



Band5 / 1.4MHz / High CH / QPSK



Band5 / 1.4MHz / High CH / 16QAM



Band5 / 1.4MHz / High CH / 64QAM



Band5 / 3MHz / Low CH / QPSK



Band5 / 3MHz / Low CH / 16QAM

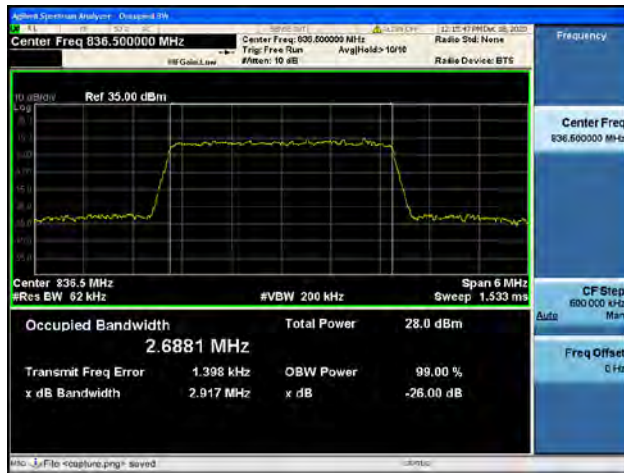


Band5 / 3MHz / Low CH / 64QAM

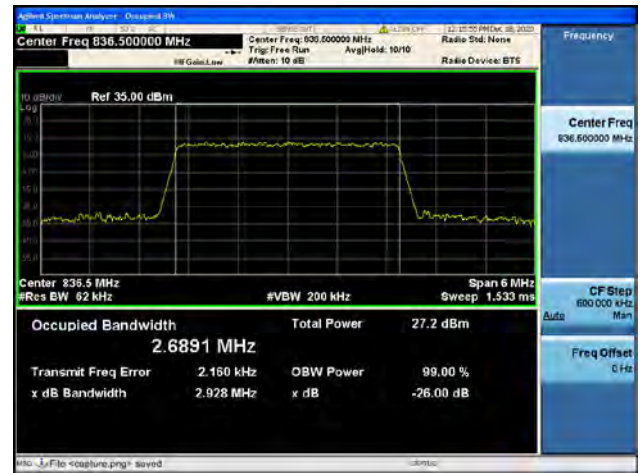




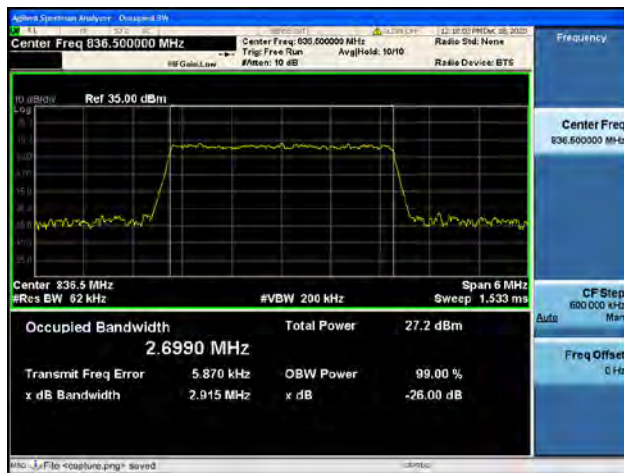
Band5 / 3MHz / Mid CH / QPSK



Band5 / 3MHz / Mid CH / 16QAM



Band5 / 3MHz / Mid CH / 64QAM



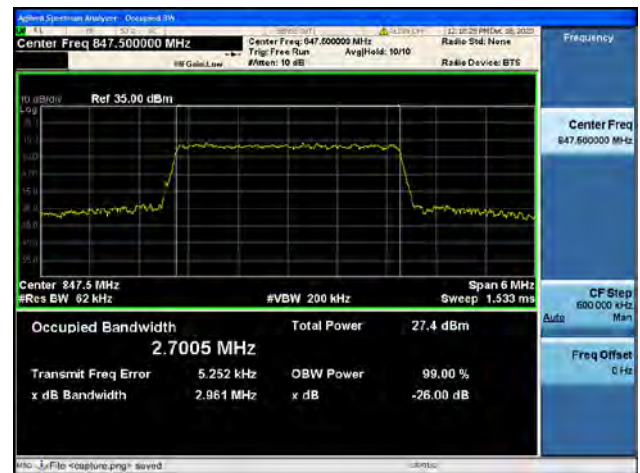
Band5 / 3MHz / High CH / QPSK



Band5 / 3MHz / High CH / 16QAM



Band5 / 3MHz / High CH / 64QAM





Band5 / 5MHz / Low CH / QPSK



Band5 / 5MHz / Low CH / 16QAM



Band5 / 5MHz / Low CH / 64QAM



Band5 / 5MHz / Mid CH / QPSK



Band5 / 5MHz / Mid CH / 16QAM

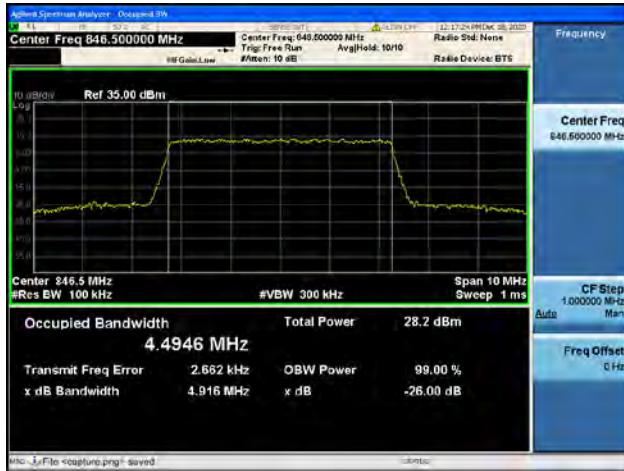


Band5 / 5MHz / Mid CH / 64QAM





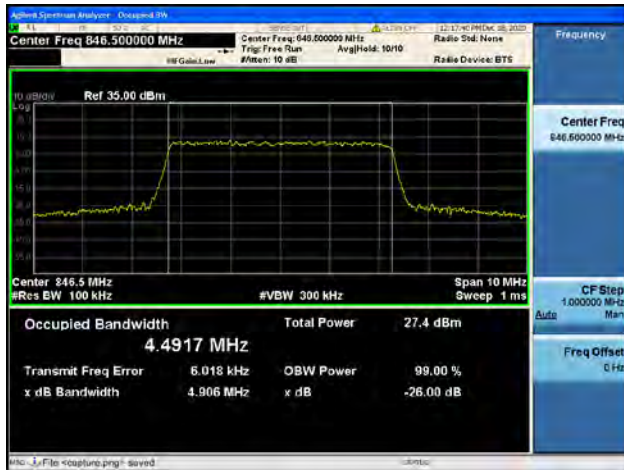
Band5 / 5MHz / High CH / QPSK



Band5 / 5MHz / High CH / 16QAM



Band5 / 5MHz / High CH / 64QAM



Band5 / 10MHz / Low CH / QPSK



Band5 / 10MHz / Low CH / 16QAM

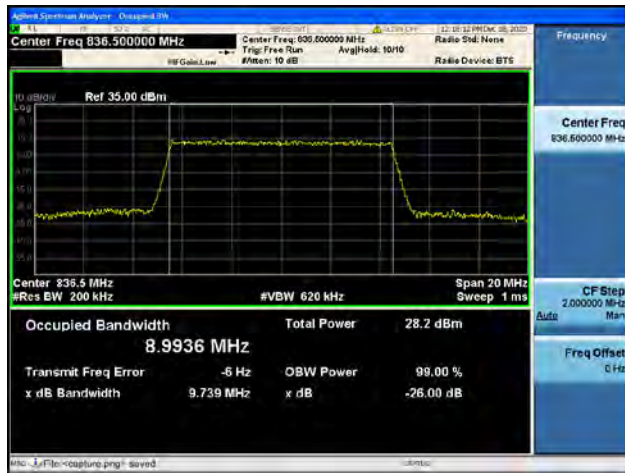


Band5 / 10MHz / Low CH / 64QAM





Band5 / 10MHz / Mid CH / QPSK



Band5 / 10MHz / Mid CH / 16QAM



Band5 / 10MHz / Mid CH / 64QAM



Band5 / 10MHz / High CH / QPSK



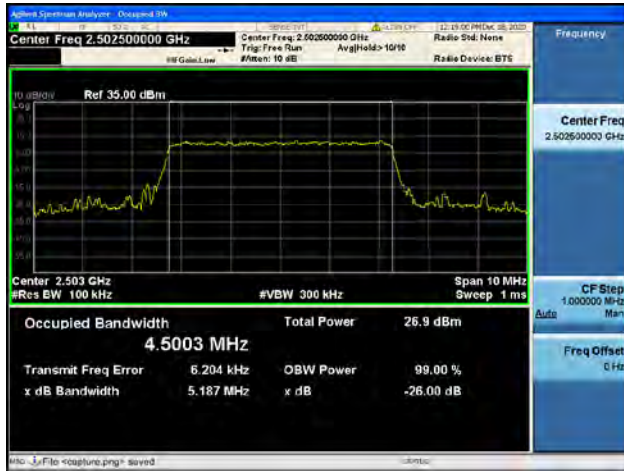
Band5 / 10MHz / High CH / 16QAM



Band5 / 10MHz / High CH / 64QAM



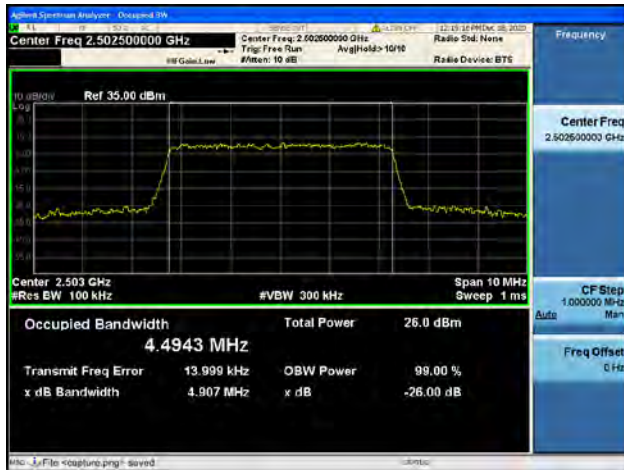
Band7 / 5MHz / Low CH / QPSK



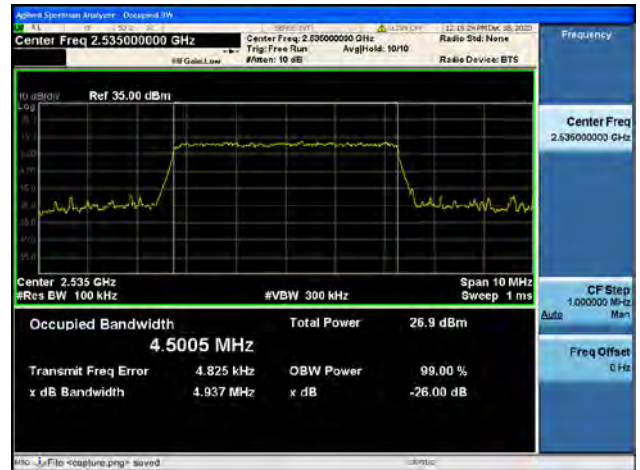
Band7 / 5MHz / Low CH / 16QAM



Band7 / 5MHz / Low CH / 64QAM



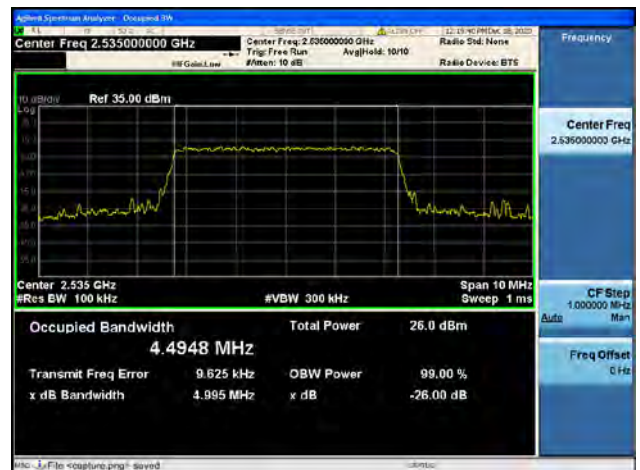
Band7 / 5MHz / Mid CH / QPSK



Band7 / 5MHz / Mid CH / 16QAM



Band7 / 5MHz / Mid CH / 64QAM





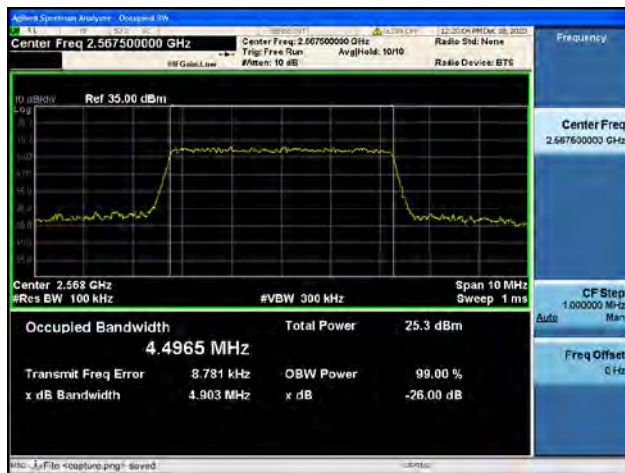
Band7 / 5MHz / High CH / QPSK



Band7 / 5MHz / High CH / 16QAM



Band7 / 5MHz / High CH / 64QAM



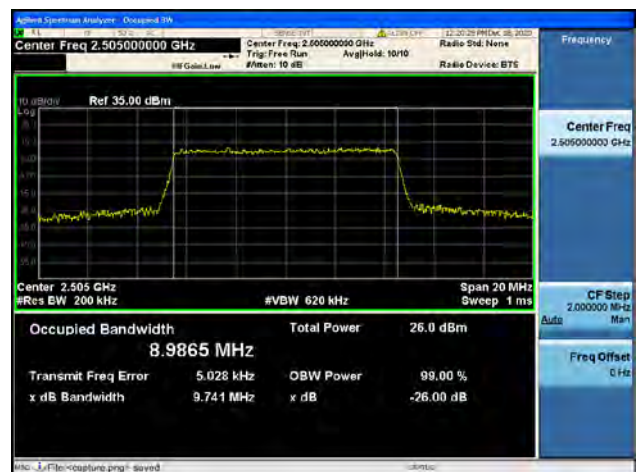
Band7 / 10MHz / Low CH / QPSK



Band7 / 10MHz / Low CH / 16QAM



Band7 / 10MHz / Low CH / 64QAM





Band7 / 10MHz / Mid CH / QPSK



Band7 / 10MHz / Mid CH / 16QAM



Band7 / 10MHz / Mid CH / 64QAM



Band7 / 10MHz / High CH / QPSK



Band7 / 10MHz / High CH / 16QAM

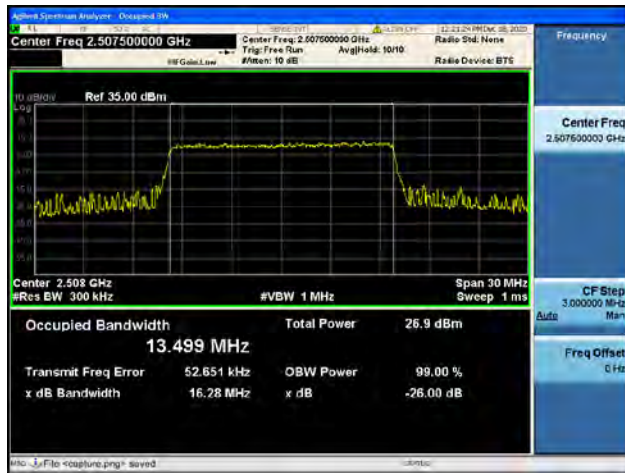


Band7 / 10MHz / High CH / 64QAM

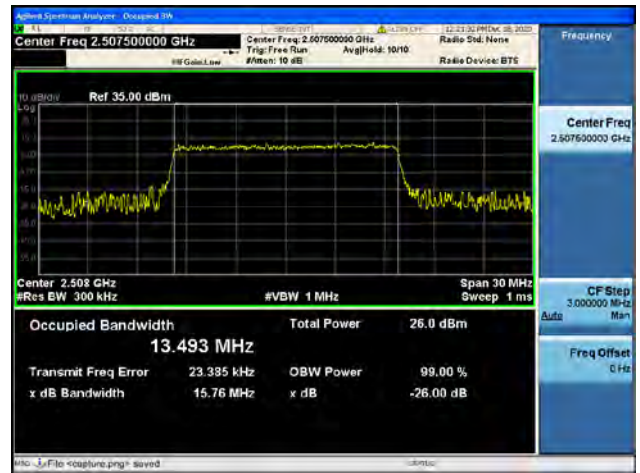




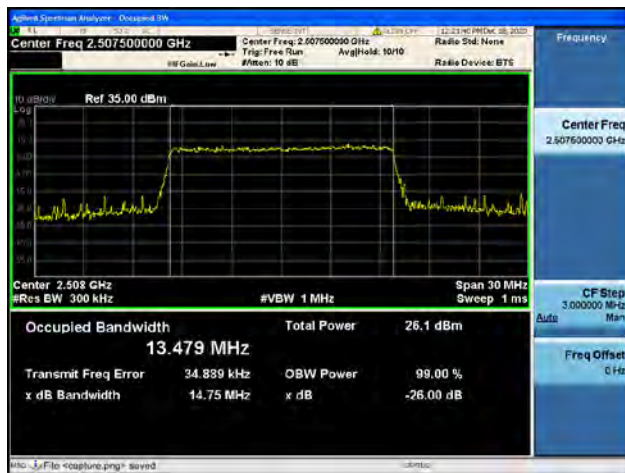
Band7 / 15MHz / Low CH / QPSK



Band7 / 15MHz / Low CH / 16QAM



Band7 / 15MHz / Low CH / 64QAM



Band7 / 15MHz / Mid CH / QPSK



Band7 / 15MHz / Mid CH / 16QAM

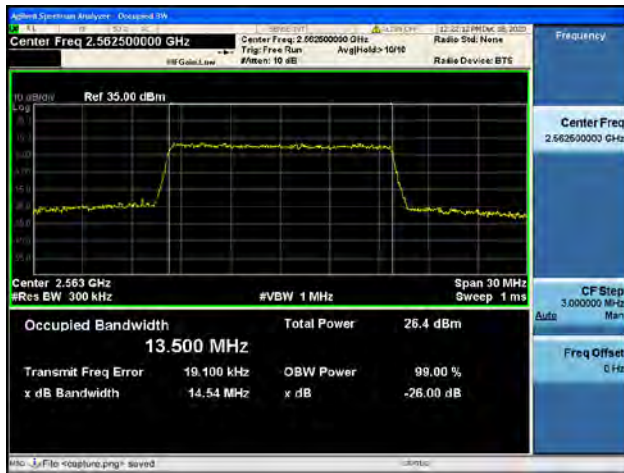


Band7 / 15MHz / Mid CH / 64QAM





Band7 / 15MHz / High CH / QPSK



Band7 / 15MHz / High CH / 16QAM



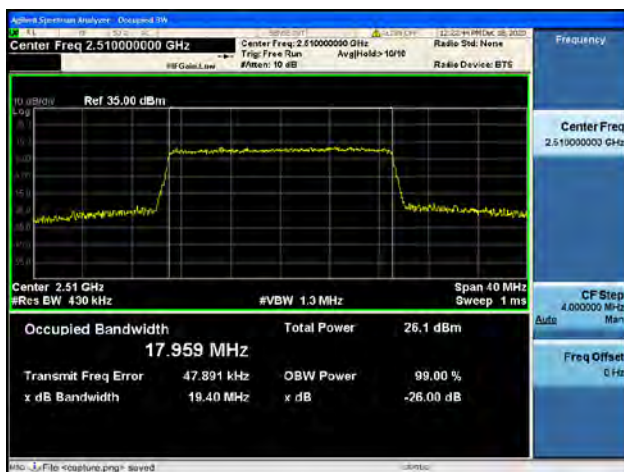
Band7 / 15MHz / High CH / 64QAM



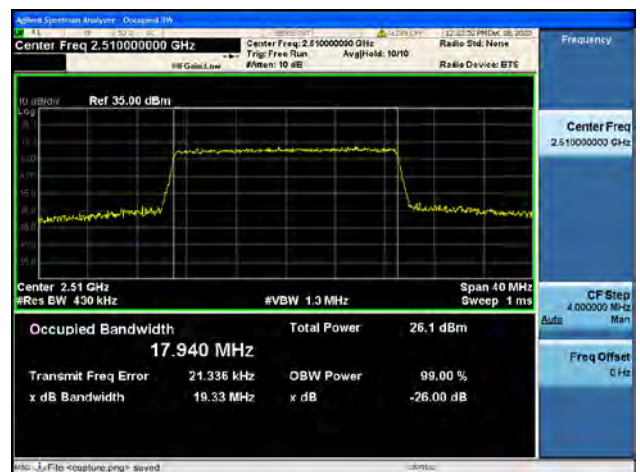
Band7 / 20MHz / Low CH / QPSK



Band7 / 20MHz / Low CH / 16QAM

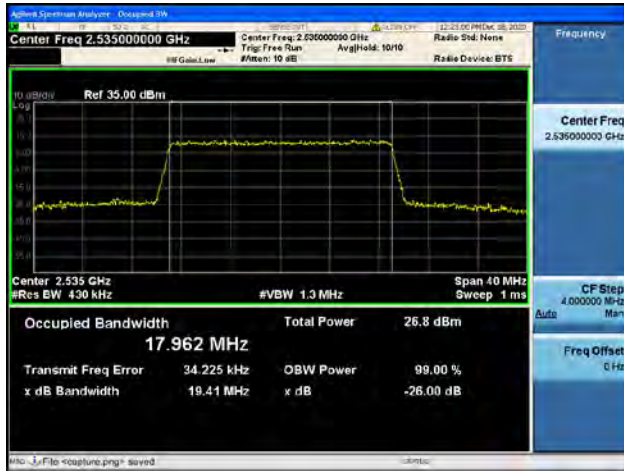


Band7 / 20MHz / Low CH / 64QAM

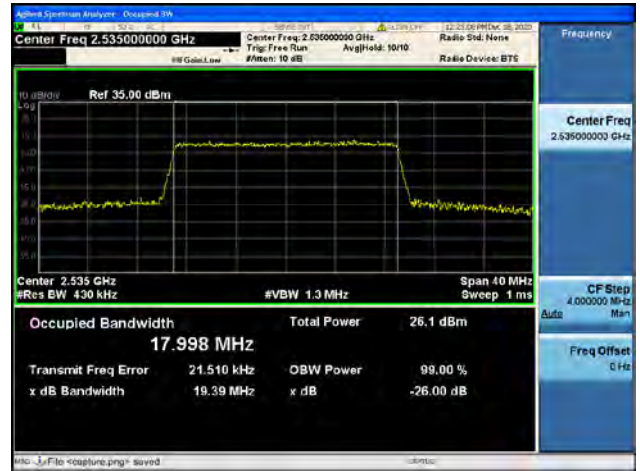




Band7 / 20MHz / Mid CH / QPSK



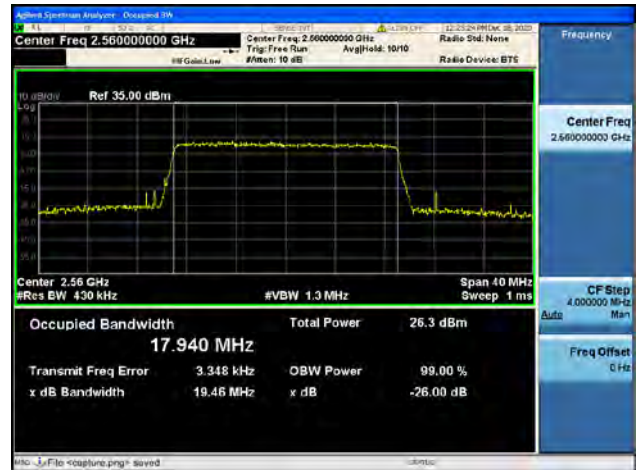
Band7 / 20MHz / Mid CH / 16QAM



Band7 / 20MHz / Mid CH / 64QAM



Band7 / 20MHz / High CH / QPSK



Band7 / 20MHz / High CH / 16QAM

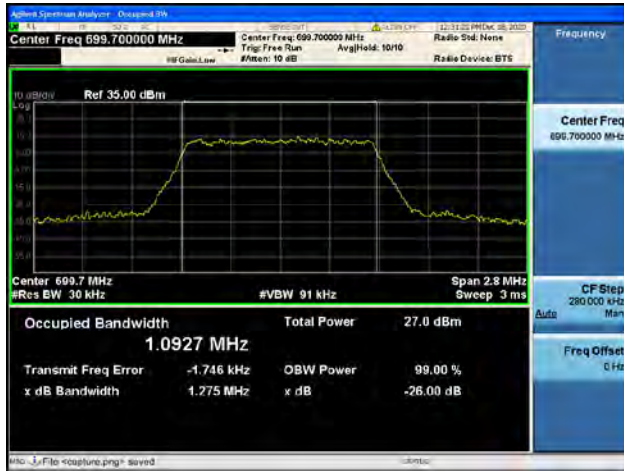


Band7 / 20MHz / High CH / 64QAM





Band12 / 1.4MHz / Low CH / QPSK



Band12 / 1.4MHz / Low CH / 16QAM



Band12 / 1.4MHz / Low CH / 64QAM



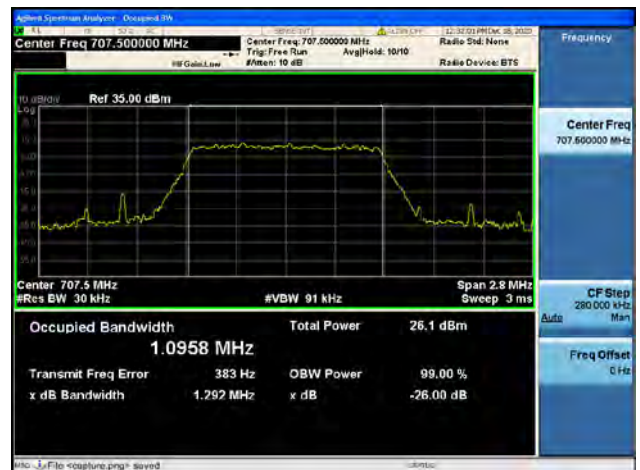
Band12 / 1.4MHz / Mid CH / QPSK

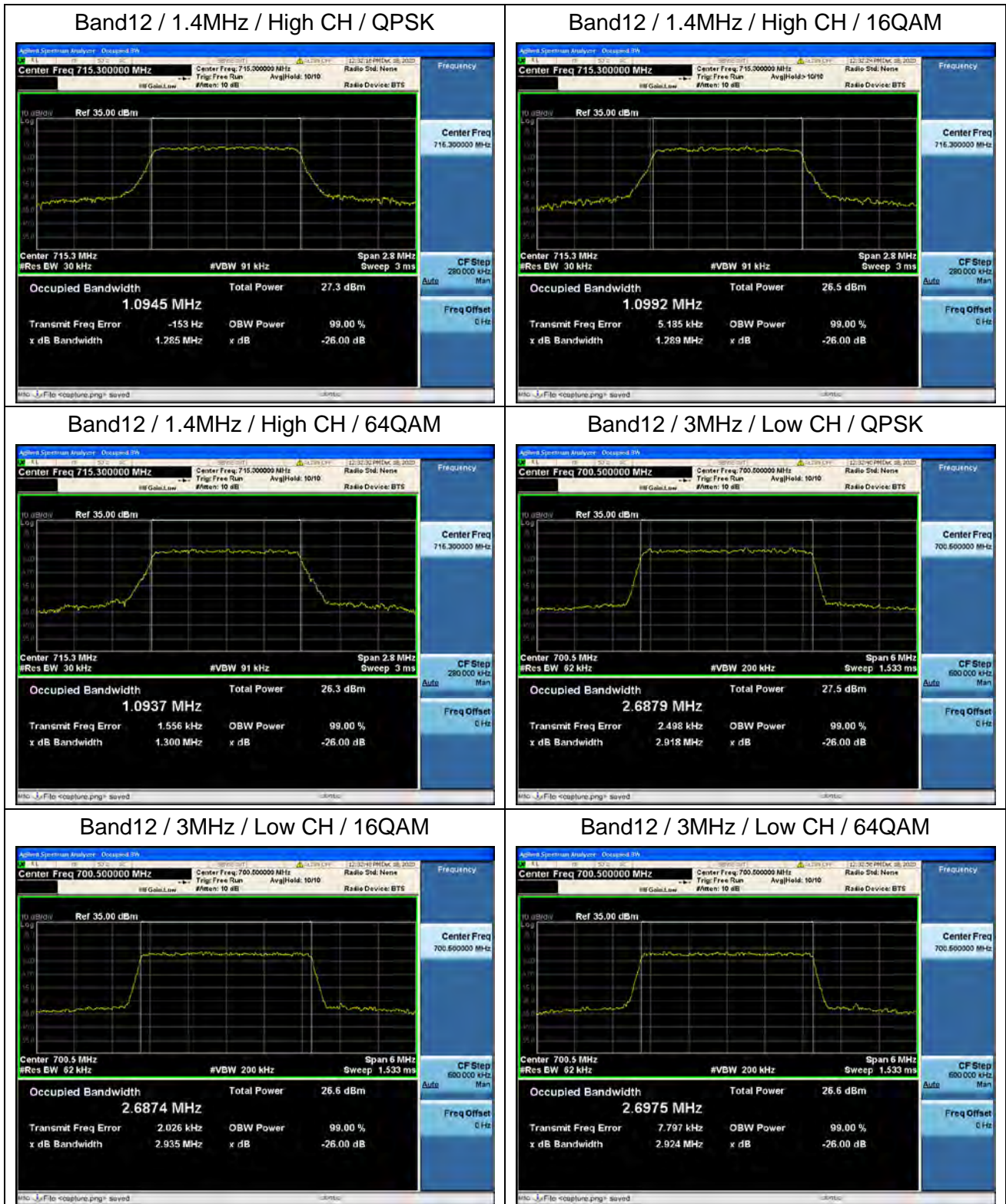


Band12 / 1.4MHz / Mid CH / 16QAM



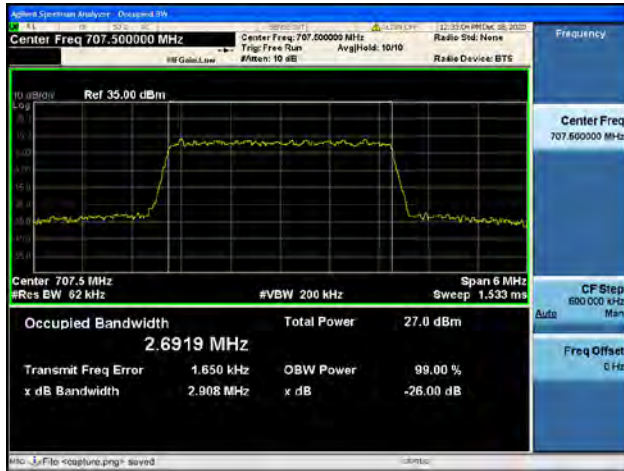
Band12 / 1.4MHz / Mid CH / 64QAM



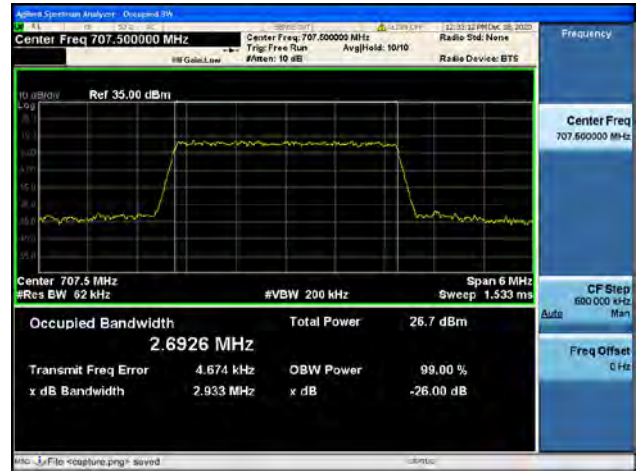




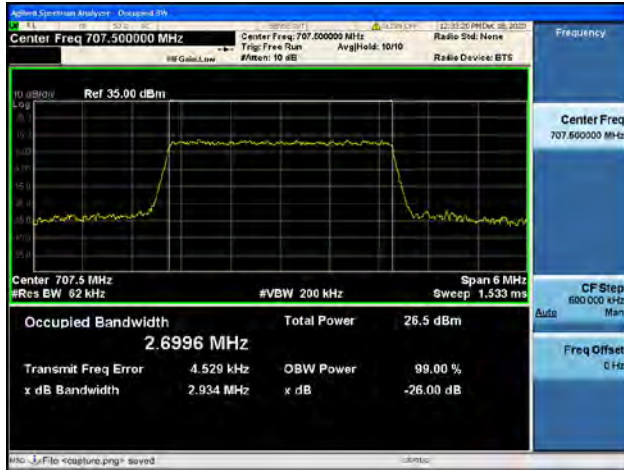
Band12 / 3MHz / Mid CH / QPSK



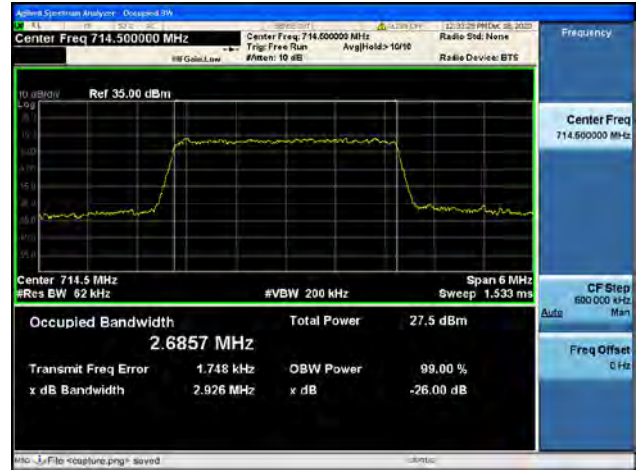
Band12 / 3MHz / Mid CH / 16QAM



Band12 / 3MHz / Mid CH / 64QAM



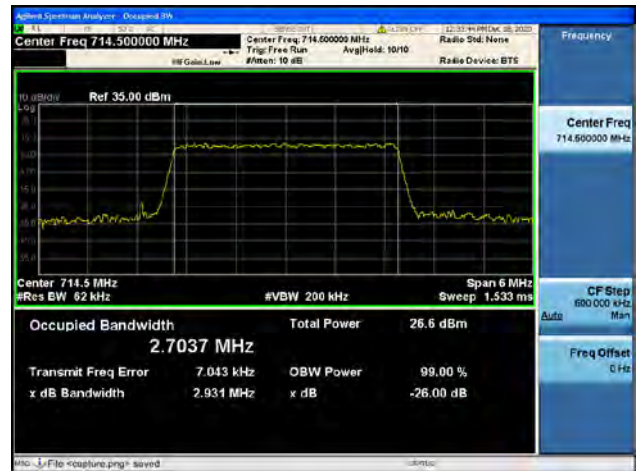
Band12 / 3MHz / High CH / QPSK



Band12 / 3MHz / High CH / 16QAM

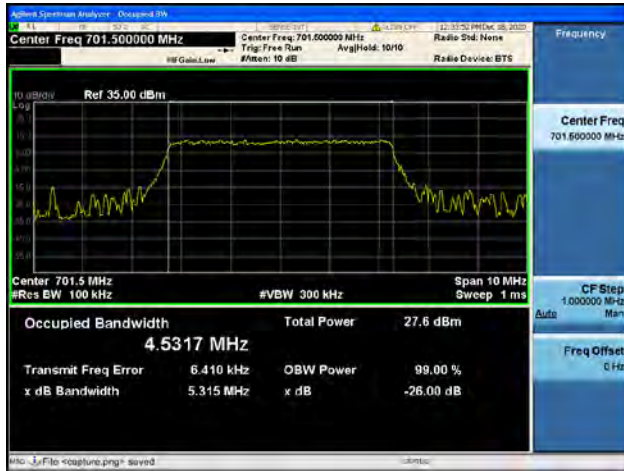


Band12 / 3MHz / High CH / 64QAM





Band12 / 5MHz / Low CH / QPSK



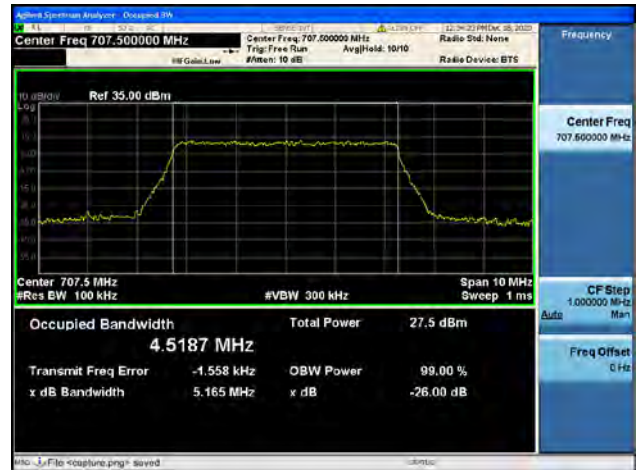
Band12 / 5MHz / Low CH / 16QAM



Band12 / 5MHz / Low CH / 64QAM



Band12 / 5MHz / Mid CH / QPSK



Band12 / 5MHz / Mid CH / 16QAM

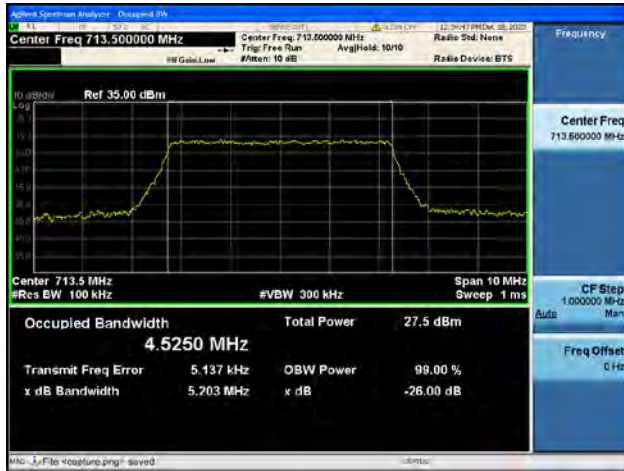


Band12 / 5MHz / Mid CH / 64QAM

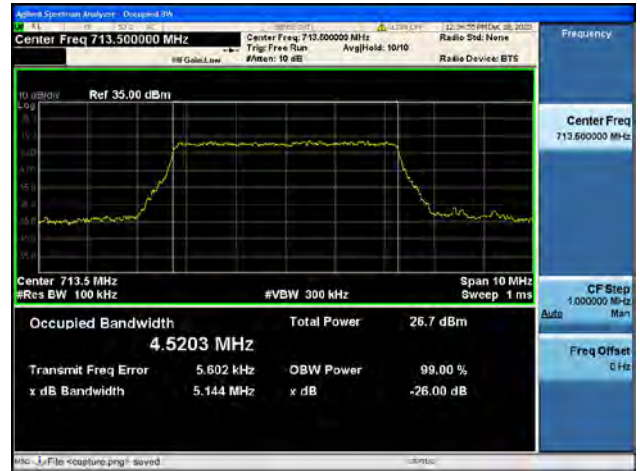




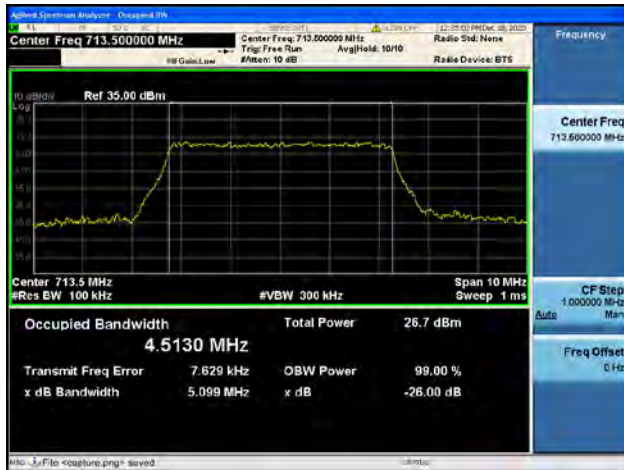
Band12 / 5MHz / High CH / QPSK



Band12 / 5MHz / High CH / 16QAM



Band12 / 5MHz / High CH / 64QAM



Band12 / 10MHz / Low CH / QPSK



Band12 / 10MHz / Low CH / 16QAM

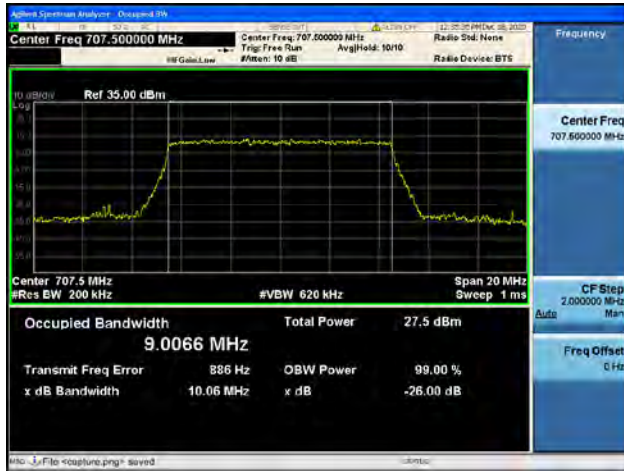


Band12 / 10MHz / Low CH / 64QAM

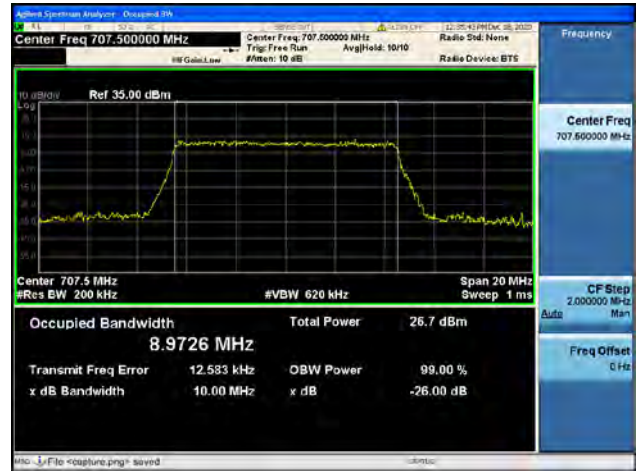




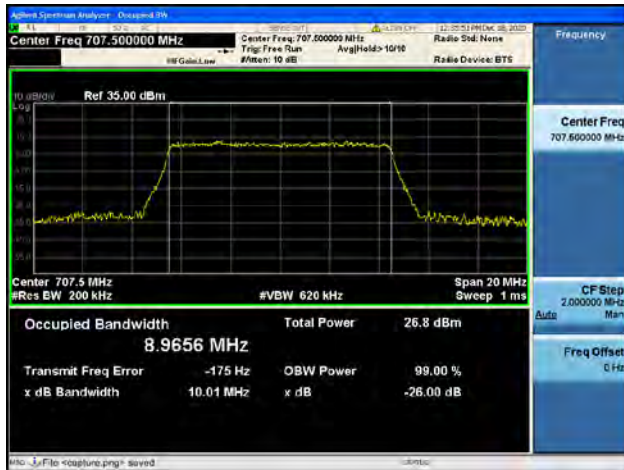
Band12 / 10MHz / Mid CH / QPSK



Band12 / 10MHz / Mid CH / 16QAM



Band12 / 10MHz / Mid CH / 64QAM



Band12 / 10MHz / High CH / QPSK



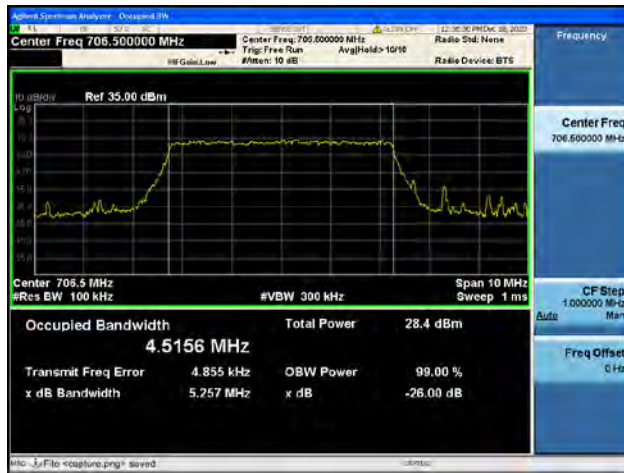
Band12 / 10MHz / High CH / 16QAM



Band12 / 10MHz / High CH / 64QAM



Band17 / 5MHz / Low CH / QPSK



Band17 / 5MHz / Low CH / 16QAM



Band17 / 5MHz / Low CH / 64QAM



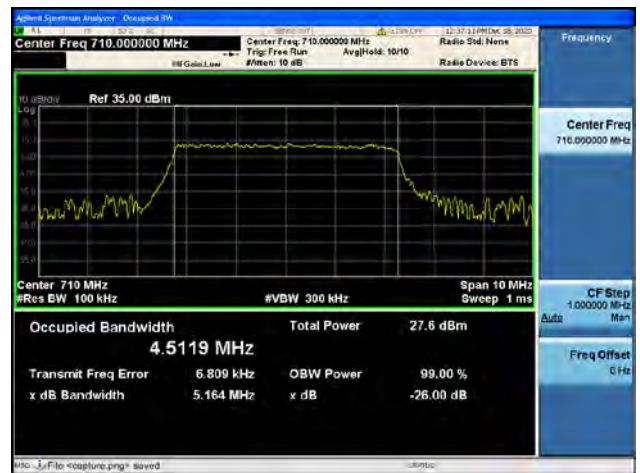
Band17 / 5MHz / Mid CH / QPSK



Band17 / 5MHz / Mid CH / 16QAM

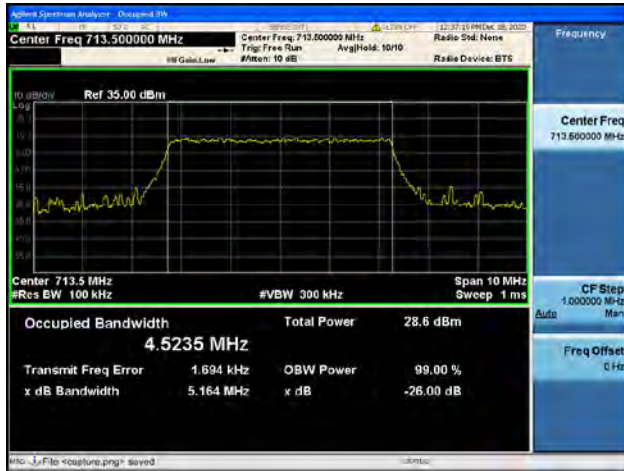


Band17 / 5MHz / Mid CH / 64QAM

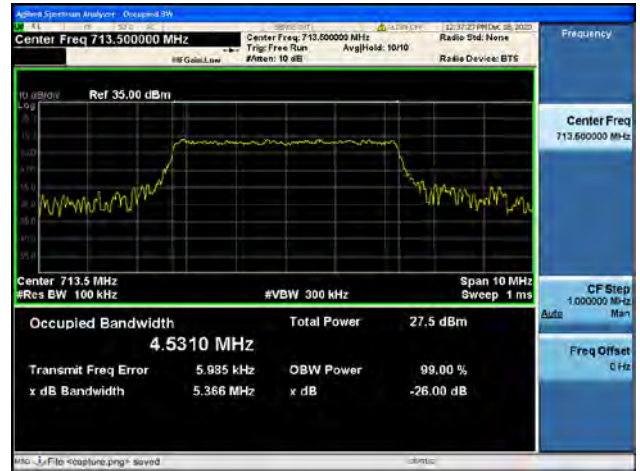




Band17 / 5MHz / High CH / QPSK



Band17 / 5MHz / High CH / 16QAM



Band17 / 5MHz / High CH / 64QAM



Band17 / 10MHz / Low CH / QPSK



Band17 / 10MHz / Low CH / 16QAM



Band17 / 10MHz / Low CH / 64QAM





Band17 / 10MHz / Mid CH / QPSK



Band17 / 10MHz / Mid CH / 16QAM



Band17 / 10MHz / Mid CH / 64QAM



Band17 / 10MHz / High CH / QPSK



Band17 / 10MHz / High CH / 16QAM



Band17 / 10MHz / High CH / 64QAM



2.3. Frequency Stability

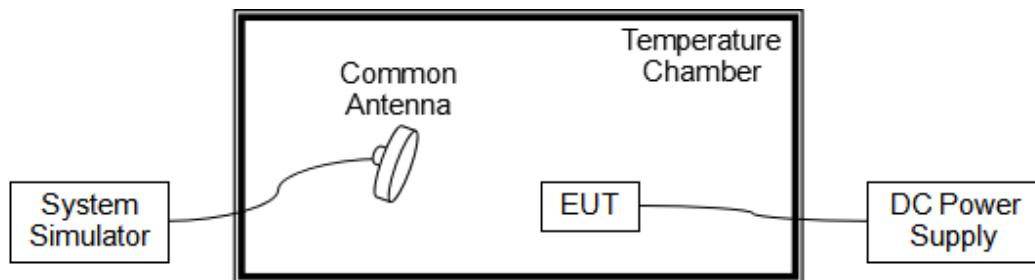
2.3.1. Requirement

According to FCC section 2.1055, 24.235, 27.54, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. According to FCC section 2.1055, the test conditions are:

- (a) The temperature is varied from -30°C to $+50^{\circ}\text{C}$ at intervals of not more than 10°C .
- (b) For hand carried battery powered equipment, the primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacture. The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

Note: The operating temperature of EUT is from 0°C to 55°C , which are specified by the applicant.

2.3.2. Test Description



The EUT which is powered by the DC Power Supply directly, is located in the Temperature Chamber. The EUT is commanded by the System Simulator (SS) to operate at the maximum output power. A call is established between the EUT and the SS via a Common Antenna.

2.3.3. Test Procedure

KDB 971168 D01v03 Section 9.0 and ANSI/TIA-603-E-2016.



2.3.4. Test Result

The nominal, highest and lowest extreme voltages are separately 3.85V, 4.40V and 3.30V, which are specified by the applicant; the normal temperature here used is 20°C.

| LTE Band 2, QPSK, Channel 18900, Frequency 1880.0MHz | | | | | |
|--|-------------|-----------|---------------|-----------------|--------|
| Limit =Within Authorized Band | | | | | |
| Voltage(%) | Power (VDC) | Temp(°C) | Fre. Dev.(Hz) | Deviation (ppm) | Result |
| 100 | 3.85 | +20 (Ref) | -12 | -0.006 | PASS |
| 100 | | 0 | -13 | -0.007 | |
| 100 | | +10 | 12 | 0.006 | |
| 100 | | +20 | -22 | -0.012 | |
| 100 | | +30 | -19 | -0.010 | |
| 100 | | +40 | 32 | 0.017 | |
| 100 | | +50 | -19 | -0.010 | |
| 100 | | +55 | 44 | 0.023 | |
| 115 | 4.40 | +20 | 40 | 0.021 | |
| 85 | 3.30 | +20 | 16 | 0.009 | |

| LTE Band 4, QPSK, Channel 20175, Frequency 1732.5MHz | | | | | |
|--|-------------|-----------|---------------|-----------------|--------|
| Limit =Within Authorized Band | | | | | |
| Voltage(%) | Power (VDC) | Temp(°C) | Fre. Dev.(Hz) | Deviation (ppm) | Result |
| 100 | 3.85 | +20 (Ref) | -18 | -0.010 | PASS |
| 100 | | 0 | -14 | -0.008 | |
| 100 | | +10 | -13 | -0.008 | |
| 100 | | +20 | 10 | 0.006 | |
| 100 | | +30 | -20 | -0.012 | |
| 100 | | +40 | -21 | -0.012 | |
| 100 | | +50 | 16 | 0.009 | |
| 100 | | +55 | -12 | -0.007 | |
| 115 | 4.40 | +20 | -18 | -0.010 | |
| 85 | 3.30 | +20 | 14 | 0.008 | |



| LTE Band 5, QPSK, Channel 20525, Frequency 836.5MHz | | | | | |
|---|-------------|-----------|----------------|-----------------|--------|
| Limit= ± 2.5 ppm | | | | | |
| Voltage (%) | Power (VDC) | Temp (°C) | Fre. Dev. (Hz) | Deviation (ppm) | Result |
| 100 | 3.85 | +20 (Ref) | 21 | 0.025 | PASS |
| 100 | | 0 | -12 | -0.014 | |
| 100 | | +10 | 16 | 0.019 | |
| 100 | | +20 | 33 | 0.039 | |
| 100 | | +30 | -26 | -0.031 | |
| 100 | | +40 | 13 | 0.016 | |
| 100 | | +50 | -30 | -0.036 | |
| 100 | | +55 | 27 | 0.032 | |
| 115 | 4.40 | +20 | 10 | 0.012 | |
| 85 | 3.30 | +20 | 12 | 0.014 | |

| LTE Band 7, QPSK, Channel 21100, Frequency 2535MHz | | | | | |
|--|-------------|-----------|----------------|-----------------|--------|
| Limit= Within Authorized Band | | | | | |
| Voltage (%) | Power (VDC) | Temp (°C) | Fre. Dev. (Hz) | Deviation (ppm) | Result |
| 100 | 3.85 | +20 (Ref) | 14 | 0.006 | PASS |
| 100 | | 0 | 10 | 0.004 | |
| 100 | | +10 | 25 | 0.010 | |
| 100 | | +20 | 29 | 0.011 | |
| 100 | | +30 | -12 | -0.005 | |
| 100 | | +40 | 29 | 0.011 | |
| 100 | | +50 | -10 | -0.004 | |
| 100 | | +55 | 13 | 0.005 | |
| 115 | 4.40 | +20 | 12 | 0.005 | |
| 85 | 3.30 | +20 | -16 | -0.006 | |



| LTE Band 12, QPSK, Channel 23095, Frequency 707.5MHz Limit=±2.5ppm | | | | | |
|---|-------------|-----------|----------------|-----------------|--------|
| Voltage (%) | Power (VDC) | Temp (°C) | Fre. Dev. (Hz) | Deviation (ppm) | Result |
| 100 | 3.85 | +20 (Ref) | 14 | 0.020 | PASS |
| 100 | | 0 | 41 | 0.058 | |
| 100 | | +10 | -17 | -0.024 | |
| 100 | | +20 | -28 | -0.040 | |
| 100 | | +30 | 11 | 0.016 | |
| 100 | | +40 | -14 | -0.020 | |
| 100 | | +50 | 19 | 0.027 | |
| 100 | | +55 | 10 | 0.014 | |
| 115 | 4.40 | +20 | -13 | -0.018 | |
| 85 | 3.30 | +20 | 28 | 0.040 | |

| LTE Band 17, QPSK, Channel 23790, Frequency 710MHz Limit=±2.5ppm | | | | | |
|---|-------------|-----------|----------------|-----------------|--------|
| Voltage (%) | Power (VDC) | Temp (°C) | Fre. Dev. (Hz) | Deviation (ppm) | Result |
| 100 | 3.85 | +20 (Ref) | 18 | 0.025 | PASS |
| 100 | | 0 | 15 | 0.021 | |
| 100 | | +10 | 29 | 0.041 | |
| 100 | | +20 | 33 | 0.046 | |
| 100 | | +30 | 13 | 0.018 | |
| 100 | | +40 | 21 | 0.030 | |
| 100 | | +50 | -16 | -0.023 | |
| 100 | | +55 | 10 | 0.014 | |
| 115 | 4.40 | +20 | 10 | 0.014 | |
| 85 | 3.30 | +20 | 12 | 0.017 | |

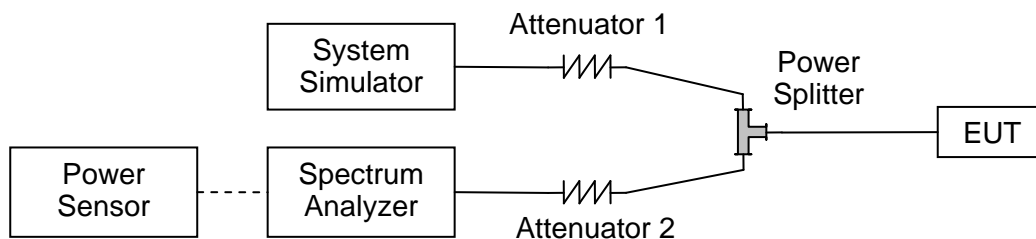
2.4. Peak to Average Ratio

2.4.1. Requirement

According to FCC section 24.232(d) and 27.50(d), the peak to average ratio (PAR) of the transmission may not exceed 13dB.

2.4.2. Test Description

Test Set:



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.4.3. Test Procedure

KDB 971168 D01v03 Section 5.7 and ANSI/TIA-603-E-2016.

2.4.4. Test Result

Record the maximum PAPR level associated with a probability of 0.1%.



| LTE Band 2 | | | | | |
|------------|---------------|------------|---------------|-----------|---------|
| BW(MHz) | Channel Level | Modulation | PAR Radio(dB) | Limit(dB) | Verdict |
| 1.4 | Low | QPSK | 4.85 | <=13 | PASS |
| | Low | 16QAM | 5.74 | <=13 | PASS |
| | Low | 64QAM | 5.67 | <=13 | PASS |
| | Mid | QPSK | 4.93 | <=13 | PASS |
| | Mid | 16QAM | 5.66 | <=13 | PASS |
| | Mid | 64QAM | 5.62 | <=13 | PASS |
| | High | QPSK | 4.96 | <=13 | PASS |
| | High | 16QAM | 5.75 | <=13 | PASS |
| | High | 64QAM | 5.69 | <=13 | PASS |
| 3 | Low | QPSK | 4.98 | <=13 | PASS |
| | Low | 16QAM | 5.84 | <=13 | PASS |
| | Low | 64QAM | 5.73 | <=13 | PASS |
| | Mid | QPSK | 5.06 | <=13 | PASS |
| | Mid | 16QAM | 5.84 | <=13 | PASS |
| | Mid | 64QAM | 5.75 | <=13 | PASS |
| | High | QPSK | 5.02 | <=13 | PASS |
| | High | 16QAM | 5.85 | <=13 | PASS |
| | High | 64QAM | 5.73 | <=13 | PASS |
| 5 | Low | QPSK | 5.25 | <=13 | PASS |
| | Low | 16QAM | 5.92 | <=13 | PASS |
| | Low | 64QAM | 5.88 | <=13 | PASS |
| | Mid | QPSK | 5.26 | <=13 | PASS |
| | Mid | 16QAM | 5.97 | <=13 | PASS |
| | Mid | 64QAM | 5.86 | <=13 | PASS |
| | High | QPSK | 5.24 | <=13 | PASS |
| | High | 16QAM | 5.93 | <=13 | PASS |
| | High | 64QAM | 5.82 | <=13 | PASS |
| 10 | Low | QPSK | 5.41 | <=13 | PASS |
| | Low | 16QAM | 6.01 | <=13 | PASS |
| | Low | 64QAM | 6.05 | <=13 | PASS |
| | Mid | QPSK | 5.32 | <=13 | PASS |
| | Mid | 16QAM | 5.99 | <=13 | PASS |
| | Mid | 64QAM | 5.98 | <=13 | PASS |
| | High | QPSK | 5.35 | <=13 | PASS |
| | High | 16QAM | 5.98 | <=13 | PASS |
| | High | 64QAM | 6.01 | <=13 | PASS |



| | | | | | |
|----|------|-------|------|------|------|
| 15 | Low | QPSK | 5.34 | <=13 | PASS |
| | Low | 16QAM | 6.01 | <=13 | PASS |
| | Low | 64QAM | 5.97 | <=13 | PASS |
| | Mid | QPSK | 5.16 | <=13 | PASS |
| | Mid | 16QAM | 5.84 | <=13 | PASS |
| | Mid | 64QAM | 5.83 | <=13 | PASS |
| | High | QPSK | 5.18 | <=13 | PASS |
| | High | 16QAM | 5.9 | <=13 | PASS |
| | High | 64QAM | 5.86 | <=13 | PASS |
| 20 | Low | QPSK | 5.45 | <=13 | PASS |
| | Low | 16QAM | 6.1 | <=13 | PASS |
| | Low | 64QAM | 6.07 | <=13 | PASS |
| | Mid | QPSK | 5.28 | <=13 | PASS |
| | Mid | 16QAM | 5.96 | <=13 | PASS |
| | Mid | 64QAM | 5.96 | <=13 | PASS |
| | High | QPSK | 5.29 | <=13 | PASS |
| | High | 16QAM | 6.02 | <=13 | PASS |
| | High | 64QAM | 6.01 | <=13 | PASS |



| LTE Band 4 | | | | | |
|------------|---------------|------------|---------------|-----------|---------|
| BW(MHz) | Channel Level | Modulation | PAR Radio(dB) | Limit(dB) | Verdict |
| 1.4 | Low | QPSK | 5.61 | <=13 | PASS |
| | Low | 16QAM | 6.38 | <=13 | PASS |
| | Low | 64QAM | 6.26 | <=13 | PASS |
| | Mid | QPSK | 5.59 | <=13 | PASS |
| | Mid | 16QAM | 6.29 | <=13 | PASS |
| | Mid | 64QAM | 6.23 | <=13 | PASS |
| | High | QPSK | 5.42 | <=13 | PASS |
| | High | 16QAM | 6.21 | <=13 | PASS |
| | High | 64QAM | 6.08 | <=13 | PASS |
| 3 | Low | QPSK | 5.62 | <=13 | PASS |
| | Low | 16QAM | 6.44 | <=13 | PASS |
| | Low | 64QAM | 6.27 | <=13 | PASS |
| | Mid | QPSK | 5.59 | <=13 | PASS |
| | Mid | 16QAM | 6.41 | <=13 | PASS |
| | Mid | 64QAM | 6.25 | <=13 | PASS |
| | High | QPSK | 5.4 | <=13 | PASS |
| | High | 16QAM | 6.23 | <=13 | PASS |
| | High | 64QAM | 6.11 | <=13 | PASS |
| 5 | Low | QPSK | 5.7 | <=13 | PASS |
| | Low | 16QAM | 6.35 | <=13 | PASS |
| | Low | 64QAM | 6.29 | <=13 | PASS |
| | Mid | QPSK | 5.63 | <=13 | PASS |
| | Mid | 16QAM | 6.29 | <=13 | PASS |
| | Mid | 64QAM | 6.24 | <=13 | PASS |
| | High | QPSK | 5.56 | <=13 | PASS |
| | High | 16QAM | 6.2 | <=13 | PASS |
| | High | 64QAM | 6.19 | <=13 | PASS |
| 10 | Low | QPSK | 5.71 | <=13 | PASS |
| | Low | 16QAM | 6.35 | <=13 | PASS |
| | Low | 64QAM | 6.33 | <=13 | PASS |
| | Mid | QPSK | 5.64 | <=13 | PASS |
| | Mid | 16QAM | 6.29 | <=13 | PASS |
| | Mid | 64QAM | 6.27 | <=13 | PASS |
| | High | QPSK | 5.58 | <=13 | PASS |
| | High | 16QAM | 6.25 | <=13 | PASS |
| | High | 64QAM | 6.24 | <=13 | PASS |



| | | | | | |
|----|------|-------|------|------|------|
| 15 | Low | QPSK | 5.62 | <=13 | PASS |
| | Low | 16QAM | 6.3 | <=13 | PASS |
| | Low | 64QAM | 6.33 | <=13 | PASS |
| | Mid | QPSK | 5.56 | <=13 | PASS |
| | Mid | 16QAM | 6.23 | <=13 | PASS |
| | Mid | 64QAM | 6.22 | <=13 | PASS |
| | High | QPSK | 5.54 | <=13 | PASS |
| | High | 16QAM | 6.23 | <=13 | PASS |
| | High | 64QAM | 6.2 | <=13 | PASS |
| 20 | Low | QPSK | 5.6 | <=13 | PASS |
| | Low | 16QAM | 6.35 | <=13 | PASS |
| | Low | 64QAM | 6.31 | <=13 | PASS |
| | Mid | QPSK | 5.58 | <=13 | PASS |
| | Mid | 16QAM | 6.32 | <=13 | PASS |
| | Mid | 64QAM | 6.29 | <=13 | PASS |
| | High | QPSK | 5.58 | <=13 | PASS |
| | High | 16QAM | 6.32 | <=13 | PASS |
| | High | 64QAM | 6.31 | <=13 | PASS |



| LTE Band 5 | | | | | |
|------------|---------------|------------|---------------|-----------|---------|
| BW(MHz) | Channel Level | Modulation | PAR Radio(dB) | Limit(dB) | Verdict |
| 1.4 | Low | QPSK | 5.13 | <=13 | PASS |
| | Low | 16QAM | 5.99 | <=13 | PASS |
| | Low | 64QAM | 6.01 | <=13 | PASS |
| | Mid | QPSK | 5.69 | <=13 | PASS |
| | Mid | 16QAM | 6.4 | <=13 | PASS |
| | Mid | 64QAM | 6.34 | <=13 | PASS |
| | High | QPSK | 4.91 | <=13 | PASS |
| | High | 16QAM | 5.75 | <=13 | PASS |
| | High | 64QAM | 5.71 | <=13 | PASS |
| 3 | Low | QPSK | 5.21 | <=13 | PASS |
| | Low | 16QAM | 6.12 | <=13 | PASS |
| | Low | 64QAM | 5.98 | <=13 | PASS |
| | Mid | QPSK | 5.67 | <=13 | PASS |
| | Mid | 16QAM | 6.5 | <=13 | PASS |
| | Mid | 64QAM | 6.35 | <=13 | PASS |
| | High | QPSK | 5.14 | <=13 | PASS |
| | High | 16QAM | 5.96 | <=13 | PASS |
| | High | 64QAM | 5.88 | <=13 | PASS |
| 5 | Low | QPSK | 5.4 | <=13 | PASS |
| | Low | 16QAM | 6.08 | <=13 | PASS |
| | Low | 64QAM | 6.01 | <=13 | PASS |
| | Mid | QPSK | 5.76 | <=13 | PASS |
| | Mid | 16QAM | 6.38 | <=13 | PASS |
| | Mid | 64QAM | 6.34 | <=13 | PASS |
| | High | QPSK | 5.43 | <=13 | PASS |
| | High | 16QAM | 6.07 | <=13 | PASS |
| | High | 64QAM | 6.04 | <=13 | PASS |
| 10 | Low | QPSK | 5.48 | <=13 | PASS |
| | Low | 16QAM | 6.16 | <=13 | PASS |
| | Low | 64QAM | 6.15 | <=13 | PASS |
| | Mid | QPSK | 5.77 | <=13 | PASS |
| | Mid | 16QAM | 6.39 | <=13 | PASS |
| | Mid | 64QAM | 6.38 | <=13 | PASS |
| | High | QPSK | 5.6 | <=13 | PASS |
| | High | 16QAM | 6.26 | <=13 | PASS |
| | High | 64QAM | 6.29 | <=13 | PASS |



| LTE Band 7 | | | | | |
|------------|---------------|------------|---------------|-----------|---------|
| BW(MHz) | Channel Level | Modulation | PAR Radio(dB) | Limit(dB) | Verdict |
| 5 | Low | QPSK | 5.42 | <=13 | PASS |
| | Low | 16QAM | 6.11 | <=13 | PASS |
| | Low | 64QAM | 6.1 | <=13 | PASS |
| | Mid | QPSK | 5.46 | <=13 | PASS |
| | Mid | 16QAM | 6.18 | <=13 | PASS |
| | Mid | 64QAM | 6.12 | <=13 | PASS |
| | High | QPSK | 5.59 | <=13 | PASS |
| | High | 16QAM | 6.29 | <=13 | PASS |
| | High | 64QAM | 6.29 | <=13 | PASS |
| 10 | Low | QPSK | 5.4 | <=13 | PASS |
| | Low | 16QAM | 6.12 | <=13 | PASS |
| | Low | 64QAM | 6.13 | <=13 | PASS |
| | Mid | QPSK | 5.48 | <=13 | PASS |
| | Mid | 16QAM | 6.17 | <=13 | PASS |
| | Mid | 64QAM | 6.2 | <=13 | PASS |
| | High | QPSK | 5.54 | <=13 | PASS |
| | High | 16QAM | 6.24 | <=13 | PASS |
| | High | 64QAM | 6.22 | <=13 | PASS |
| 15 | Low | QPSK | 5.15 | <=13 | PASS |
| | Low | 16QAM | 5.93 | <=13 | PASS |
| | Low | 64QAM | 5.93 | <=13 | PASS |
| | Mid | QPSK | 5.3 | <=13 | PASS |
| | Mid | 16QAM | 6.12 | <=13 | PASS |
| | Mid | 64QAM | 6.07 | <=13 | PASS |
| | High | QPSK | 5.32 | <=13 | PASS |
| | High | 16QAM | 6.1 | <=13 | PASS |
| | High | 64QAM | 6.11 | <=13 | PASS |
| 20 | Low | QPSK | 5.23 | <=13 | PASS |
| | Low | 16QAM | 6.02 | <=13 | PASS |
| | Low | 64QAM | 6.01 | <=13 | PASS |
| | Mid | QPSK | 5.41 | <=13 | PASS |
| | Mid | 16QAM | 6.19 | <=13 | PASS |
| | Mid | 64QAM | 6.21 | <=13 | PASS |
| | High | QPSK | 5.41 | <=13 | PASS |
| | High | 16QAM | 6.22 | <=13 | PASS |
| | High | 64QAM | 6.2 | <=13 | PASS |



| LTE Band 12 | | | | | |
|-------------|---------------|------------|---------------|-----------|---------|
| BW(MHz) | Channel Level | Modulation | PAR Radio(dB) | Limit(dB) | Verdict |
| 1.4 | Low | QPSK | 5.43 | <=13 | PASS |
| | Low | 16QAM | 6.44 | <=13 | PASS |
| | Low | 64QAM | 6.33 | <=13 | PASS |
| | Mid | QPSK | 5.69 | <=13 | PASS |
| | Mid | 16QAM | 6.44 | <=13 | PASS |
| | Mid | 64QAM | 6.36 | <=13 | PASS |
| | High | QPSK | 5.35 | <=13 | PASS |
| | High | 16QAM | 6.15 | <=13 | PASS |
| | High | 64QAM | 6.06 | <=13 | PASS |
| 3 | Low | QPSK | 5.7 | <=13 | PASS |
| | Low | 16QAM | 6.48 | <=13 | PASS |
| | Low | 64QAM | 6.32 | <=13 | PASS |
| | Mid | QPSK | 5.64 | <=13 | PASS |
| | Mid | 16QAM | 6.47 | <=13 | PASS |
| | Mid | 64QAM | 6.31 | <=13 | PASS |
| | High | QPSK | 5.52 | <=13 | PASS |
| | High | 16QAM | 6.32 | <=13 | PASS |
| | High | 64QAM | 6.21 | <=13 | PASS |
| 5 | Low | QPSK | 5.78 | <=13 | PASS |
| | Low | 16QAM | 6.41 | <=13 | PASS |
| | Low | 64QAM | 6.33 | <=13 | PASS |
| | Mid | QPSK | 5.75 | <=13 | PASS |
| | Mid | 16QAM | 6.39 | <=13 | PASS |
| | Mid | 64QAM | 6.36 | <=13 | PASS |
| | High | QPSK | 5.68 | <=13 | PASS |
| | High | 16QAM | 6.37 | <=13 | PASS |
| | High | 64QAM | 6.31 | <=13 | PASS |
| 10 | Low | QPSK | 5.73 | <=13 | PASS |
| | Low | 16QAM | 6.44 | <=13 | PASS |
| | Low | 64QAM | 6.38 | <=13 | PASS |
| | Mid | QPSK | 5.73 | <=13 | PASS |
| | Mid | 16QAM | 6.36 | <=13 | PASS |
| | Mid | 64QAM | 6.4 | <=13 | PASS |
| | High | QPSK | 5.75 | <=13 | PASS |
| | High | 16QAM | 6.43 | <=13 | PASS |
| | High | 64QAM | 6.48 | <=13 | PASS |



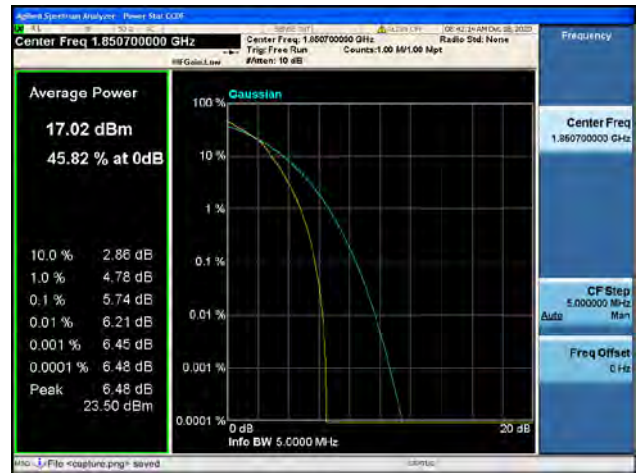
| LTE Band 17 | | | | | |
|-------------|---------------|------------|---------------|-----------|---------|
| BW(MHz) | Channel Level | Modulation | PAR Radio(dB) | Limit(dB) | Verdict |
| 5 | Low | QPSK | 5.52 | <=13 | PASS |
| | Low | 16QAM | 6.23 | <=13 | PASS |
| | Low | 64QAM | 6.18 | <=13 | PASS |
| | Mid | QPSK | 5.52 | <=13 | PASS |
| | Mid | 16QAM | 6.25 | <=13 | PASS |
| | Mid | 64QAM | 6.08 | <=13 | PASS |
| | High | QPSK | 5.50 | <=13 | PASS |
| | High | 16QAM | 6.19 | <=13 | PASS |
| | High | 64QAM | 6.08 | <=13 | PASS |
| 10 | Low | QPSK | 5.58 | <=13 | PASS |
| | Low | 16QAM | 6.28 | <=13 | PASS |
| | Low | 64QAM | 6.25 | <=13 | PASS |
| | Mid | QPSK | 5.58 | <=13 | PASS |
| | Mid | 16QAM | 6.22 | <=13 | PASS |
| | Mid | 64QAM | 6.25 | <=13 | PASS |
| | High | QPSK | 5.61 | <=13 | PASS |
| | High | 16QAM | 6.27 | <=13 | PASS |
| | High | 64QAM | 6.27 | <=13 | PASS |



Band2 / 1.4MHz / Low CH / QPSK



Band2 / 1.4MHz / Low CH / 16QAM



Band2 / 1.4MHz / Low CH / 64QAM



Band2 / 1.4MHz / Mid CH / QPSK



Band2 / 1.4MHz / Mid CH / 16QAM



Band2 / 1.4MHz / Mid CH / 64QAM

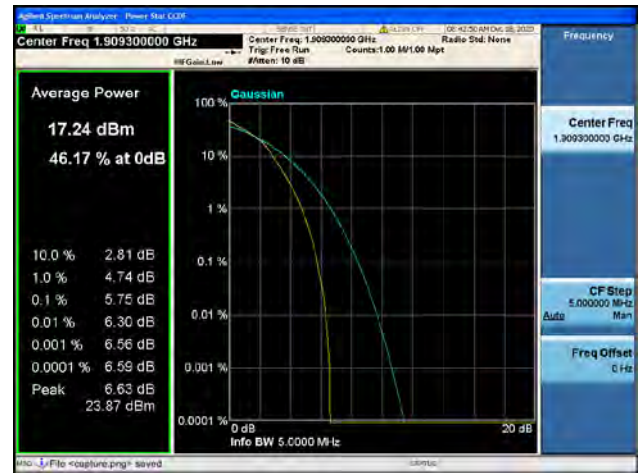




Band2 / 1.4MHz / High CH / QPSK



Band2 / 1.4MHz / High CH / 16QAM



Band2 / 1.4MHz / High CH / 64QAM



Band2 / 3MHz / Low CH / QPSK



Band2 / 3MHz / Low CH / 16QAM

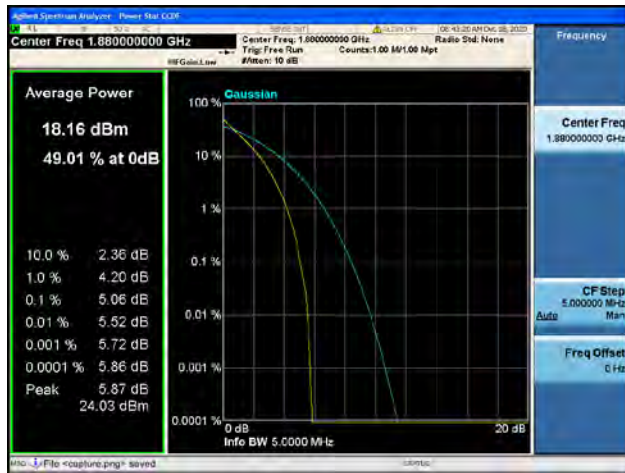


Band2 / 3MHz / Low CH / 64QAM





Band2 / 3MHz / Mid CH / QPSK



Band2 / 3MHz / Mid CH / 16QAM



Band2 / 3MHz / Mid CH / 64QAM



Band2 / 3MHz / High CH / QPSK



Band2 / 3MHz / High CH / 16QAM

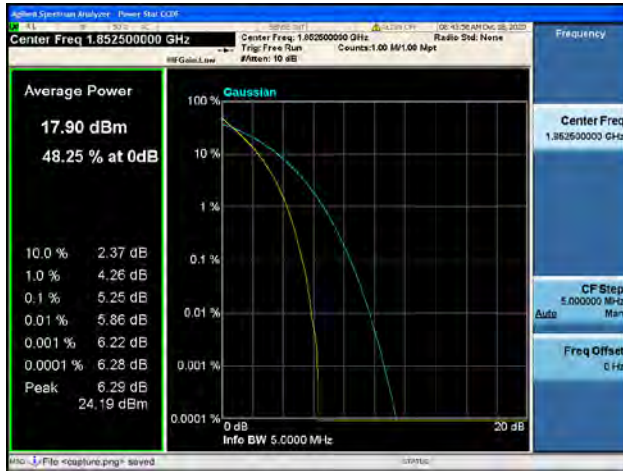


Band2 / 3MHz / High CH / 64QAM





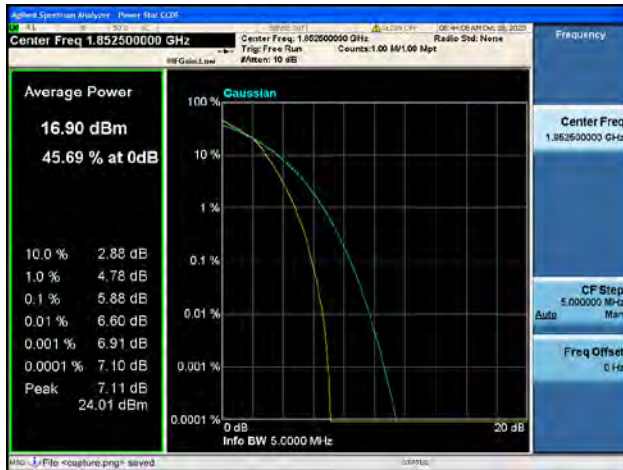
Band2 / 5MHz / Low CH / QPSK



Band2 / 5MHz / Low CH / 16QAM



Band2 / 5MHz / Low CH / 64QAM



Band2 / 5MHz / Mid CH / QPSK



Band2 / 5MHz / Mid CH / 16QAM



Band2 / 5MHz / Mid CH / 64QAM

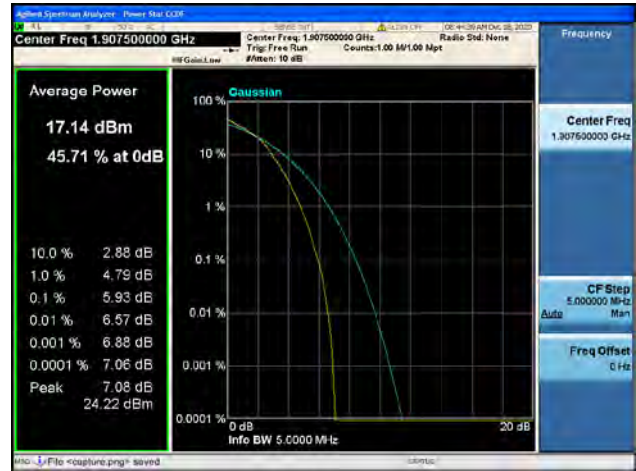




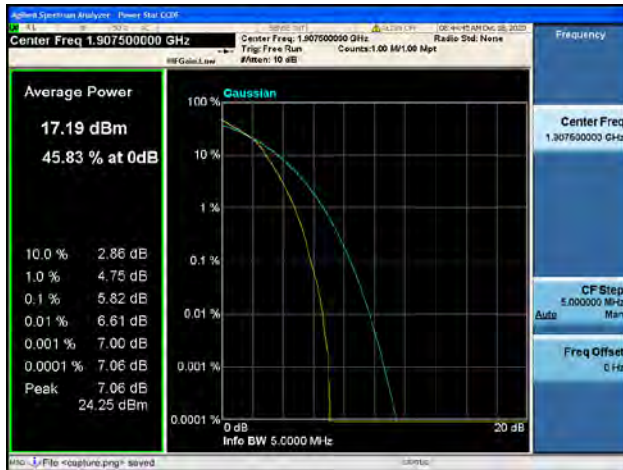
Band2 / 5MHz / High CH / QPSK



Band2 / 5MHz / High CH / 16QAM



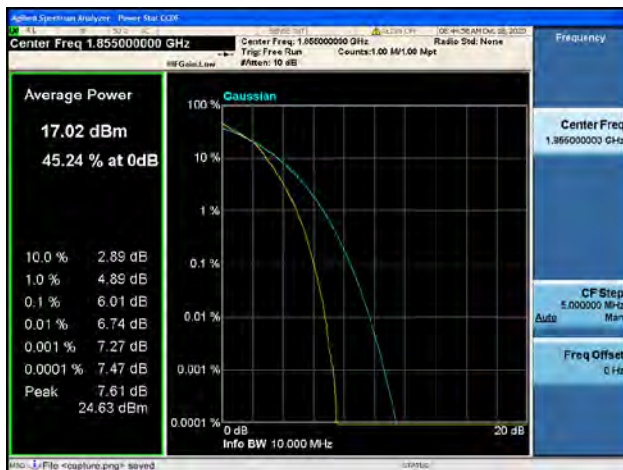
Band2 / 5MHz / High CH / 64QAM



Band2 / 10MHz / Low CH / QPSK



Band2 / 10MHz / Low CH / 16QAM



Band2 / 10MHz / Low CH / 64QAM



Band2 / 10MHz / Mid CH / QPSK



Band2 / 10MHz / Mid CH / 16QAM



Band2 / 10MHz / Mid CH / 64QAM



Band2 / 10MHz / High CH / QPSK



Band2 / 10MHz / High CH / 16QAM



Band2 / 10MHz / High CH / 64QAM





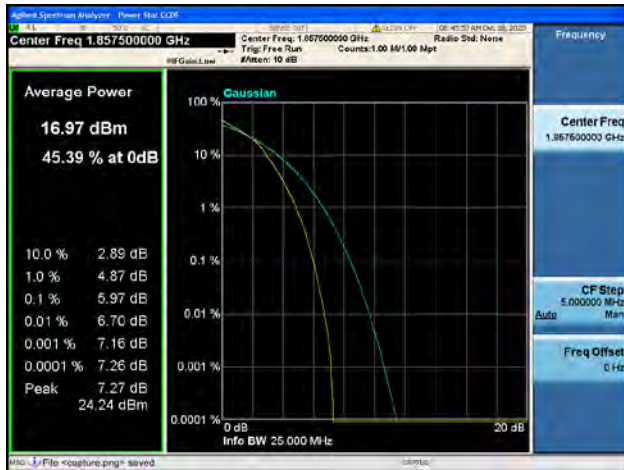
Band2 / 15MHz / Low CH / QPSK



Band2 / 15MHz / Low CH / 16QAM



Band2 / 15MHz / Low CH / 64QAM



Band2 / 15MHz / Mid CH / QPSK



Band2 / 15MHz / Mid CH / 16QAM

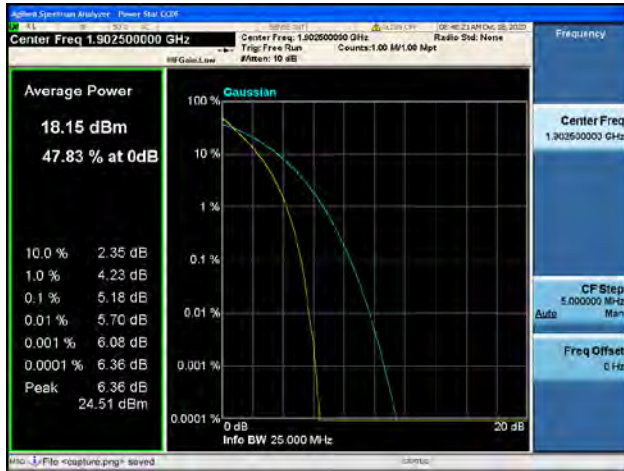


Band2 / 15MHz / Mid CH / 64QAM

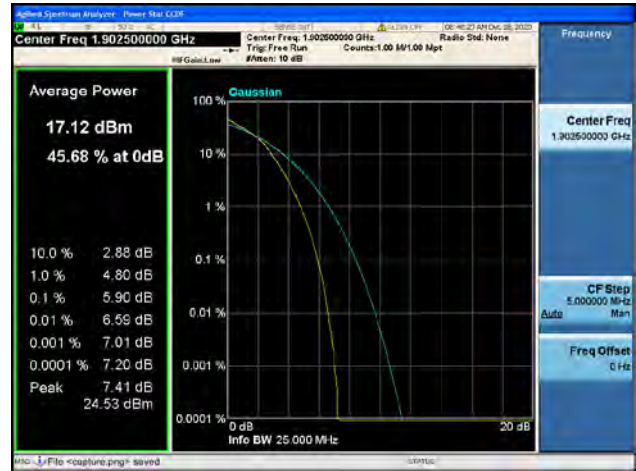




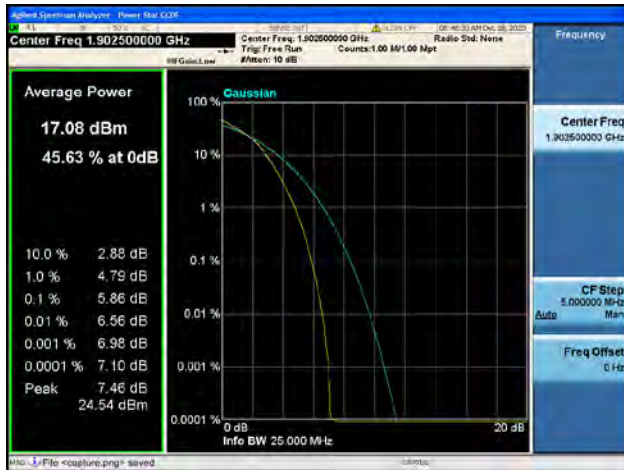
Band2 / 15MHz / High CH / QPSK



Band2 / 15MHz / High CH / 16QAM



Band2 / 15MHz / High CH / 64QAM



Band2 / 20MHz / Low CH / QPSK



Band2 / 20MHz / Low CH / 16QAM

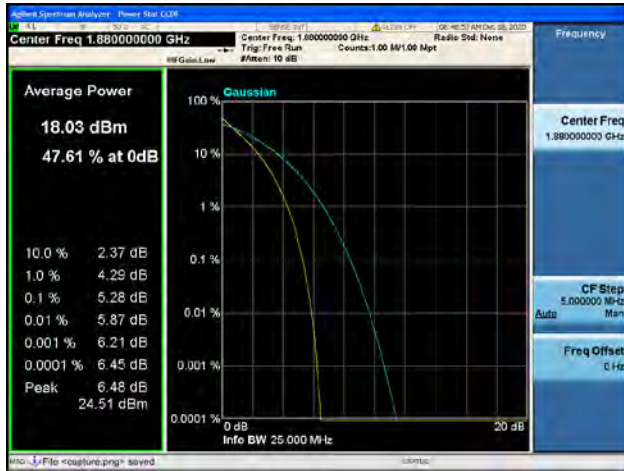


Band2 / 20MHz / Low CH / 64QAM

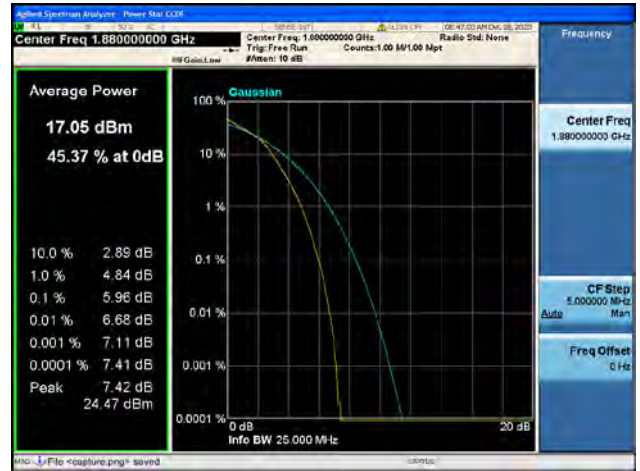




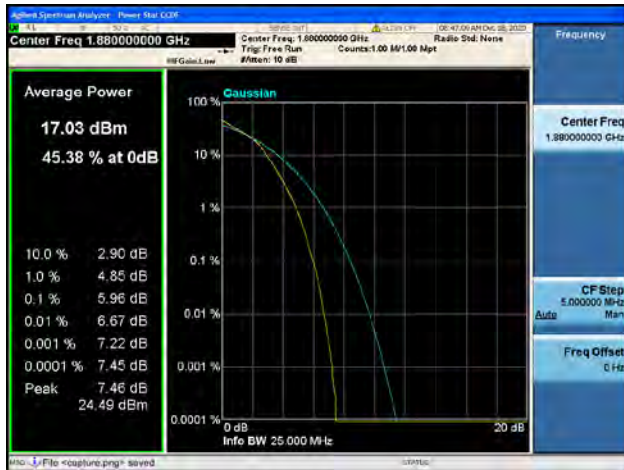
Band2 / 20MHz / Mid CH / QPSK



Band2 / 20MHz / Mid CH / 16QAM



Band2 / 20MHz / Mid CH / 64QAM



Band2 / 20MHz / High CH / QPSK



Band2 / 20MHz / High CH / 16QAM

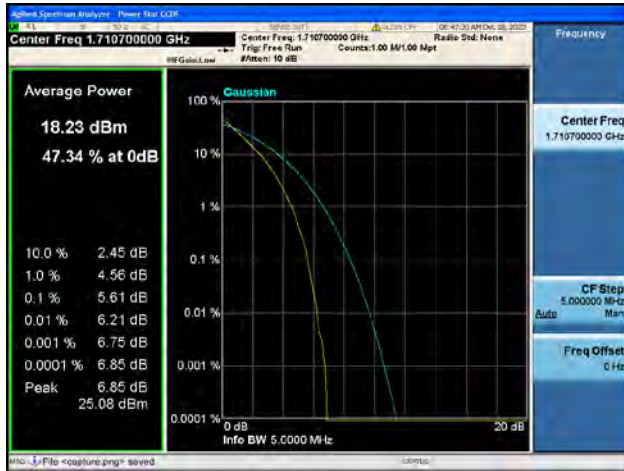


Band2 / 20MHz / High CH / 64QAM

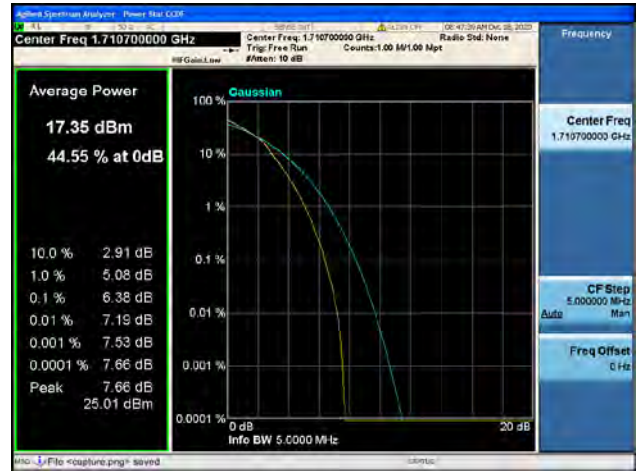




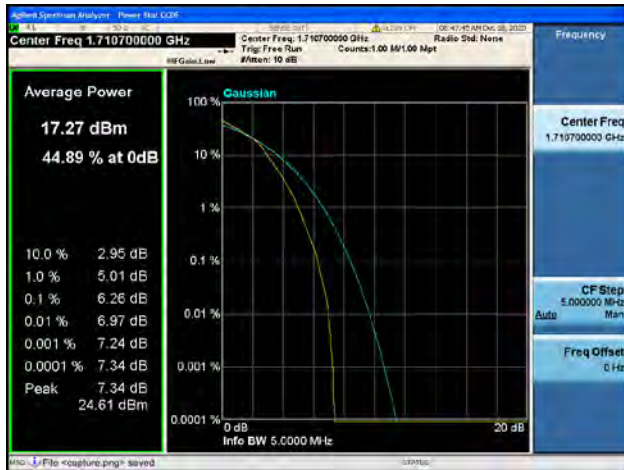
Band4 / 1.4MHz / Low CH / QPSK



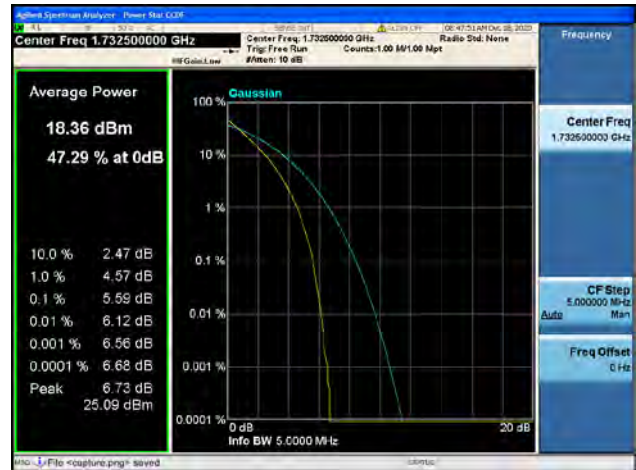
Band4 / 1.4MHz / Low CH / 16QAM



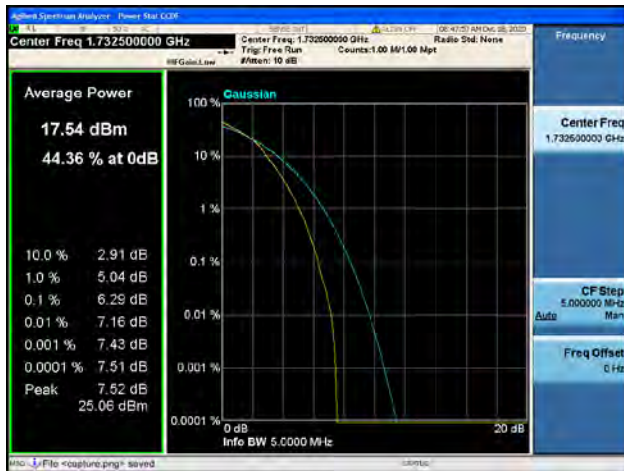
Band4 / 1.4MHz / Low CH / 64QAM



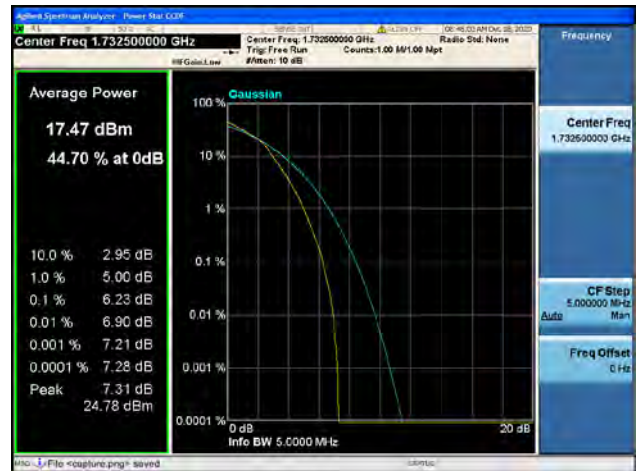
Band4 / 1.4MHz / Mid CH / QPSK



Band4 / 1.4MHz / Mid CH / 16QAM

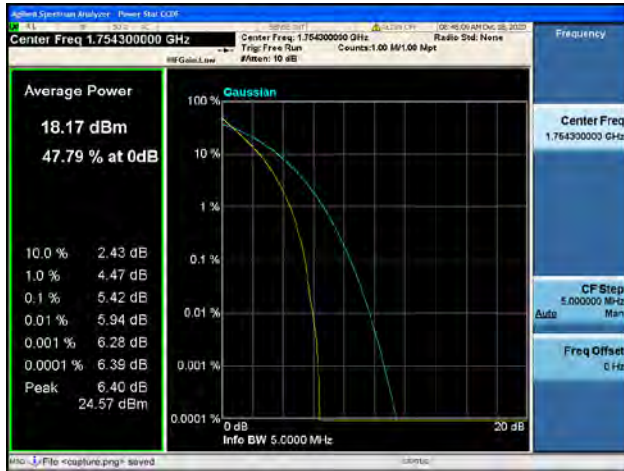


Band4 / 1.4MHz / Mid CH / 64QAM





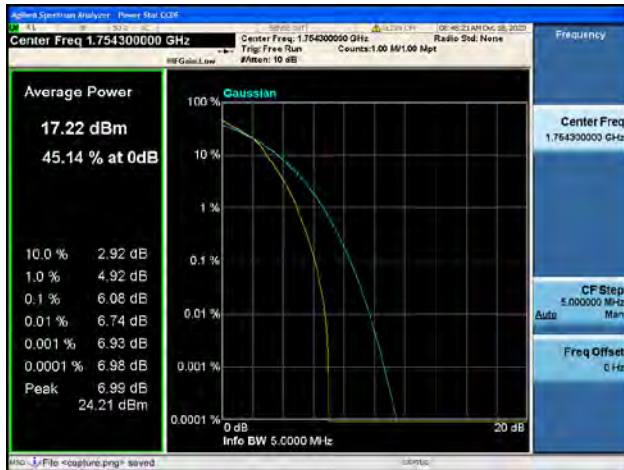
Band4 / 1.4MHz / High CH / QPSK



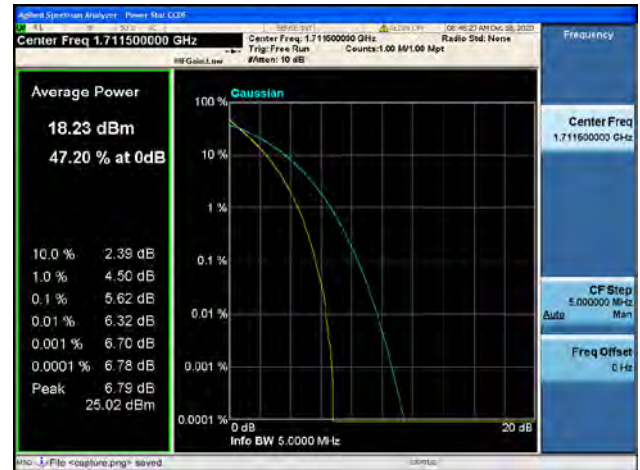
Band4 / 1.4MHz / High CH / 16QAM



Band4 / 1.4MHz / High CH / 64QAM



Band4 / 3MHz / Low CH / QPSK



Band4 / 3MHz / Low CH / 16QAM

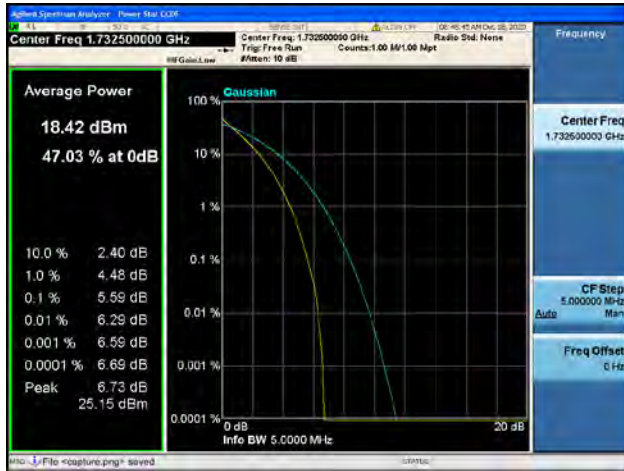


Band4 / 3MHz / Low CH / 64QAM

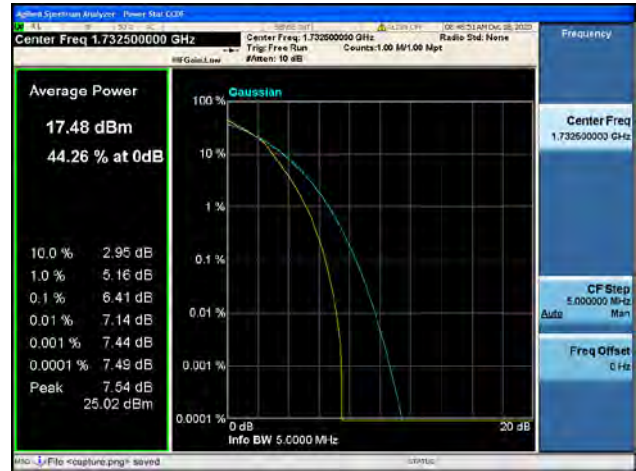




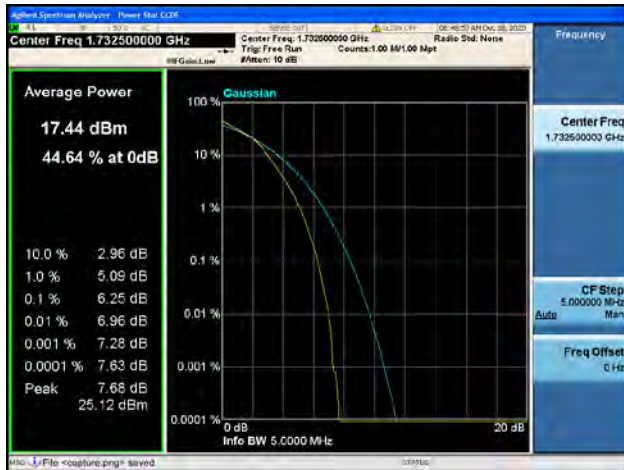
Band4 / 3MHz / Mid CH / QPSK



Band4 / 3MHz / Mid CH / 16QAM



Band4 / 3MHz / Mid CH / 64QAM



Band4 / 3MHz / High CH / QPSK



Band4 / 3MHz / High CH / 16QAM



Band4 / 3MHz / High CH / 64QAM

