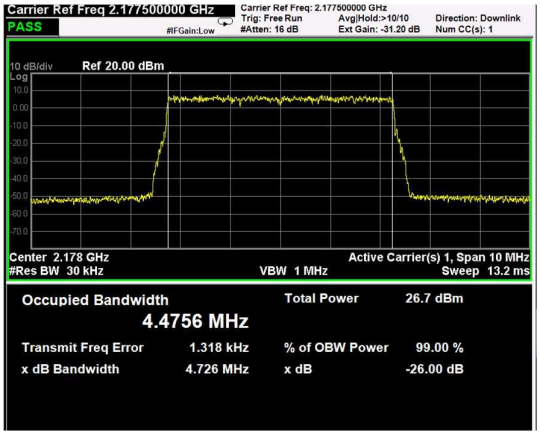
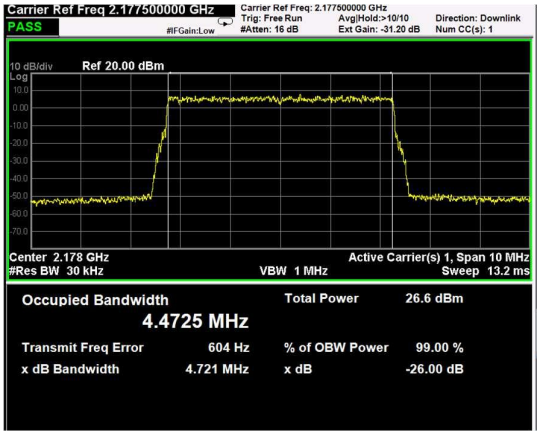
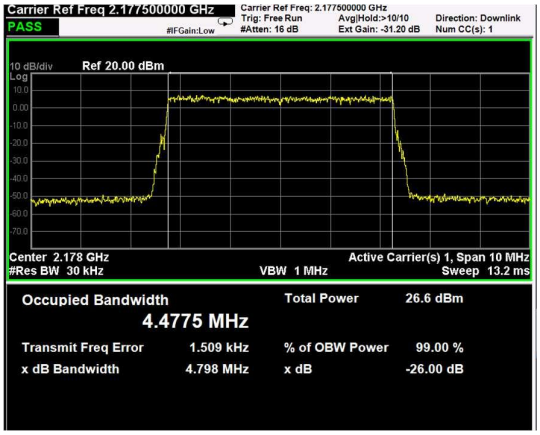


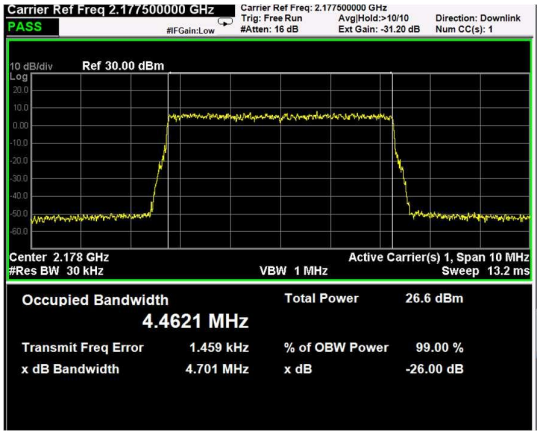

Channel: TOP, Modulation: QPSK, BW=5MHz



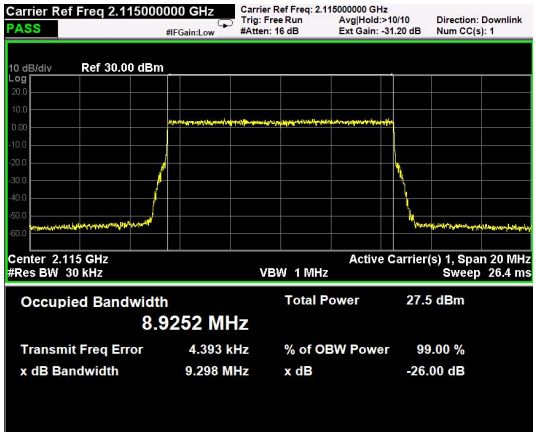

Channel: TOP, Modulation: 16QAM, BW=5MHz



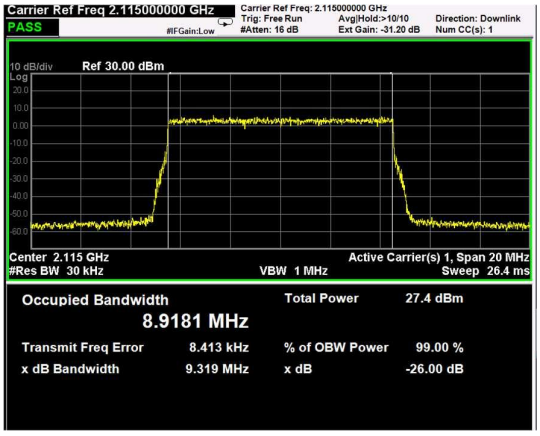

Channel: TOP, Modulation: 64QAM, BW=5MHz



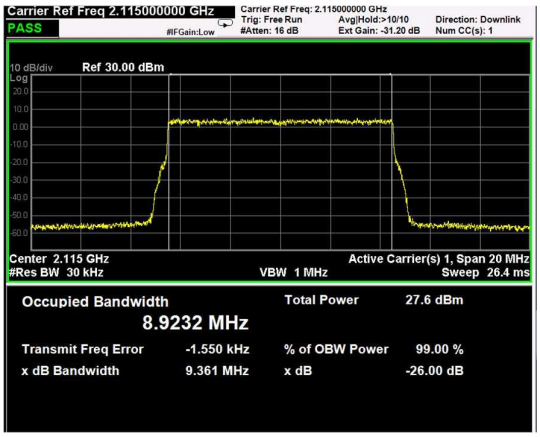

Channel: TOP, Modulation: 256QAM, BW=5MHz



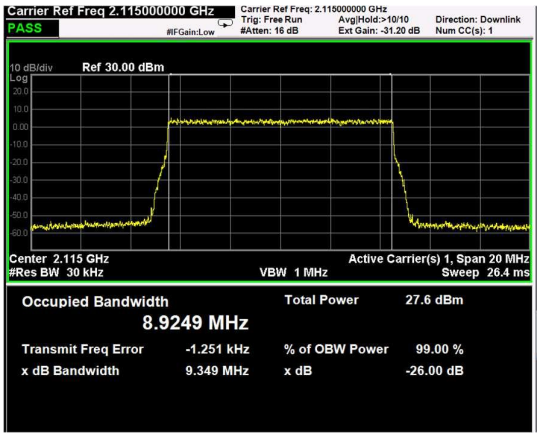

Channel: BOTTOM, Modulation: QPSK, BW=10MHz



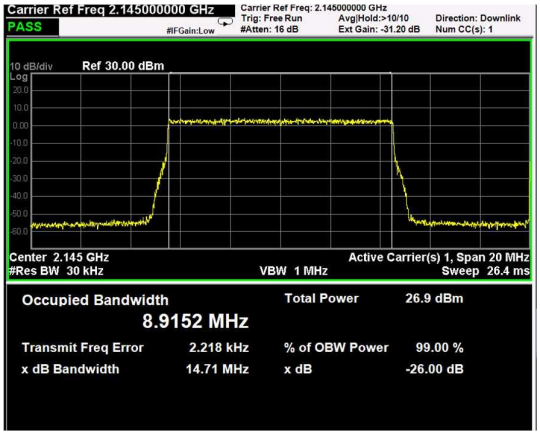

Channel: BOTTOM, Modulation: 16QAM, BW=10MHz



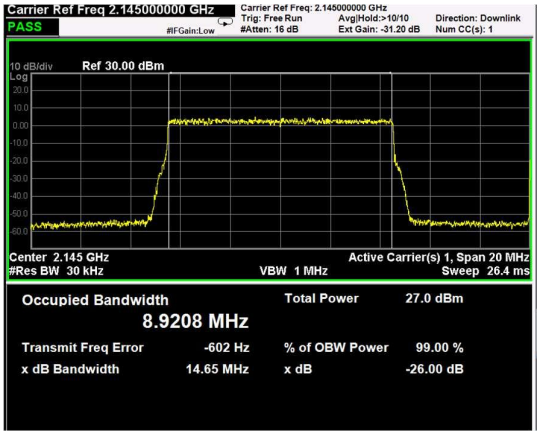

Channel: BOTTOM, Modulation: 64QAM, BW=10MHz



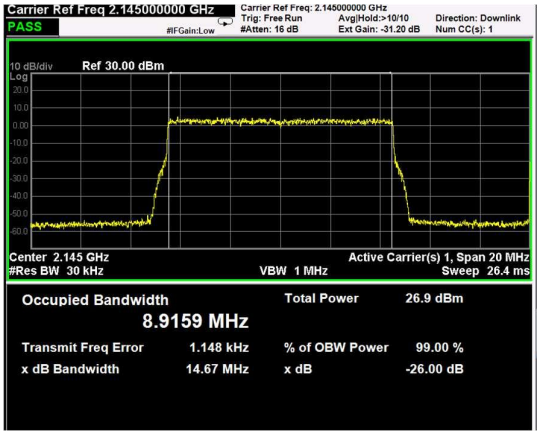

Channel: BOTTOM, Modulation: 256QAM, BW=10MHz



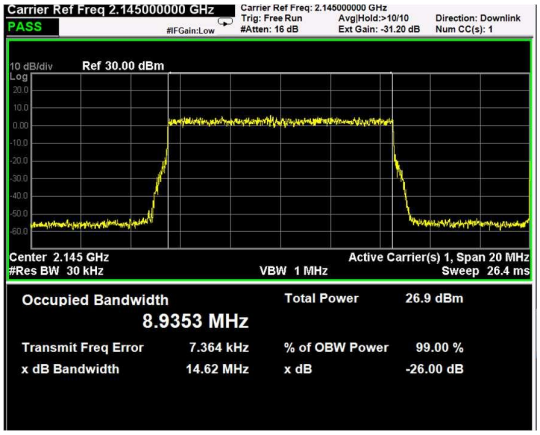

Channel: MIDDLE, Modulation: QPSK, BW=10MHz



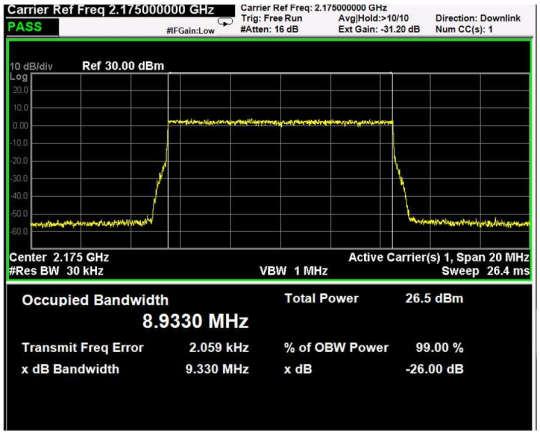

Channel: MIDDLE, Modulation: 16QAM, BW=10MHz



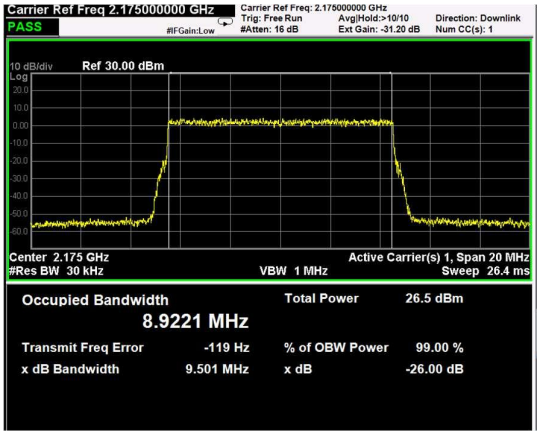

Channel: MIDDLE, Modulation: 64QAM, BW=10MHz



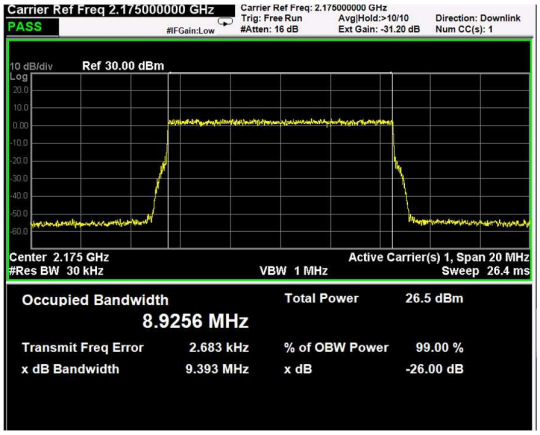

Channel: MIDDLE, Modulation: 256QAM, BW=10MHz



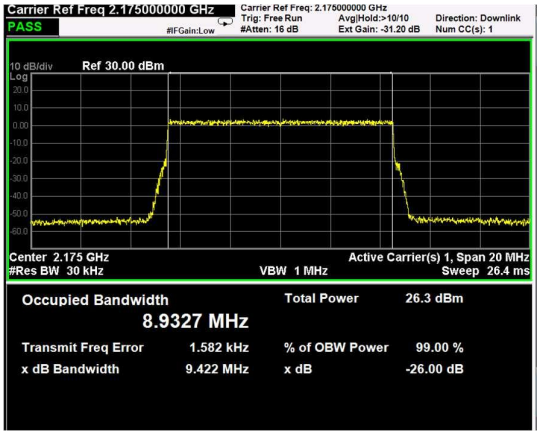

Channel: TOP, Modulation: QPSK, BW=10MHz



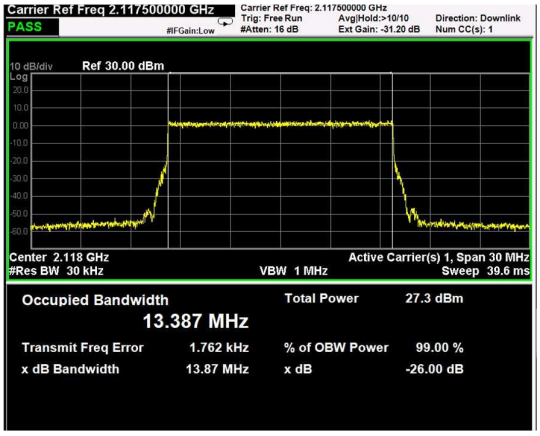

Channel: TOP, Modulation: 16QAM, BW=10MHz



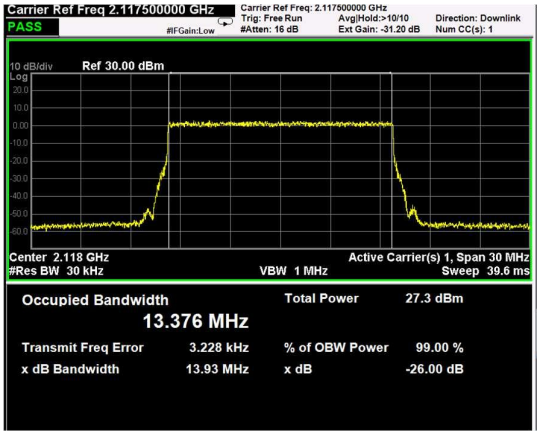

Channel: TOP, Modulation: 64QAM, BW=10MHz



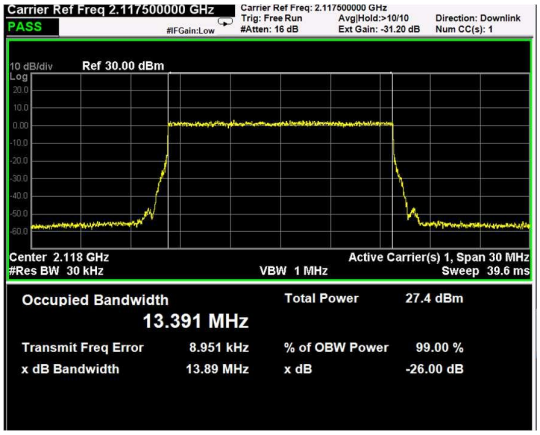

Channel: TOP, Modulation: 256QAM, BW=10MHz



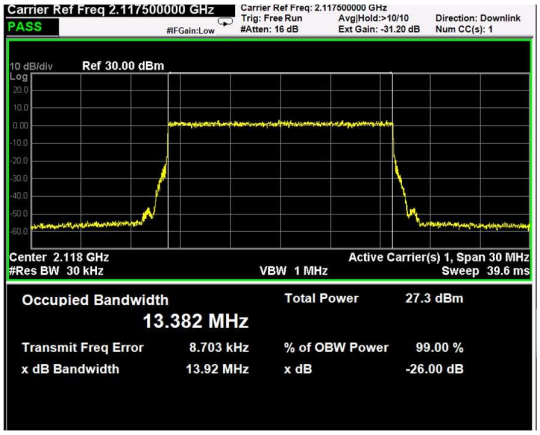

Channel: BOTTOM, Modulation: QPSK, BW=15MHz



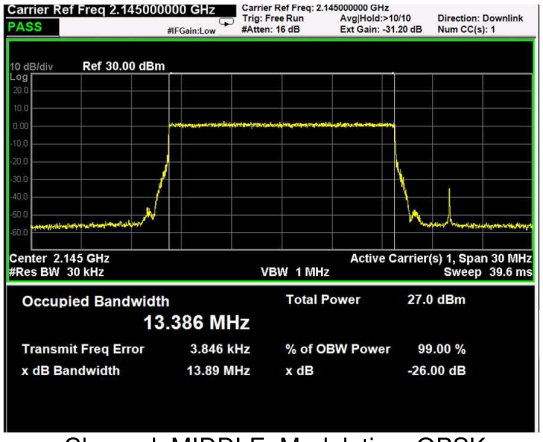

Channel: BOTTOM, Modulation: 16QAM, BW=15MHz



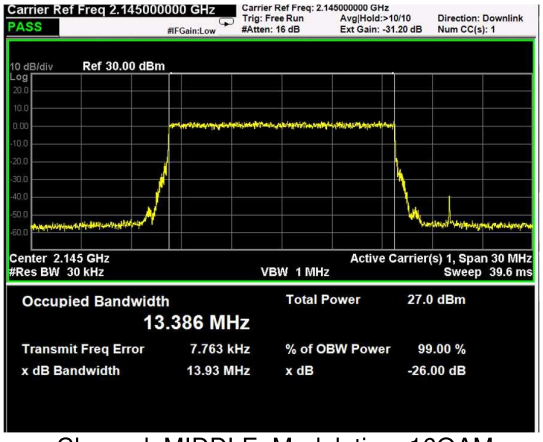

Channel: BOTTOM, Modulation: 64QAM, BW=15MHz



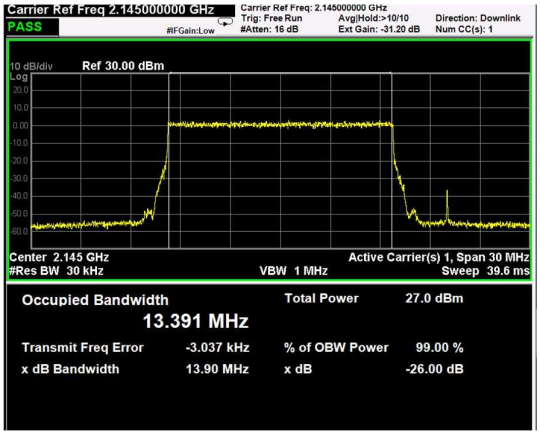

Channel: BOTTOM, Modulation: 256QAM, BW=15MHz



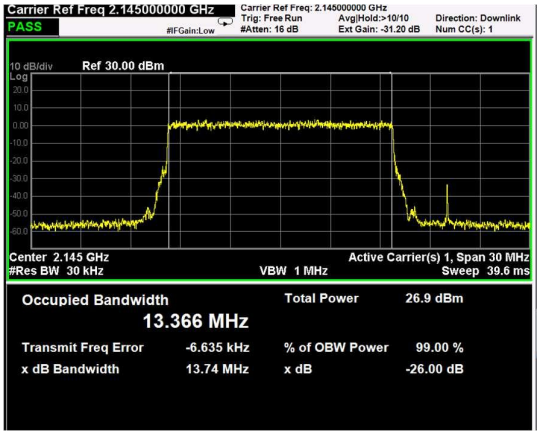

Channel: MIDDLE, Modulation: QPSK, BW=15MHz



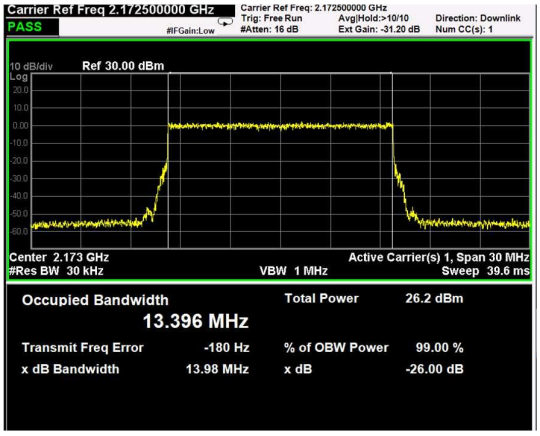

Channel: MIDDLE, Modulation: 16QAM, BW=15MHz



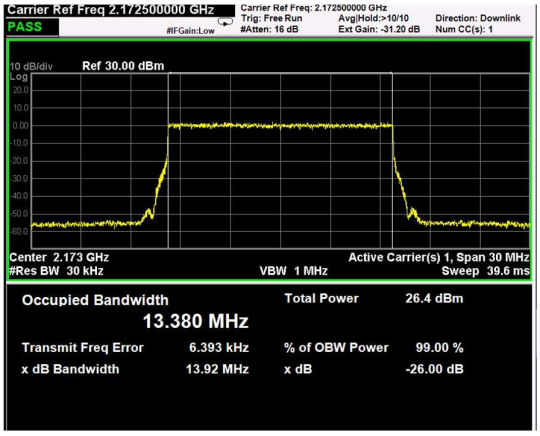

Channel: MIDDLE, Modulation: 64QAM, BW=15MHz



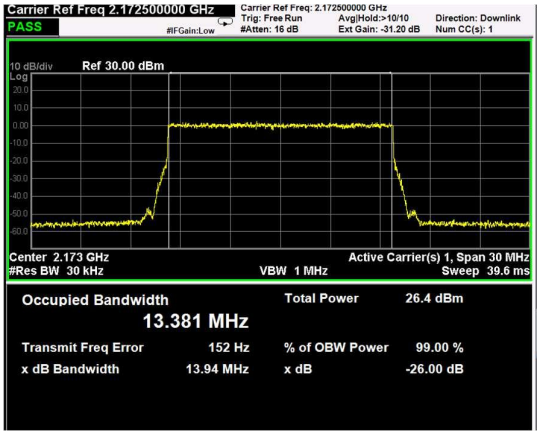

Channel: MIDDLE, Modulation: 256QAM, BW=15MHz



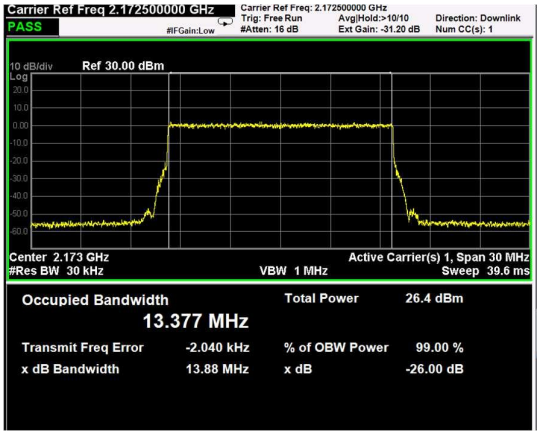

Channel: TOP, Modulation: QPSK, BW=15MHz



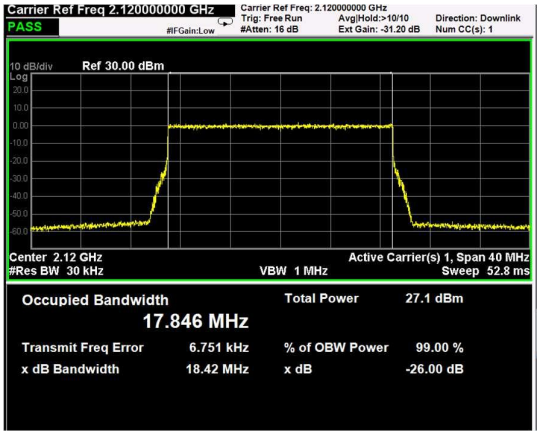

Channel: TOP, Modulation: 16QAM, BW=15MHz



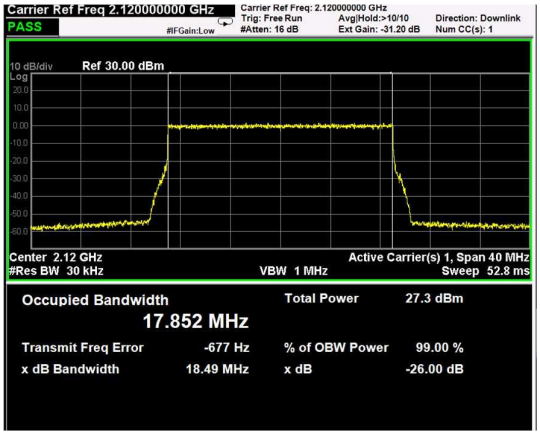

Channel: TOP, Modulation: 64QAM, BW=15MHz



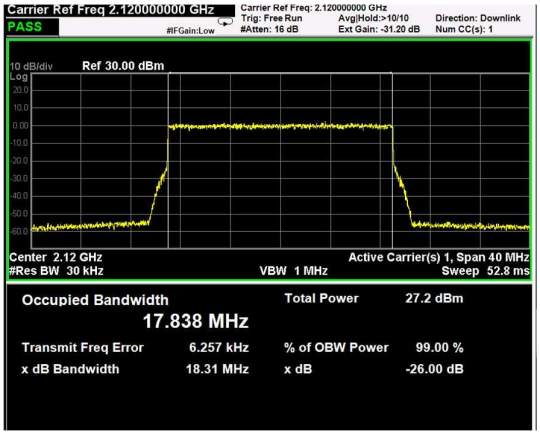

Channel: TOP, Modulation: 256QAM, BW=15MHz



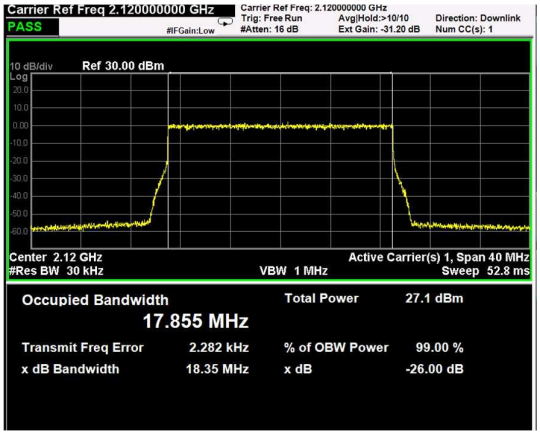

Channel: BOTTOM, Modulation: QPSK, BW=20MHz



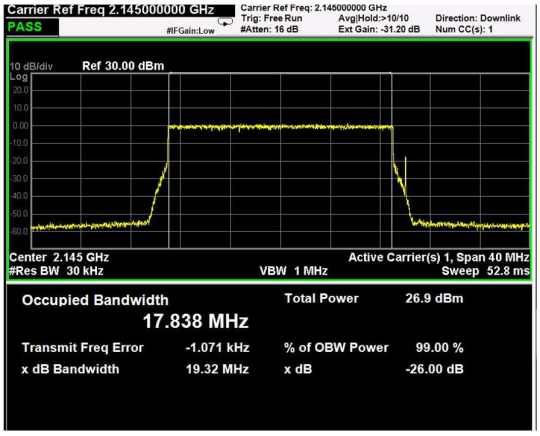

Channel: BOTTOM, Modulation: 16QAM, BW=20MHz



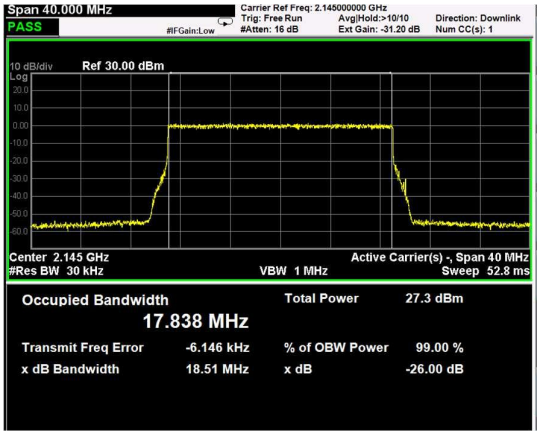

Channel: BOTTOM, Modulation: 64QAM, BW=20MHz



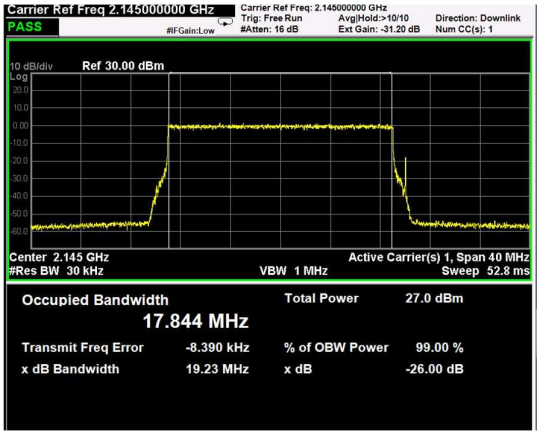

Channel: BOTTOM, Modulation: 256QAM, BW=20MHz



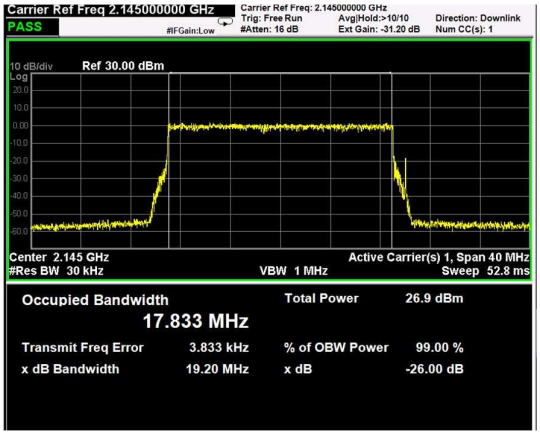

Channel: MIDDLE, Modulation: QPSK, BW=20MHz



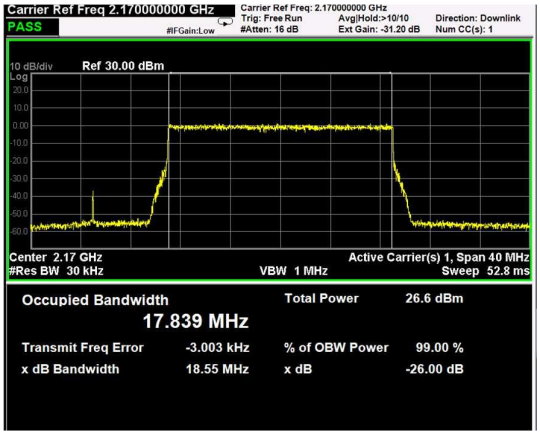

Channel: MIDDLE, Modulation: 16QAM, BW=20MHz



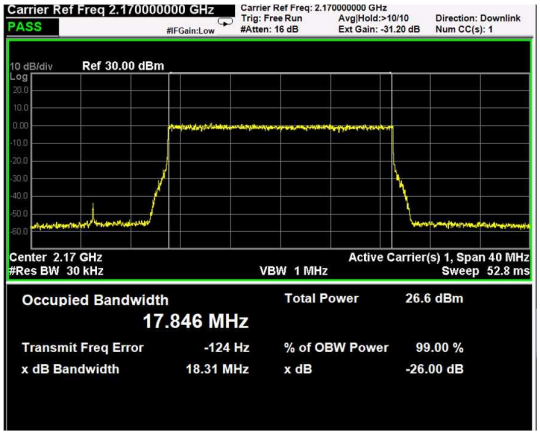

Channel: MIDDLE, Modulation: 64QAM, BW=20MHz



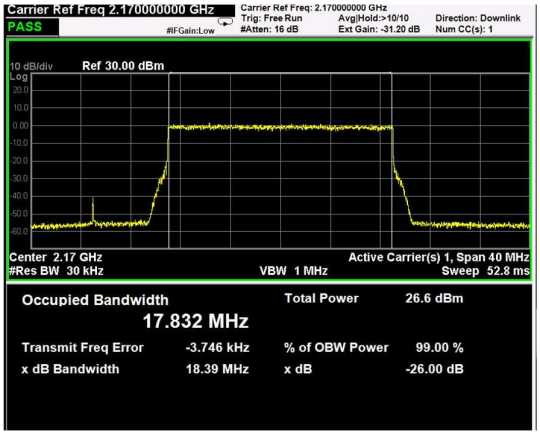

Channel: MIDDLE, Modulation: 256QAM, BW=20MHz



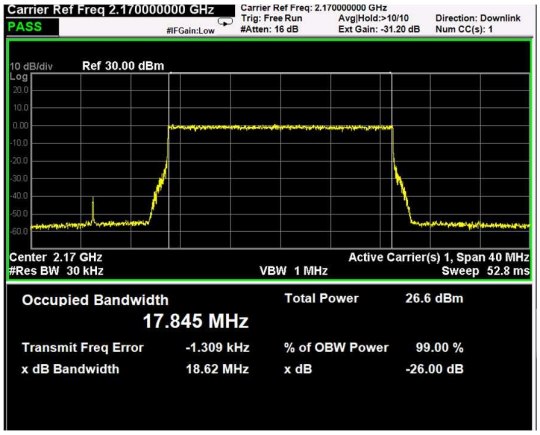

Channel: TOP, Modulation: QPSK, BW=20MHz




Channel: TOP, Modulation: 16QAM, BW=20MHz




Channel: TOP, Modulation: 64QAM, BW=20MHz




Channel: TOP, Modulation: 256QAM, BW=20MHz

## Clause 27.50(d) Peak output power at RF antenna connector

**§ 27.50(d) The following power and antenna height requirements apply to stations transmitting in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz and 2180-2200 MHz bands:**

(2) The power of each fixed or base station transmitting in the 1995-2000 MHz, the 2110-2155 MHz 2155-2180 MHz band, or 2180-2200 MHz band and situated in any geographic location other than that described in paragraph (d)(1) of this section is limited to:
(i) An equivalent isotropically radiated power (EIRP) of 1640 watts when transmitting with an emission bandwidth of 1 MHz or less;
(ii) An EIRP of 1640 watts/MHz when transmitting with an emission bandwidth greater than 1 MHz.

(5) Equipment employed must be authorized in accordance with the provisions of §24.51. Power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with paragraph (d)(6) of this section. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

Test date: 10/21/2019 to 12/13/2019

Test results: Pass

### Special notes

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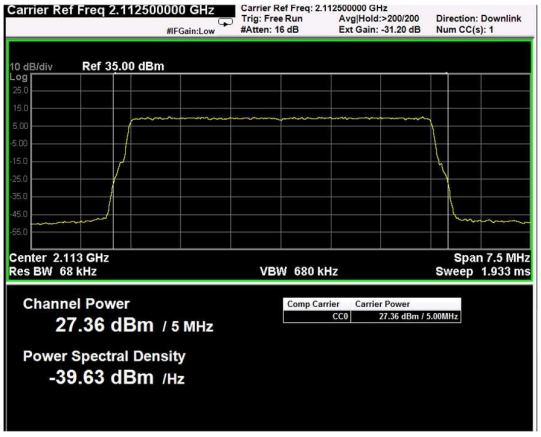
## Clause 27.50(d) Peak output power at RF antenna connector

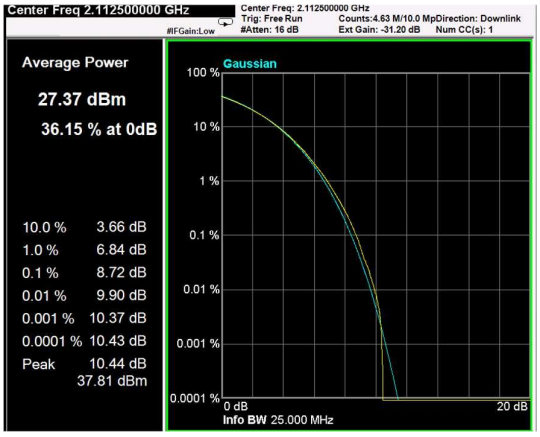
## Test data

### RF PORT 1

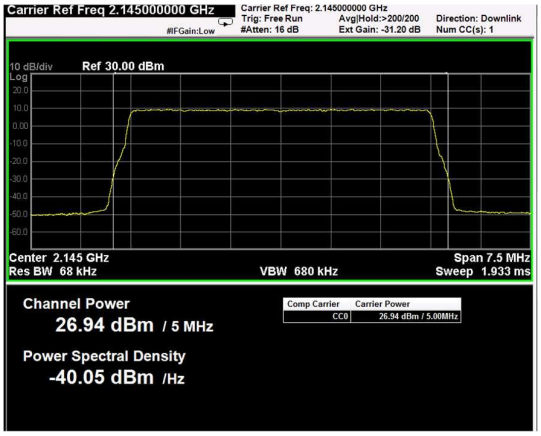
| Test data | | | | | |
|---|---|---|---|---|---|
| Direction | Modulation | Frequency (MHz) | RF output Power (dBm) | RF output channel Power (W) | PAR (dB) |
| Down-link | LTE 5MHz (QPSK) | 2112.5 | 27.4 | 0.545 | 10.4 |
| Down-link | LTE 5MHz (QPSK) | 2145 | 26.9 | 0.494 | 10.4 |
| Down-link | LTE 5MHz (QPSK) | 2177.5 | 26.2 | 0.418 | 10.4 |
| Down-link | LTE 5MHz (16QAM) | 2112.5 | 27.4 | 0.546 | 10.4 |
| Down-link | LTE 5MHz (16QAM) | 2145 | 26.9 | 0.493 | 10.4 |
| Down-link | LTE 5MHz (16QAM) | 2177.5 | 26.2 | 0.419 | 10.4 |
| Down-link | LTE 5MHz (64QAM) | 2112.5 | 27.4 | 0.546 | 10.4 |
| Down-link | LTE 5MHz (64QAM) | 2145 | 27.0 | 0.495 | 10.3 |
| Down-link | LTE 5MHz (64QAM) | 2177.5 | 26.2 | 0.414 | 10.4 |
| Down-link | LTE 5MHz (256QAM) | 2112.5 | 27.4 | 0.543 | 10.4 |
| Down-link | LTE 5MHz (256QAM) | 2145 | 26.9 | 0.493 | 10.4 |
| Down-link | LTE 5MHz (256QAM) | 2177.5 | 26.2 | 0.414 | 10.5 |



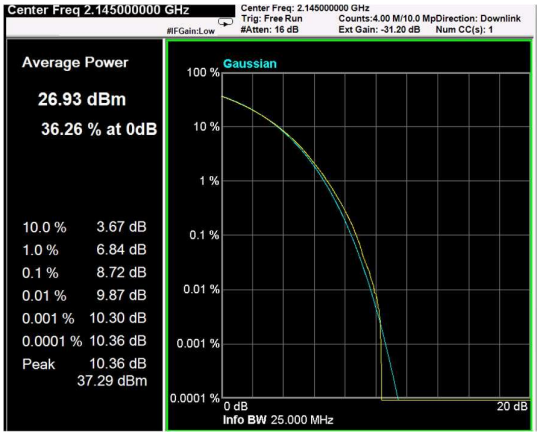

Channel: BOTTOM, Modulation: QPSK, BW=5MHz, Channel Power



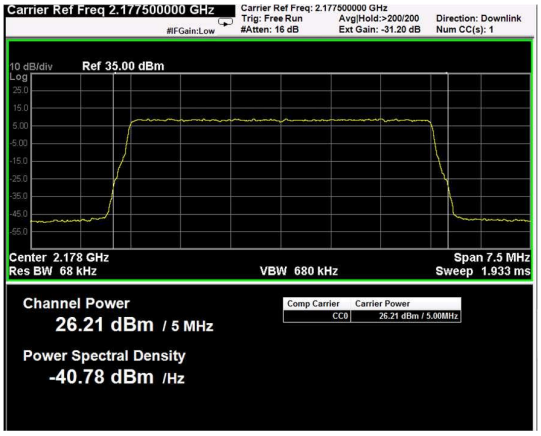

Channel: BOTTOM, Modulation: QPSK, BW=5MHz, CCDF



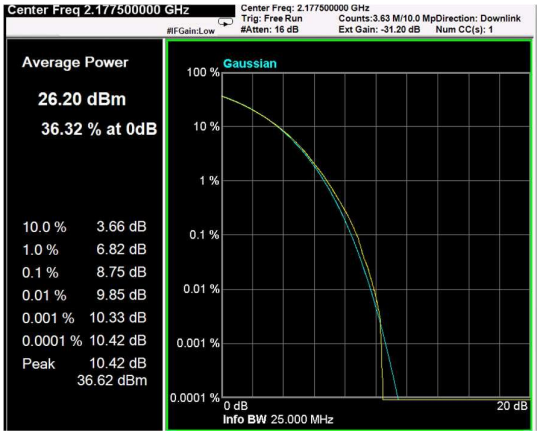

Channel: MIDDLE, Modulation: QPSK, BW=5MHz, Channel Power



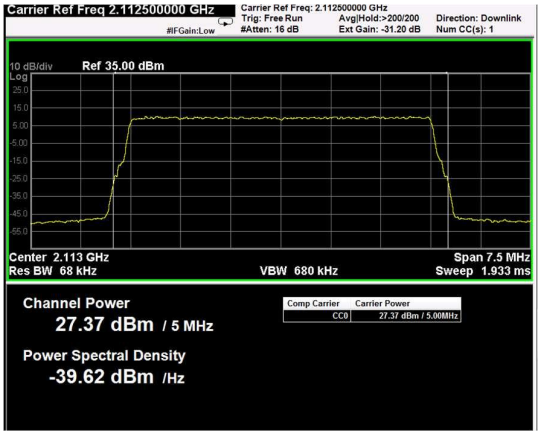

Channel: MIDDLE, Modulation: QPSK, BW=5MHz, CCDF



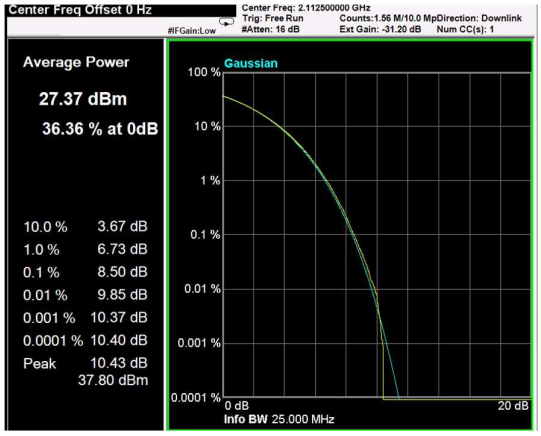

Channel: TOP, Modulation: QPSK, BW=5MHz, Channel Power



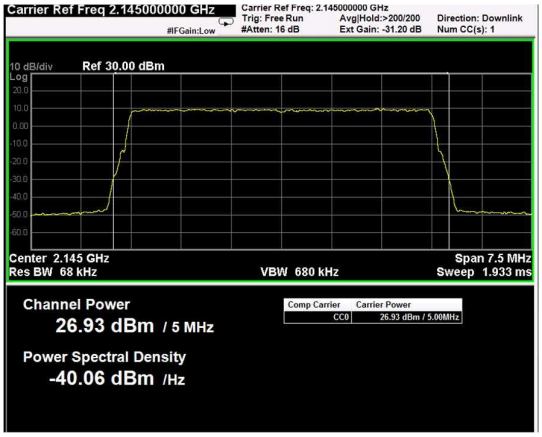

Channel: TOP, Modulation: QPSK, BW=5MHz, CCDF



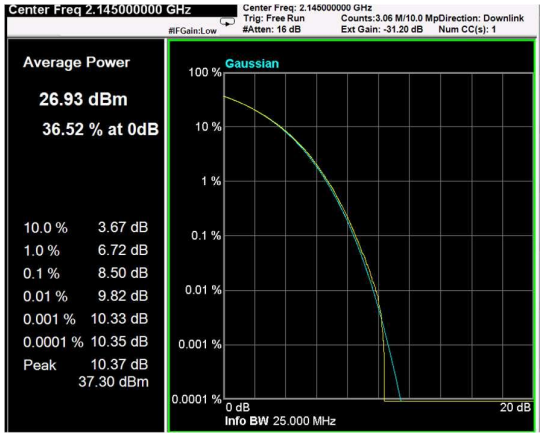

Channel: BOTTOM, Modulation: 16QAM, BW=5MHz, Channel Power



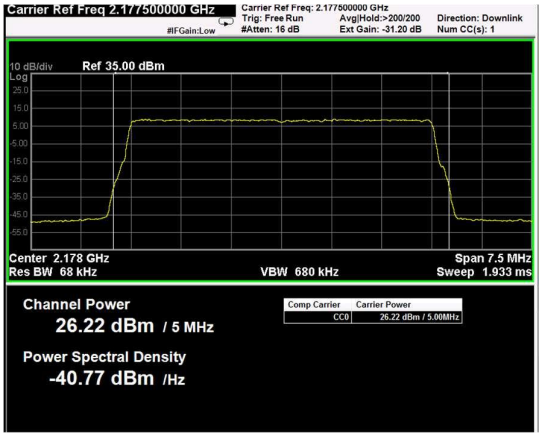

Channel: BOTTOM, Modulation: 16QAM, BW=5MHz, CCDF



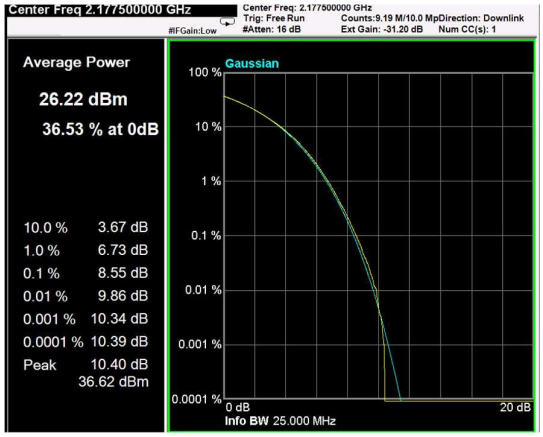

Channel: MIDDLE, Modulation: 16QAM, BW=5MHz, Channel Power



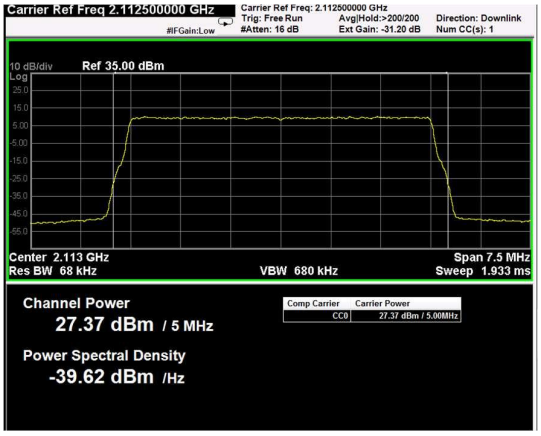

Channel: MIDDLE, Modulation: 16QAM, BW=5MHz, CCDF



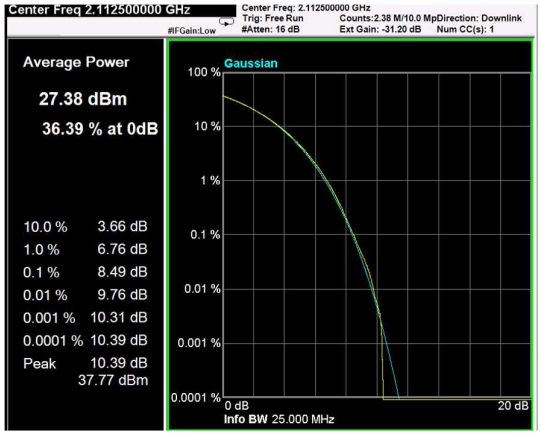

Channel: TOP, Modulation: 16QAM, BW=5MHz, Channel Power



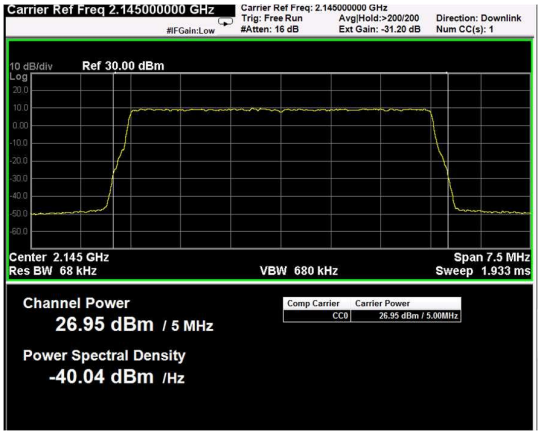

Channel: TOP, Modulation: 16QAM, BW=5MHz, CCDF



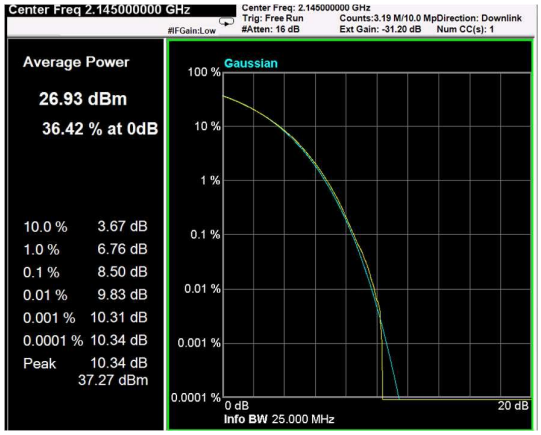

Channel: BOTTOM, Modulation: 64QAM, BW=5MHz, Channel Power



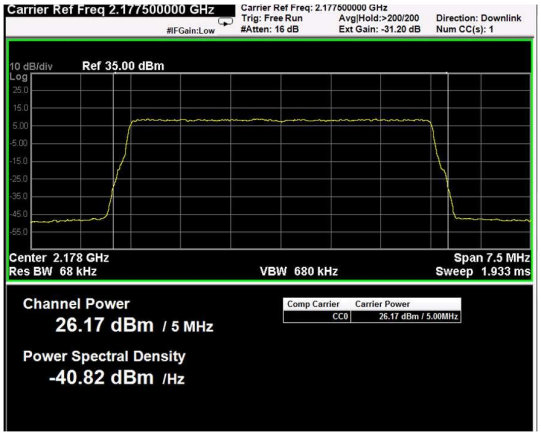

Channel: BOTTOM, Modulation: 64QAM, BW=5MHz, CCDF



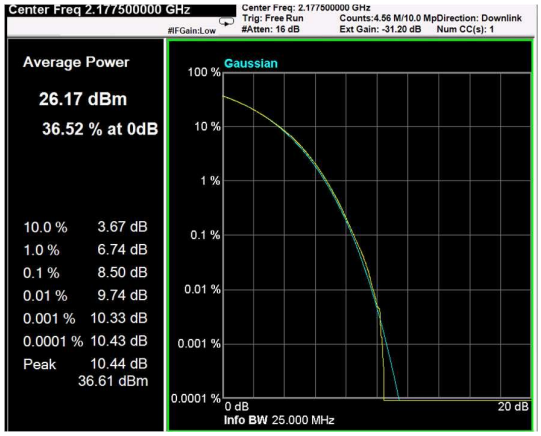

Channel: MIDDLE, Modulation: 64QAM, BW=5MHz, Channel Power



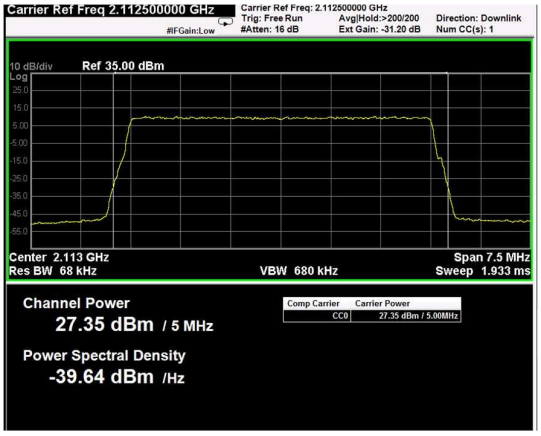

Channel: MIDDLE, Modulation: 64QAM, BW=5MHz, CCDF



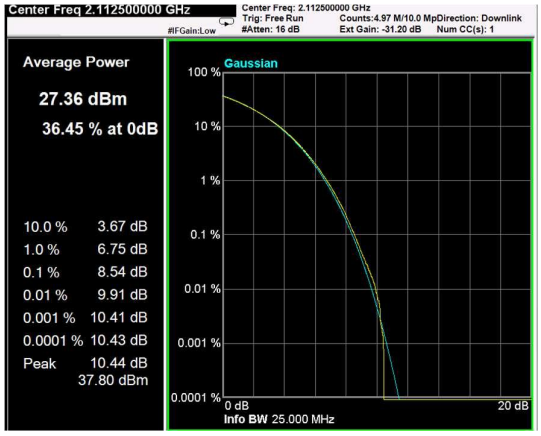

Channel: TOP, Modulation: 64QAM, BW=5MHz, Channel Power



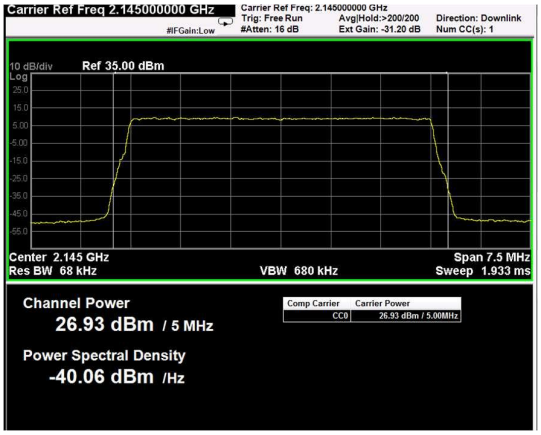

Channel: TOP, Modulation: 64QAM, BW=5MHz, CCDF



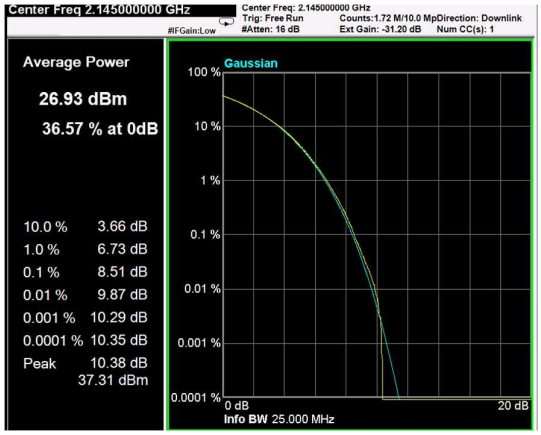

Channel: BOTTOM, Modulation: 256QAM, BW=5MHz, Channel Power



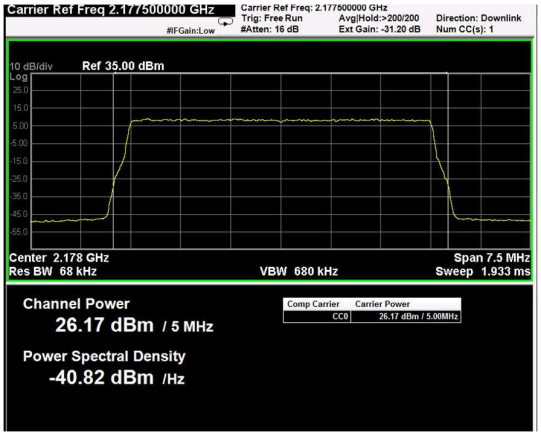

Channel: BOTTOM, Modulation: 256QAM, BW=5MHz, CCDF



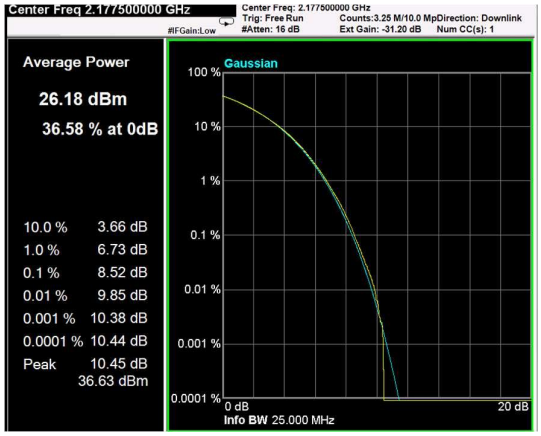

Channel: MIDDLE, Modulation: 256QAM, BW=5MHz, Channel Power




Channel: MIDDLE, Modulation: 256QAM, BW=5MHz, CCDF




Channel: TOP, Modulation: 256QAM, BW=5MHz, Channel Power




Channel: TOP, Modulation: 256QAM, BW=5MHz, CCDF

| Test data | | | | | |
|---|---|---|---|---|---|
| Direction | Modulation | Frequency (MHz) | RF output Power (dBm) | RF output channel Power (W) | PAR (dB) |
| Down-link | LTE 10MHz (QPSK) | 2115 | 27.1 | 0.515 | 9.4 |
| Down-link | LTE 10MHz (QPSK) | 2145 | 27.0 | 0.504 | 9.1 |
| Down-link | LTE 10MHz (QPSK) | 2175 | 26.4 | 0.432 | 9.1 |
| Down-link | LTE 10MHz (16QAM) | 2115 | 27.2 | 0.519 | 9.3 |
| Down-link | LTE 10MHz (16QAM) | 2145 | 27.0 | 0.502 | 9.1 |
| Down-link | LTE 10MHz (16QAM) | 2175 | 26.3 | 0.430 | 9.1 |
| Down-link | LTE 10MHz (64QAM) | 2115 | 27.1 | 0.516 | 9.3 |
| Down-link | LTE 10MHz (64QAM) | 2145 | 27.0 | 0.499 | 9.1 |
| Down-link | LTE 10MHz (64QAM) | 2175 | 26.3 | 0.430 | 9.1 |
| Down-link | LTE 10MHz (256QAM) | 2115 | 27.1 | 0.513 | 9.3 |
| Down-link | LTE 10MHz (256QAM) | 2145 | 27.0 | 0.504 | 9.1 |
| Down-link | LTE 10MHz (256QAM) | 2175 | 26.4 | 0.432 | 9.1 |