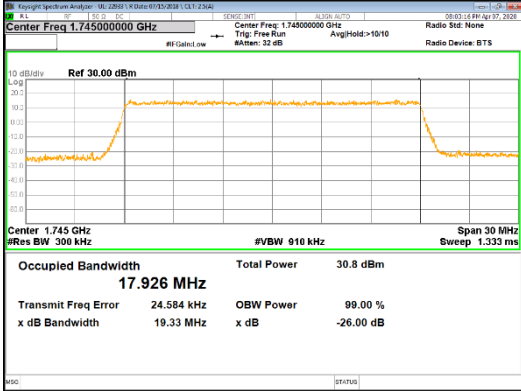
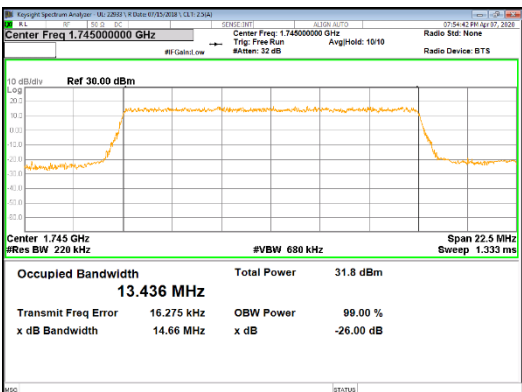
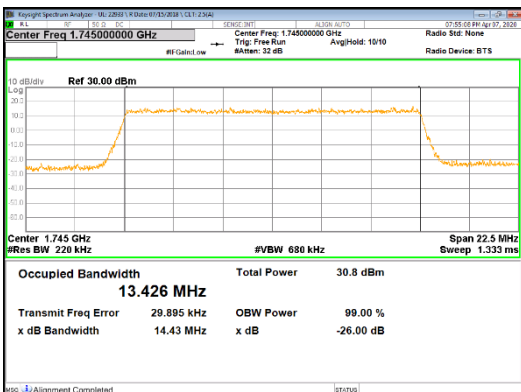
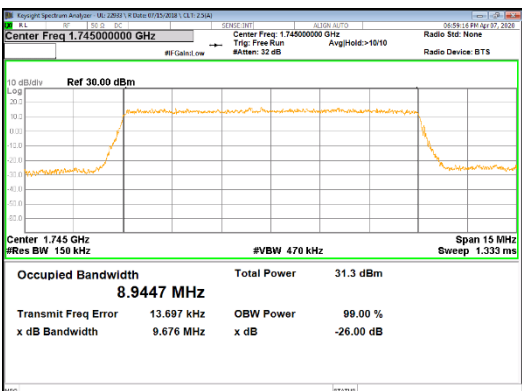
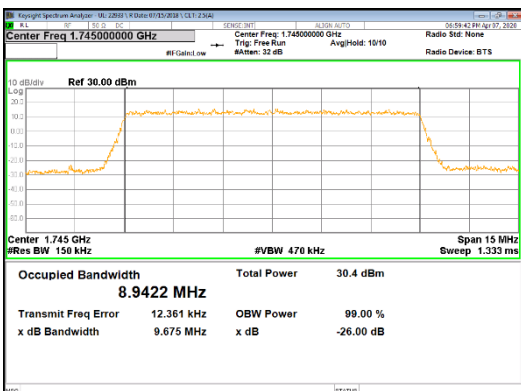
Band 12 10MHz	 10MHz QPSK Mid channel	 10MHz 16QAM Mid channel
Band 12 5MHz	 5MHz QPSK Mid channel	 5MHz 16QAM Mid channel
Band 12 3MHz	 3MHz QPSK Mid channel	 3MHz 16QAM Mid channel

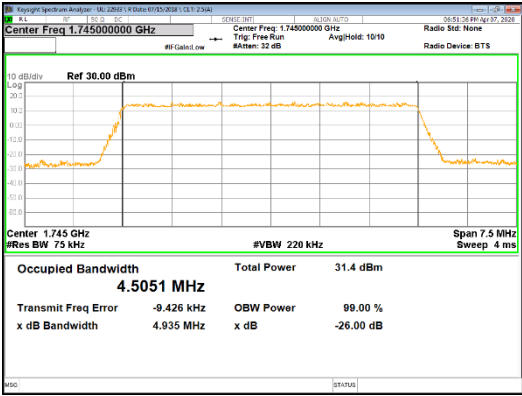
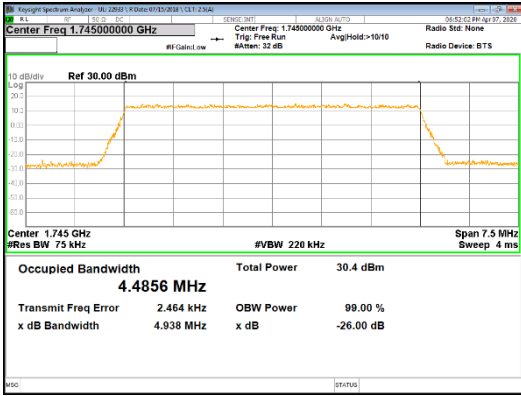
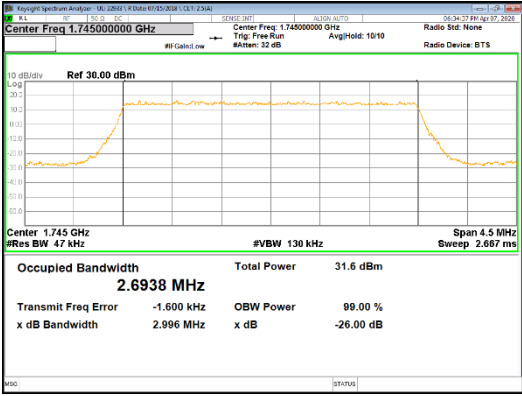
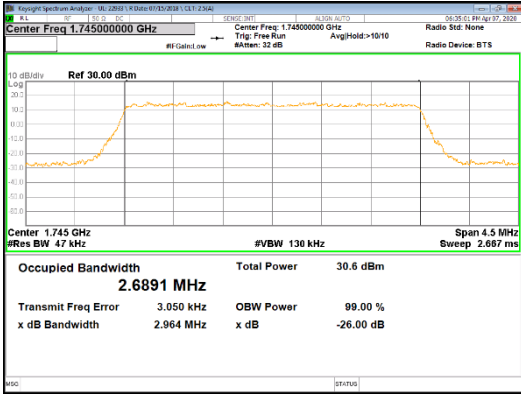
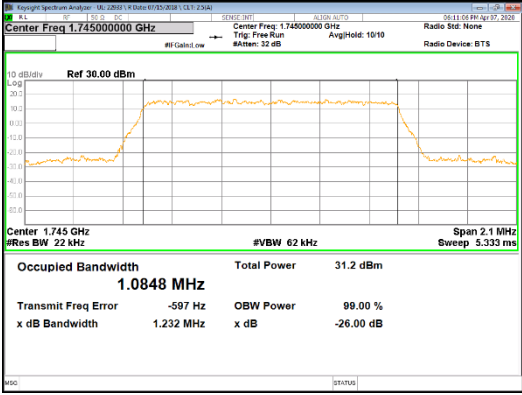
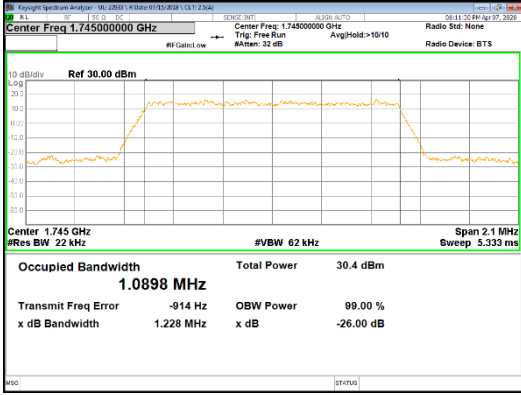


LTE Band 13

Band 13 10MHz	 10MHz QPSK Mid channel	 10MHz 16QAM Mid channel
Band 13 5MHz	 5MHz QPSK Mid channel	 5MHz 16QAM Mid channel

LTE Band 66

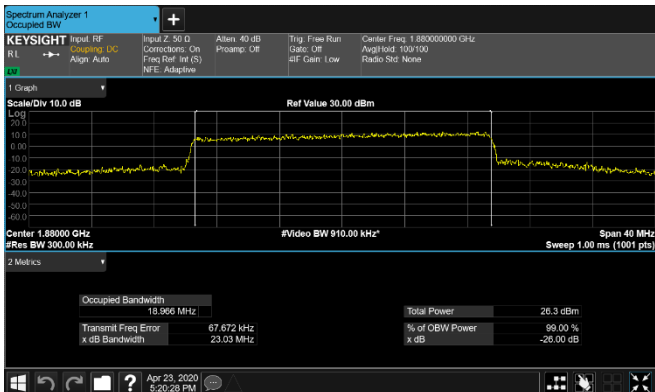
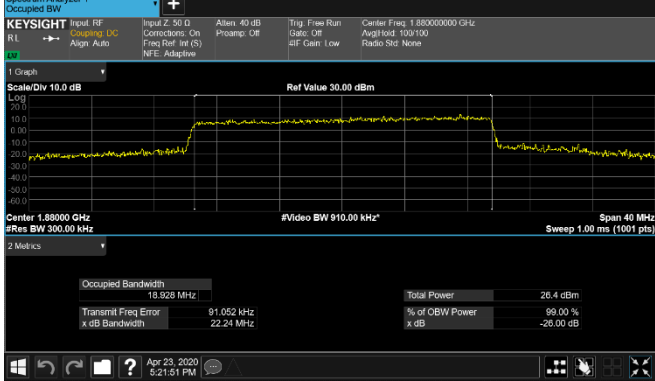
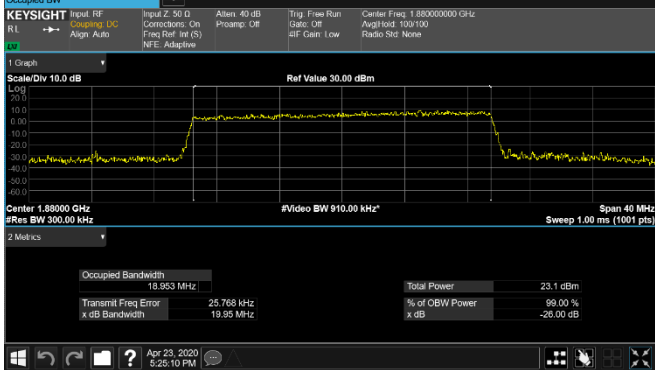
Band 66 20MHz	 20MHz QPSK Mid channel	 20MHz 16QAM Mid channel
Band 66 15MHz	 15MHz QPSK Mid channel	 15MHz 16QAM Mid channel
Band 66 10MHz	 10MHz QPSK Mid channel	 10MHz 16QAM Mid channel

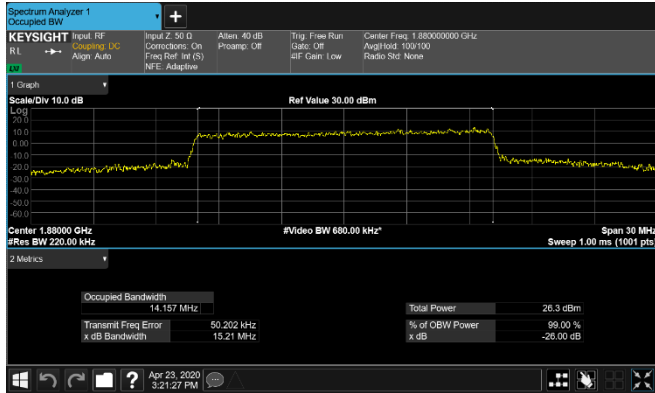
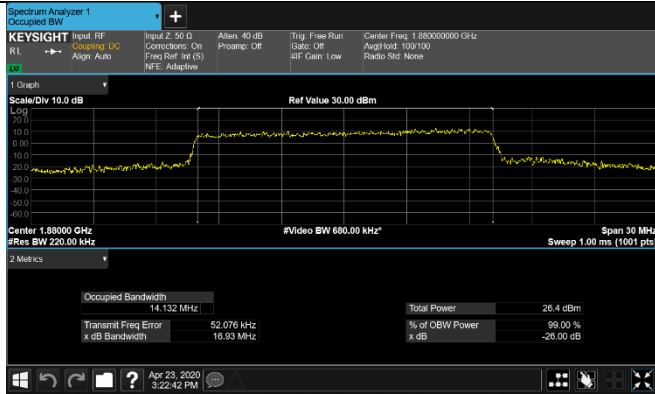
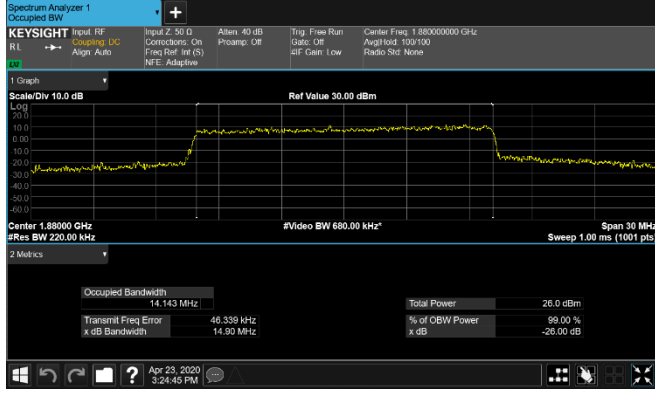
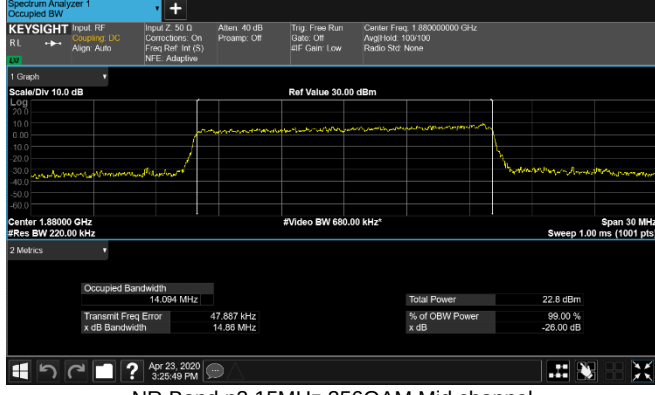
Band 66 5MHz	 5MHz QPSK Mid channel	 5MHz 16QAM Mid channel
Band 66 3MHz	 3MHz QPSK Mid channel	 3MHz 16QAM Mid channel
Band 66 1.4MHz	 1.4MHz QPSK Mid channel	 1.4MHz 16QAM Mid channel

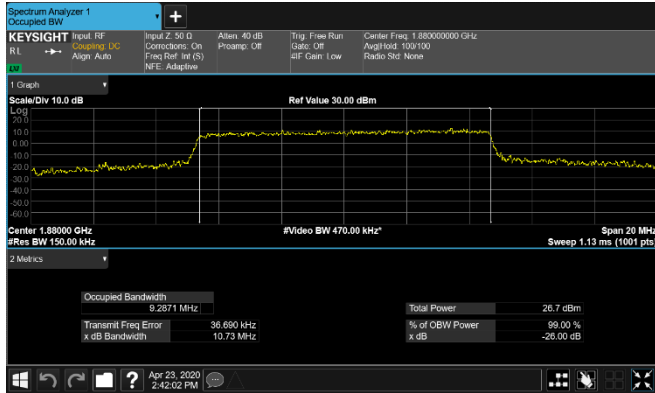
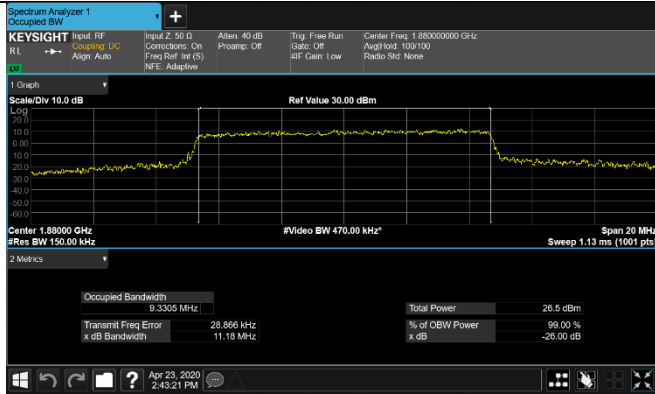
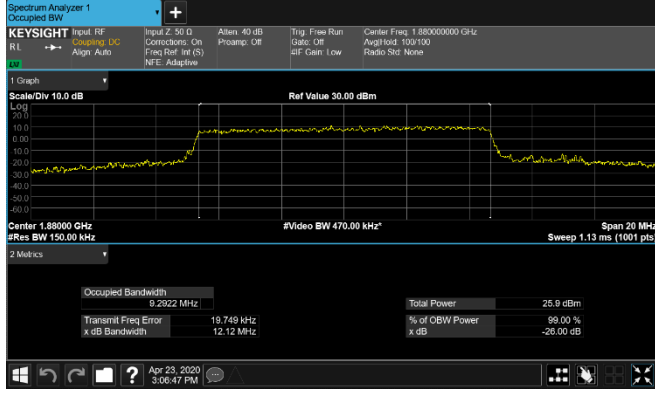
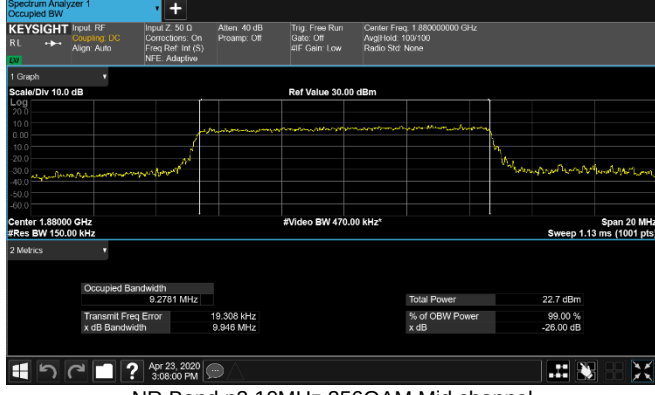
LTE Band 4

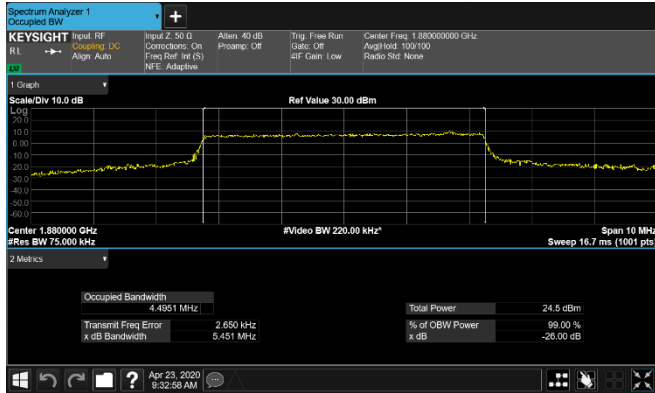
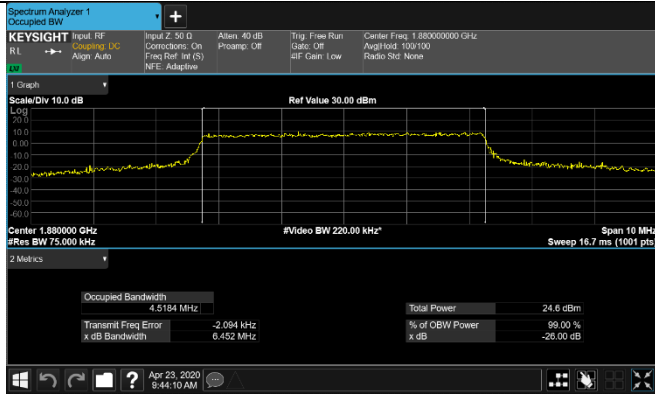
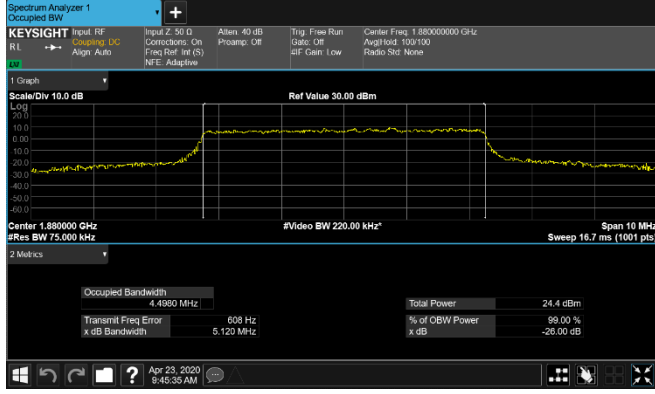
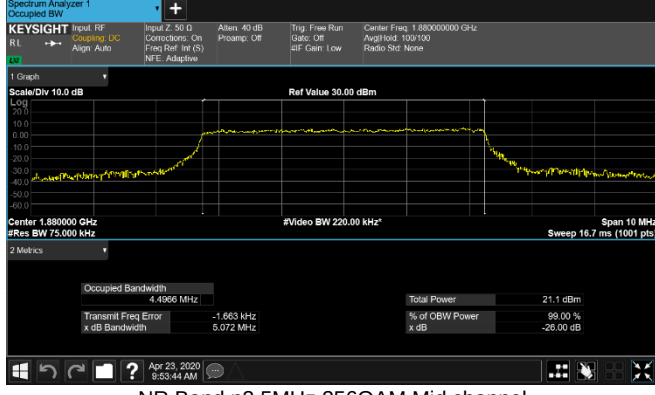
LTE Band 4 (Frequency range: 1710-1755 MHz) is covered by LTE Band 66 (Frequency range: 1710-1780 MHz) due to overlapping frequency range, same maximum tune-up limit and same channel bandwidth.

NR Band n2

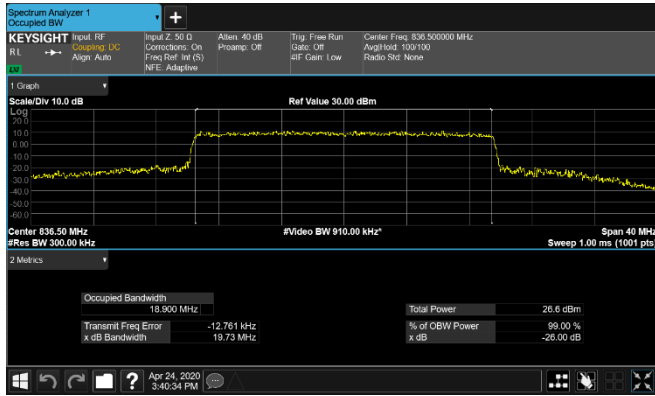
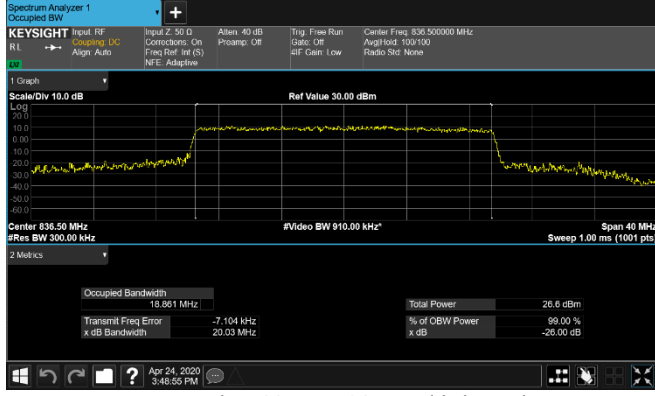
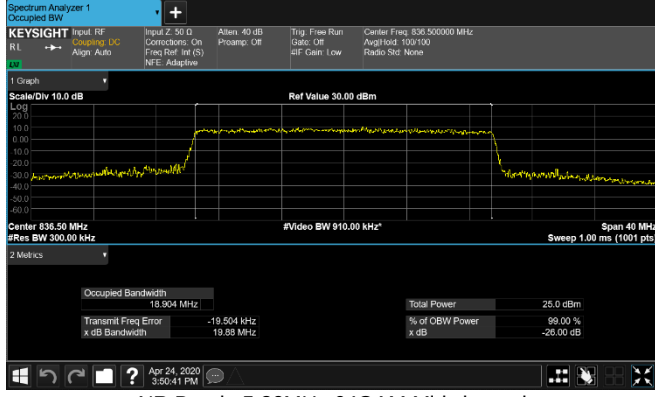
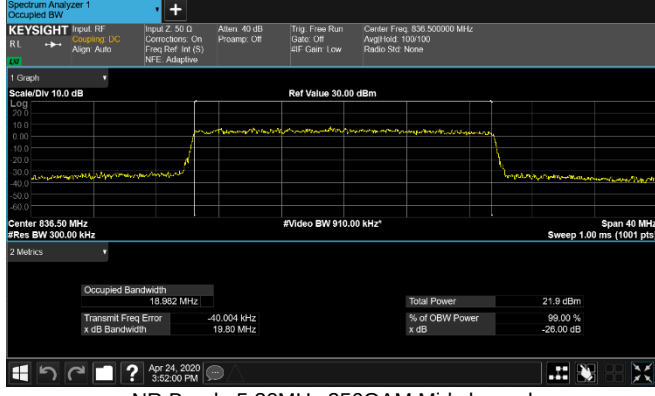
	 NR Band n2 20MHz QPSK Mid channel
NR Band n2 20 MHz CP-OFDM	 NR Band n2 20MHz 16QAM Mid channel
	 NR Band n2 20MHz 64QAM Mid channel
	 NR Band n2 20MHz 256QAM Mid channel

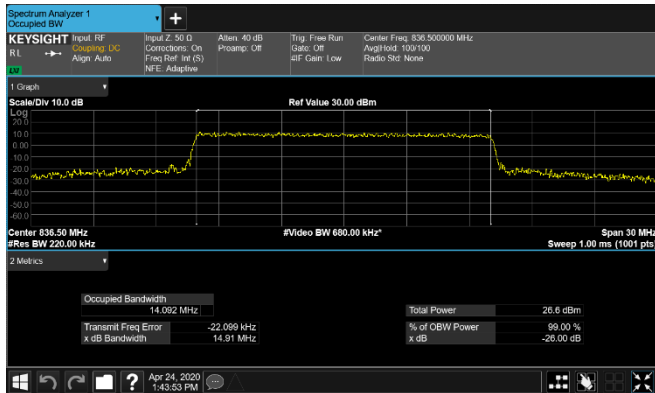
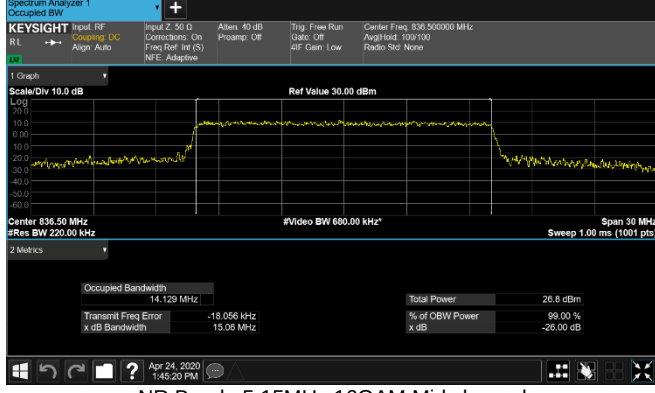
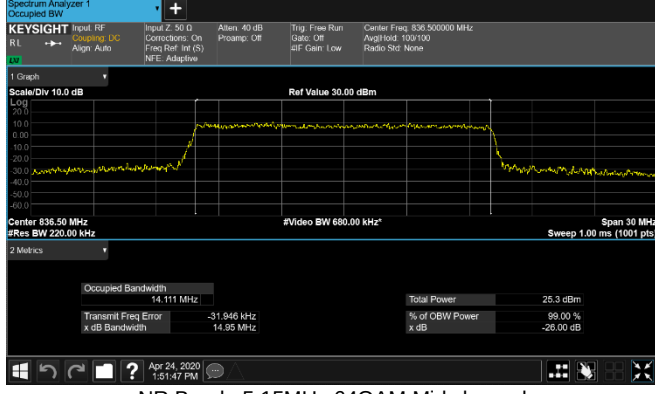
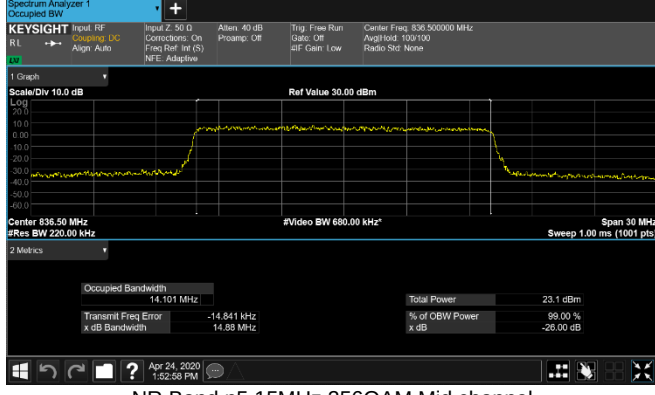
	 NR Band n2 15MHz QPSK Mid channel
NR Band n2 15 MHz CP-OFDM	 NR Band n2 15MHz 16QAM Mid channel
	 NR Band n2 15MHz 64QAM Mid channel
	 NR Band n2 15MHz 256QAM Mid channel

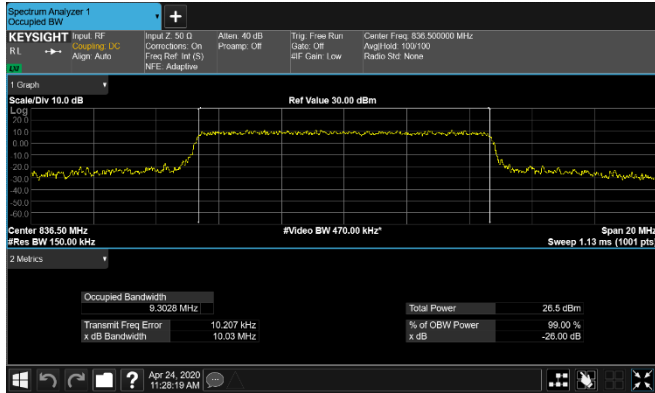
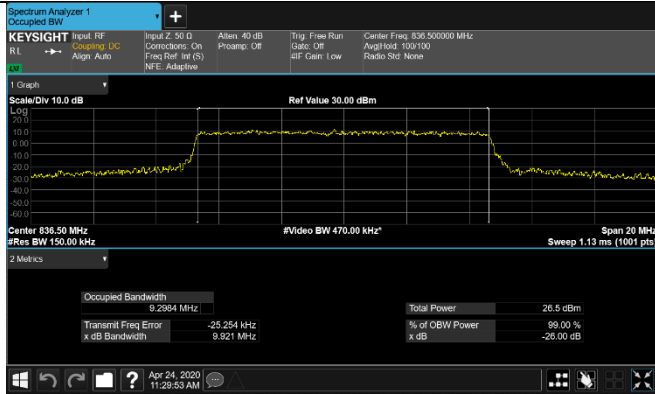
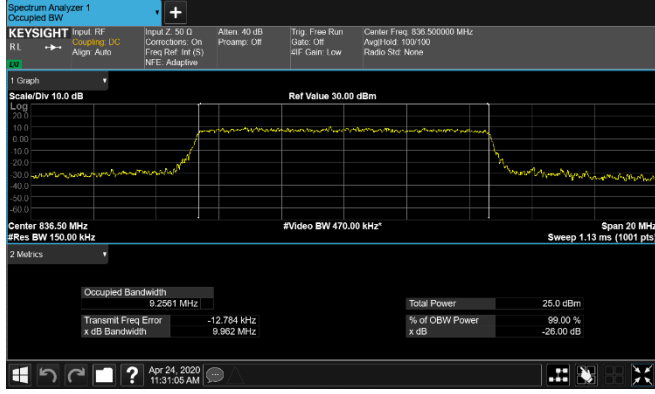
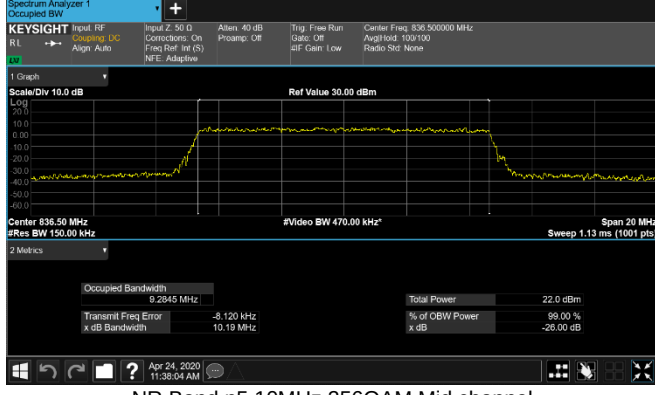
	 NR Band n2 10MHz QPSK Mid channel
NR Band n2 10 MHz CP-OFDM	 NR Band n2 10MHz 16QAM Mid channel
	 NR Band n2 10MHz 64QAM Mid channel
	 NR Band n2 10MHz 256QAM Mid channel

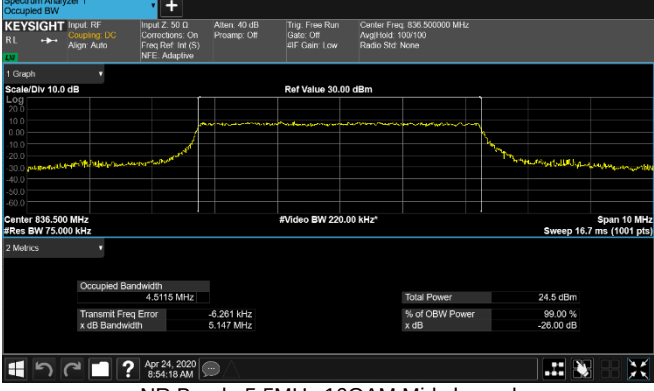
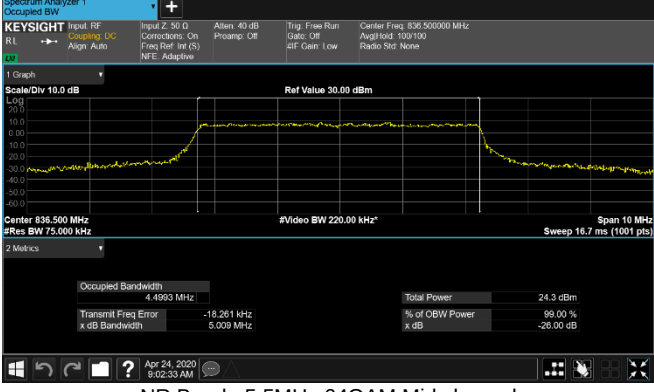
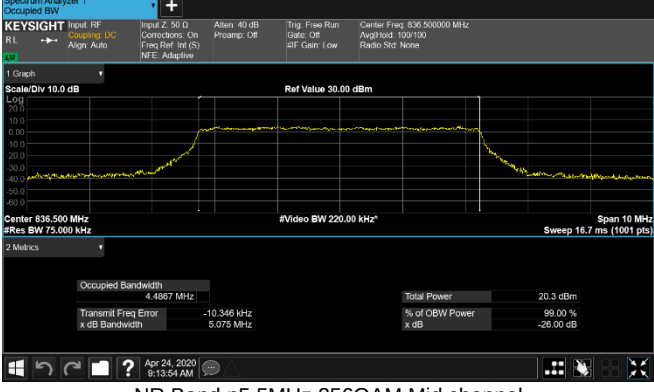
	 NR Band n2 5MHz QPSK Mid channel
NR Band n2 5 MHz CP-OFDM	 NR Band n2 5MHz 16QAM Mid channel
	 NR Band n2 5MHz 64QAM Mid channel
	 NR Band n2 5MHz 256QAM Mid channel

NR Band n5

	 NR Band n5 20MHz QPSK Mid channel
NR Band n5 20 MHz CP-OFDM	 NR Band n5 20MHz 16QAM Mid channel
	 NR Band n5 20MHz 64QAM Mid channel
	 NR Band n5 20MHz 256QAM Mid channel

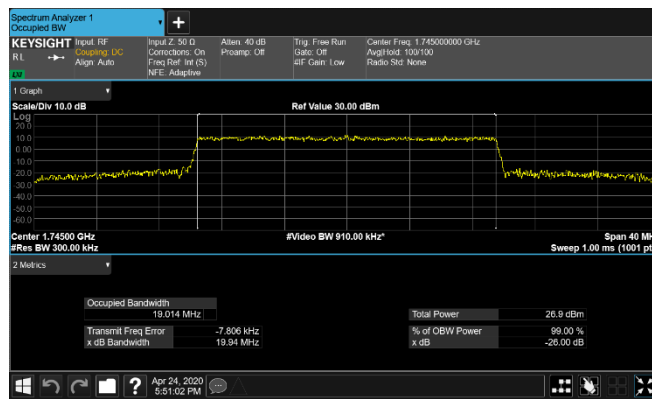
	 NR Band n5 15MHz QPSK Mid channel
NR Band n5 15 MHz CP-OFDM	 NR Band n5 15MHz 16QAM Mid channel
	 NR Band n5 15MHz 64QAM Mid channel
	 NR Band n5 15MHz 256QAM Mid channel

	 NR Band n5 10MHz QPSK Mid channel
NR Band n5 10 MHz CP-OFDM	 NR Band n5 10MHz 16QAM Mid channel
	 NR Band n5 10MHz 64QAM Mid channel
	 NR Band n5 10MHz 256QAM Mid channel

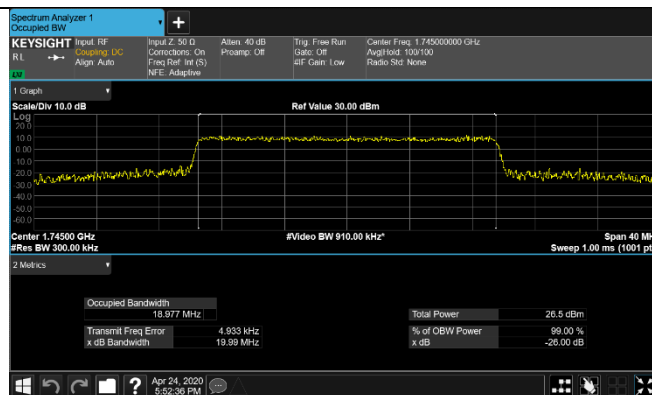
	 NR Band n5 5MHz QPSK Mid channel
NR Band n5 5 MHz CP-OFDM	 NR Band n5 5MHz 16QAM Mid channel
	 NR Band n5 5MHz 64QAM Mid channel
	 NR Band n5 5MHz 256QAM Mid channel

NR Band n66

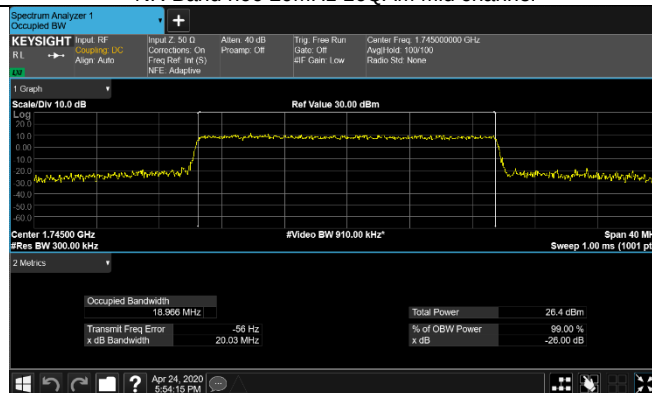
NR Band n66
20 MHz
CP-OFDM



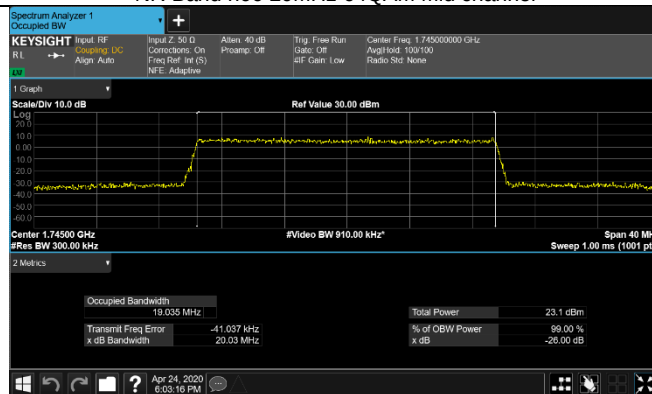
NR Band n66 20MHz QPSK Mid channel



NR Band n66 20MHz 16QAM Mid channel

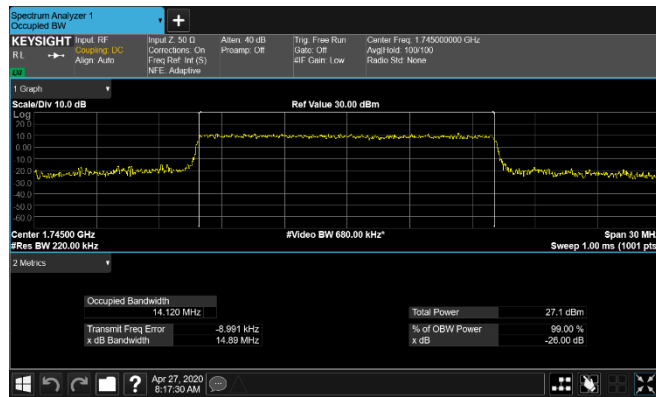


NR Band n66 20MHz 64QAM Mid channel

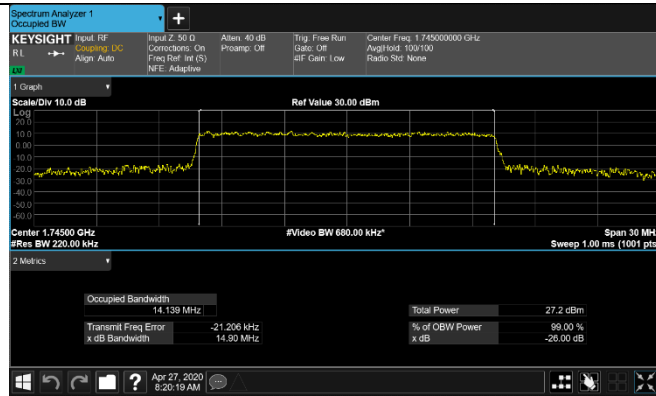


NR Band n66 20MHz 256QAM Mid channel

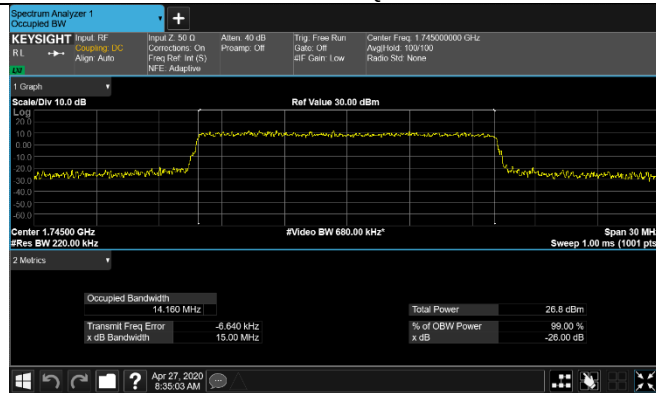
NR Band n66
15 MHz
CP-OFDM



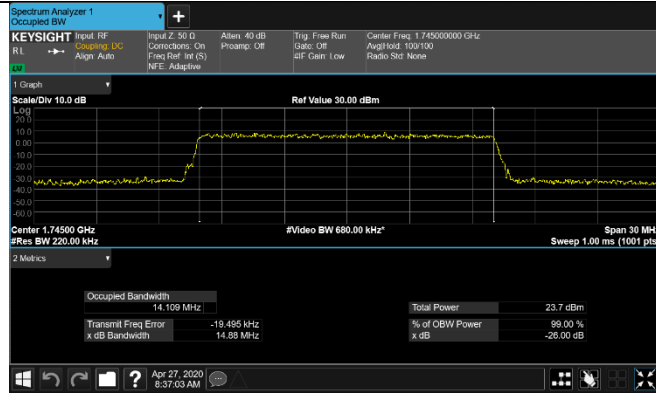
NR Band n66 15MHz QPSK Mid channel



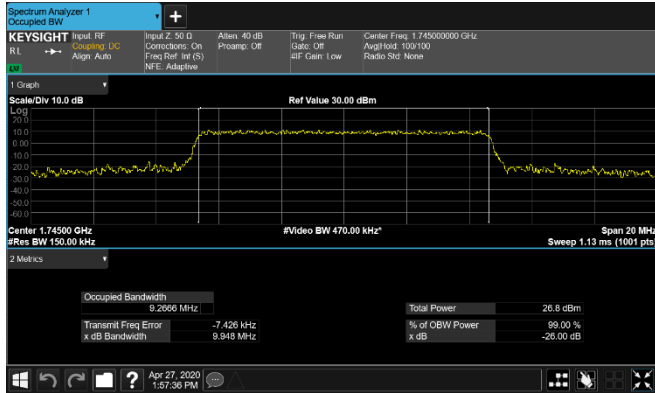
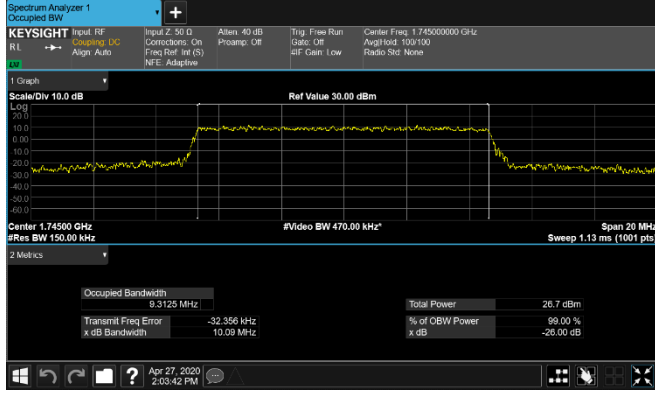
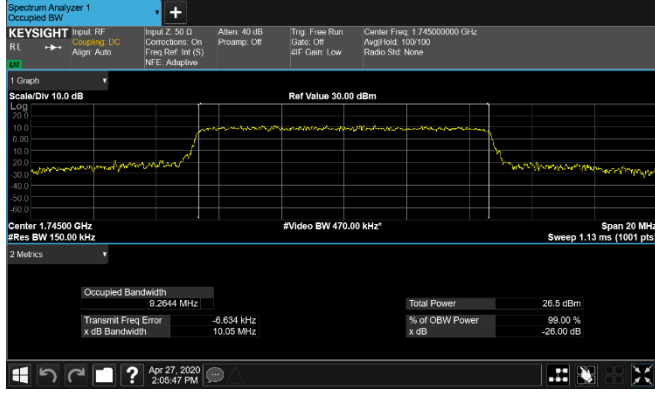
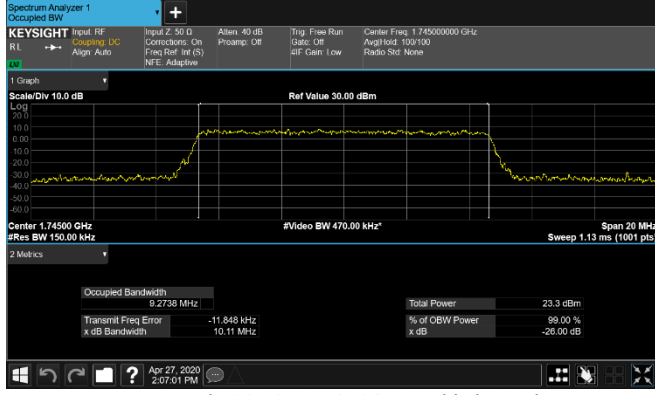
NR Band n66 15MHz 16QAM Mid channel



NR Band n66 15MHz 64QAM Mid channel



NR Band n66 15MHz 256QAM Mid channel

	 NR Band n66 10MHz QPSK Mid channel
NR Band n66 10 MHz CP-OFDM	 NR Band n66 10MHz 16QAM Mid channel
	 NR Band n66 10MHz 64QAM Mid channel
	 NR Band n66 10MHz 256QAM Mid channel