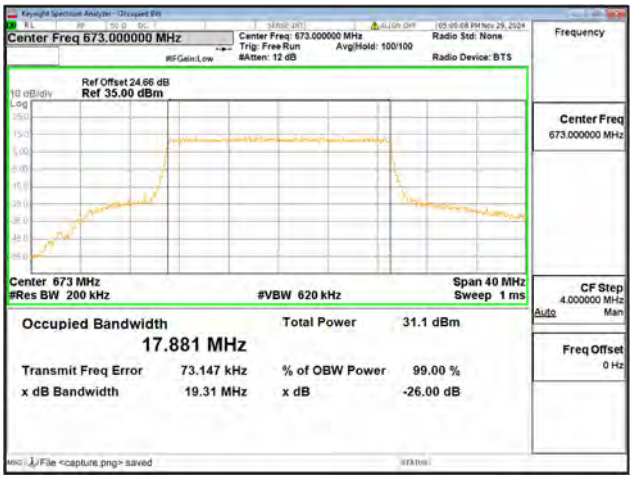
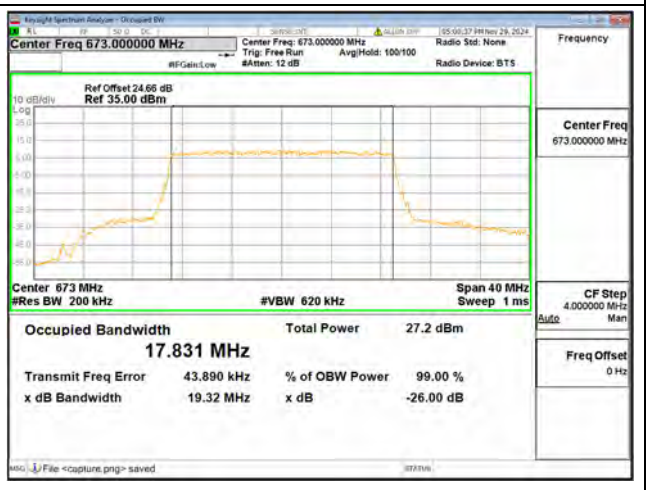


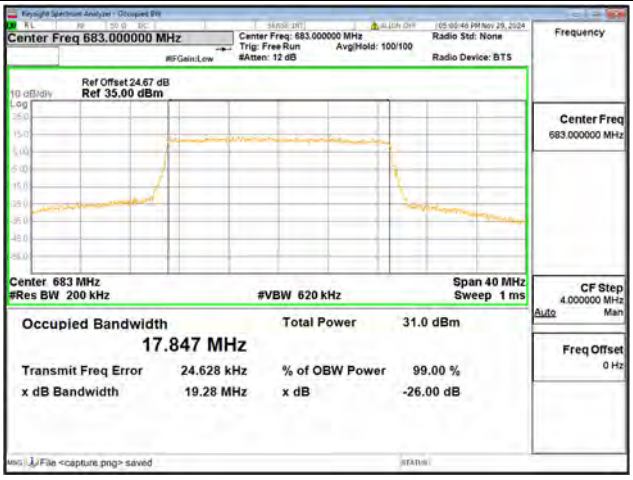

B71 / 20MHz / QPSK/ Low CH

B71 / 20MHz / 16QAM/ Low CH

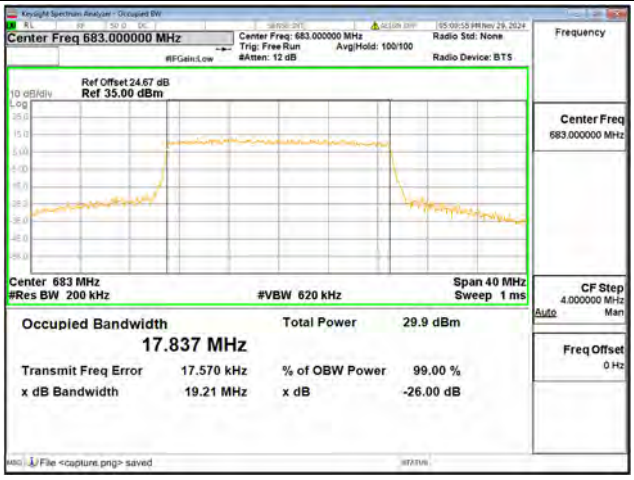
B71 / 20MHz / 64QAM/ Low CH




B71 / 20MHz / 256QAM/ Low CH

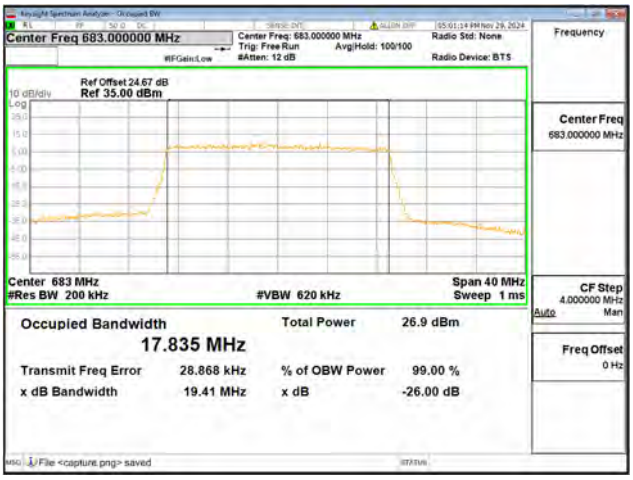



B71 / 20MHz / QPSK/ Mid CH

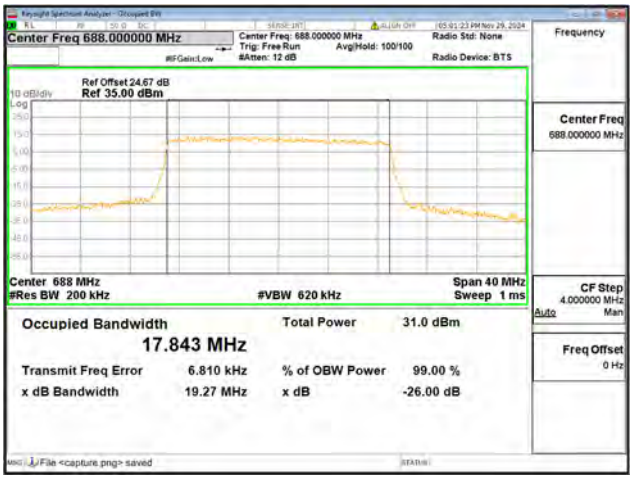



B71 / 20MHz / 16QAM/ Mid CH

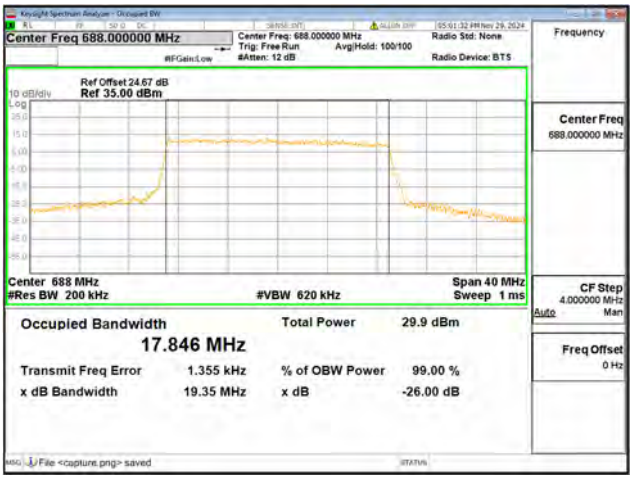
B71 / 20MHz / 64QAM/ Mid CH




B71 / 20MHz / 256QAM/ Mid CH




B71 / 20MHz / QPSK/ High CH




B71 / 20MHz / 16QAM/ High CH

B71 / 20MHz / 64QAM/ High CH

B71 / 20MHz / 256QAM/ High CH

## 2.3. Frequency Stability

### 2.3.1. Requirement

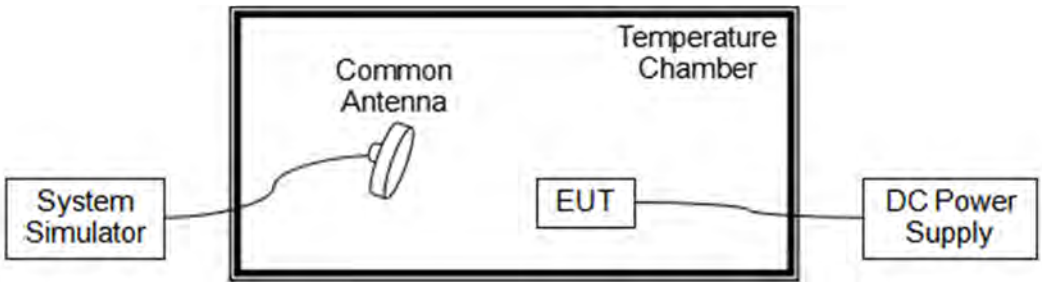
According to FCC section 2.1055, 24.235, 27.54, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. According to FCC section 2.1055, the test conditions are:

(a) The temperature is varied from -30°C to +50°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 -10°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, 4.30V and 3.50V, which are specified by the applicant; the normal temperature here used is 20°C.

| LTE Band 2, 256QAM, Channel 18900, Frequency 1880.0MHz<br>Limit =Within Authorized Band | | | | | |
|---|---|---|---|---|---|
| **Voltage (%)** | **Power (VDC)** | **Temp(°C)** | **Fre. Dev.(Hz)** | **Deviation (ppm)** | **Result** |
| Normal | 3.85 | +20(Ref) | -6 | -0.003 | PASS |
| Normal | | -10 | 18 | 0.010 | |
| Normal | | 0 | 14 | 0.007 | |
| Normal | | +10 | 23 | 0.012 | |
| Normal | | +20 | 9 | 0.005 | |
| Normal | | +30 | 13 | 0.007 | |
| Normal | | +40 | 13 | 0.007 | |
| Normal | | +50 | 18 | 0.010 | |
| Normal | | +55 | -20 | -0.011 | |
| High | 4.30 | +20 | -9 | -0.005 | |
| BATT.ENDPOINT | 3.50 | +20 | 20 | 0.011 | |

| LTE Band 4, 256QAM, Channel 20175, Frequency 1732.5MHz<br>Limit =Within Authorized Band | | | | | |
|---|---|---|---|---|---|
| **Voltage (%)** | **Power (VDC)** | **Temp(°C)** | **Fre. Dev.(Hz)** | **Deviation (ppm)** | **Result** |
| Normal | 3.85 | +20(Ref) | 16 | 0.009 | PASS |
| Normal | | -10 | -17 | -0.010 | |
| Normal | | 0 | -18 | -0.010 | |
| Normal | | +10 | 15 | 0.009 | |
| Normal | | +20 | 14 | 0.008 | |
| Normal | | +30 | -18 | -0.010 | |
| Normal | | +40 | 12 | 0.007 | |
| Normal | | +50 | 16 | 0.009 | |
| Normal | | +55 | 17 | 0.010 | |
| High | 4.30 | +20 | 14 | 0.008 | |
| BATT.ENDPOINT | 3.50 | +20 | -18 | -0.010 | |

| LTE Band 5, 256QAM, Channel 20525, Frequency 836.5MHz Limit=±2.5ppm | | | | | |
|---|---|---|---|---|---|
| **Voltage (%)** | **Power (VDC)** | **Temp(°C)** | **Fre. Dev.(Hz)** | **Deviation (ppm)** | **Result** |
| Normal | 3.85 | +20(Ref) | 17 | 0.020 | PASS |
| Normal | | -10 | 15 | 0.018 | |
| Normal | | 0 | 13 | 0.016 | |
| Normal | | +10 | 19 | 0.023 | |
| Normal | | +20 | 19 | 0.023 | |
| Normal | | +30 | -5 | -0.006 | |
| Normal | | +40 | 16 | 0.019 | |
| Normal | | +50 | 1 | 0.001 | |
| Normal | | +55 | 17 | 0.020 | |
| High | 4.30 | +20 | -20 | -0.024 | |
| BATT.ENDPOINT | 3.50 | +20 | -10 | -0.012 | |

| LTE Band 7, 256QAM, Channel 21100, Frequency 2535.0MHz Limit =Within Authorized Band | | | | | |
|---|---|---|---|---|---|
| **Voltage (%)** | **Power (VDC)** | **Temp (°C)** | **Fre. Dev. (Hz)** | **Deviation (ppm)** | **Result** |
| Normal | 3.85 | +20(Ref) | 19 | 0.007 | PASS |
| Normal | | -10 | 14 | 0.006 | |
| Normal | | 0 | -10 | -0.004 | |
| Normal | | +10 | 13 | 0.005 | |
| Normal | | +20 | 19 | 0.007 | |
| Normal | | +30 | 17 | 0.007 | |
| Normal | | +40 | 13 | 0.005 | |
| Normal | | +50 | -16 | -0.006 | |
| Normal | | +55 | -9 | -0.004 | |
| High | 4.30 | +20 | 16 | 0.006 | |
| BATT.ENDPOINT | 3.50 | +20 | 17 | 0.007 | |

| LTE Band 12, 256QAM, Channel 23095, Frequency 707.5MHz<br>Limit =Within Authorized Band | | | | | |
|---|---|---|---|---|---|
| **Voltage (%)** | **Power (VDC)** | **Temp(°C)** | **Fre. Dev.(Hz)** | **Deviation (ppm)** | **Result** |
| Normal | 3.85 | +20(Ref) | -4 | -0.006 | PASS |
| Normal | | -10 | 20 | 0.028 | |
| Normal | | 0 | 18 | 0.025 | |
| Normal | | +10 | 16 | 0.023 | |
| Normal | | +20 | 15 | 0.021 | |
| Normal | | +30 | 14 | 0.020 | |
| Normal | | +40 | 3 | 0.004 | |
| Normal | | +50 | 19 | 0.027 | |
| Normal | | +55 | -12 | -0.017 | |
| High | 4.30 | +20 | 14 | 0.020 | |
| BATT.ENDPOINT | 3.50 | +20 | 19 | 0.027 | |

| LTE Band 13, 256QAM, Channel 23230, Frequency 782MHz<br>Limit=±2.5ppm | | | | | |
|---|---|---|---|---|---|
| **Voltage (%)** | **Power (VDC)** | **Temp(°C)** | **Fre. Dev.(Hz)** | **Deviation (ppm)** | **Result** |
| Normal | 3.85 | +20(Ref) | -4 | -0.006 | PASS |
| Normal | | -10 | 20 | 0.028 | |
| Normal | | 0 | 18 | 0.025 | |
| Normal | | +10 | 16 | 0.023 | |
| Normal | | +20 | 15 | 0.021 | |
| Normal | | +30 | 14 | 0.020 | |
| Normal | | +40 | 3 | 0.004 | |
| Normal | | +50 | 19 | 0.027 | |
| Normal | | +55 | -12 | -0.017 | |
| High | 4.30 | +20 | 14 | 0.020 | |
| BATT.ENDPOINT | 3.50 | +20 | 19 | 0.027 | |

| LTE Band 25, 256QAM, Channel 26365, Frequency 1882.5MHz<br>Limit =Within Authorized Band | | | | | |
|---|---|---|---|---|---|
| **Voltage (%)** | **Power (VDC)** | **Temp(°C)** | **Fre. Dev.(Hz)** | **Deviation (ppm)** | **Result** |
| Normal | 3.85 | +20(Ref) | 22 | 0.012 | PASS |
| Normal | | -10 | -1 | -0.001 | |
| Normal | | 0 | 19 | 0.010 | |
| Normal | | +10 | 17 | 0.009 | |
| Normal | | +20 | -13 | -0.007 | |
| Normal | | +30 | -3 | -0.002 | |
| Normal | | +40 | 20 | 0.011 | |
| Normal | | +50 | 17 | 0.009 | |
| Normal | | +55 | 15 | 0.008 | |
| High | 4.30 | +20 | 16 | 0.008 | |
| BATT.ENDPOINT | 3.50 | +20 | -10 | -0.005 | |

| LTE Band 26, 256QAM, Channel 26915, Frequency 836.5MHz<br>Limit=±2.5ppm | | | | | |
|---|---|---|---|---|---|
| **Voltage (%)** | **Power (VDC)** | **Temp(°C)** | **Fre. Dev.(Hz)** | **Deviation (ppm)** | **Result** |
| Normal | 3.85 | +20(Ref) | 17 | 0.020 | PASS |
| Normal | | -10 | 10 | 0.012 | |
| Normal | | 0 | 14 | 0.017 | |
| Normal | | +10 | 14 | 0.017 | |
| Normal | | +20 | 13 | 0.016 | |
| Normal | | +30 | 18 | 0.022 | |
| Normal | | +40 | 16 | 0.019 | |
| Normal | | +50 | -21 | -0.025 | |
| Normal | | +55 | -19 | -0.023 | |
| High | 4.30 | +20 | 17 | 0.020 | |
| BATT.ENDPOINT | 3.50 | +20 | 2 | 0.002 | |

| LTE Band 30, 256QAM, Channel 27710, Frequency 2310.0MHz<br>Limit =Within Authorized Band | | | | | |
|---|---|---|---|---|---|
| **Voltage (%)** | **Power (VDC)** | **Temp (°C)** | **Fre. Dev. (Hz)** | **Deviation (ppm)** | **Result** |
| Normal | 3.85 | +20(Ref) | -16 | -0.007 | PASS |
| Normal | | -10 | 22 | 0.010 | |
| Normal | | 0 | 17 | 0.007 | |
| Normal | | +10 | 7 | 0.003 | |
| Normal | | +20 | 18 | 0.008 | |
| Normal | | +30 | 18 | 0.008 | |
| Normal | | +40 | 20 | 0.009 | |
| Normal | | +50 | 19 | 0.008 | |
| Normal | | +55 | 18 | 0.008 | |
| High | 4.30 | +20 | 15 | 0.006 | |
| BATT.ENDPOINT | 3.50 | +20 | 15 | 0.006 | |

| LTE Band 41, 256QAM, Channel 40620, Frequency 2593.0MHz<br>Limit =Within Authorized Band | | | | | |
|---|---|---|---|---|---|
| **Voltage (%)** | **Power (VDC)** | **Temp (°C)** | **Fre. Dev. (Hz)** | **Deviation (ppm)** | **Result** |
| Normal | 3.85 | +20(Ref) | -13 | -0.005 | PASS |
| Normal | | -10 | 11 | 0.004 | |
| Normal | | 0 | 16 | 0.006 | |
| Normal | | +10 | 18 | 0.007 | |
| Normal | | +20 | 13 | 0.005 | |
| Normal | | +30 | -22 | -0.008 | |
| Normal | | +40 | -4 | -0.002 | |
| Normal | | +50 | 19 | 0.007 | |
| Normal | | +55 | -7 | -0.003 | |
| High | 4.30 | +20 | 14 | 0.005 | |
| BATT.ENDPOINT | 3.50 | +20 | -17 | -0.007 | |

| LTE Band 66, 256QAM, Channel 132322, Frequency 1745MHz<br>Limit =Within Authorized Band | | | | | |
|---|---|---|---|---|---|
| **Voltage (%)** | **Power (VDC)** | **Temp(°C)** | **Fre. Dev.(Hz)** | **Deviation (ppm)** | **Result** |
| Normal | 3.85 | +20(Ref) | 16 | 0.009 | PASS |
| Normal | | -10 | 18 | 0.010 | |
| Normal | | 0 | 11 | 0.006 | |
| Normal | | +10 | 13 | 0.007 | |
| Normal | | +20 | 17 | 0.010 | |
| Normal | | +30 | 7 | 0.004 | |
| Normal | | +40 | 17 | 0.010 | |
| Normal | | +50 | 20 | 0.011 | |
| Normal | | +55 | 17 | 0.010 | |
| High | 4.30 | +20 | -14 | -0.008 | |
| BATT.ENDPOINT | 3.50 | +20 | -16 | -0.009 | |

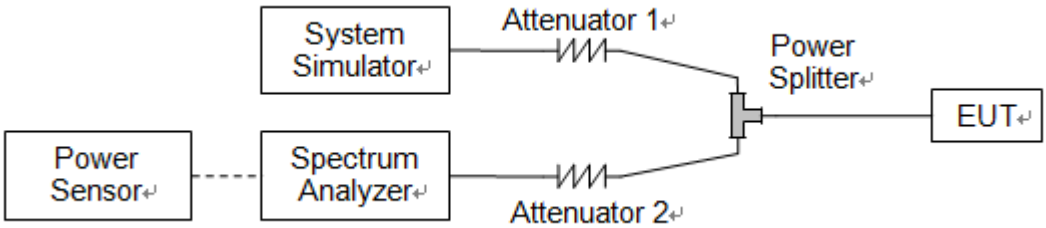
| LTE Band 71, 256QAM, Channel 133322, Frequency 683.0MHz<br>Limit =Within Authorized Band | | | | | |
|---|---|---|---|---|---|
| **Voltage (%)** | **Power (VDC)** | **Temp(°C)** | **Fre. Dev.(Hz)** | **Deviation (ppm)** | **Result** |
| Normal | 3.85 | +20(Ref) | 19 | 0.028 | PASS |
| Normal | | -10 | -10 | -0.015 | |
| Normal | | 0 | 20 | 0.029 | |
| Normal | | +10 | 20 | 0.029 | |
| Normal | | +20 | 16 | 0.023 | |
| Normal | | +30 | 14 | 0.020 | |
| Normal | | +40 | -4 | -0.006 | |
| Normal | | +50 | 13 | 0.019 | |
| Normal | | +55 | 17 | 0.025 | |
| High | 4.30 | +20 | 4 | 0.006 | |
| BATT.ENDPOINT | 3.50 | +20 | 18 | 0.026 | |

## 2.4. Peak to Average Radio

### 2.4.1. Requirement

According to FCC section 24.232(d), 27.50(d) and 27.50(j)(4), the peak to average ratio (PAR) of the transmission may not exceed 13dB.

### 2.4.2. Test Description




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 | BW(MHz) | Channel Level | Channel | Frequency (MHz) | Modulation | Peak to Average Radio(dB) | Verdict |
|---|---|---|---|---|---|---|---|
| B2 | 1.4 | Low | 18607 | 1850.7 | QPSK | 5.58 | PASS |
| B2 | 1.4 | Low | 18607 | 1850.7 | 16QAM | 6.46 | PASS |
| B2 | 1.4 | Low | 18607 | 1850.7 | 64QAM | 6.94 | PASS |
| B2 | 1.4 | Low | 18607 | 1850.7 | 256QAM | 7.01 | PASS |
| B2 | 1.4 | Mid | 18900 | 1880 | QPSK | 5.43 | PASS |
| B2 | 1.4 | Mid | 18900 | 1880 | 16QAM | 6.48 | PASS |
| B2 | 1.4 | Mid | 18900 | 1880 | 64QAM | 6.93 | PASS |
| B2 | 1.4 | Mid | 18900 | 1880 | 256QAM | 7.03 | PASS |
| B2 | 1.4 | High | 19193 | 1909.3 | QPSK | 5.37 | PASS |
| B2 | 1.4 | High | 19193 | 1909.3 | 16QAM | 6.25 | PASS |
| B2 | 1.4 | High | 19193 | 1909.3 | 64QAM | 6.78 | PASS |
| B2 | 1.4 | High | 19193 | 1909.3 | 256QAM | 6.97 | PASS |
| B2 | 3 | Low | 18615 | 1851.5 | QPSK | 5.52 | PASS |
| B2 | 3 | Low | 18615 | 1851.5 | 16QAM | 6.47 | PASS |
| B2 | 3 | Low | 18615 | 1851.5 | 64QAM | 6.88 | PASS |
| B2 | 3 | Low | 18615 | 1851.5 | 256QAM | 6.95 | PASS |
| B2 | 3 | Mid | 18900 | 1880 | QPSK | 5.55 | PASS |
| B2 | 3 | Mid | 18900 | 1880 | 16QAM | 6.75 | PASS |
| B2 | 3 | Mid | 18900 | 1880 | 64QAM | 6.88 | PASS |
| B2 | 3 | Mid | 18900 | 1880 | 256QAM | 6.95 | PASS |
| B2 | 3 | High | 19185 | 1908.5 | QPSK | 6.27 | PASS |
| B2 | 3 | High | 19185 | 1908.5 | 16QAM | 6.55 | PASS |
| B2 | 3 | High | 19185 | 1908.5 | 64QAM | 6.77 | PASS |
| B2 | 3 | High | 19185 | 1908.5 | 256QAM | 6.90 | PASS |
| B2 | 5 | Low | 18625 | 1852.5 | QPSK | 6.56 | PASS |
| B2 | 5 | Low | 18625 | 1852.5 | 16QAM | 6.88 | PASS |
| B2 | 5 | Low | 18625 | 1852.5 | 64QAM | 6.79 | PASS |
| B2 | 5 | Low | 18625 | 1852.5 | 256QAM | 6.90 | PASS |
| B2 | 5 | Mid | 18900 | 1880 | QPSK | 6.50 | PASS |
| B2 | 5 | Mid | 18900 | 1880 | 16QAM | 6.66 | PASS |
| B2 | 5 | Mid | 18900 | 1880 | 64QAM | 6.78 | PASS |
| B2 | 5 | Mid | 18900 | 1880 | 256QAM | 6.89 | PASS |
| B2 | 5 | High | 19175 | 1907.5 | QPSK | 6.38 | PASS |
| B2 | 5 | High | 19175 | 1907.5 | 16QAM | 6.55 | PASS |
| B2 | 5 | High | 19175 | 1907.5 | 64QAM | 6.70 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| B2 | 5 | High | 19175 | 1907.5 | 256QAM | 6.77 | PASS |
| B2 | 10 | Low | 18650 | 1855 | QPSK | 6.57 | PASS |
| B2 | 10 | Low | 18650 | 1855 | 16QAM | 6.91 | PASS |
| B2 | 10 | Low | 18650 | 1855 | 64QAM | 6.77 | PASS |
| B2 | 10 | Low | 18650 | 1855 | 256QAM | 6.86 | PASS |
| B2 | 10 | Mid | 18900 | 1880 | QPSK | 6.53 | PASS |
| B2 | 10 | Mid | 18900 | 1880 | 16QAM | 6.67 | PASS |
| B2 | 10 | Mid | 18900 | 1880 | 64QAM | 6.78 | PASS |
| B2 | 10 | Mid | 18900 | 1880 | 256QAM | 6.86 | PASS |
| B2 | 10 | High | 19150 | 1905 | QPSK | 6.50 | PASS |
| B2 | 10 | High | 19150 | 1905 | 16QAM | 6.67 | PASS |
| B2 | 10 | High | 19150 | 1905 | 64QAM | 6.70 | PASS |
| B2 | 10 | High | 19150 | 1905 | 256QAM | 6.78 | PASS |
| B2 | 15 | Low | 18675 | 1857.5 | QPSK | 6.60 | PASS |
| B2 | 15 | Low | 18675 | 1857.5 | 16QAM | 6.67 | PASS |
| B2 | 15 | Low | 18675 | 1857.5 | 64QAM | 6.83 | PASS |
| B2 | 15 | Low | 18675 | 1857.5 | 256QAM | 6.93 | PASS |
| B2 | 15 | Mid | 18900 | 1880 | QPSK | 6.52 | PASS |
| B2 | 15 | Mid | 18900 | 1880 | 16QAM | 6.75 | PASS |
| B2 | 15 | Mid | 18900 | 1880 | 64QAM | 6.87 | PASS |
| B2 | 15 | Mid | 18900 | 1880 | 256QAM | 6.92 | PASS |
| B2 | 15 | High | 19125 | 1902.5 | QPSK | 6.45 | PASS |
| B2 | 15 | High | 19125 | 1902.5 | 16QAM | 6.54 | PASS |
| B2 | 15 | High | 19125 | 1902.5 | 64QAM | 6.69 | PASS |
| B2 | 15 | High | 19125 | 1902.5 | 256QAM | 6.79 | PASS |
| B2 | 20 | Low | 18700 | 1860 | QPSK | 6.43 | PASS |
| B2 | 20 | Low | 18700 | 1860 | 16QAM | 6.89 | PASS |
| B2 | 20 | Low | 18700 | 1860 | 64QAM | 6.77 | PASS |
| B2 | 20 | Low | 18700 | 1860 | 256QAM | 6.79 | PASS |
| B2 | 20 | Mid | 18900 | 1880 | QPSK | 6.60 | PASS |
| B2 | 20 | Mid | 18900 | 1880 | 16QAM | 6.70 | PASS |
| B2 | 20 | Mid | 18900 | 1880 | 64QAM | 6.82 | PASS |
| B2 | 20 | Mid | 18900 | 1880 | 256QAM | 6.88 | PASS |
| B2 | 20 | High | 19100 | 1900 | QPSK | 6.41 | PASS |
| B2 | 20 | High | 19100 | 1900 | 16QAM | 6.47 | PASS |
| B2 | 20 | High | 19100 | 1900 | 64QAM | 6.65 | PASS |
| B2 | 20 | High | 19100 | 1900 | 256QAM | 6.72 | PASS |

| LTE Band | BW(MHz) | Channel Level | Channel | Frequency (MHz) | Modulation | Peak to Average Radio(dB) | Verdict |
|---|---|---|---|---|---|---|---|
| B4 | 1.4 | Low | 19957 | 1710.7 | QPSK | 5.37 | PASS |
| B4 | 1.4 | Low | 19957 | 1710.7 | 16QAM | 6.46 | PASS |
| B4 | 1.4 | Low | 19957 | 1710.7 | 64QAM | 6.96 | PASS |
| B4 | 1.4 | Low | 19957 | 1710.7 | 256QAM | 7.01 | PASS |
| B4 | 1.4 | Mid | 20175 | 1732.5 | QPSK | 5.53 | PASS |
| B4 | 1.4 | Mid | 20175 | 1732.5 | 16QAM | 6.90 | PASS |
| B4 | 1.4 | Mid | 20175 | 1732.5 | 64QAM | 7.04 | PASS |
| B4 | 1.4 | Mid | 20175 | 1732.5 | 256QAM | 7.10 | PASS |
| B4 | 1.4 | High | 20393 | 1754.3 | QPSK | 6.73 | PASS |
| B4 | 1.4 | High | 20393 | 1754.3 | 16QAM | 6.87 | PASS |
| B4 | 1.4 | High | 20393 | 1754.3 | 64QAM | 6.90 | PASS |
| B4 | 1.4 | High | 20393 | 1754.3 | 256QAM | 7.14 | PASS |
| B4 | 3 | Low | 19965 | 1711.5 | QPSK | 6.45 | PASS |
| B4 | 3 | Low | 19965 | 1711.5 | 16QAM | 6.71 | PASS |
| B4 | 3 | Low | 19965 | 1711.5 | 64QAM | 6.91 | PASS |
| B4 | 3 | Low | 19965 | 1711.5 | 256QAM | 6.97 | PASS |
| B4 | 3 | Mid | 20175 | 1732.5 | QPSK | 6.51 | PASS |
| B4 | 3 | Mid | 20175 | 1732.5 | 16QAM | 6.86 | PASS |
| B4 | 3 | Mid | 20175 | 1732.5 | 64QAM | 6.99 | PASS |
| B4 | 3 | Mid | 20175 | 1732.5 | 256QAM | 6.97 | PASS |
| B4 | 3 | High | 20385 | 1753.5 | QPSK | 7.17 | PASS |
| B4 | 3 | High | 20385 | 1753.5 | 16QAM | 6.98 | PASS |
| B4 | 3 | High | 20385 | 1753.5 | 64QAM | 7.14 | PASS |
| B4 | 3 | High | 20385 | 1753.5 | 256QAM | 7.03 | PASS |
| B4 | 5 | Low | 19975 | 1712.5 | QPSK | 6.48 | PASS |
| B4 | 5 | Low | 19975 | 1712.5 | 16QAM | 6.71 | PASS |
| B4 | 5 | Low | 19975 | 1712.5 | 64QAM | 6.80 | PASS |
| B4 | 5 | Low | 19975 | 1712.5 | 256QAM | 6.80 | PASS |
| B4 | 5 | Mid | 20175 | 1732.5 | QPSK | 6.40 | PASS |
| B4 | 5 | Mid | 20175 | 1732.5 | 16QAM | 6.72 | PASS |
| B4 | 5 | Mid | 20175 | 1732.5 | 64QAM | 6.89 | PASS |
| B4 | 5 | Mid | 20175 | 1732.5 | 256QAM | 6.84 | PASS |
| B4 | 5 | High | 20375 | 1752.5 | QPSK | 7.52 | PASS |
| B4 | 5 | High | 20375 | 1752.5 | 16QAM | 7.13 | PASS |
| B4 | 5 | High | 20375 | 1752.5 | 64QAM | 7.09 | PASS |

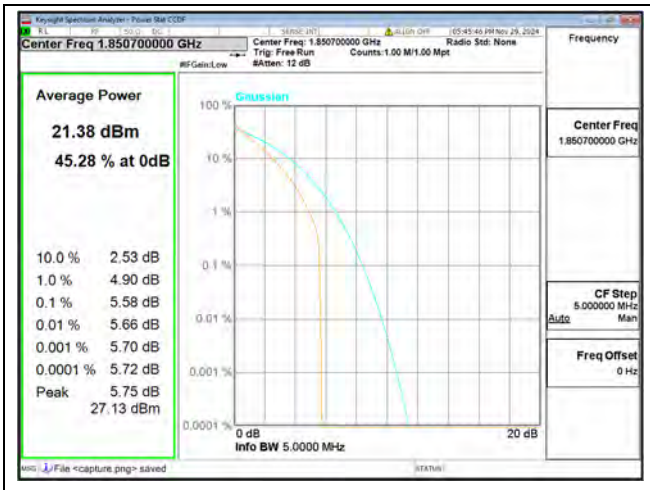
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| B4 | 5 | High | 20375 | 1752.5 | 256QAM | 6.94 | PASS |
| B4 | 10 | Low | 20000 | 1715 | QPSK | 6.43 | PASS |
| B4 | 10 | Low | 20000 | 1715 | 16QAM | 6.65 | PASS |
| B4 | 10 | Low | 20000 | 1715 | 64QAM | 6.77 | PASS |
| B4 | 10 | Low | 20000 | 1715 | 256QAM | 6.81 | PASS |
| B4 | 10 | Mid | 20175 | 1732.5 | QPSK | 6.51 | PASS |
| B4 | 10 | Mid | 20175 | 1732.5 | 16QAM | 6.85 | PASS |
| B4 | 10 | Mid | 20175 | 1732.5 | 64QAM | 6.93 | PASS |
| B4 | 10 | Mid | 20175 | 1732.5 | 256QAM | 6.85 | PASS |
| B4 | 10 | High | 20350 | 1750 | QPSK | 7.17 | PASS |
| B4 | 10 | High | 20350 | 1750 | 16QAM | 6.87 | PASS |
| B4 | 10 | High | 20350 | 1750 | 64QAM | 7.07 | PASS |
| B4 | 10 | High | 20350 | 1750 | 256QAM | 6.92 | PASS |
| B4 | 15 | Low | 20025 | 1717.5 | QPSK | 5.55 | PASS |
| B4 | 15 | Low | 20025 | 1717.5 | 16QAM | 6.34 | PASS |
| B4 | 15 | Low | 20025 | 1717.5 | 64QAM | 6.69 | PASS |
| B4 | 15 | Low | 20025 | 1717.5 | 256QAM | 6.82 | PASS |
| B4 | 15 | Mid | 20175 | 1732.5 | QPSK | 5.64 | PASS |
| B4 | 15 | Mid | 20175 | 1732.5 | 16QAM | 6.48 | PASS |
| B4 | 15 | Mid | 20175 | 1732.5 | 64QAM | 6.78 | PASS |
| B4 | 15 | Mid | 20175 | 1732.5 | 256QAM | 6.84 | PASS |
| B4 | 15 | High | 20325 | 1747.5 | QPSK | 5.66 | PASS |
| B4 | 15 | High | 20325 | 1747.5 | 16QAM | 6.51 | PASS |
| B4 | 15 | High | 20325 | 1747.5 | 64QAM | 6.83 | PASS |
| B4 | 15 | High | 20325 | 1747.5 | 256QAM | 6.93 | PASS |
| B4 | 20 | Low | 20050 | 1720 | QPSK | 5.46 | PASS |
| B4 | 20 | Low | 20050 | 1720 | 16QAM | 6.37 | PASS |
| B4 | 20 | Low | 20050 | 1720 | 64QAM | 6.69 | PASS |
| B4 | 20 | Low | 20050 | 1720 | 256QAM | 6.74 | PASS |
| B4 | 20 | Mid | 20175 | 1732.5 | QPSK | 5.63 | PASS |
| B4 | 20 | Mid | 20175 | 1732.5 | 16QAM | 6.49 | PASS |
| B4 | 20 | Mid | 20175 | 1732.5 | 64QAM | 6.80 | PASS |
| B4 | 20 | Mid | 20175 | 1732.5 | 256QAM | 6.79 | PASS |
| B4 | 20 | High | 20300 | 1745 | QPSK | 5.68 | PASS |
| B4 | 20 | High | 20300 | 1745 | 16QAM | 6.53 | PASS |
| B4 | 20 | High | 20300 | 1745 | 64QAM | 6.89 | PASS |
| B4 | 20 | High | 20300 | 1745 | 256QAM | 6.93 | PASS |

| LTE Band | BW(MHz) | Channel Level | Channel | Frequency (MHz) | Modulation | Peak to Average Radio(dB) | Verdict |
|---|---|---|---|---|---|---|---|
| B25 | 1.4 | Low | 26047 | 1850.7 | QPSK | 5.36 | PASS |
| B25 | 1.4 | Low | 26047 | 1850.7 | 16QAM | 6.87 | PASS |
| B25 | 1.4 | Low | 26047 | 1850.7 | 64QAM | 7.01 | PASS |
| B25 | 1.4 | Low | 26047 | 1850.7 | 256QAM | 7.01 | PASS |
| B25 | 1.4 | Mid | 26365 | 1882.5 | QPSK | 6.37 | PASS |
| B25 | 1.4 | Mid | 26365 | 1882.5 | 16QAM | 6.94 | PASS |
| B25 | 1.4 | Mid | 26365 | 1882.5 | 64QAM | 6.92 | PASS |
| B25 | 1.4 | Mid | 26365 | 1882.5 | 256QAM | 6.99 | PASS |
| B25 | 1.4 | High | 26683 | 1914.3 | QPSK | 5.98 | PASS |
| B25 | 1.4 | High | 26683 | 1914.3 | 16QAM | 6.35 | PASS |
| B25 | 1.4 | High | 26683 | 1914.3 | 64QAM | 6.55 | PASS |
| B25 | 1.4 | High | 26683 | 1914.3 | 256QAM | 6.89 | PASS |
| B25 | 3 | Low | 26055 | 1851.5 | QPSK | 6.88 | PASS |
| B25 | 3 | Low | 26055 | 1851.5 | 16QAM | 6.77 | PASS |
| B25 | 3 | Low | 26055 | 1851.5 | 64QAM | 6.84 | PASS |
| B25 | 3 | Low | 26055 | 1851.5 | 256QAM | 6.96 | PASS |
| B25 | 3 | Mid | 26365 | 1882.5 | QPSK | 6.58 | PASS |
| B25 | 3 | Mid | 26365 | 1882.5 | 16QAM | 7.04 | PASS |
| B25 | 3 | Mid | 26365 | 1882.5 | 64QAM | 6.85 | PASS |
| B25 | 3 | Mid | 26365 | 1882.5 | 256QAM | 6.95 | PASS |
| B25 | 3 | High | 26675 | 1913.5 | QPSK | 6.06 | PASS |
| B25 | 3 | High | 26675 | 1913.5 | 16QAM | 6.35 | PASS |
| B25 | 3 | High | 26675 | 1913.5 | 64QAM | 6.57 | PASS |
| B25 | 3 | High | 26675 | 1913.5 | 256QAM | 6.83 | PASS |
| B25 | 5 | Low | 26065 | 1852.5 | QPSK | 6.62 | PASS |
| B25 | 5 | Low | 26065 | 1852.5 | 16QAM | 6.84 | PASS |
| B25 | 5 | Low | 26065 | 1852.5 | 64QAM | 6.80 | PASS |
| B25 | 5 | Low | 26065 | 1852.5 | 256QAM | 6.91 | PASS |
| B25 | 5 | Mid | 26365 | 1882.5 | QPSK | 6.65 | PASS |
| B25 | 5 | Mid | 26365 | 1882.5 | 16QAM | 6.96 | PASS |
| B25 | 5 | Mid | 26365 | 1882.5 | 64QAM | 6.82 | PASS |
| B25 | 5 | Mid | 26365 | 1882.5 | 256QAM | 6.83 | PASS |
| B25 | 5 | High | 26665 | 1912.5 | QPSK | 6.33 | PASS |
| B25 | 5 | High | 26665 | 1912.5 | 16QAM | 6.66 | PASS |
| B25 | 5 | High | 26665 | 1912.5 | 64QAM | 6.61 | PASS |

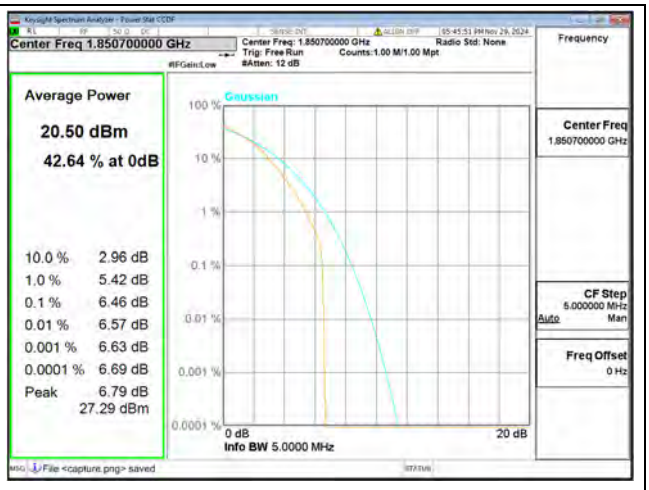
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| B25 | 5 | High | 26665 | 1912.5 | 256QAM | 6.72 | PASS |
| B25 | 10 | Low | 26090 | 1855 | QPSK | 6.92 | PASS |
| B25 | 10 | Low | 26090 | 1855 | 16QAM | 6.92 | PASS |
| B25 | 10 | Low | 26090 | 1855 | 64QAM | 6.78 | PASS |
| B25 | 10 | Low | 26090 | 1855 | 256QAM | 6.87 | PASS |
| B25 | 10 | Mid | 26365 | 1882.5 | QPSK | 6.63 | PASS |
| B25 | 10 | Mid | 26365 | 1882.5 | 16QAM | 6.92 | PASS |
| B25 | 10 | Mid | 26365 | 1882.5 | 64QAM | 6.82 | PASS |
| B25 | 10 | Mid | 26365 | 1882.5 | 256QAM | 6.85 | PASS |
| B25 | 10 | High | 26640 | 1910 | QPSK | 6.52 | PASS |
| B25 | 10 | High | 26640 | 1910 | 16QAM | 6.55 | PASS |
| B25 | 10 | High | 26640 | 1910 | 64QAM | 6.64 | PASS |
| B25 | 10 | High | 26640 | 1910 | 256QAM | 6.78 | PASS |
| B25 | 15 | Low | 26115 | 1857.5 | QPSK | 6.40 | PASS |
| B25 | 15 | Low | 26115 | 1857.5 | 16QAM | 6.98 | PASS |
| B25 | 15 | Low | 26115 | 1857.5 | 64QAM | 6.81 | PASS |
| B25 | 15 | Low | 26115 | 1857.5 | 256QAM | 6.92 | PASS |
| B25 | 15 | Mid | 26365 | 1882.5 | QPSK | 6.39 | PASS |
| B25 | 15 | Mid | 26365 | 1882.5 | 16QAM | 6.70 | PASS |
| B25 | 15 | Mid | 26365 | 1882.5 | 64QAM | 7.65 | PASS |
| B25 | 15 | Mid | 26365 | 1882.5 | 256QAM | 7.09 | PASS |
| B25 | 15 | High | 26615 | 1907.5 | QPSK | 7.38 | PASS |
| B25 | 15 | High | 26615 | 1907.5 | 16QAM | 7.72 | PASS |
| B25 | 15 | High | 26615 | 1907.5 | 64QAM | 7.75 | PASS |
| B25 | 15 | High | 26615 | 1907.5 | 256QAM | 7.03 | PASS |
| B25 | 20 | Low | 26140 | 1860 | QPSK | 6.39 | PASS |
| B25 | 20 | Low | 26140 | 1860 | 16QAM | 6.60 | PASS |
| B25 | 20 | Low | 26140 | 1860 | 64QAM | 6.79 | PASS |
| B25 | 20 | Low | 26140 | 1860 | 256QAM | 6.80 | PASS |
| B25 | 20 | Mid | 26365 | 1882.5 | QPSK | 6.42 | PASS |
| B25 | 20 | Mid | 26365 | 1882.5 | 16QAM | 6.63 | PASS |
| B25 | 20 | Mid | 26365 | 1882.5 | 64QAM | 6.84 | PASS |
| B25 | 20 | Mid | 26365 | 1882.5 | 256QAM | 6.92 | PASS |
| B25 | 20 | High | 26590 | 1905 | QPSK | 6.47 | PASS |
| B25 | 20 | High | 26590 | 1905 | 16QAM | 6.53 | PASS |
| B25 | 20 | High | 26590 | 1905 | 64QAM | 6.69 | PASS |
| B25 | 20 | High | 26590 | 1905 | 256QAM | 6.81 | PASS |

| LTE Band | BW(MHz) | Channel Level | Channel | Frequency (MHz) | Modulation | Peak to Average Radio(dB) | Verdict |
|---|---|---|---|---|---|---|---|
| B66 | 1.4 | Low | 131979 | 1710.7 | QPSK | 5.44 | PASS |
| B66 | 1.4 | Low | 131979 | 1710.7 | 16QAM | 6.40 | PASS |
| B66 | 1.4 | Low | 131979 | 1710.7 | 64QAM | 6.39 | PASS |
| B66 | 1.4 | Low | 131979 | 1710.7 | 256QAM | 6.98 | PASS |
| B66 | 1.4 | Mid | 132322 | 1745 | QPSK | 5.62 | PASS |
| B66 | 1.4 | Mid | 132322 | 1745 | 16QAM | 9.05 | PASS |
| B66 | 1.4 | Mid | 132322 | 1745 | 64QAM | 7.08 | PASS |
| B66 | 1.4 | Mid | 132322 | 1745 | 256QAM | 7.01 | PASS |
| B66 | 1.4 | High | 132665 | 1779.3 | QPSK | 5.14 | PASS |
| B66 | 1.4 | High | 132665 | 1779.3 | 16QAM | 6.09 | PASS |
| B66 | 1.4 | High | 132665 | 1779.3 | 64QAM | 6.61 | PASS |
| B66 | 1.4 | High | 132665 | 1779.3 | 256QAM | 6.97 | PASS |
| B66 | 3 | Low | 131987 | 1711.5 | QPSK | 5.52 | PASS |
| B66 | 3 | Low | 131987 | 1711.5 | 16QAM | 6.44 | PASS |
| B66 | 3 | Low | 131987 | 1711.5 | 64QAM | 6.85 | PASS |
| B66 | 3 | Low | 131987 | 1711.5 | 256QAM | 6.94 | PASS |
| B66 | 3 | Mid | 132322 | 1745 | QPSK | 6.95 | PASS |
| B66 | 3 | Mid | 132322 | 1745 | 16QAM | 7.81 | PASS |
| B66 | 3 | Mid | 132322 | 1745 | 64QAM | 8.02 | PASS |
| B66 | 3 | Mid | 132322 | 1745 | 256QAM | 7.21 | PASS |
| B66 | 3 | High | 132657 | 1778.5 | QPSK | 5.30 | PASS |
| B66 | 3 | High | 132657 | 1778.5 | 16QAM | 6.19 | PASS |
| B66 | 3 | High | 132657 | 1778.5 | 64QAM | 6.69 | PASS |
| B66 | 3 | High | 132657 | 1778.5 | 256QAM | 6.88 | PASS |
| B66 | 5 | Low | 131997 | 1712.5 | QPSK | 5.65 | PASS |
| B66 | 5 | Low | 131997 | 1712.5 | 16QAM | 6.48 | PASS |
| B66 | 5 | Low | 131997 | 1712.5 | 64QAM | 6.78 | PASS |
| B66 | 5 | Low | 131997 | 1712.5 | 256QAM | 6.78 | PASS |
| B66 | 5 | Mid | 132322 | 1745 | QPSK | 7.19 | PASS |
| B66 | 5 | Mid | 132322 | 1745 | 16QAM | 7.62 | PASS |
| B66 | 5 | Mid | 132322 | 1745 | 64QAM | 7.73 | PASS |
| B66 | 5 | Mid | 132322 | 1745 | 256QAM | 7.95 | PASS |
| B66 | 5 | High | 132647 | 1777.5 | QPSK | 5.48 | PASS |
| B66 | 5 | High | 132647 | 1777.5 | 16QAM | 6.26 | PASS |
| B66 | 5 | High | 132647 | 1777.5 | 64QAM | 6.63 | PASS |

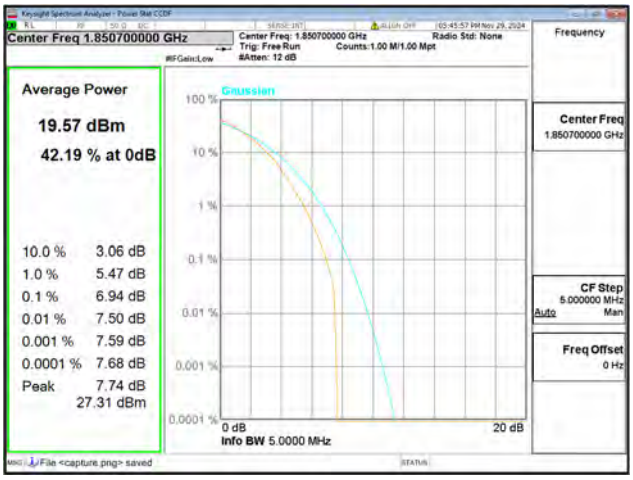
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| B66 | 5 | High | 132647 | 1777.5 | 256QAM | 6.76 | PASS |
| B66 | 10 | Low | 132022 | 1715 | QPSK | 5.73 | PASS |
| B66 | 10 | Low | 132022 | 1715 | 16QAM | 6.43 | PASS |
| B66 | 10 | Low | 132022 | 1715 | 64QAM | 6.71 | PASS |
| B66 | 10 | Low | 132022 | 1715 | 256QAM | 7.11 | PASS |
| B66 | 10 | Mid | 132322 | 1745 | QPSK | 5.86 | PASS |
| B66 | 10 | Mid | 132322 | 1745 | 16QAM | 6.58 | PASS |
| B66 | 10 | Mid | 132322 | 1745 | 64QAM | 6.85 | PASS |
| B66 | 10 | Mid | 132322 | 1745 | 256QAM | 6.90 | PASS |
| B66 | 10 | High | 132622 | 1775 | QPSK | 5.64 | PASS |
| B66 | 10 | High | 132622 | 1775 | 16QAM | 6.35 | PASS |
| B66 | 10 | High | 132622 | 1775 | 64QAM | 6.67 | PASS |
| B66 | 10 | High | 132622 | 1775 | 256QAM | 6.79 | PASS |
| B66 | 15 | Low | 132047 | 1717.5 | QPSK | 5.56 | PASS |
| B66 | 15 | Low | 132047 | 1717.5 | 16QAM | 6.42 | PASS |
| B66 | 15 | Low | 132047 | 1717.5 | 64QAM | 6.76 | PASS |
| B66 | 15 | Low | 132047 | 1717.5 | 256QAM | 6.84 | PASS |
| B66 | 15 | Mid | 132322 | 1745 | QPSK | 7.00 | PASS |
| B66 | 15 | Mid | 132322 | 1745 | 16QAM | 7.63 | PASS |
| B66 | 15 | Mid | 132322 | 1745 | 64QAM | 7.96 | PASS |
| B66 | 15 | Mid | 132322 | 1745 | 256QAM | 6.97 | PASS |
| B66 | 15 | High | 132597 | 1772.5 | QPSK | 5.46 | PASS |
| B66 | 15 | High | 132597 | 1772.5 | 16QAM | 6.30 | PASS |
| B66 | 15 | High | 132597 | 1772.5 | 64QAM | 6.72 | PASS |
| B66 | 15 | High | 132597 | 1772.5 | 256QAM | 6.86 | PASS |
| B66 | 20 | Low | 132072 | 1720 | QPSK | 5.52 | PASS |
| B66 | 20 | Low | 132072 | 1720 | 16QAM | 6.41 | PASS |
| B66 | 20 | Low | 132072 | 1720 | 64QAM | 6.73 | PASS |
| B66 | 20 | Low | 132072 | 1720 | 256QAM | 6.79 | PASS |
| B66 | 20 | Mid | 132322 | 1745 | QPSK | 7.22 | PASS |
| B66 | 20 | Mid | 132322 | 1745 | 16QAM | 6.83 | PASS |
| B66 | 20 | Mid | 132322 | 1745 | 64QAM | 7.78 | PASS |
| B66 | 20 | Mid | 132322 | 1745 | 256QAM | 6.90 | PASS |
| B66 | 20 | High | 132572 | 1770 | QPSK | 6.40 | PASS |
| B66 | 20 | High | 132572 | 1770 | 16QAM | 7.45 | PASS |
| B66 | 20 | High | 132572 | 1770 | 64QAM | 6.82 | PASS |
| B66 | 20 | High | 132572 | 1770 | 256QAM | 6.82 | PASS |



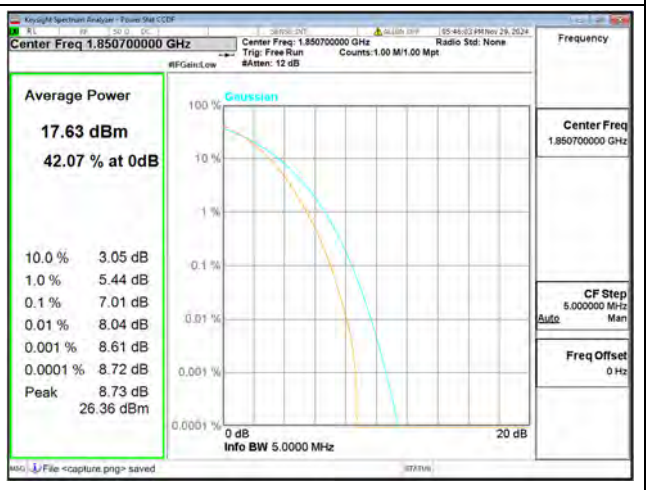

B2 / 1.4MHz / Low CH / QPSK



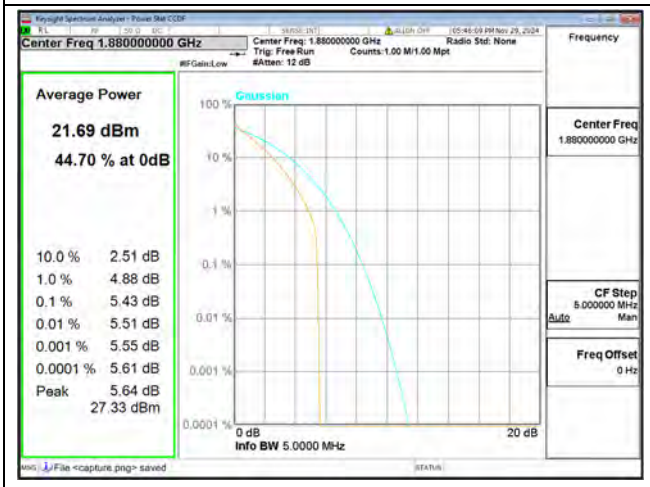

B2 / 1.4MHz / Low CH / 16QAM



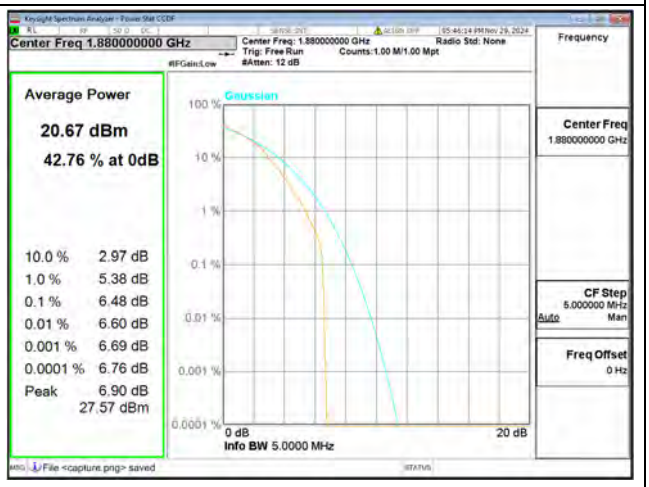

B2 / 1.4MHz / Low CH / 64QAM



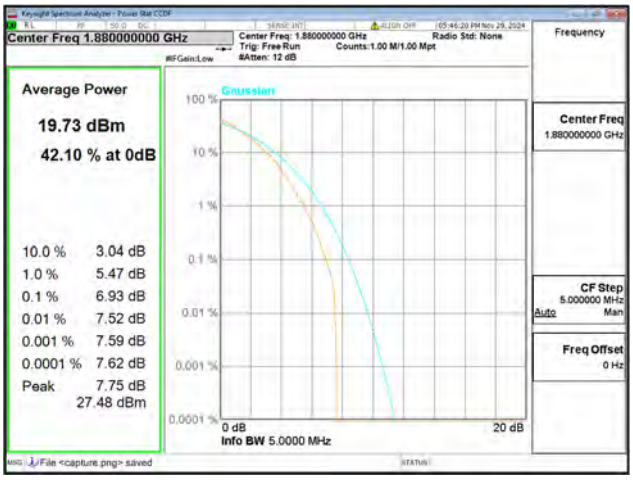

B2 / 1.4MHz / Low CH / 256QAM



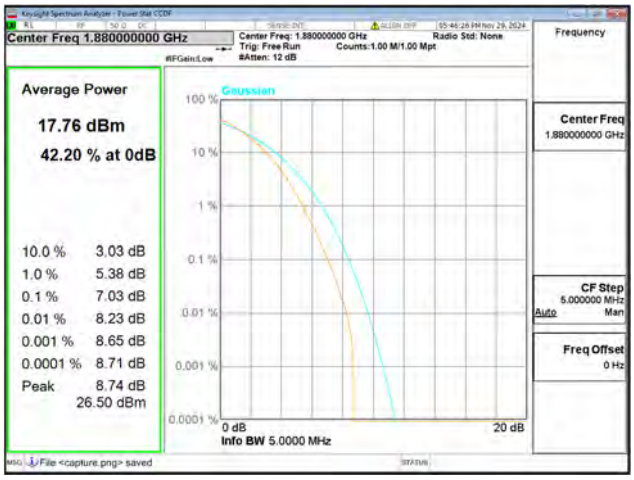

B2 / 1.4MHz / Mid CH / QPSK



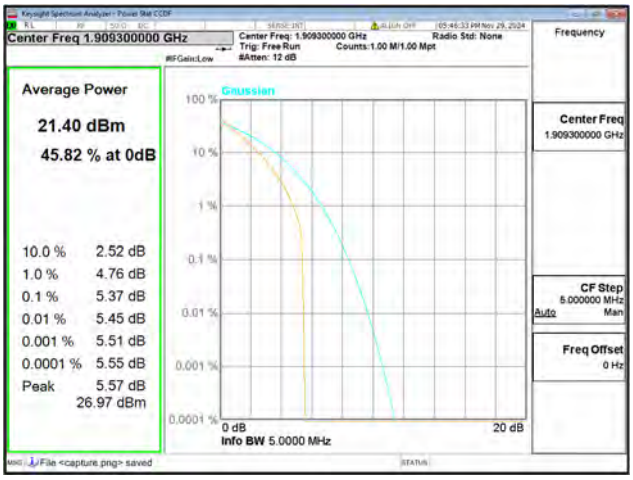

B2 / 1.4MHz / Mid CH / 16QAM



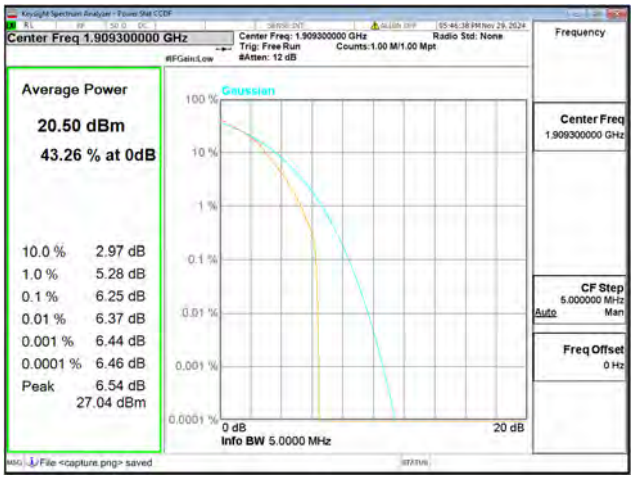

B2 / 1.4MHz / Mid CH / 64QAM



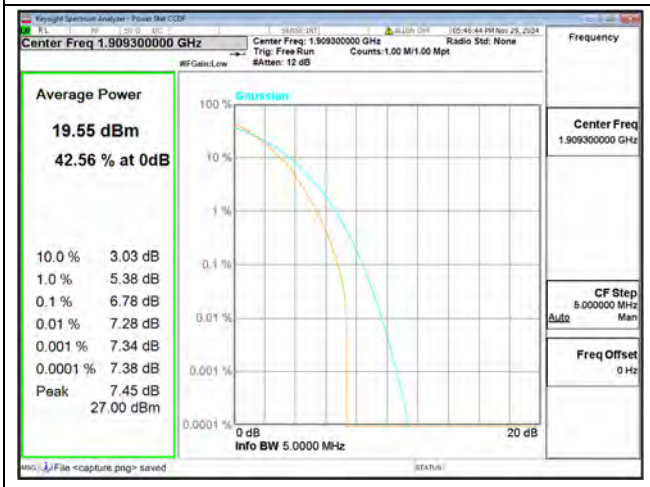

B2 / 1.4MHz / Mid CH / 256QAM



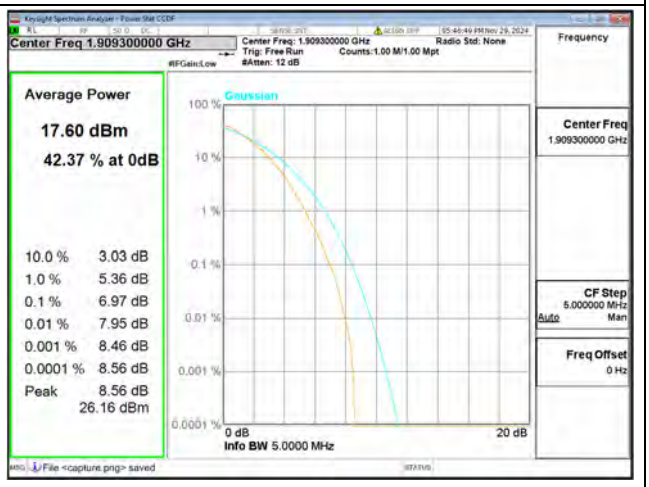

B2 / 1.4MHz / High CH / QPSK



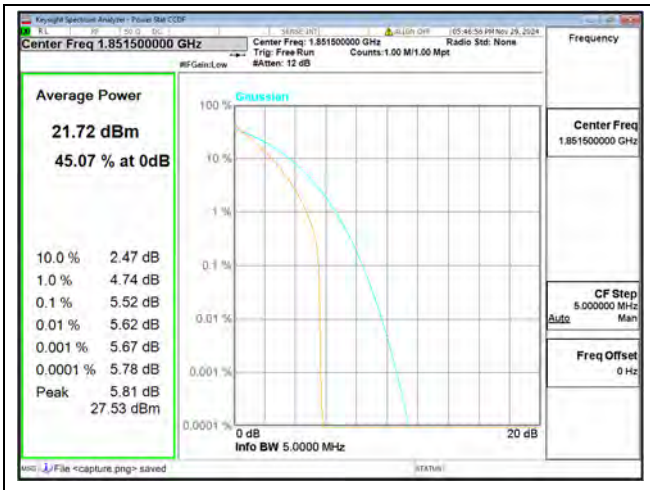

B2 / 1.4MHz / High CH / 16QAM



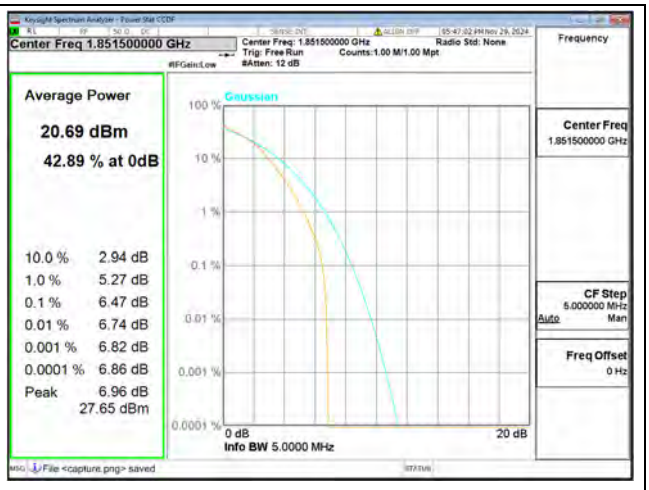

B2 / 1.4MHz / High CH / 64QAM



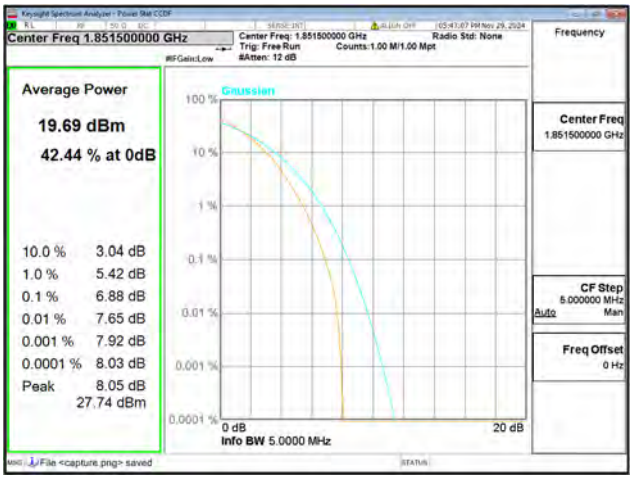

B2 / 1.4MHz / High CH / 256QAM



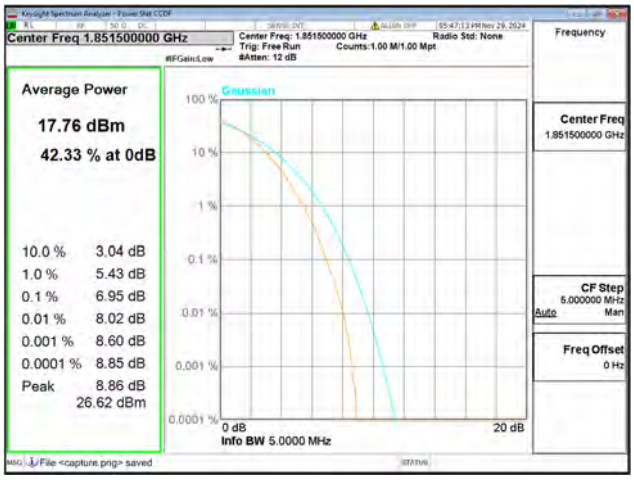

B2 / 3MHz / Low CH / QPSK



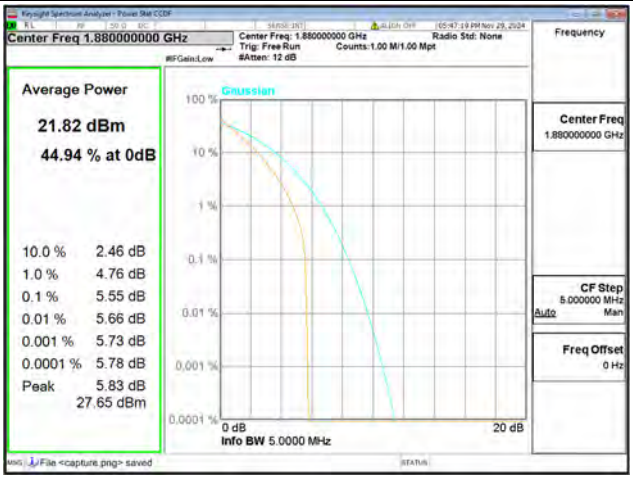

B2 / 3MHz / Low CH / 16QAM



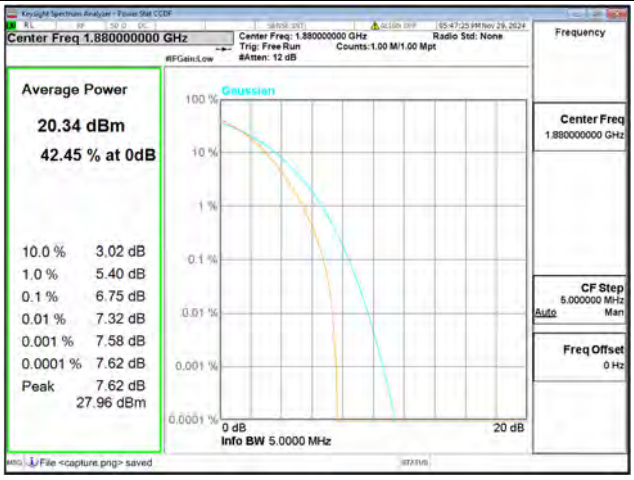

B2 / 3MHz / Low CH / 64QAM



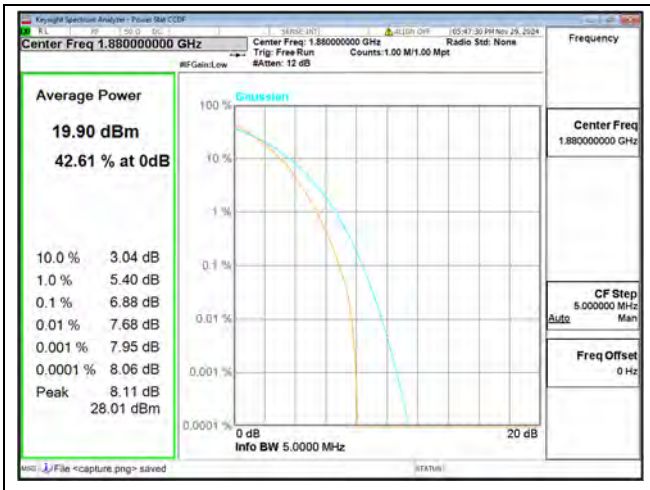

B2 / 3MHz / Low CH / 256QAM



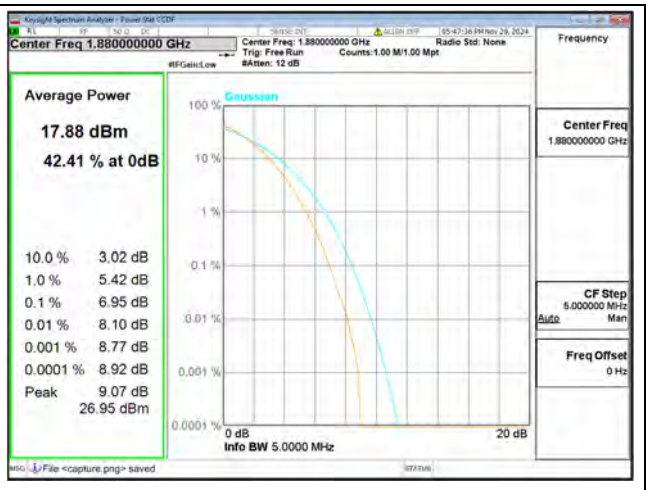

B2 / 3MHz / Mid CH / QPSK



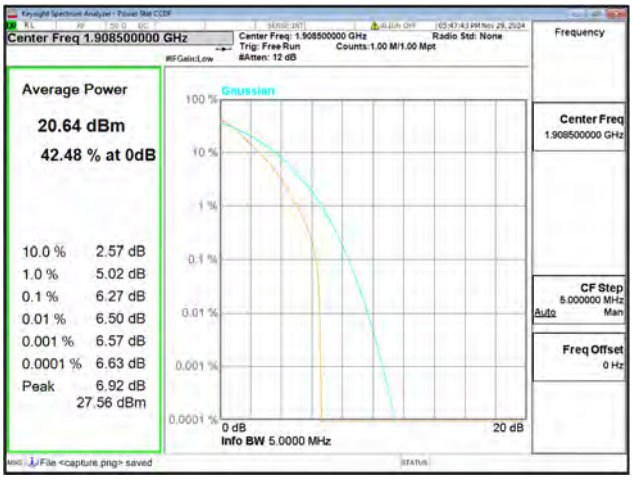

B2 / 3MHz / Mid CH / 16QAM



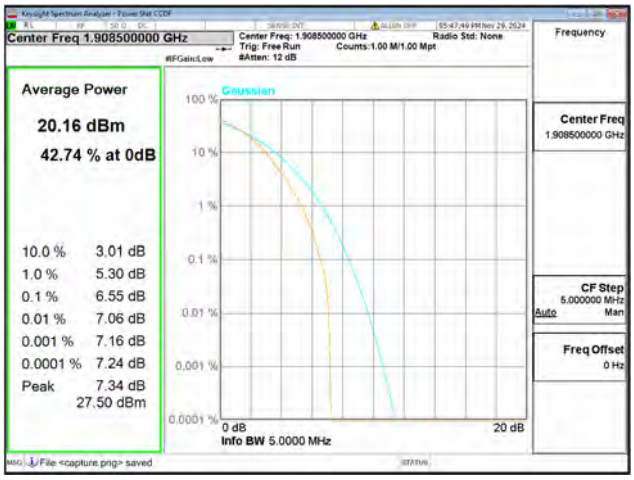

B2 / 3MHz / Mid CH / 64QAM



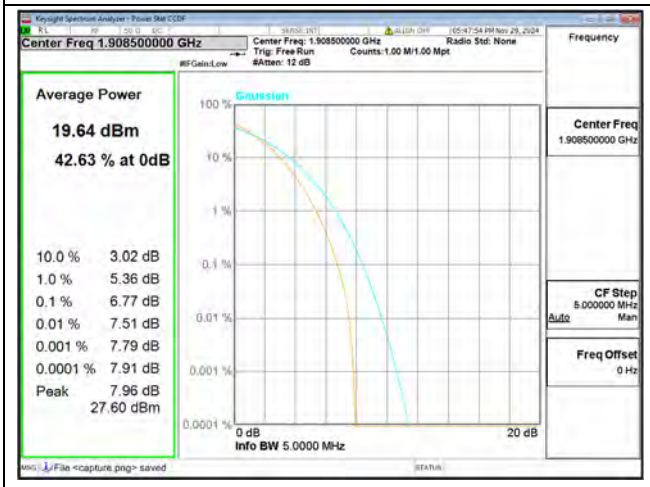

B2 / 3MHz / Mid CH / 256QAM



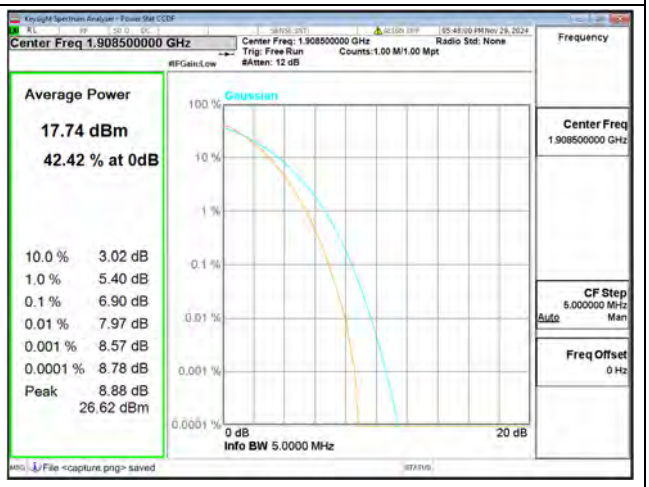

B2 / 3MHz / High CH / QPSK



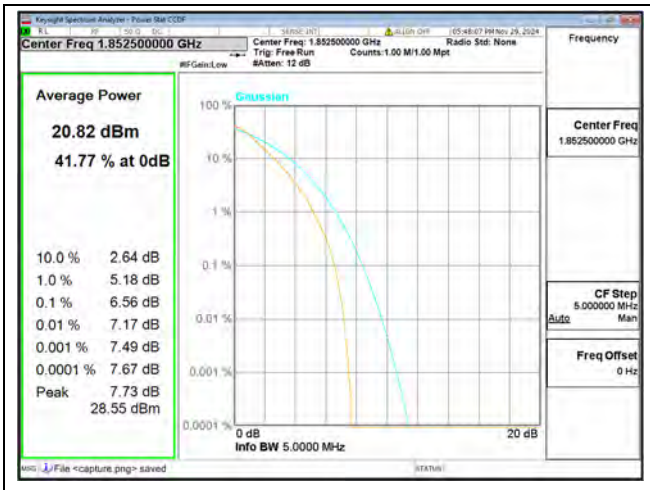

B2 / 3MHz / High CH / 16QAM



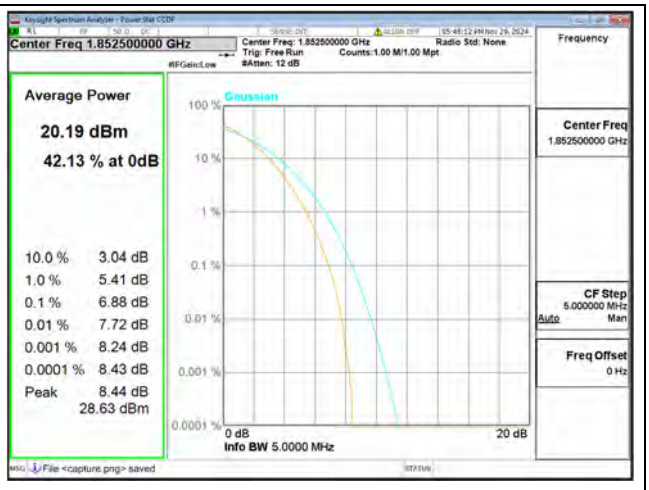

B2 / 3MHz / High CH / 64QAM



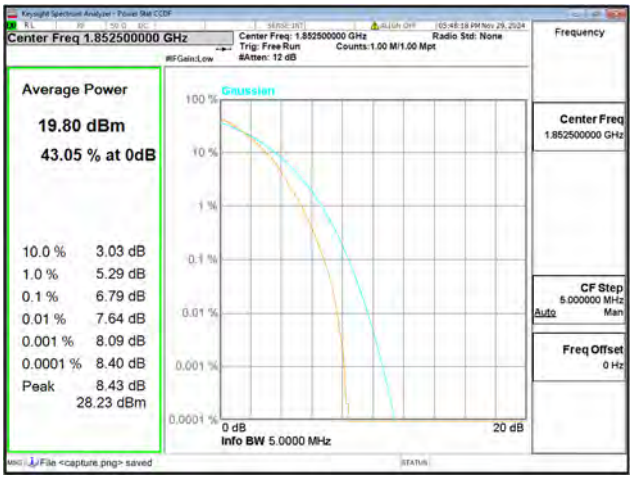

B2 / 3MHz / High CH / 256QAM



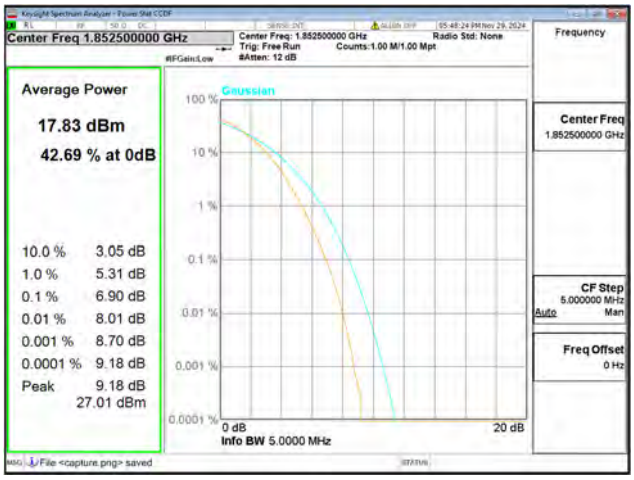

B2 / 5MHz / Low CH / QPSK



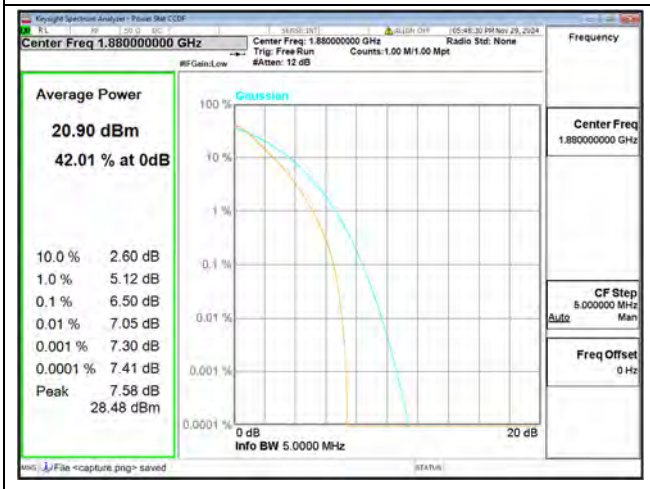

B2 / 5MHz / Low CH / 16QAM



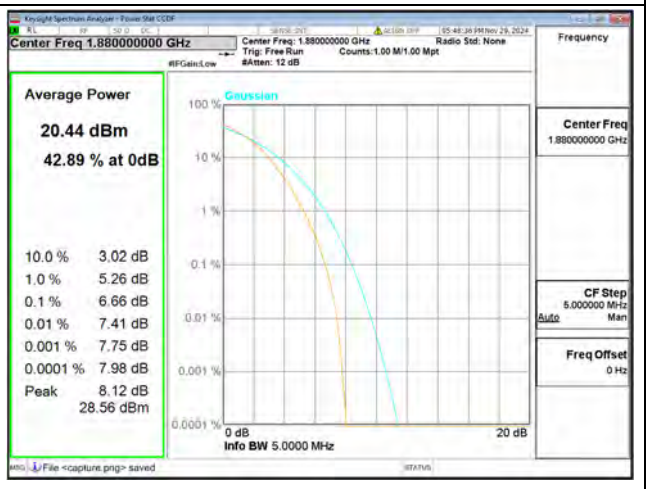

B2 / 5MHz / Low CH / 64QAM



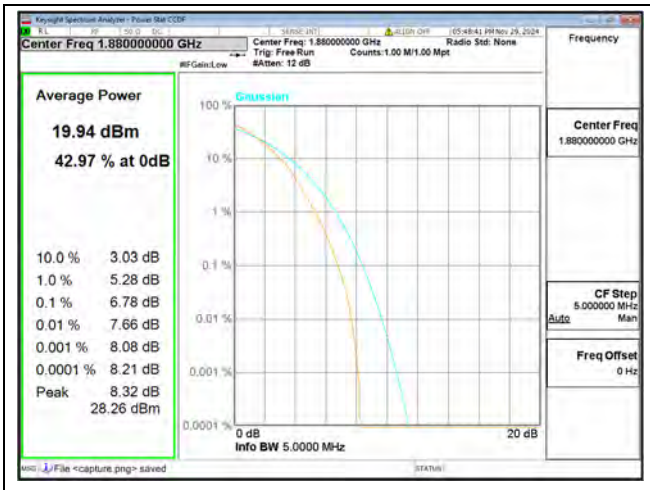

B2 / 5MHz / Low CH / 256QAM



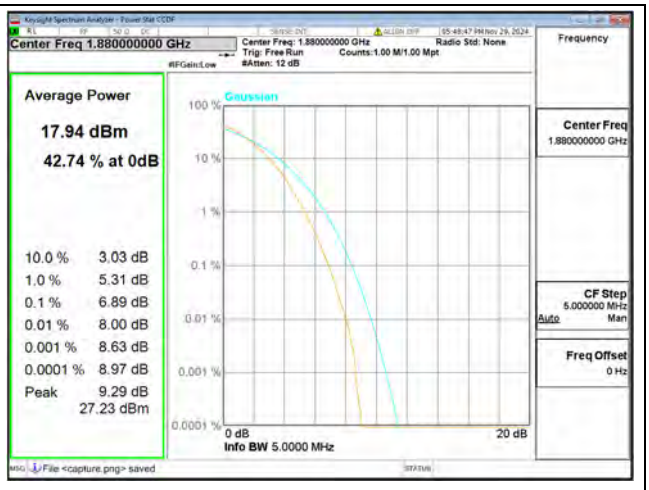

B2 / 5MHz / Mid CH / QPSK



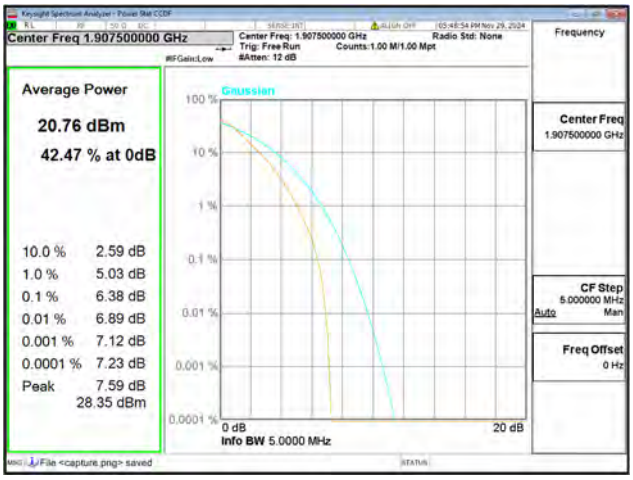

B2 / 5MHz / Mid CH / 16QAM



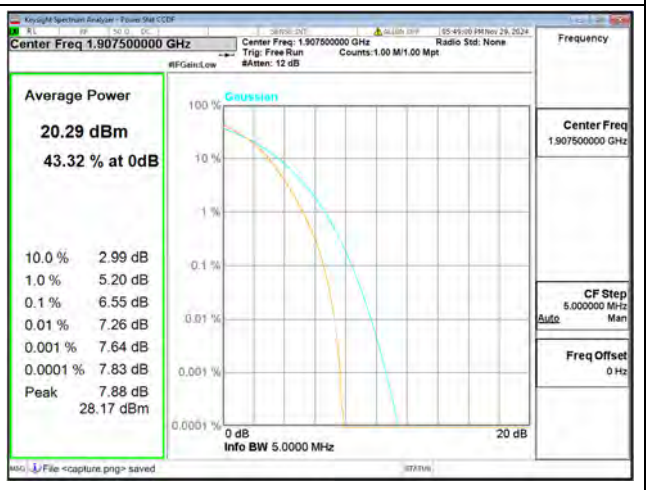

B2 / 5MHz / Mid CH / 64QAM



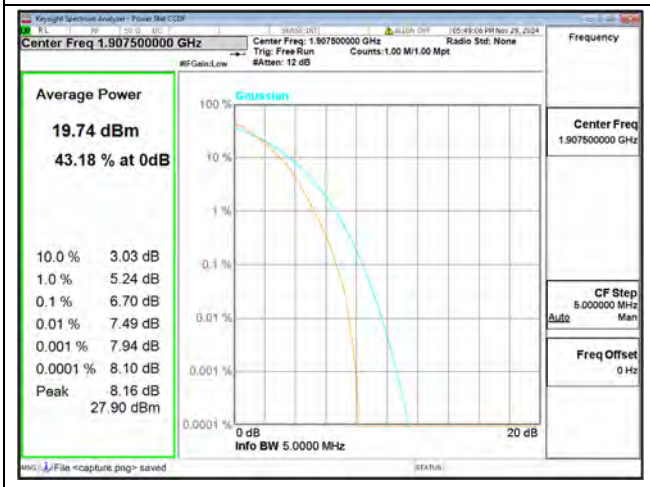

B2 / 5MHz / Mid CH / 256QAM



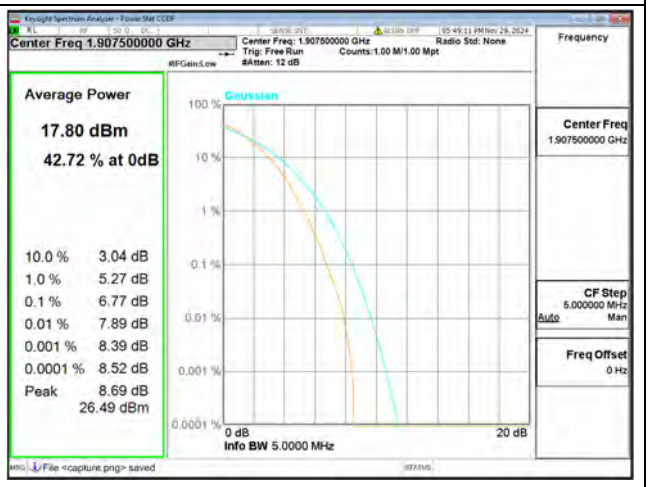

B2 / 5MHz / High CH / QPSK



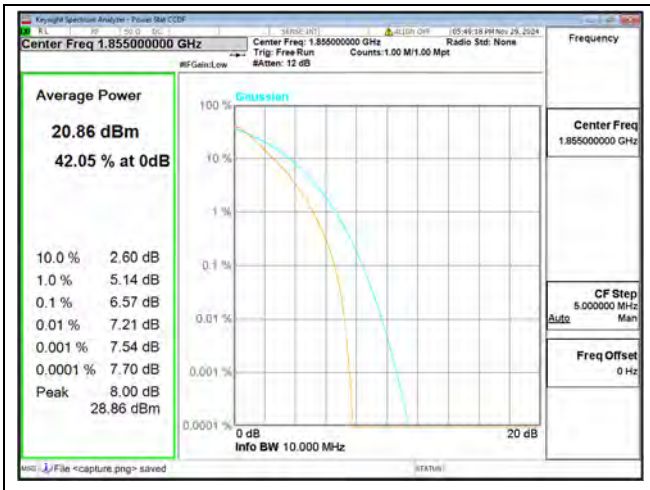

B2 / 5MHz / High CH / 16QAM



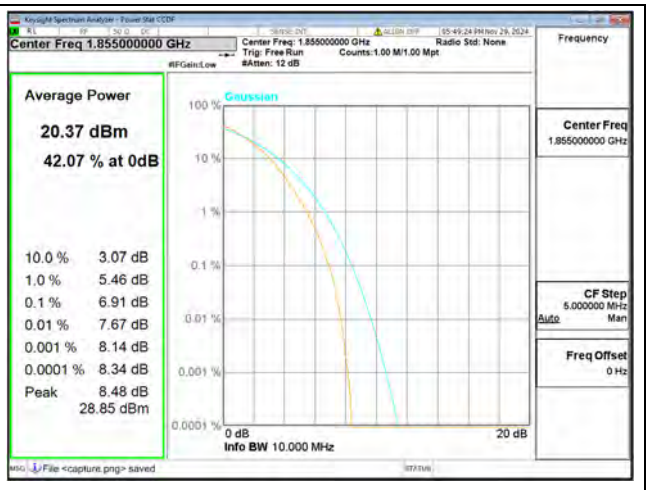

B2 / 5MHz / High CH / 64QAM



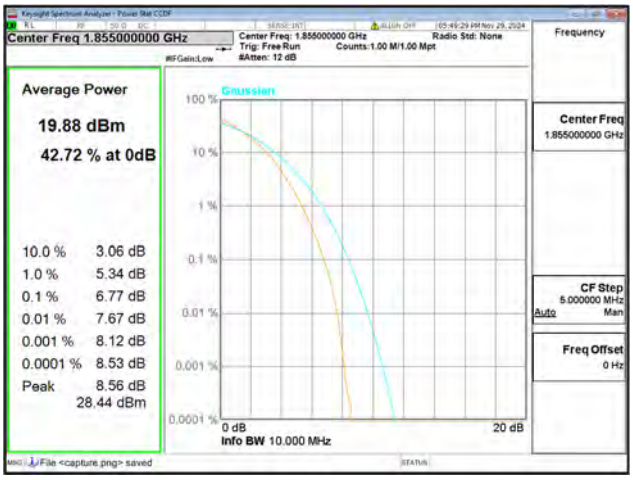

B2 / 5MHz / High CH / 256QAM



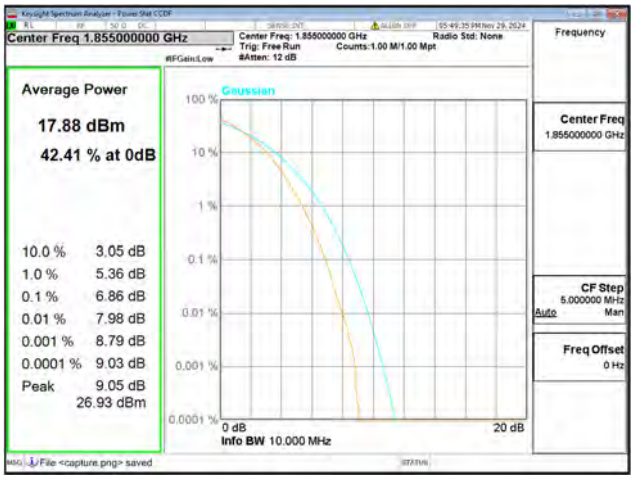

B2 / 10MHz / Low CH / QPSK



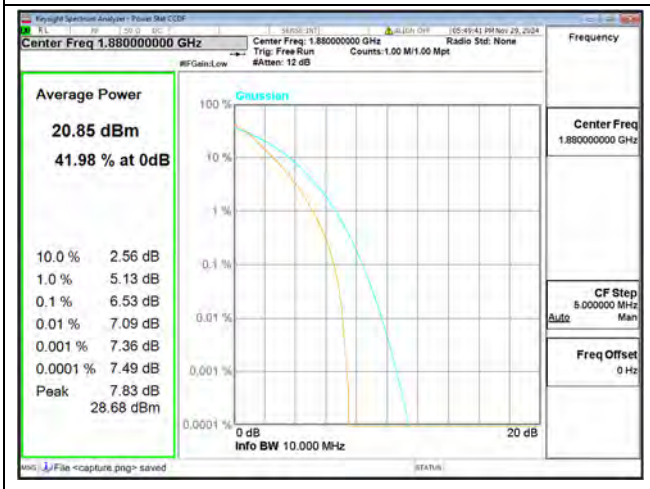

B2 / 10MHz / Low CH / 16QAM



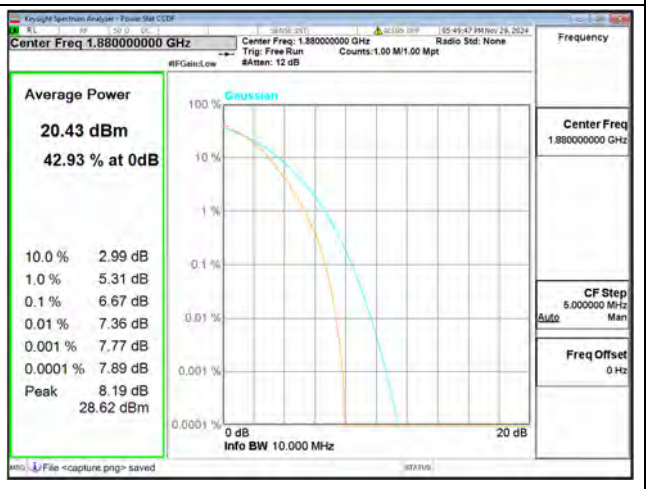

B2 / 10MHz / Low CH / 64QAM



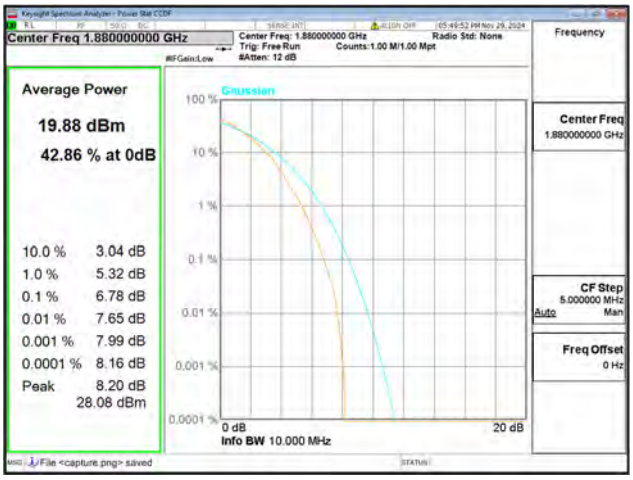

B2 / 10MHz / Low CH / 256QAM



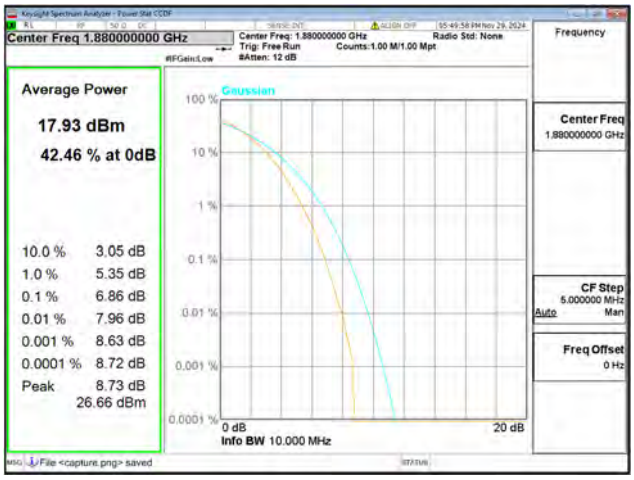

B2 / 10MHz / Mid CH / QPSK



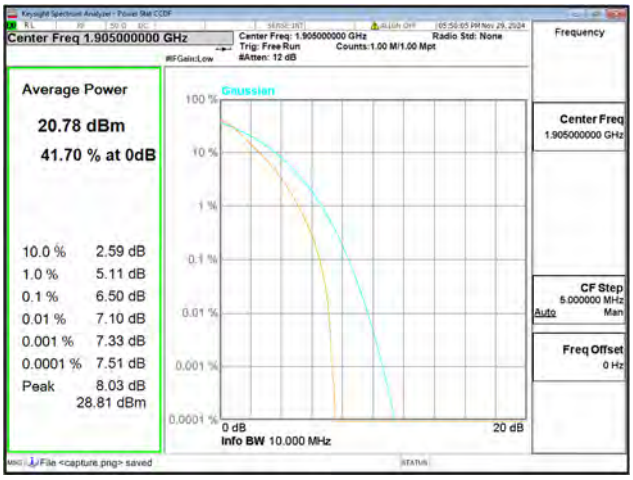

B2 / 10MHz / Mid CH / 16QAM



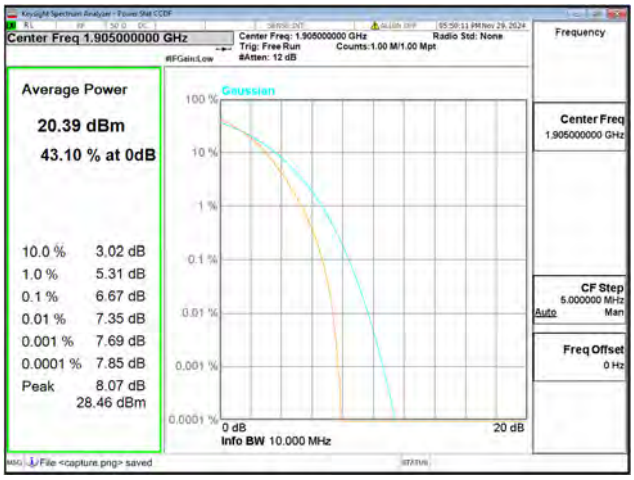

B2 / 10MHz / Mid CH / 64QAM



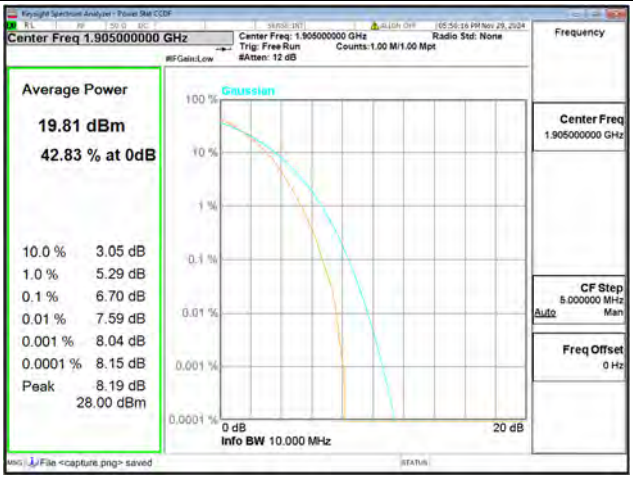

B2 / 10MHz / Mid CH / 256QAM



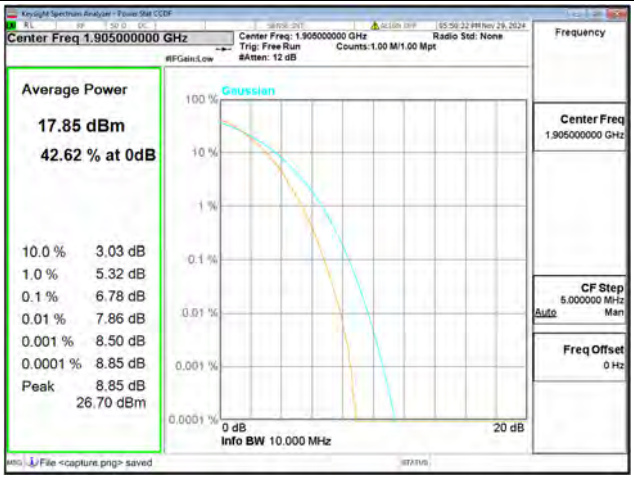

B2 / 10MHz / High CH / QPSK



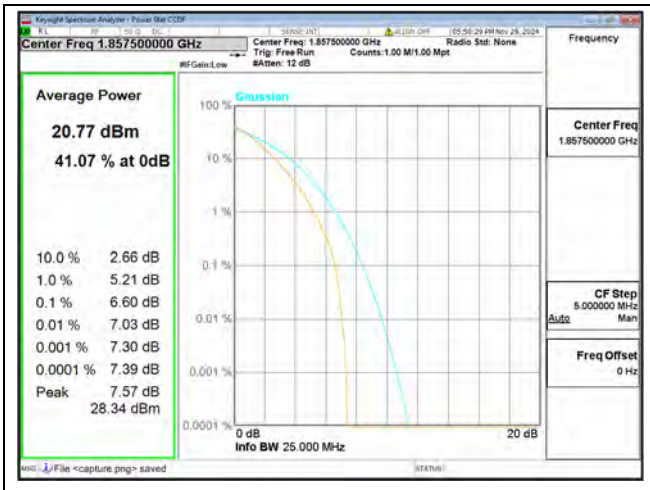

B2 / 10MHz / High CH / 16QAM



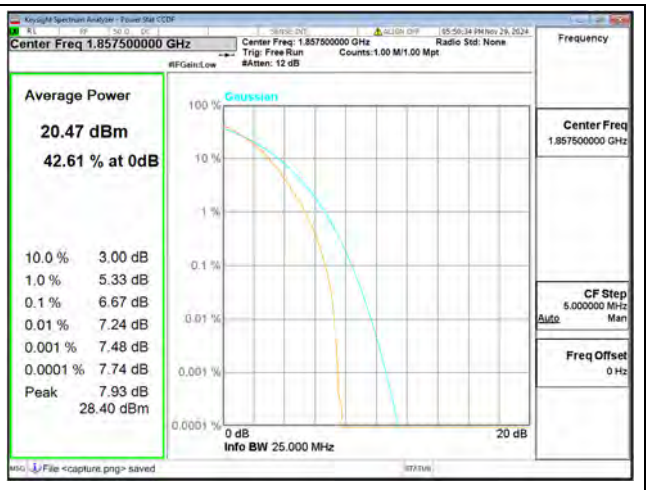

B2 / 10MHz / High CH / 64QAM



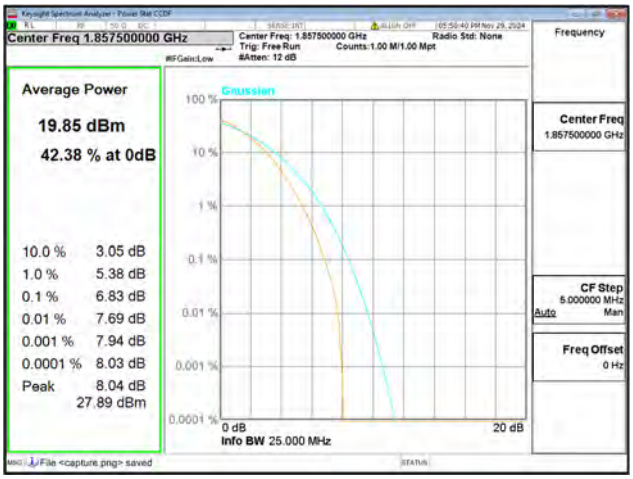

B2 / 10MHz / High CH / 256QAM



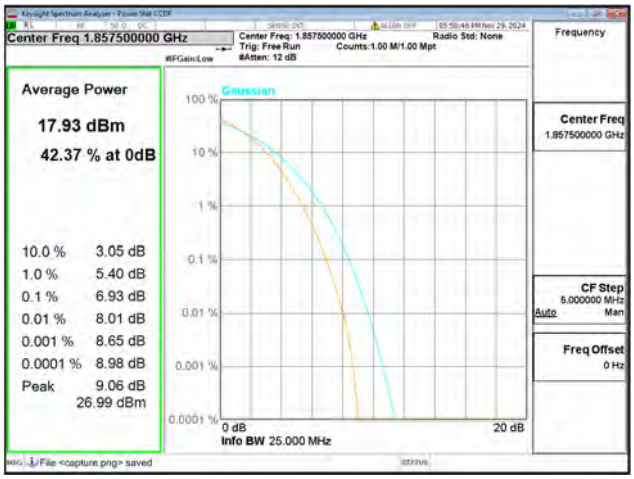

B2 / 15MHz / Low CH / QPSK



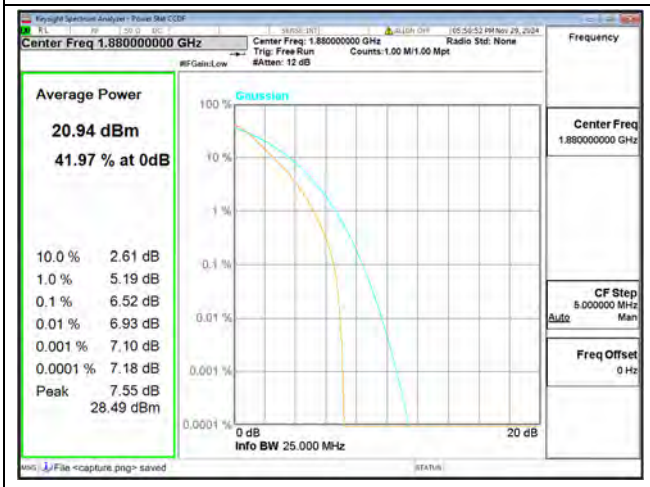

B2 / 15MHz / Low CH / 16QAM



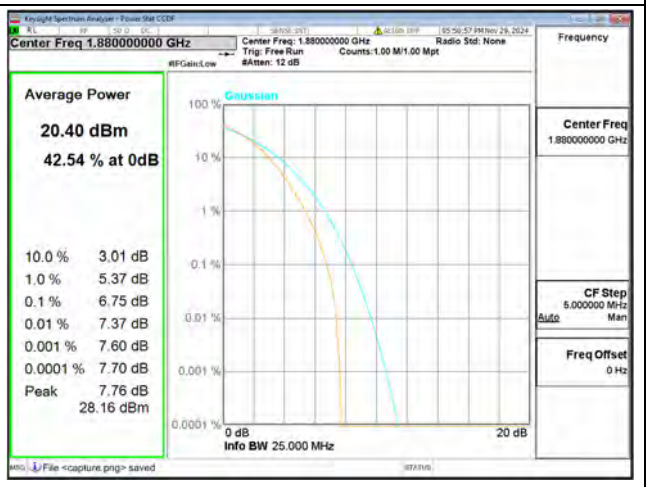

B2 / 15MHz / Low CH / 64QAM



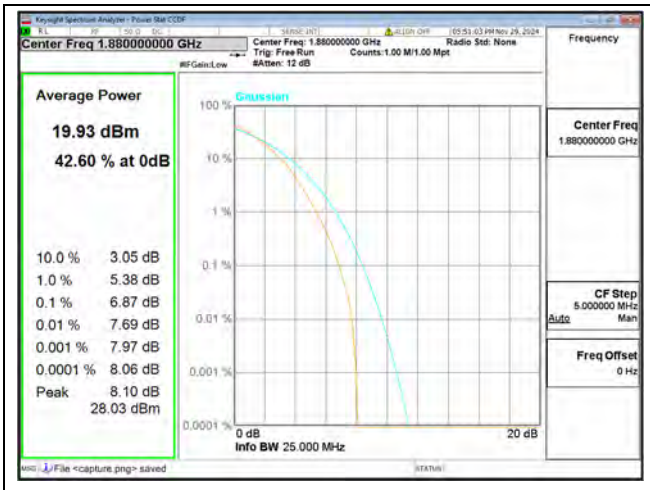

B2 / 15MHz / Low CH / 256QAM



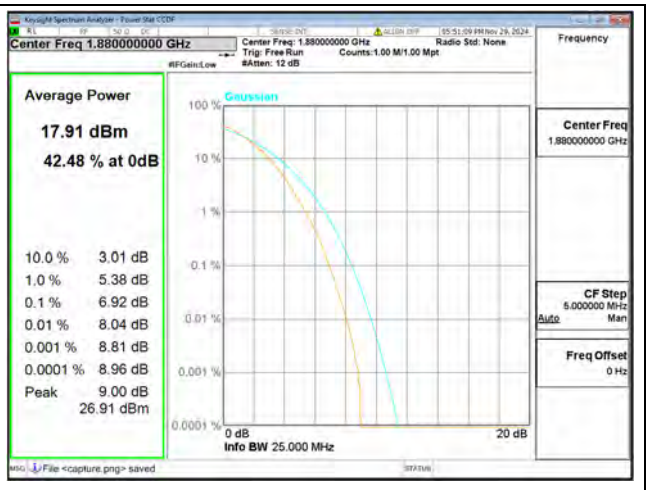

B2 / 15MHz / Mid CH / QPSK



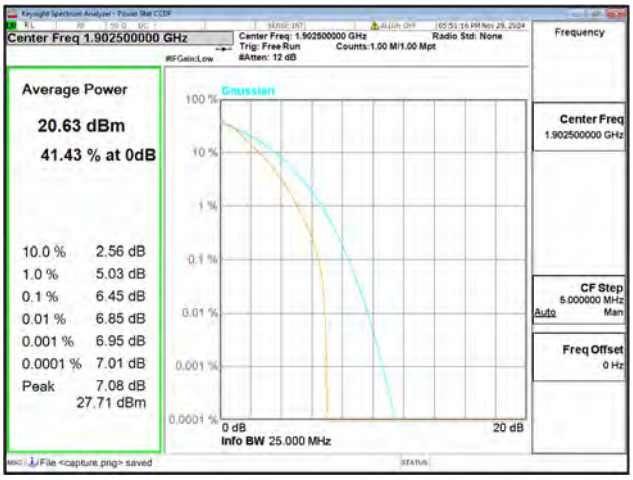

B2 / 15MHz / Mid CH / 16QAM



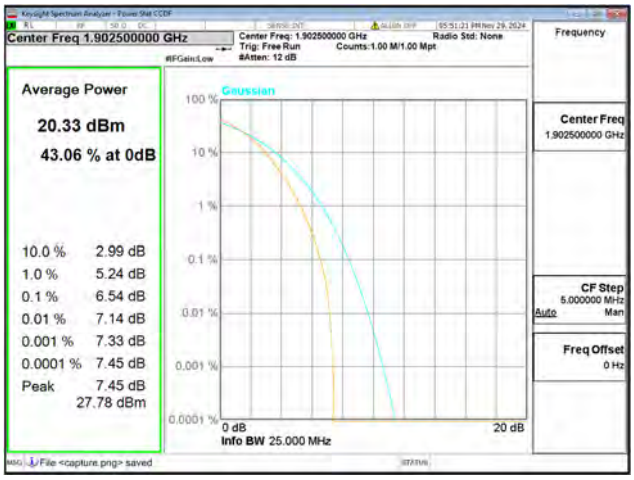

B2 / 15MHz / Mid CH / 64QAM



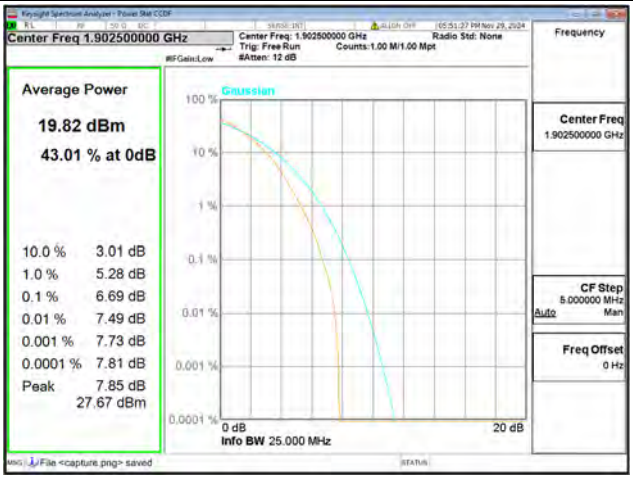

B2 / 15MHz / Mid CH / 256QAM



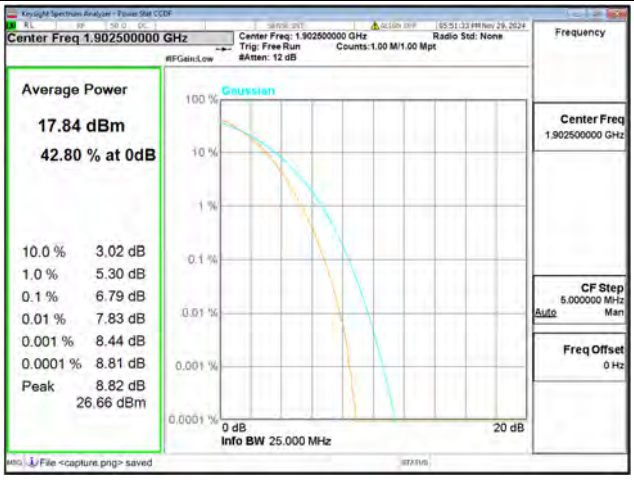

B2 / 15MHz / High CH / QPSK



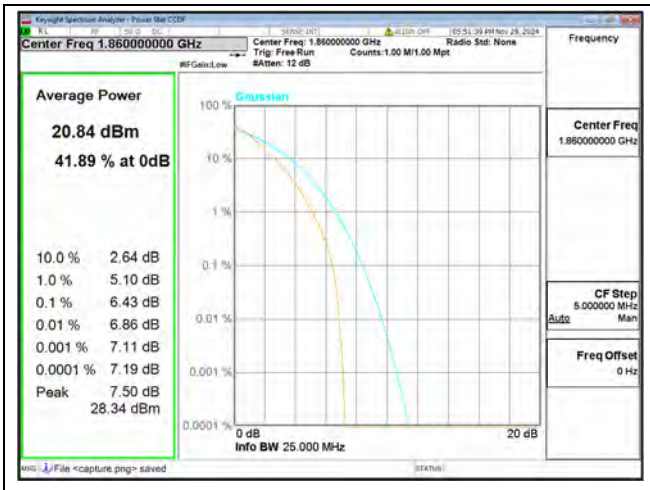

B2 / 15MHz / High CH / 16QAM



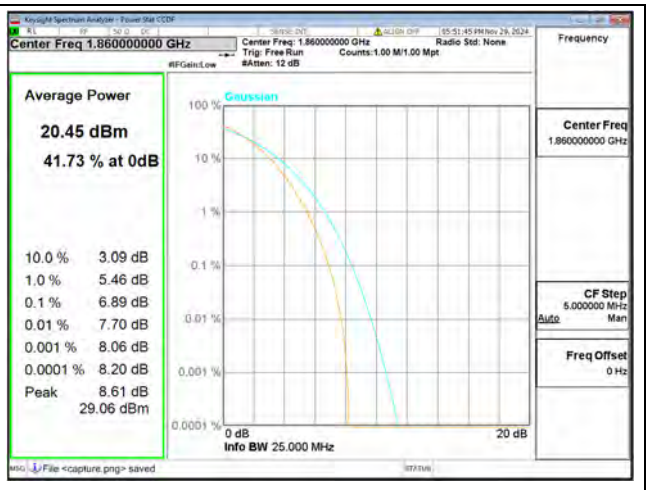

B2 / 15MHz / High CH / 64QAM



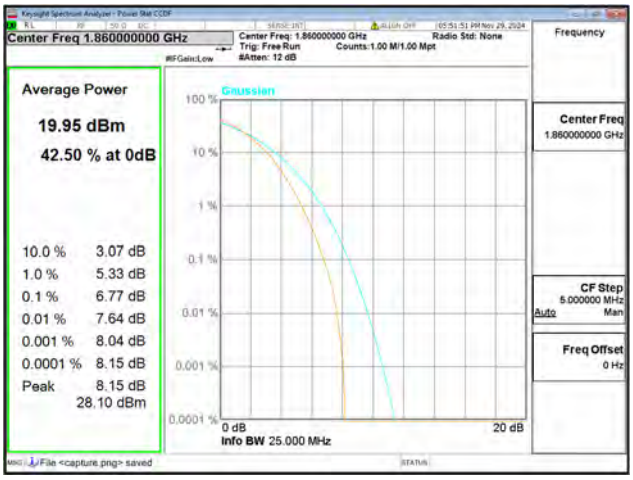

B2 / 15MHz / High CH / 256QAM



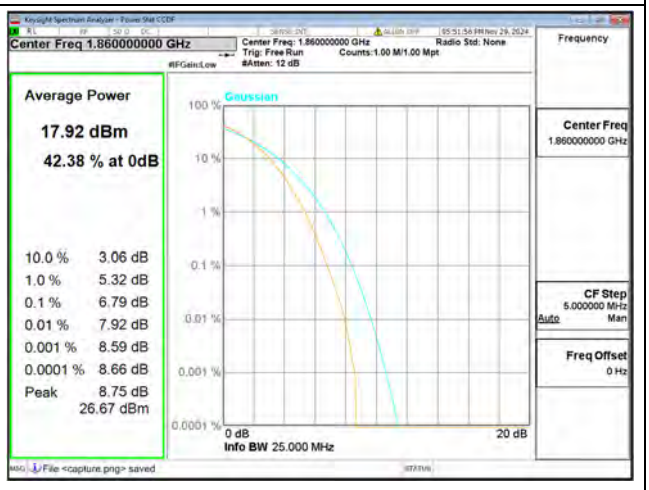

B2 / 20MHz / Low CH / QPSK



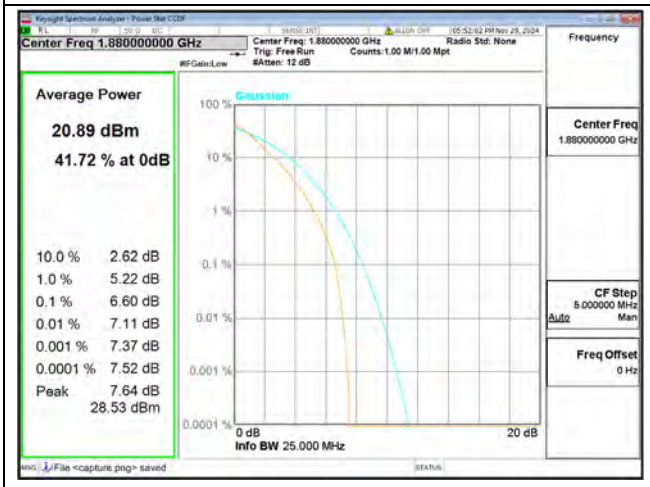

B2 / 20MHz / Low CH / 16QAM



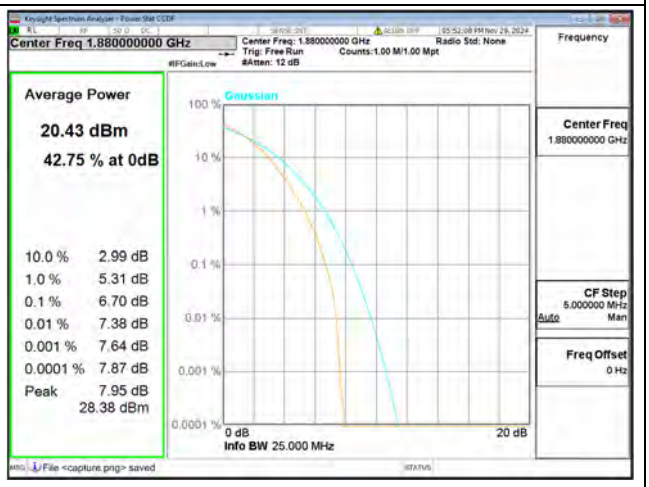

B2 / 20MHz / Low CH / 64QAM



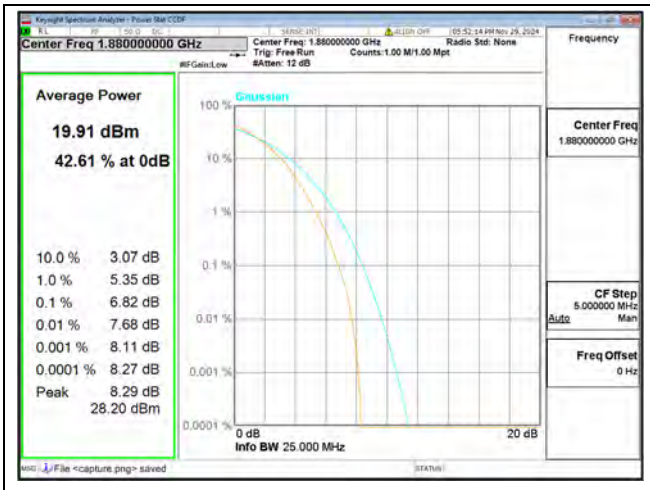

B2 / 20MHz / Low CH / 256QAM



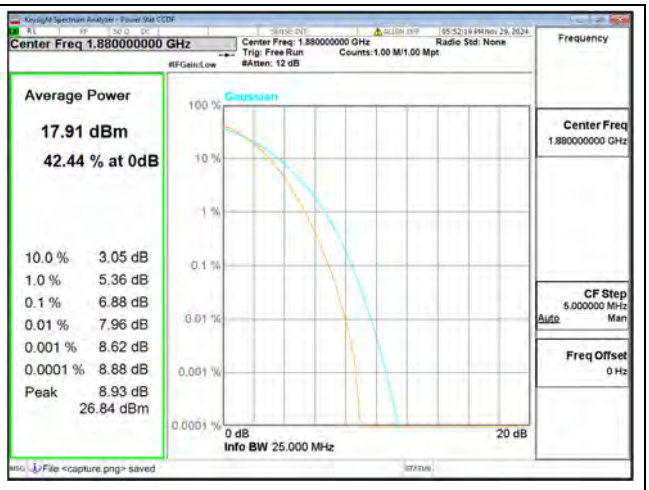

B2 / 20MHz / Mid CH / QPSK



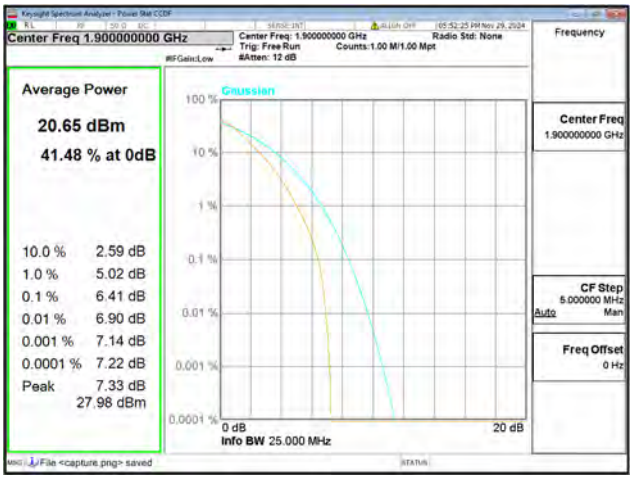

B2 / 20MHz / Mid CH / 16QAM



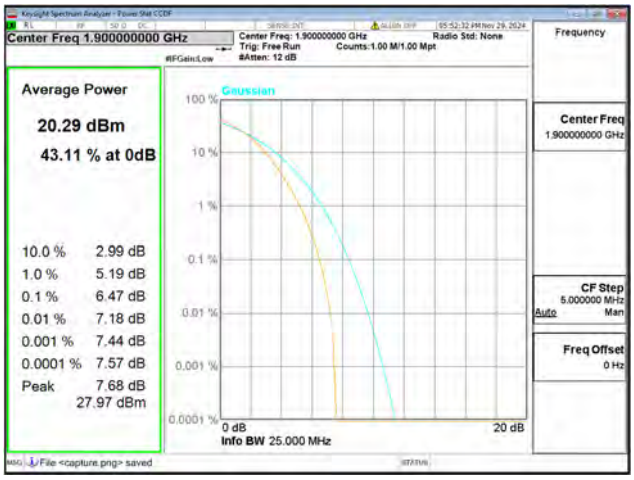

B2 / 20MHz / Mid CH / 64QAM



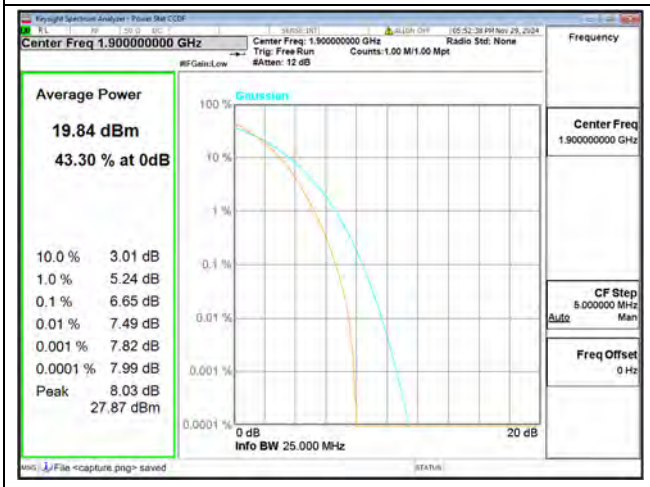

B2 / 20MHz / Mid CH / 256QAM



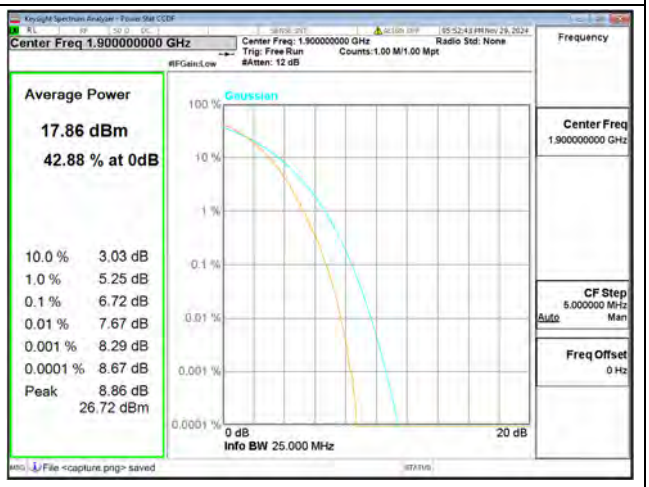

B2 / 20MHz / High CH / QPSK



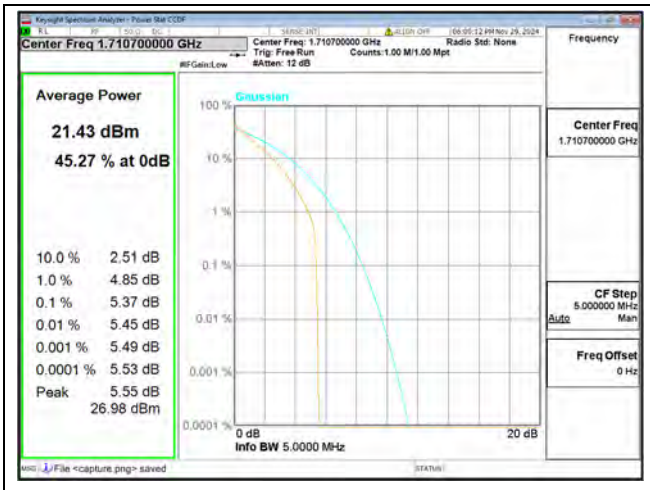

B2 / 20MHz / High CH / 16QAM



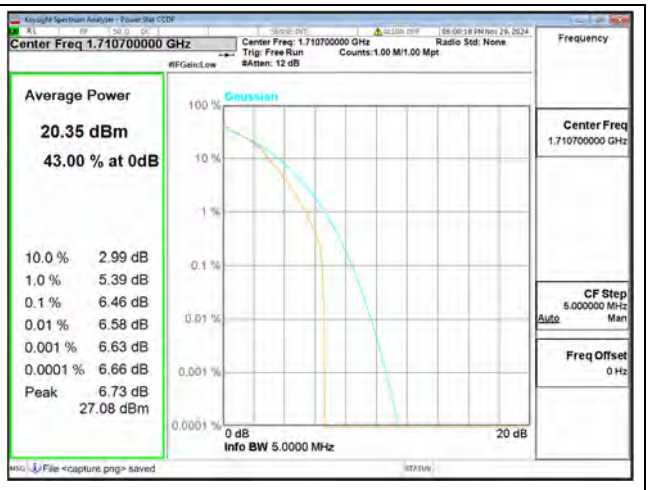

B2 / 20MHz / High CH / 64QAM



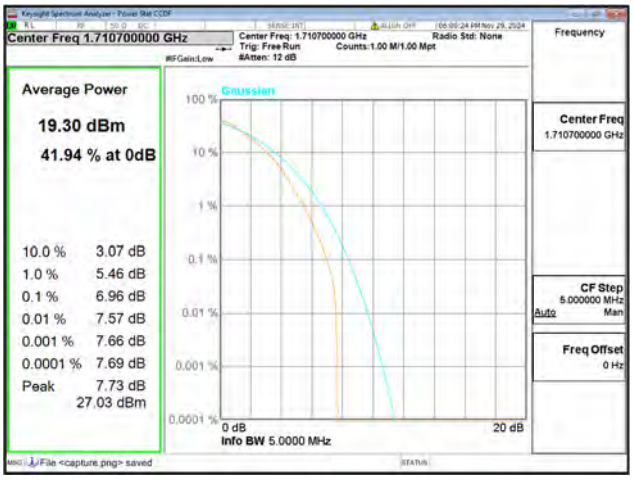

B2 / 20MHz / High CH / 256QAM



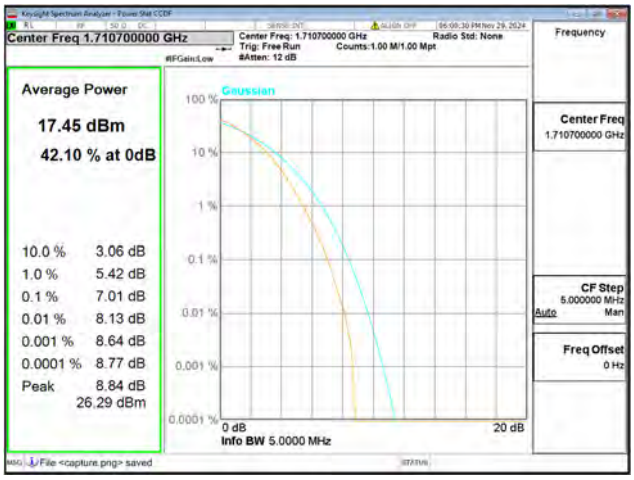

B4 / 1.4MHz / Low CH / QPSK



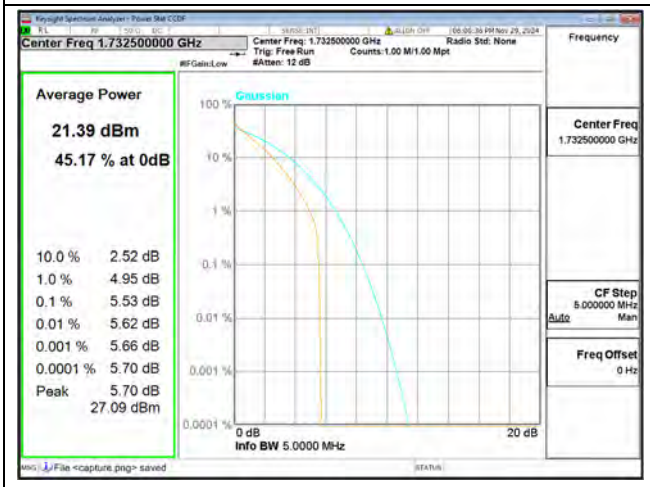

B4 / 1.4MHz / Low CH / 16QAM



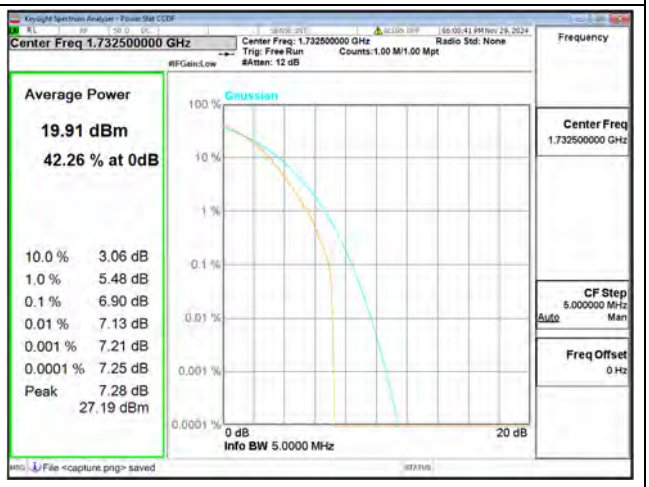

B4 / 1.4MHz / Low CH / 64QAM



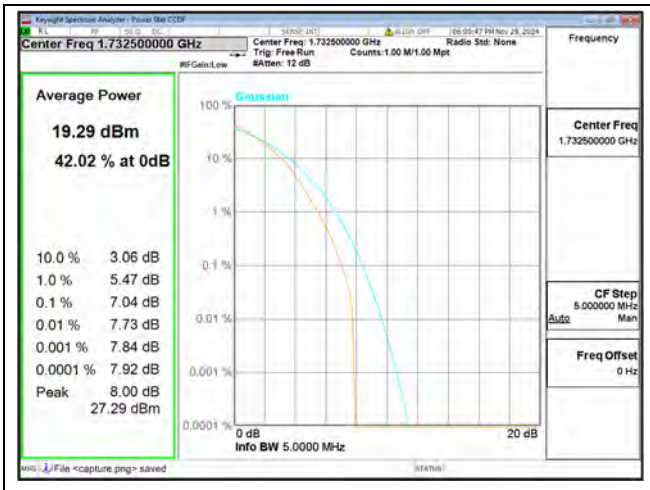

B4 / 1.4MHz / Low CH / 256QAM



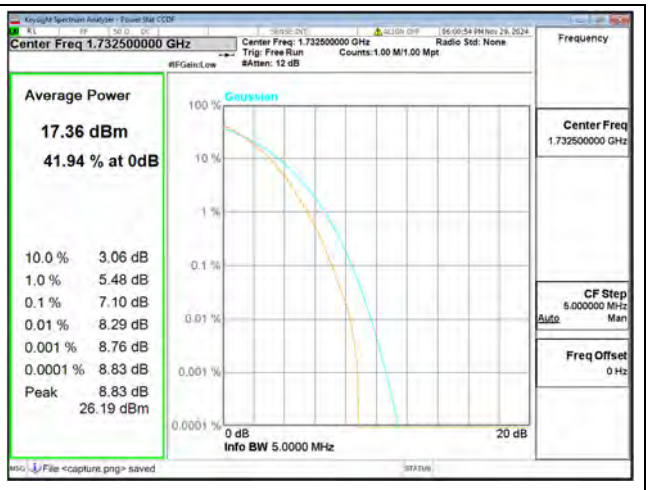

B4 / 1.4MHz / Mid CH / QPSK



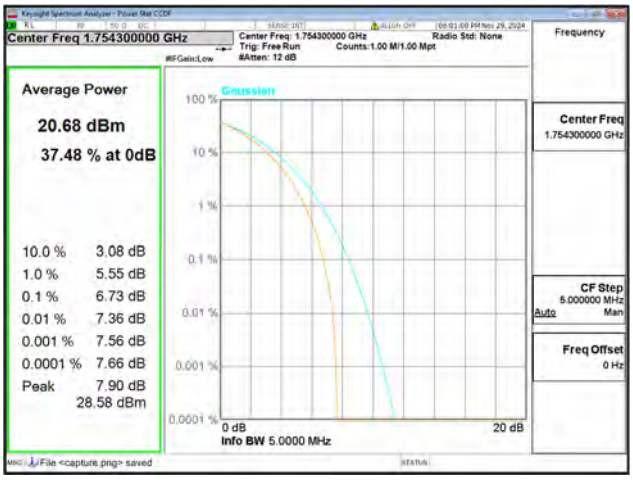

B4 / 1.4MHz / Mid CH / 16QAM



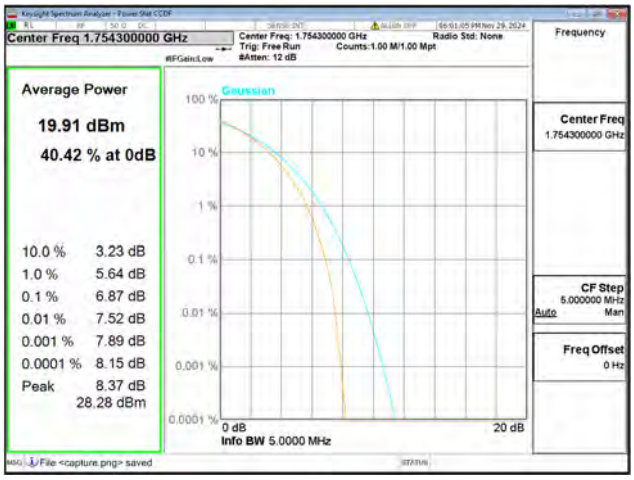

B4 / 1.4MHz / Mid CH / 64QAM



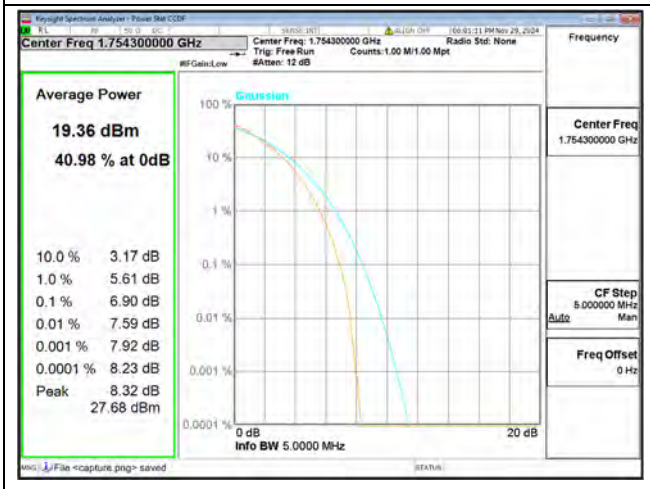

B4 / 1.4MHz / Mid CH / 256QAM



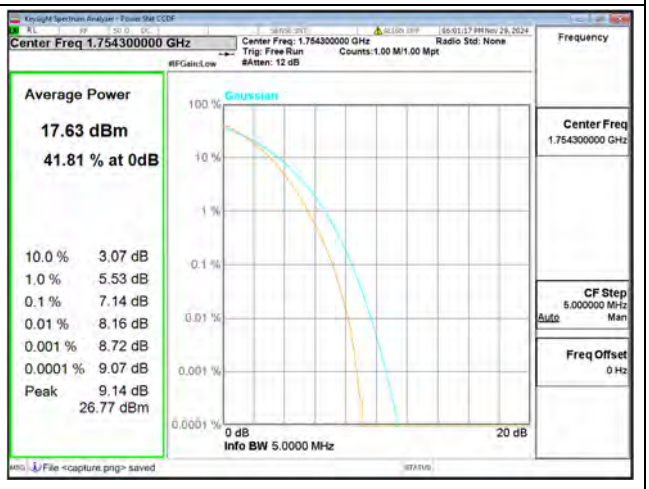

B4 / 1.4MHz / High CH / QPSK



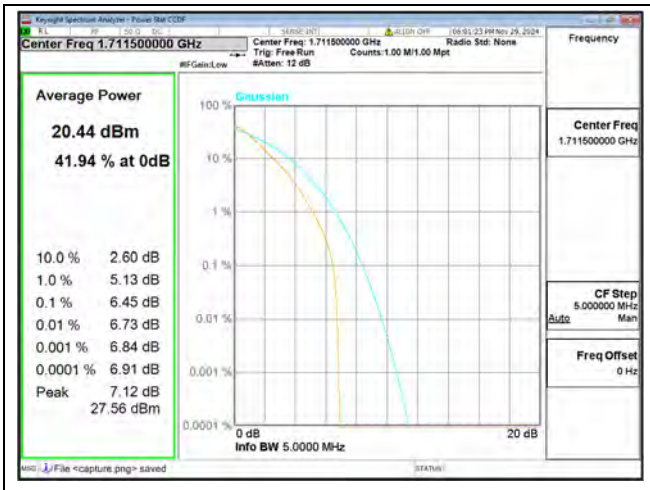

B4 / 1.4MHz / High CH / 16QAM



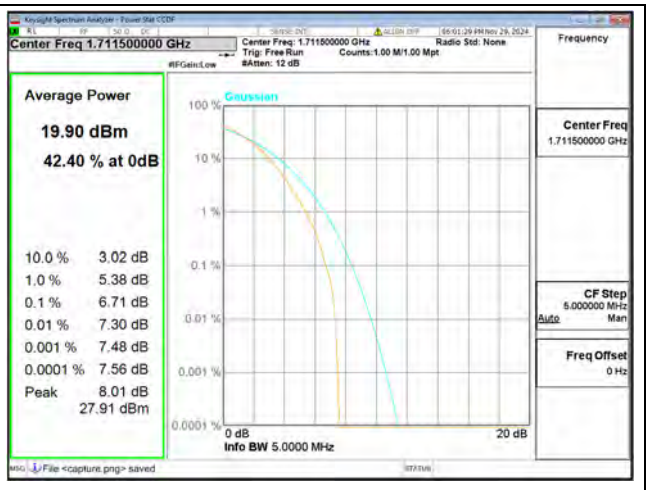

B4 / 1.4MHz / High CH / 64QAM



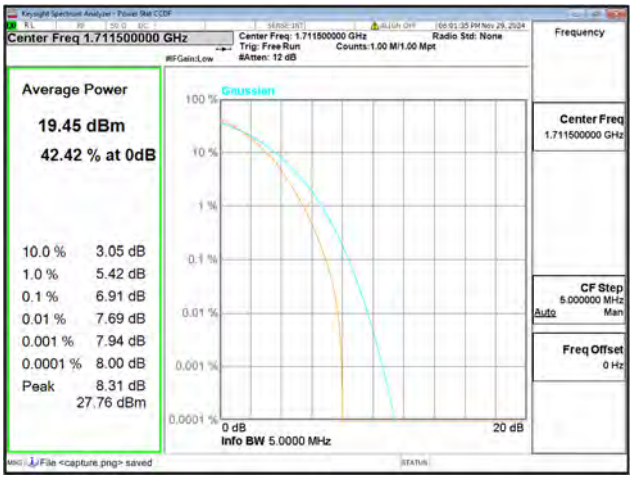

B4 / 1.4MHz / High CH / 256QAM



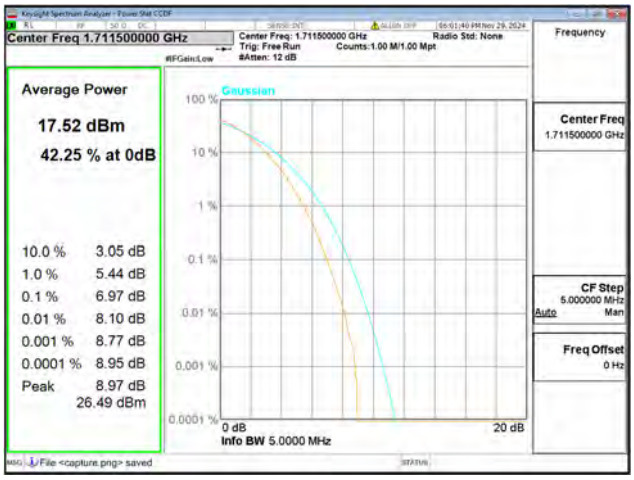

B4 / 3MHz / Low CH / QPSK



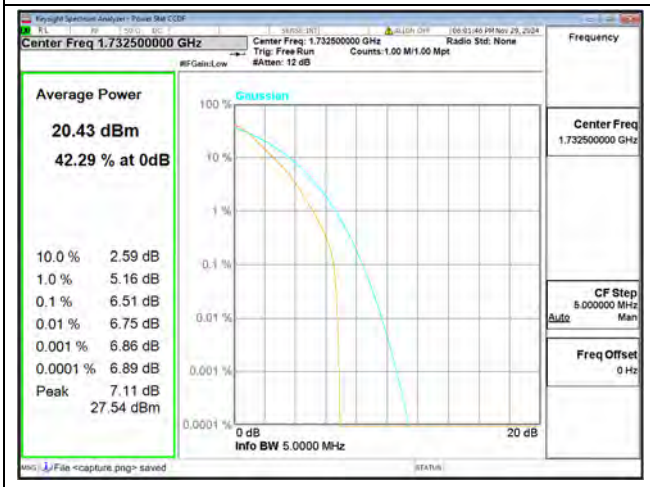

B4 / 3MHz / Low CH / 16QAM



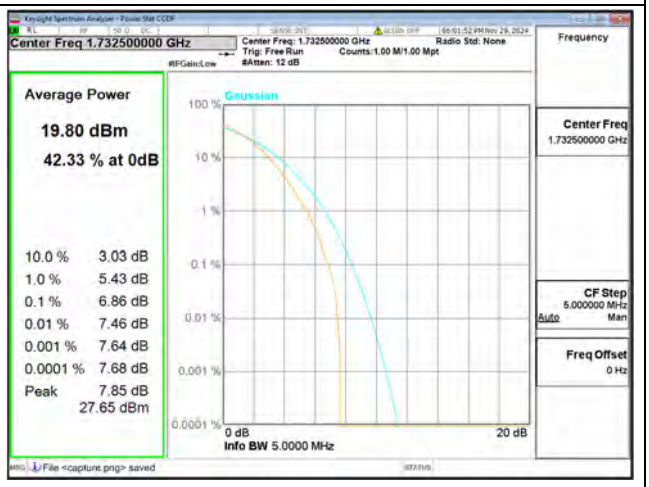

B4 / 3MHz / Low CH / 64QAM



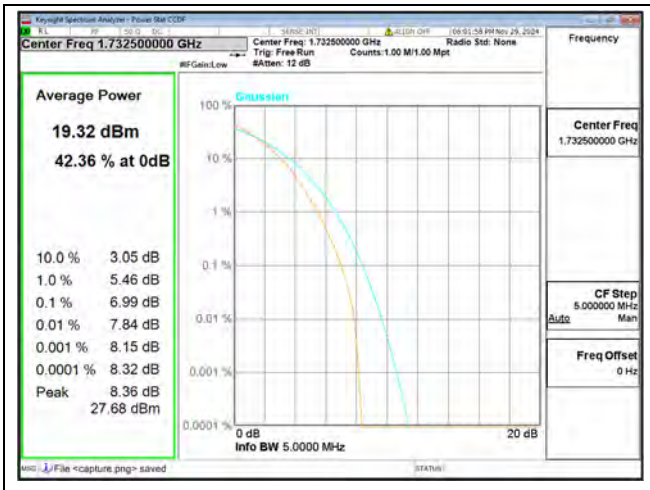

B4 / 3MHz / Low CH / 256QAM



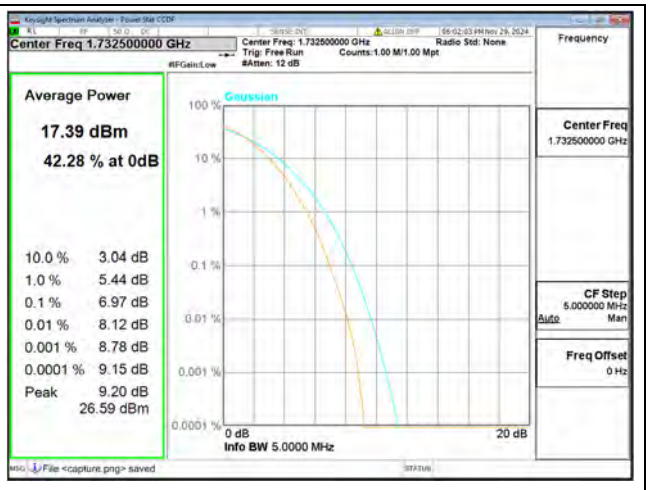

B4 / 3MHz / Mid CH / QPSK



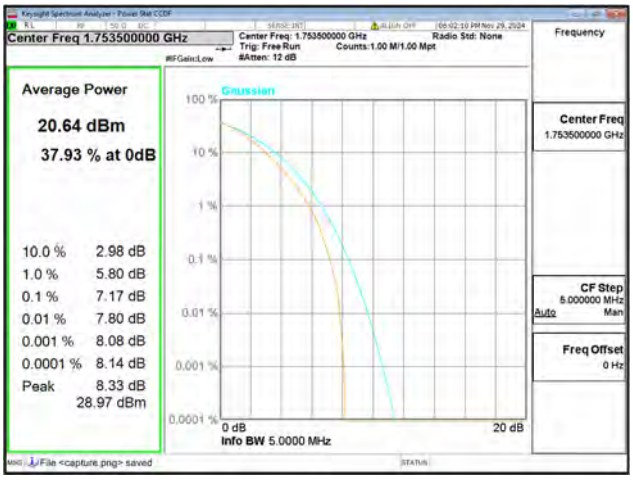

B4 / 3MHz / Mid CH / 16QAM



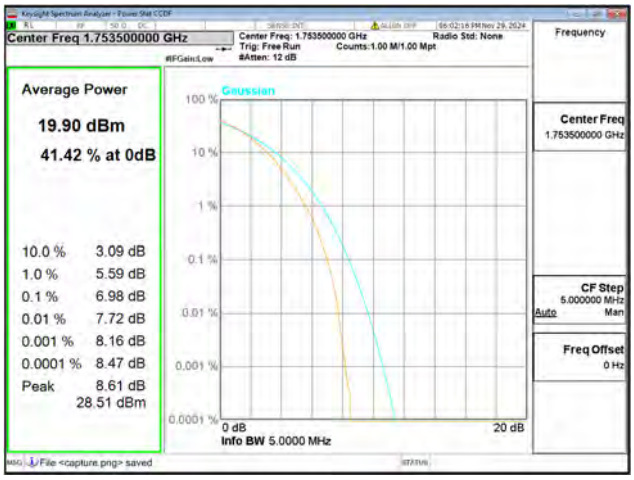

B4 / 3MHz / Mid CH / 64QAM



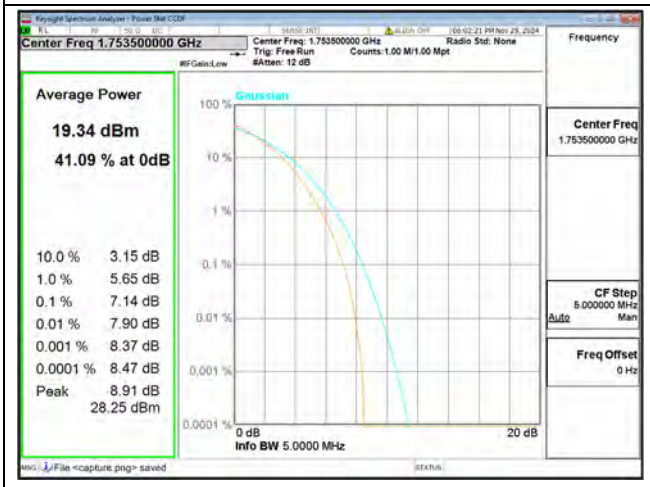

B4 / 3MHz / Mid CH / 256QAM



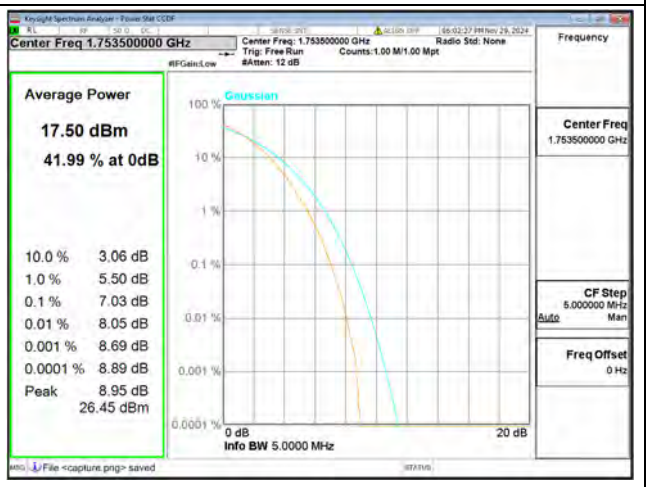

B4 / 3MHz / High CH / QPSK



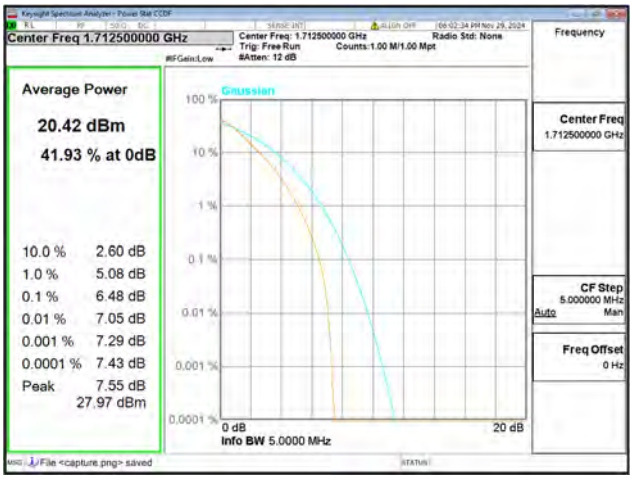

B4 / 3MHz / High CH / 16QAM



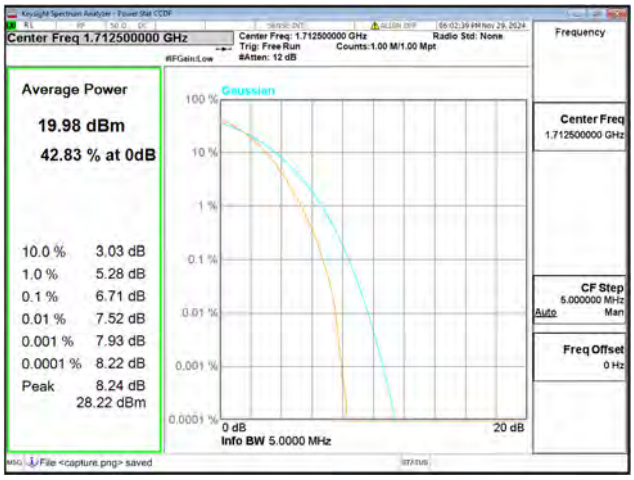

B4 / 3MHz / High CH / 64QAM



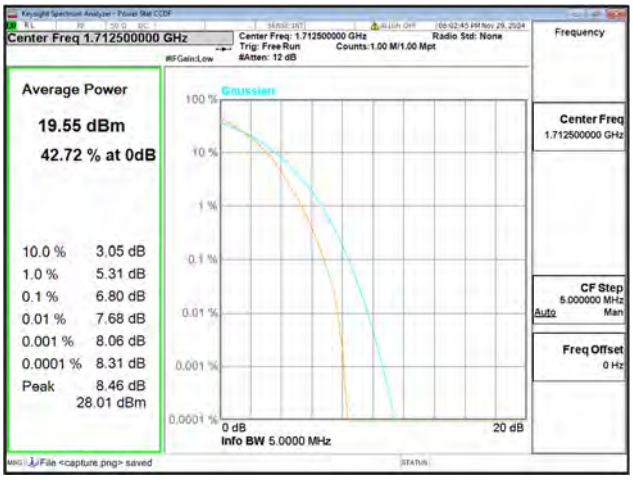

B4 / 3MHz / High CH / 256QAM



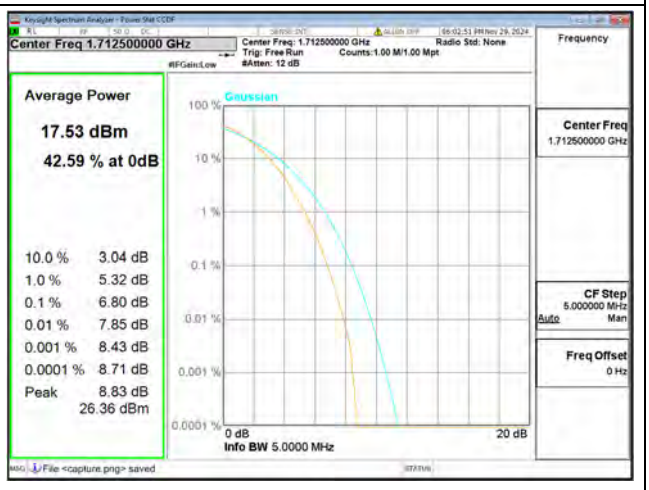

B4 / 5MHz / Low CH / QPSK



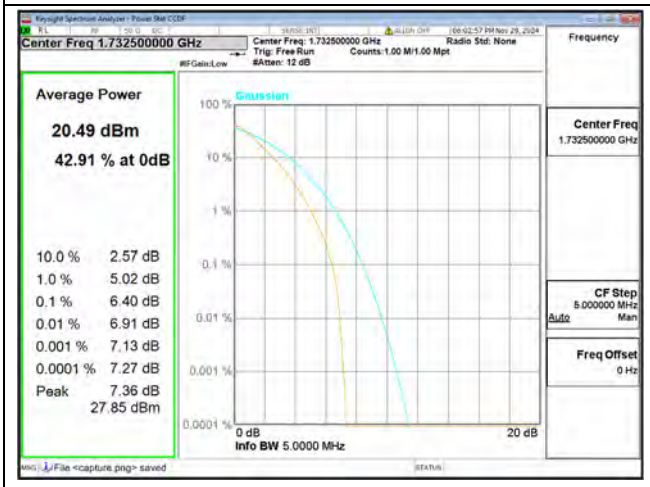

B4 / 5MHz / Low CH / 16QAM



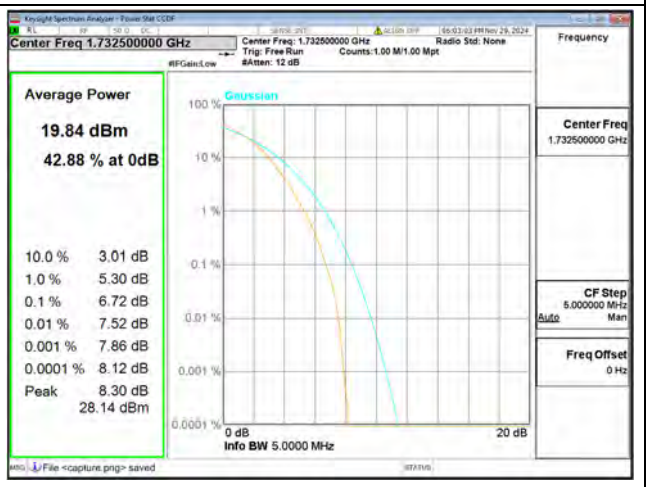

B4 / 5MHz / Low CH / 64QAM



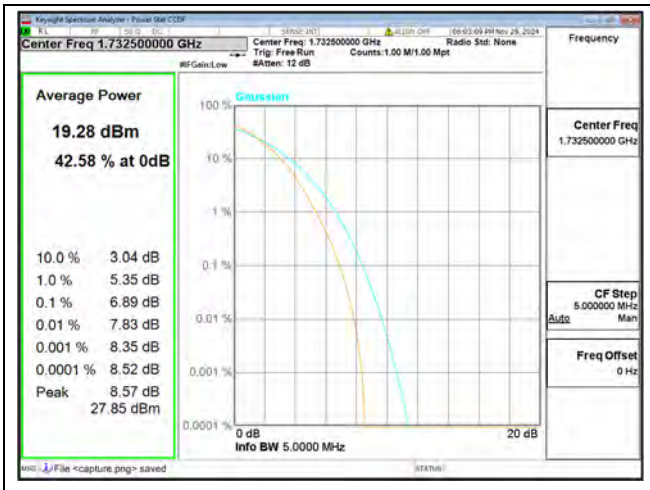

B4 / 5MHz / Low CH / 256QAM



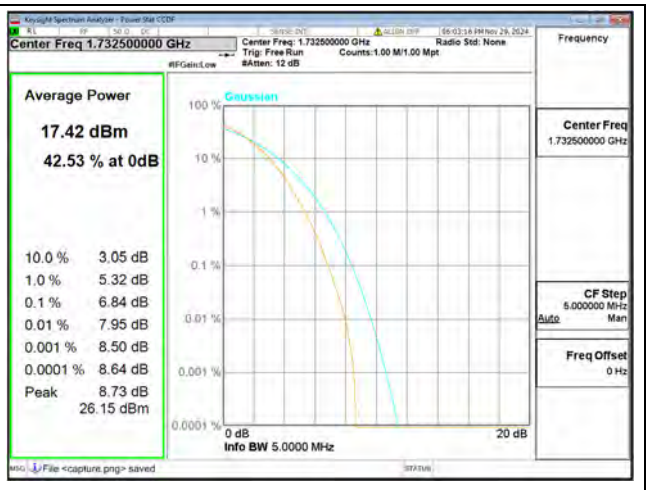

B4 / 5MHz / Mid CH / QPSK



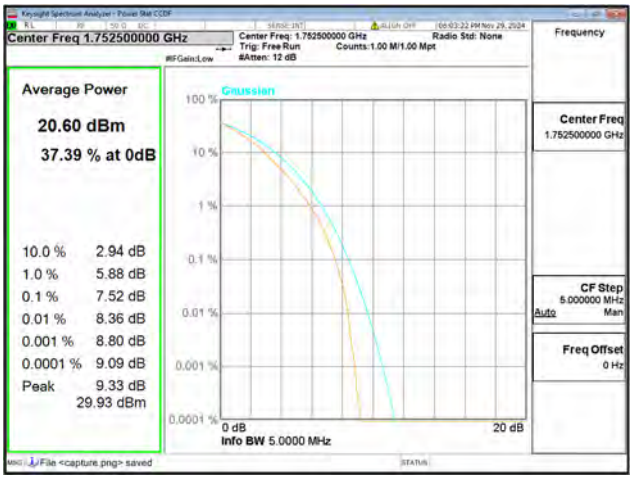

B4 / 5MHz / Mid CH / 16QAM



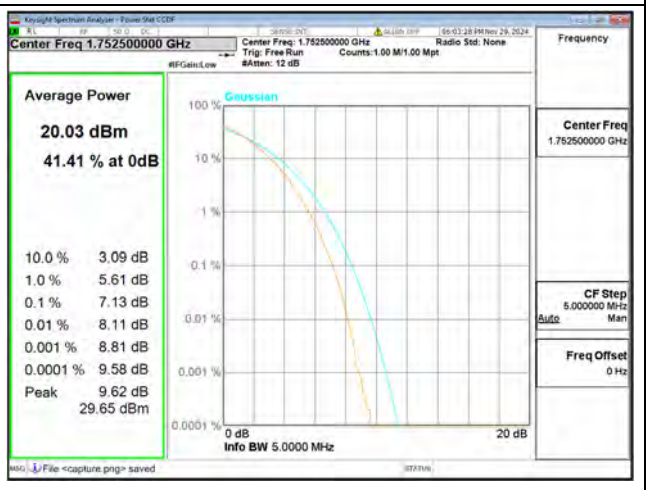

B4 / 5MHz / Mid CH / 64QAM



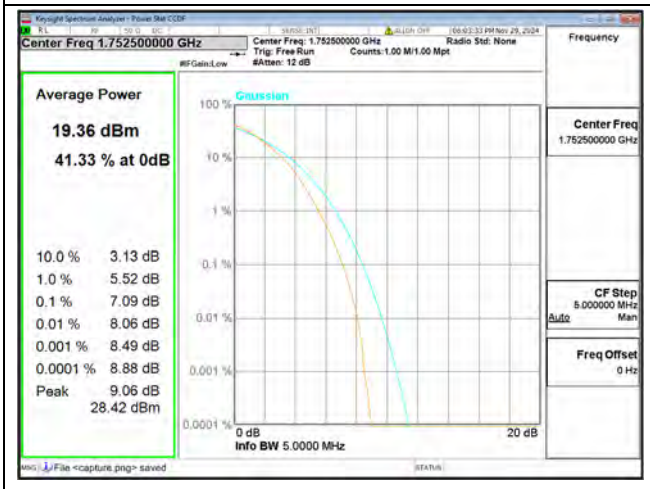

B4 / 5MHz / Mid CH / 256QAM



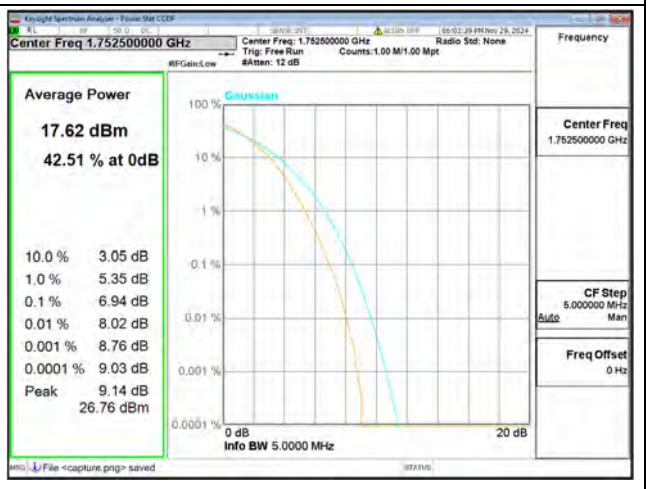

B4 / 5MHz / High CH / QPSK



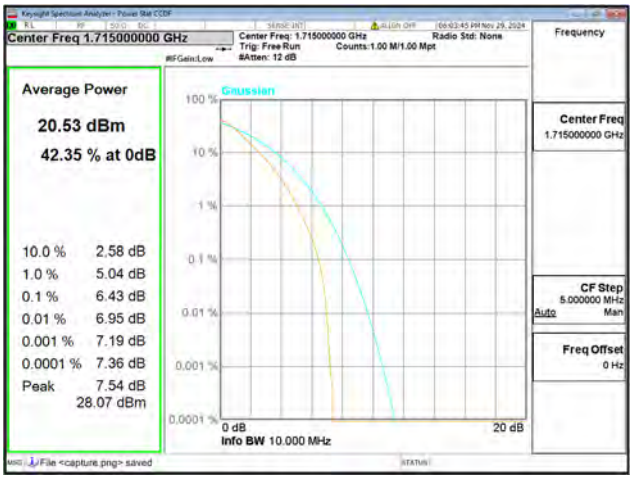

B4 / 5MHz / High CH / 16QAM



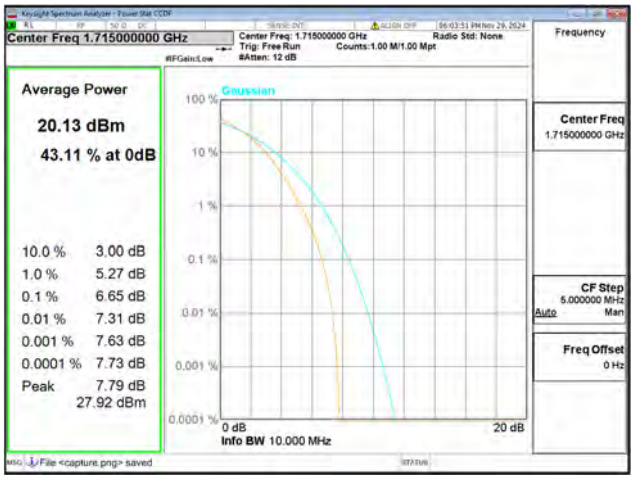

B4 / 5MHz / High CH / 64QAM



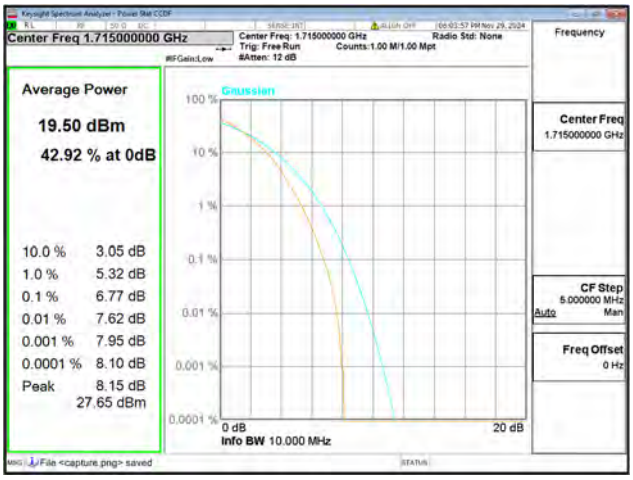

B4 / 5MHz / High CH / 256QAM



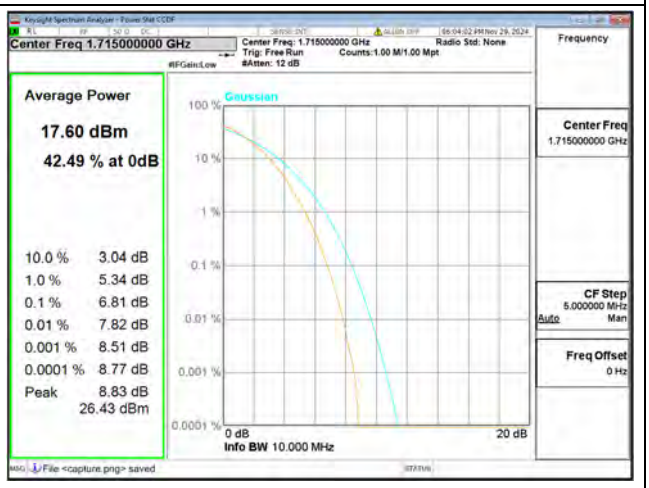

B4 / 10MHz / Low CH / QPSK



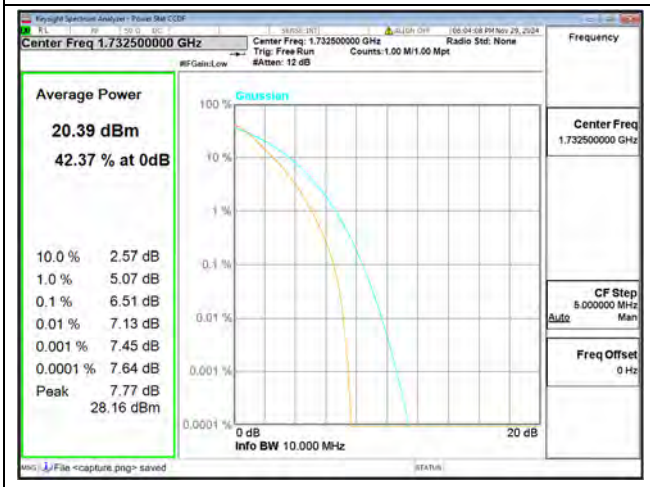

B4 / 10MHz / Low CH / 16QAM



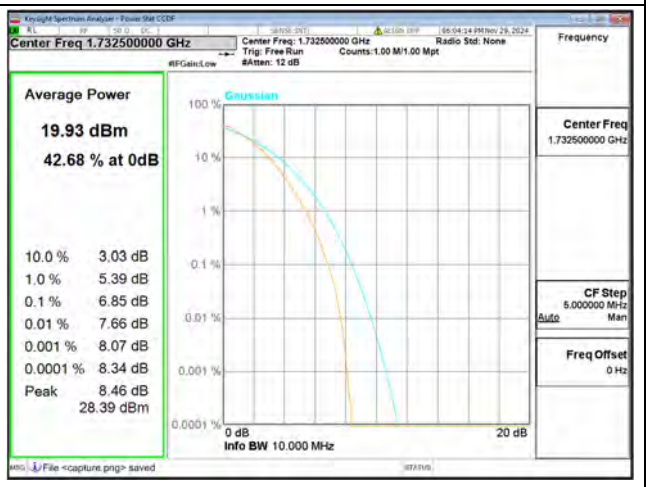

B4 / 10MHz / Low CH / 64QAM



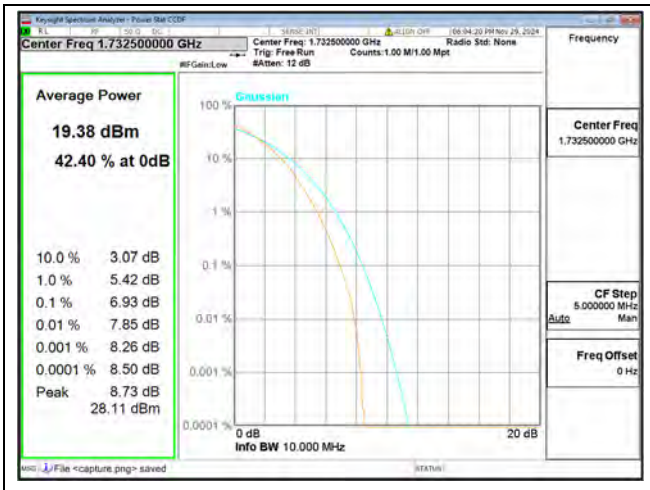

B4 / 10MHz / Low CH / 256QAM



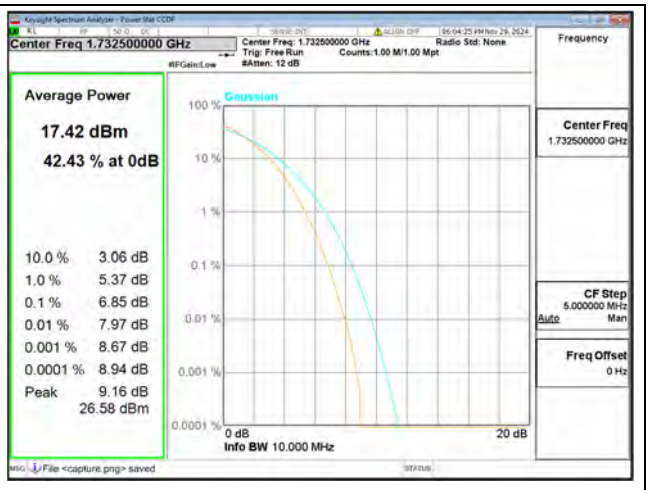

B4 / 10MHz / Mid CH / QPSK



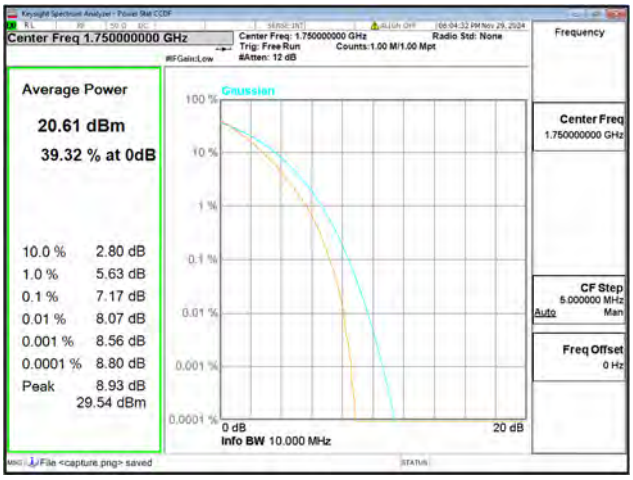

B4 / 10MHz / Mid CH / 16QAM



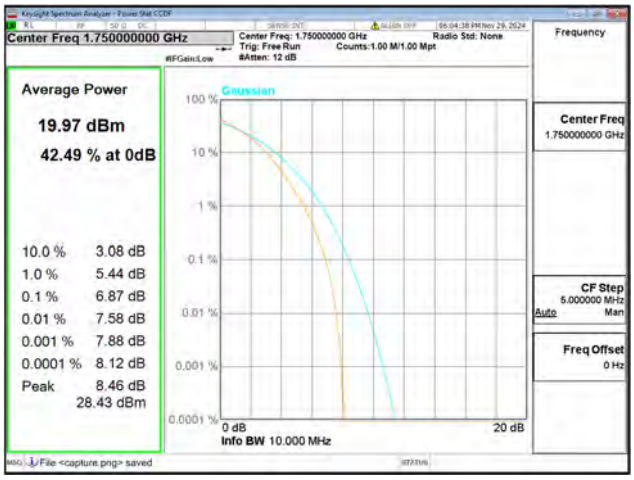

B4 / 10MHz / Mid CH / 64QAM



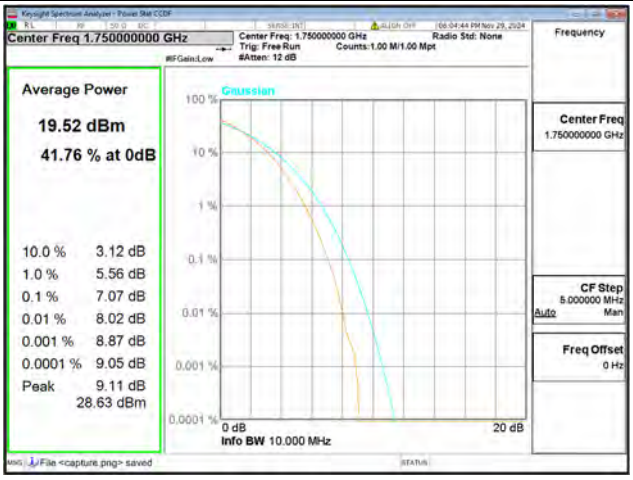

B4 / 10MHz / Mid CH / 256QAM



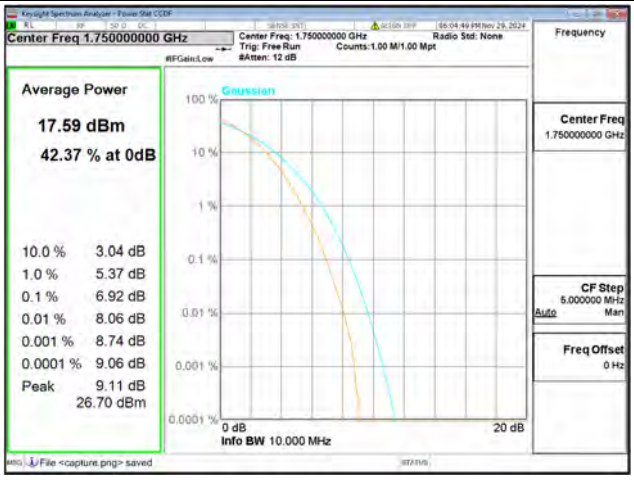

B4 / 10MHz / High CH / QPSK



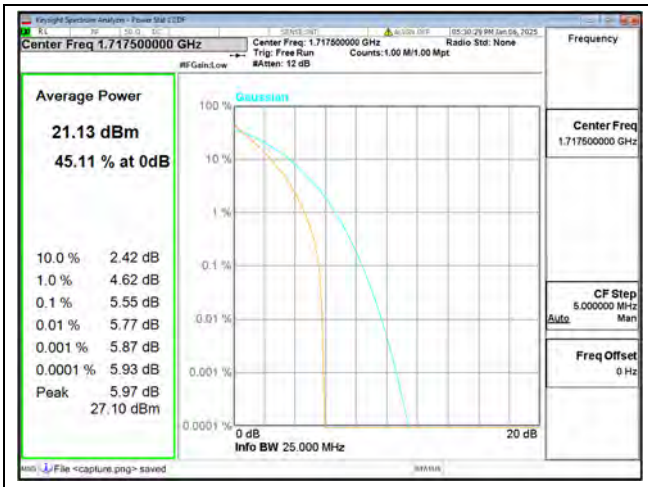

B4 / 10MHz / High CH / 16QAM



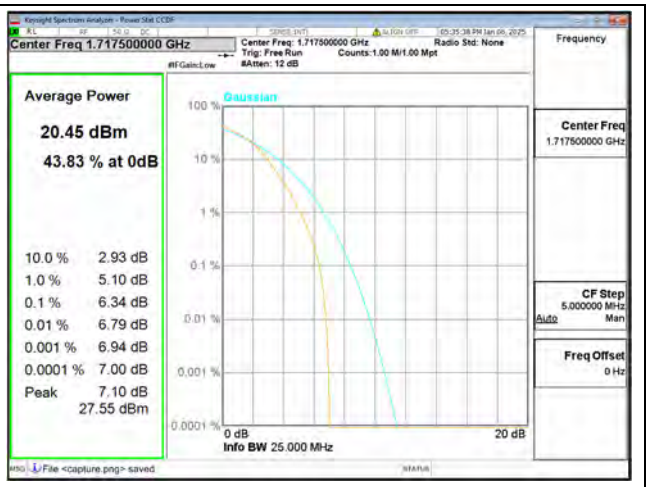

B4 / 10MHz / High CH / 64QAM



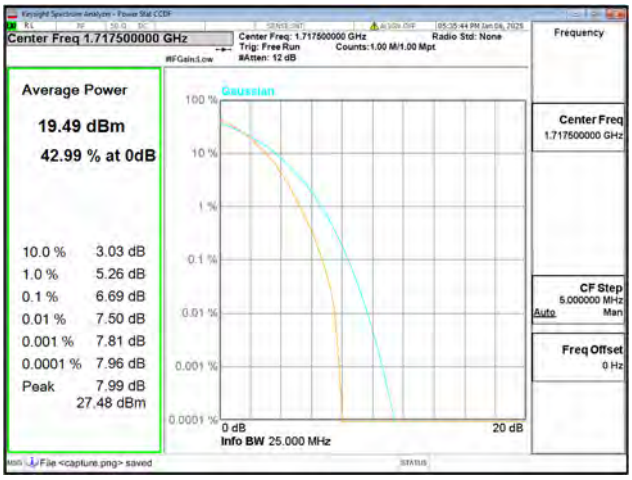

B4 / 10MHz / High CH / 256QAM



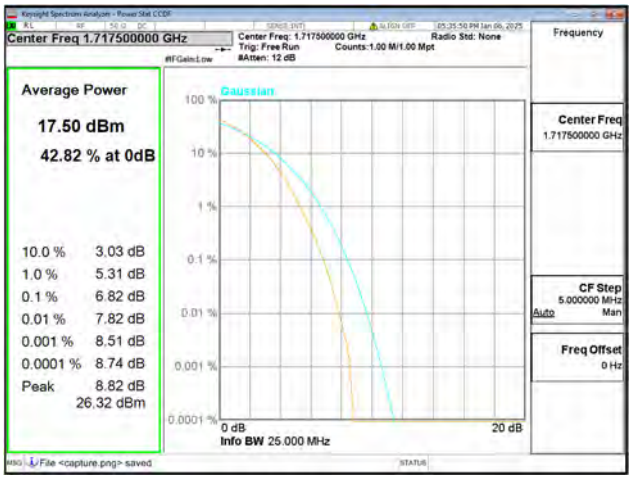

B4 / 15MHz / Low CH / QPSK



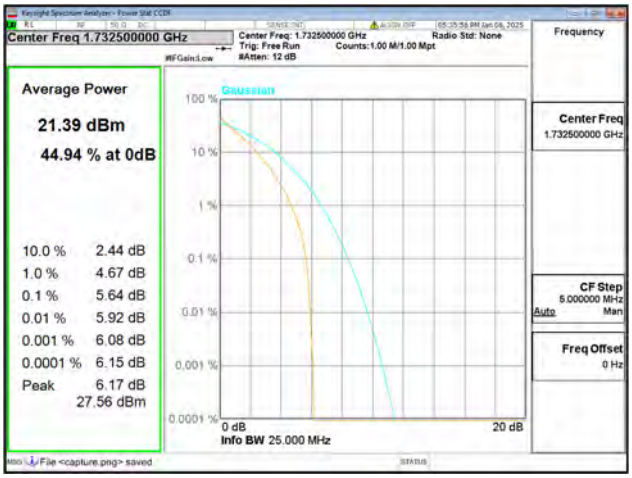

B4 / 15MHz / Low CH / 16QAM



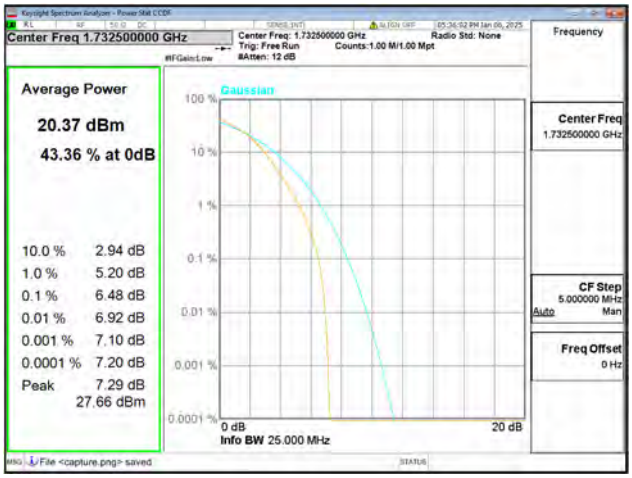

B4 / 15MHz / Low CH / 64QAM



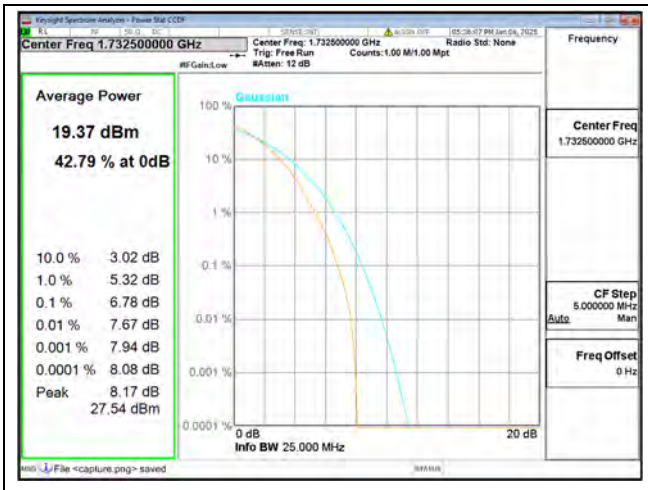

B4 / 15MHz / Low CH / 256QAM



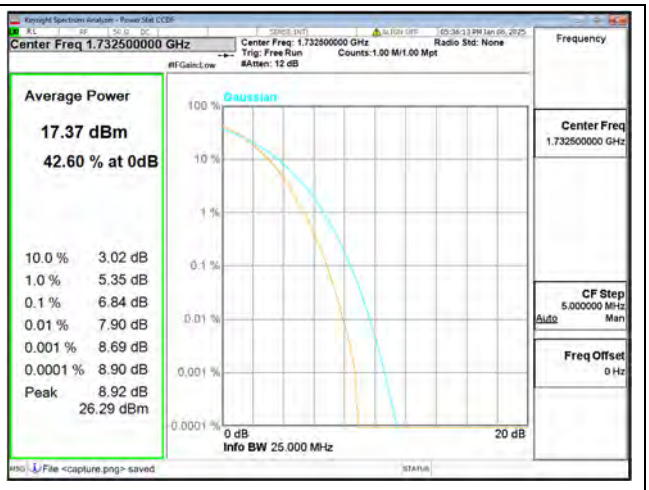

B4 / 15MHz / Mid CH / QPSK



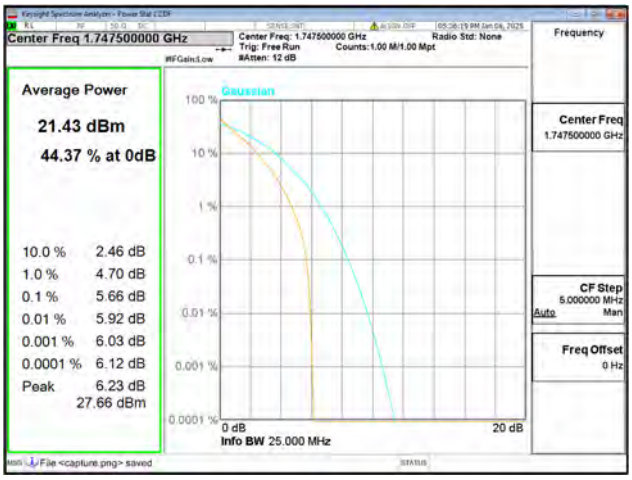

B4 / 15MHz / Mid CH / 16QAM



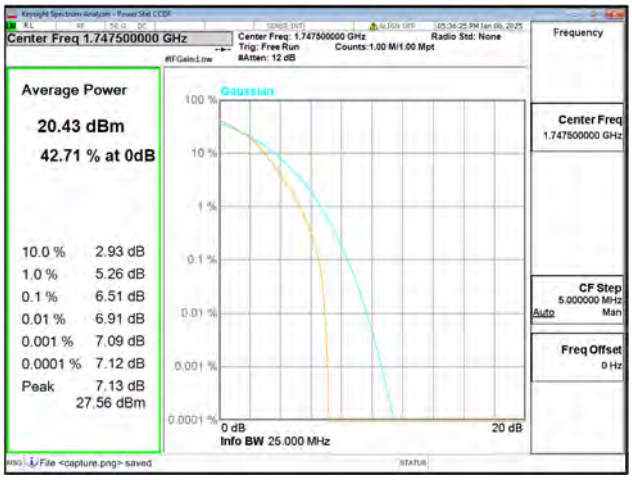

B4 / 15MHz / Mid CH / 64QAM



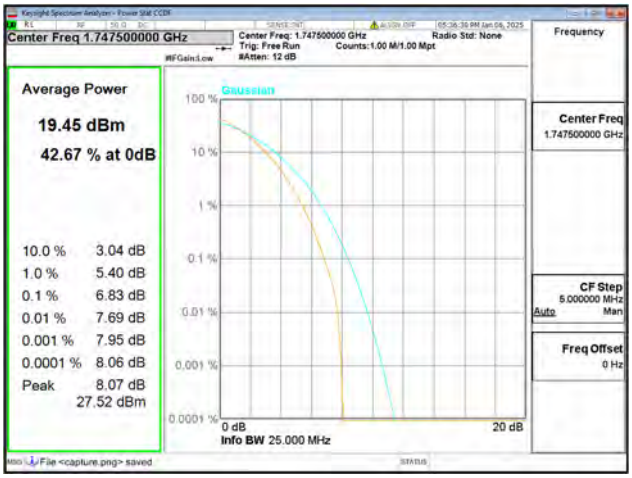

B4 / 15MHz / Mid CH / 256QAM



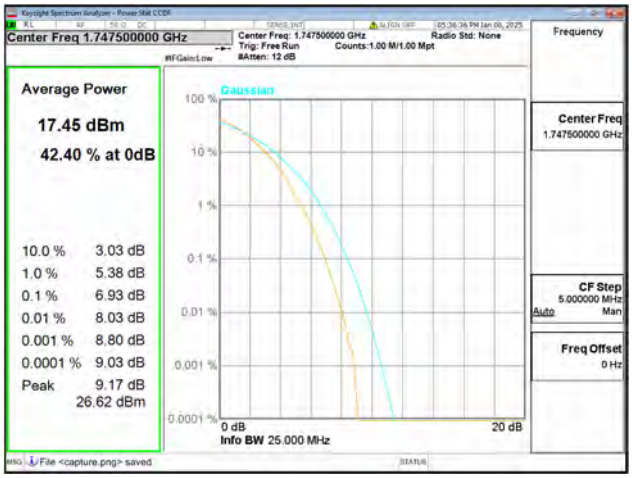

B4 / 15MHz / High CH / QPSK



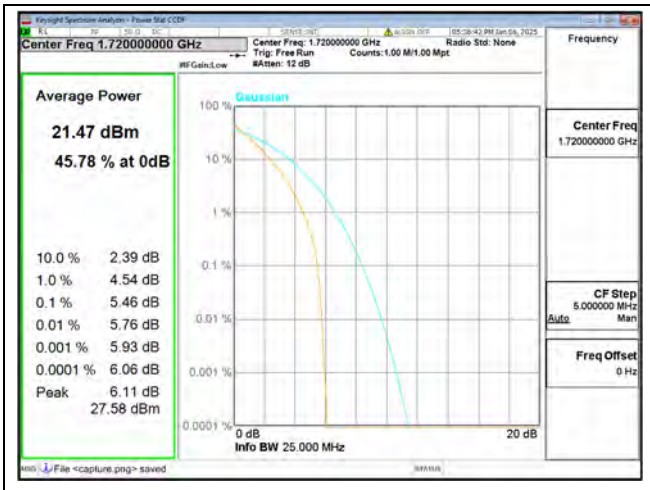

B4 / 15MHz / High CH / 16QAM



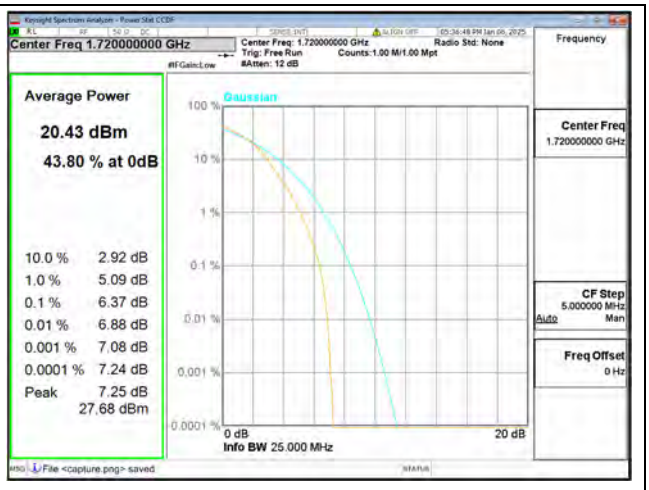

B4 / 15MHz / High CH / 64QAM



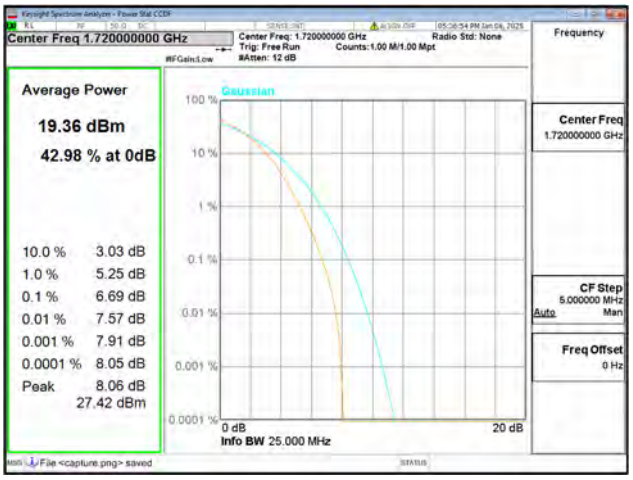

B4 / 15MHz / High CH / 256QAM



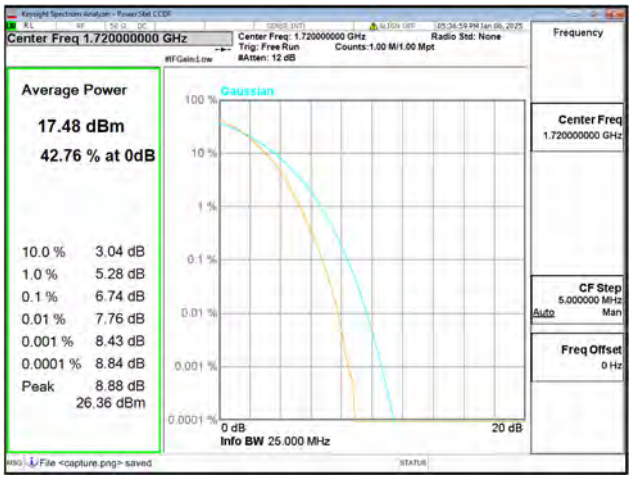

B4 / 20MHz / Low CH / QPSK



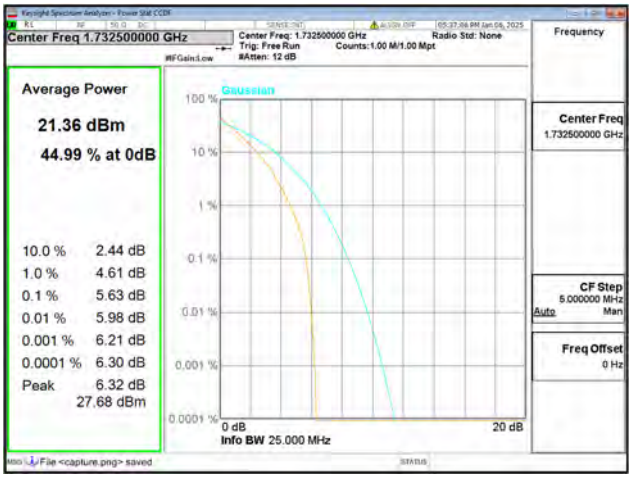

B4 / 20MHz / Low CH / 16QAM



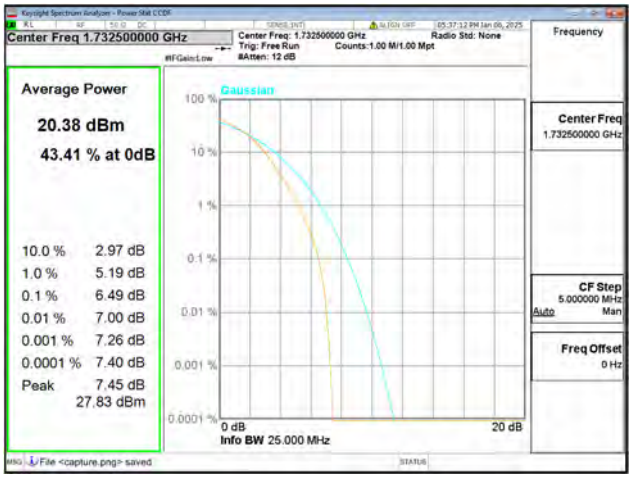

B4 / 20MHz / Low CH / 64QAM



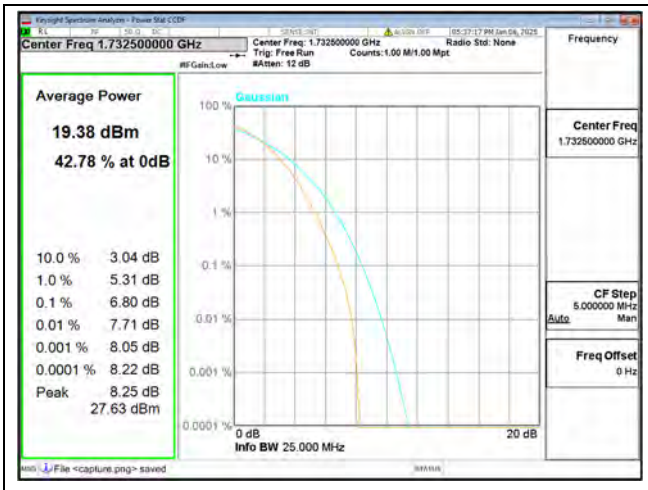

B4 / 20MHz / Low CH / 256QAM



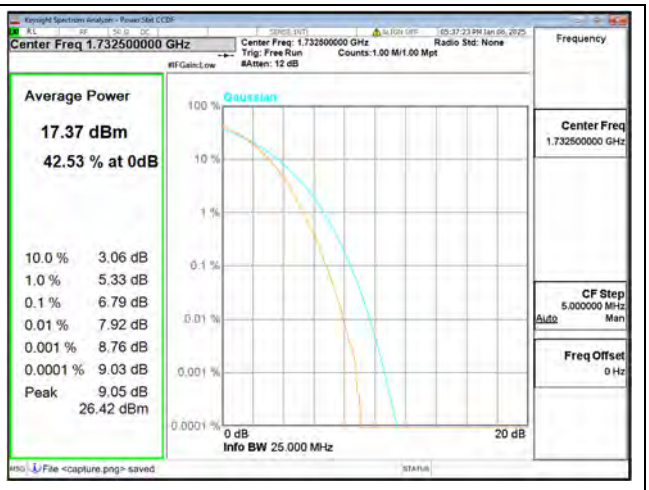

B4 / 20MHz / Mid CH / QPSK



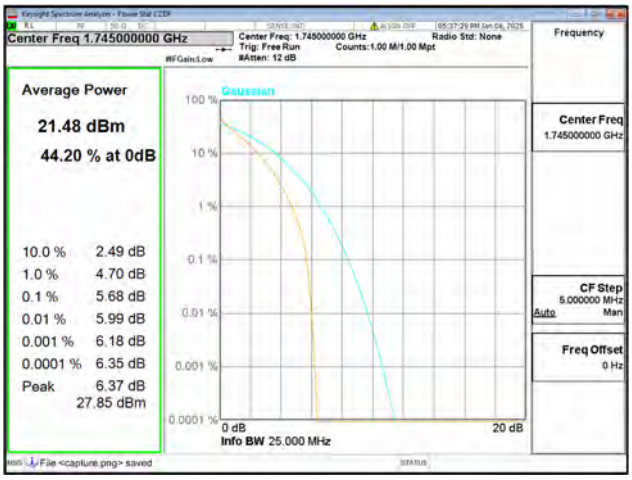

B4 / 20MHz / Mid CH / 16QAM



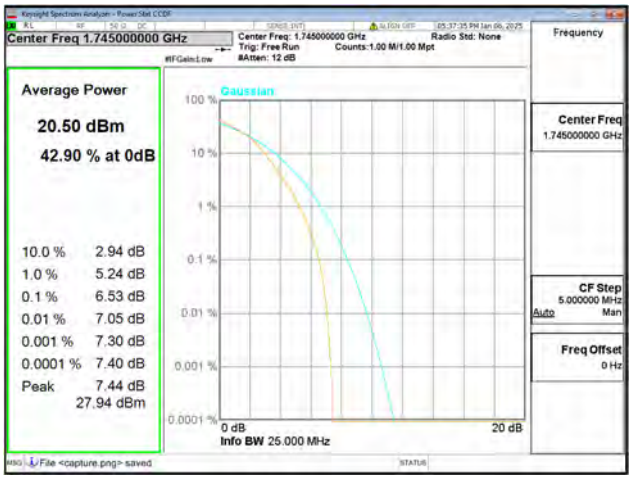

B4 / 20MHz / Mid CH / 64QAM



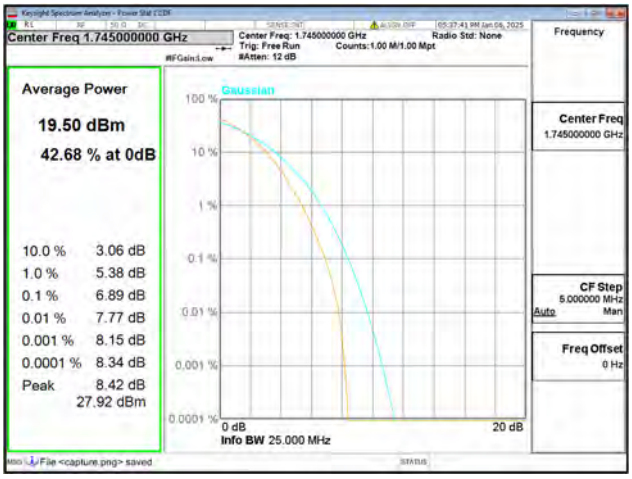

B4 / 20MHz / Mid CH / 256QAM



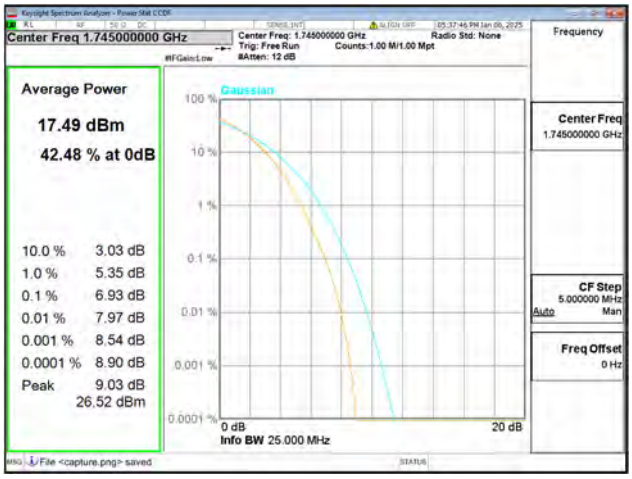

B4 / 20MHz / High CH / QPSK



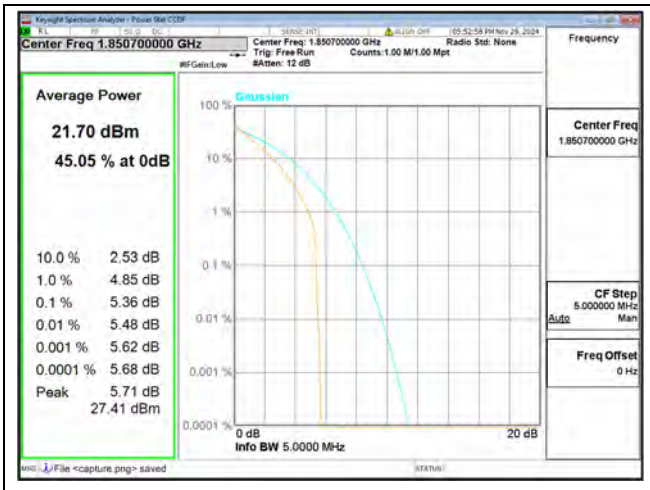

B4 / 20MHz / High CH / 16QAM



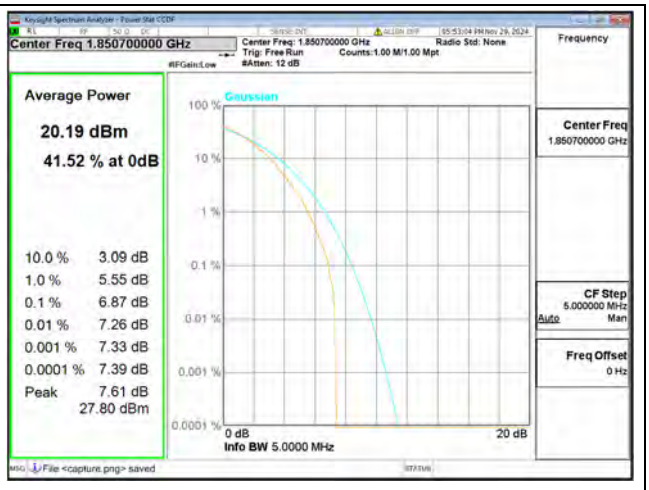

B4 / 20MHz / High CH / 64QAM



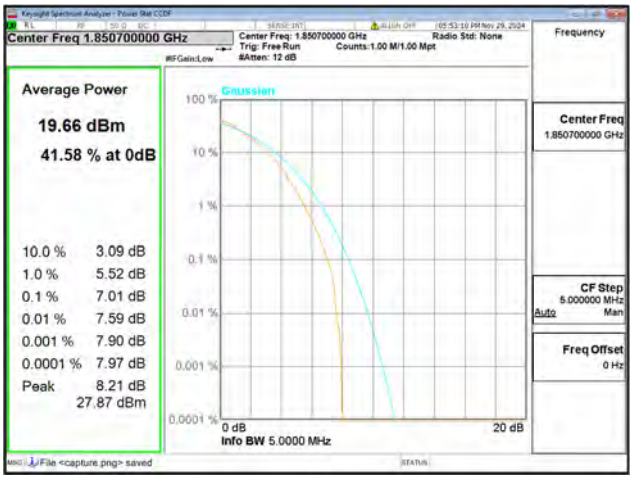

B4 / 20MHz / High CH / 256QAM



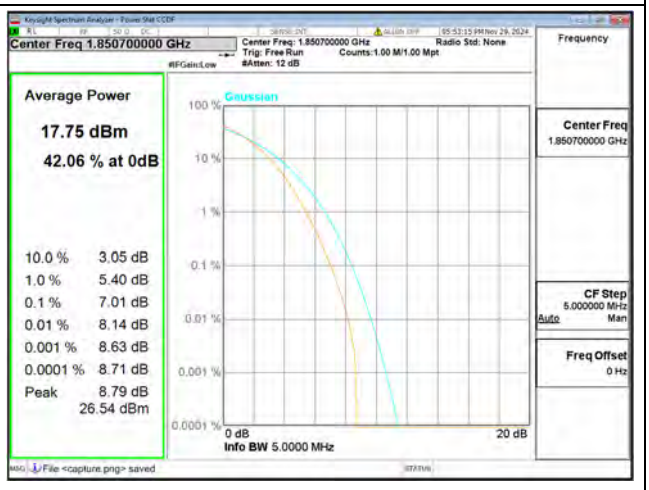

B25 / 1.4MHz / Low CH / QPSK



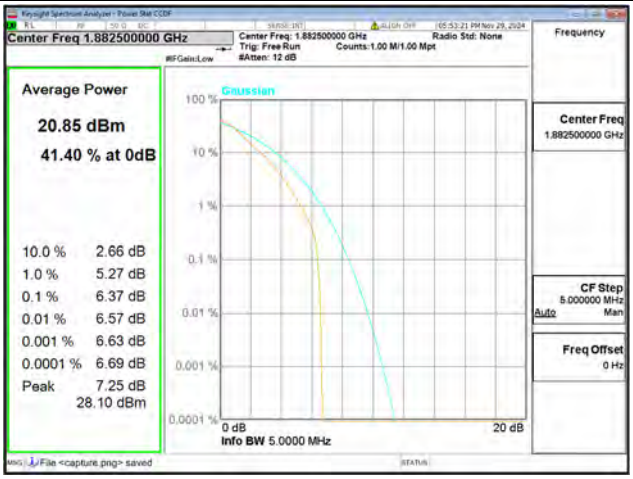

B25 / 1.4MHz / Low CH / 16QAM



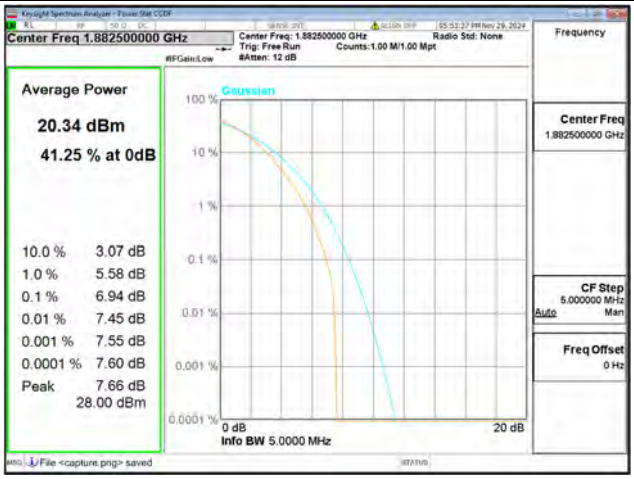

B25 / 1.4MHz / Low CH / 64QAM



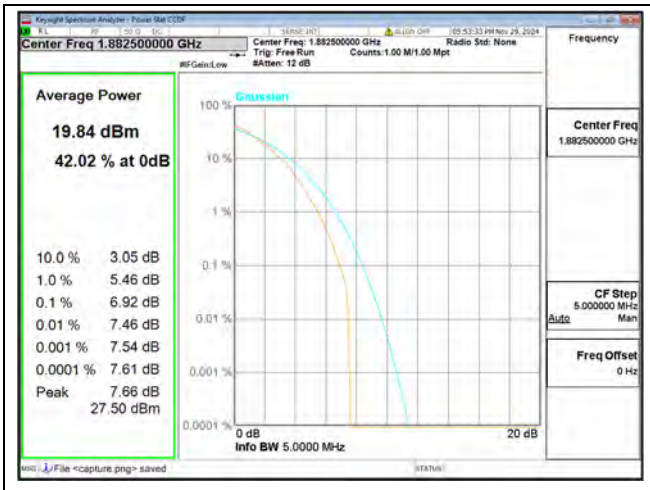

B25 / 1.4MHz / Low CH / 256QAM



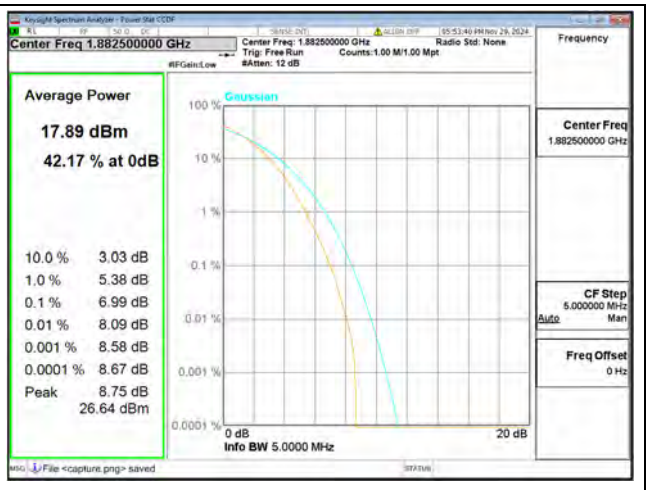

B25 / 1.4MHz / Mid CH / QPSK



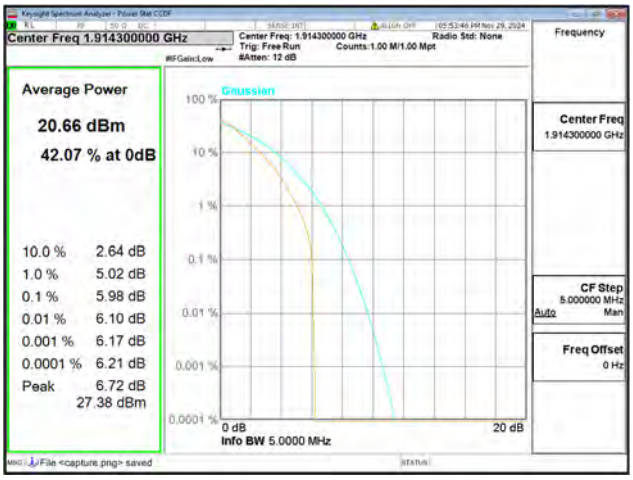

B25 / 1.4MHz / Mid CH / 16QAM



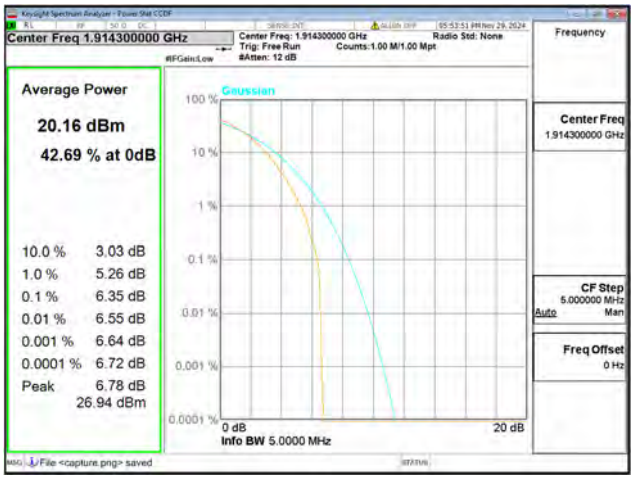

B25 / 1.4MHz / Mid CH / 64QAM



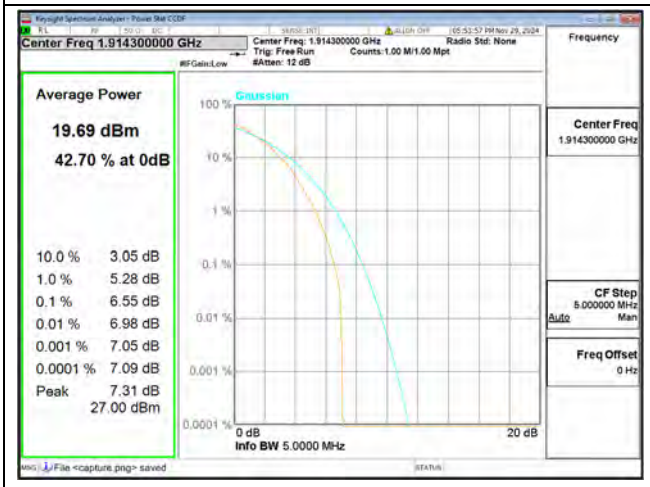

B25 / 1.4MHz / Mid CH / 256QAM



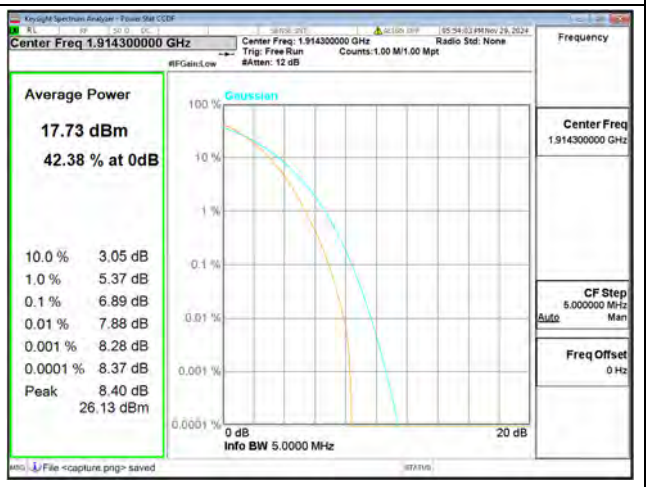

B25 / 1.4MHz / High CH / QPSK



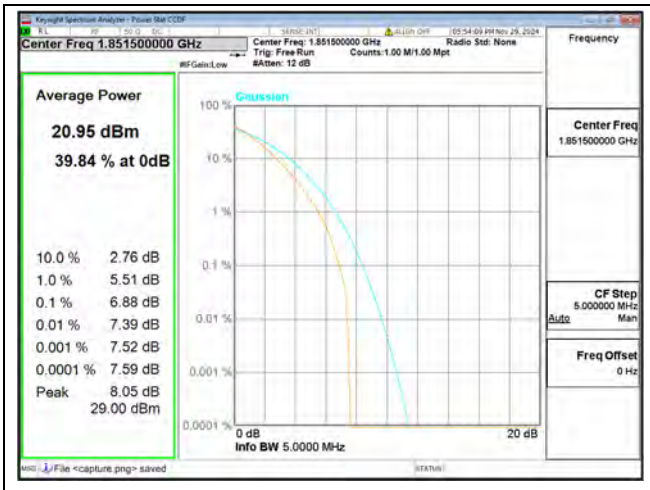

B25 / 1.4MHz / High CH / 16QAM



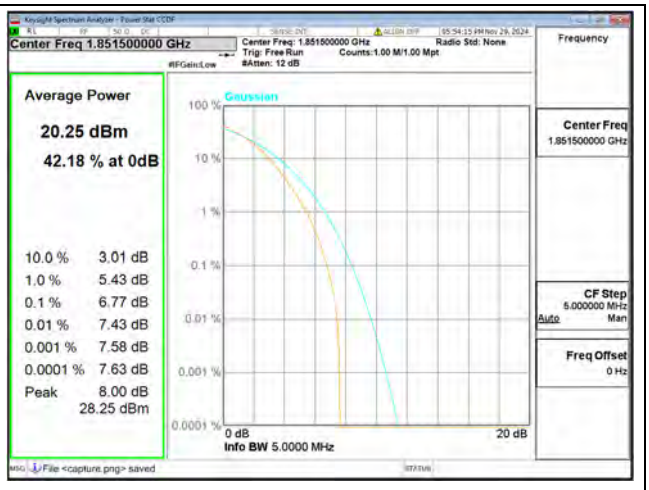

B25 / 1.4MHz / High CH / 64QAM



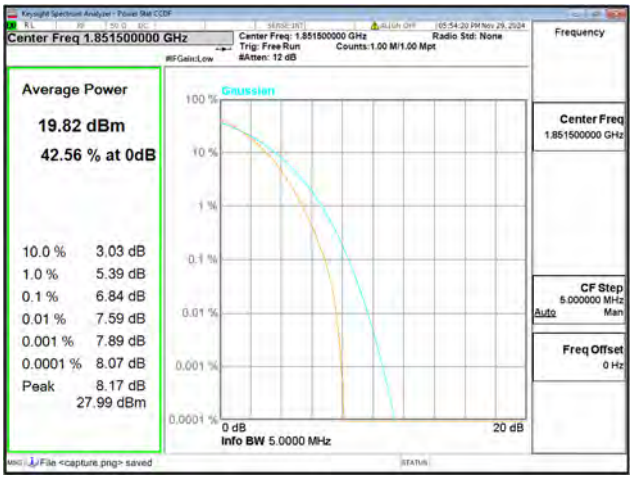

B25 / 1.4MHz / High CH / 256QAM



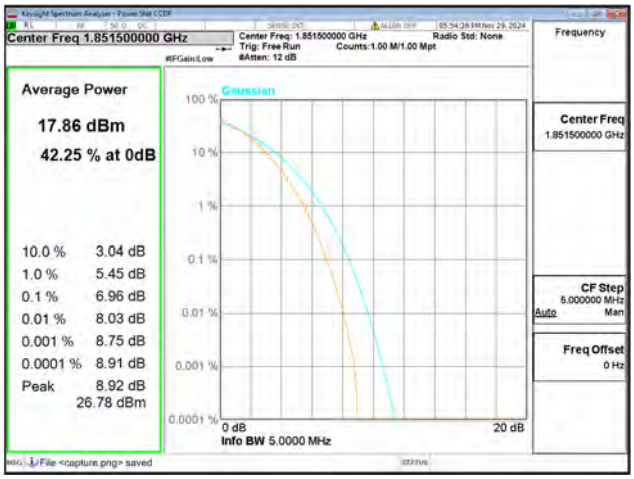

B25 / 3MHz / Low CH / QPSK



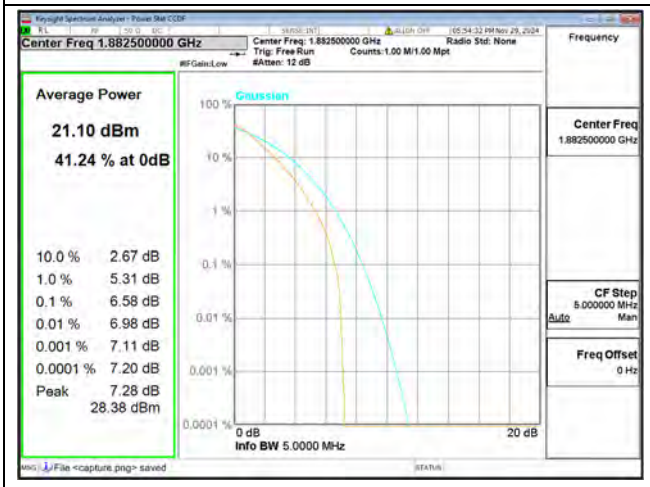

B25 / 3MHz / Low CH / 16QAM



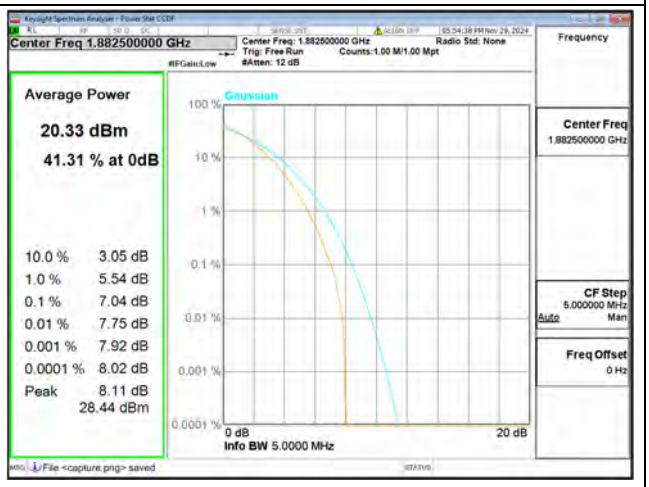

B25 / 3MHz / Low CH / 64QAM



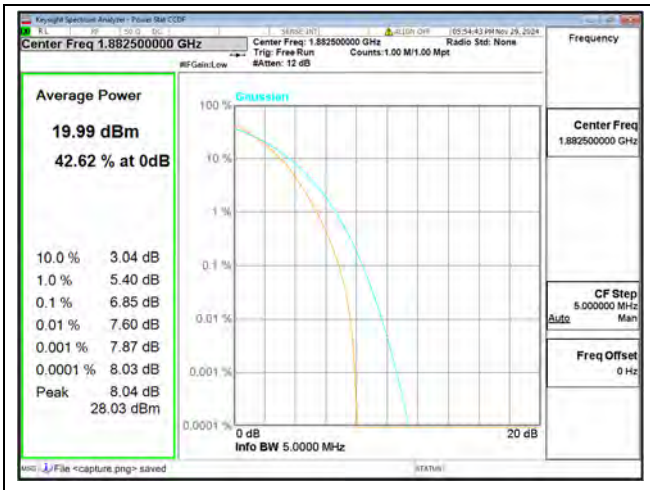

B25 / 3MHz / Low CH / 256QAM



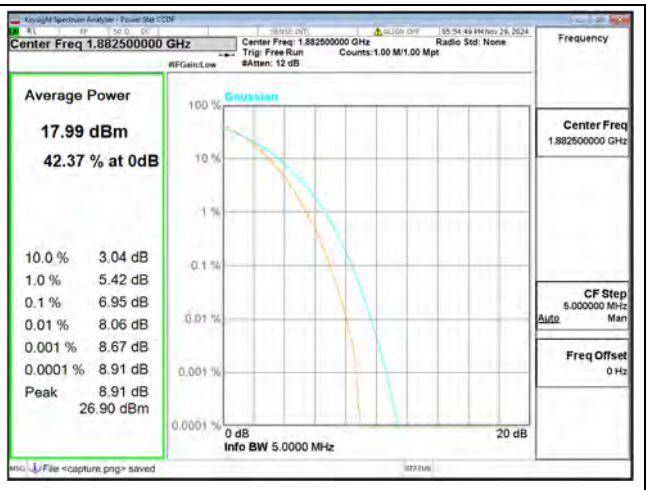

B25 / 3MHz / Mid CH / QPSK



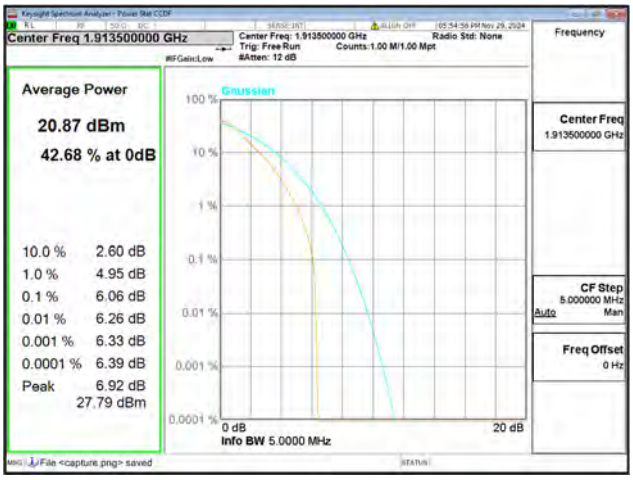

B25 / 3MHz / Mid CH / 16QAM



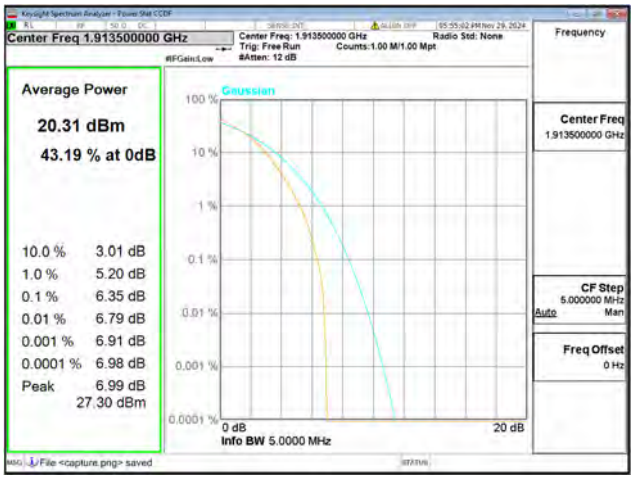

B25 / 3MHz / Mid CH / 64QAM



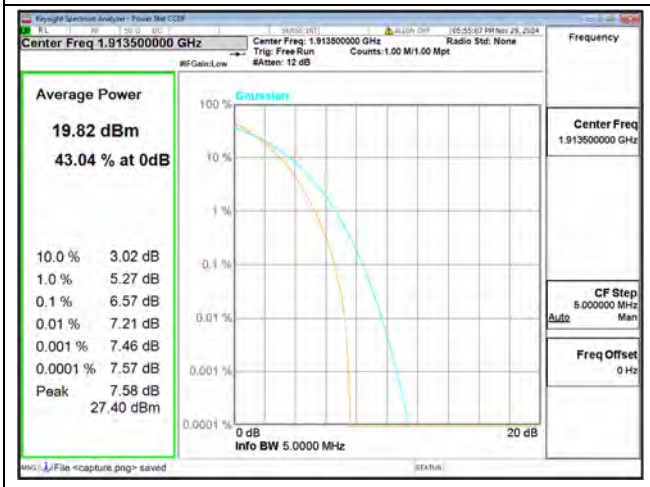

B25 / 3MHz / Mid CH / 256QAM



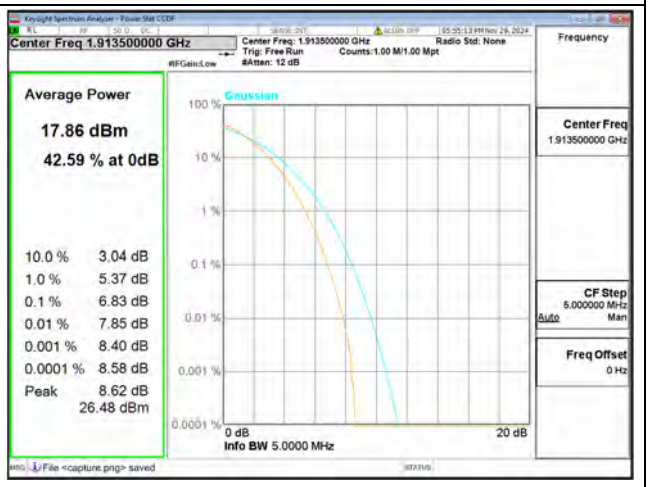

B25 / 3MHz / High CH / QPSK



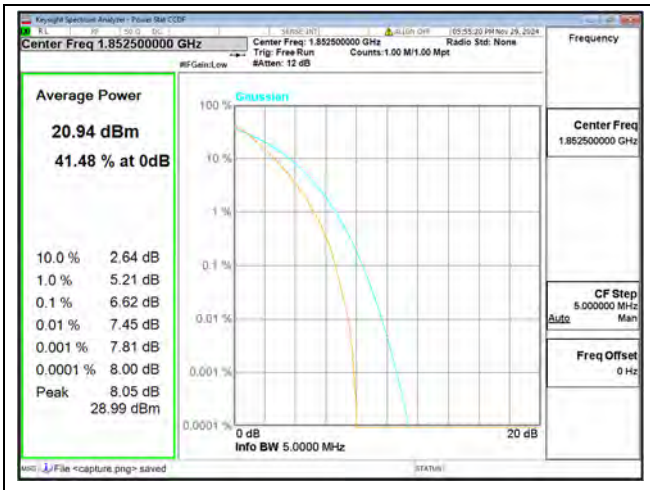

B25 / 3MHz / High CH / 16QAM



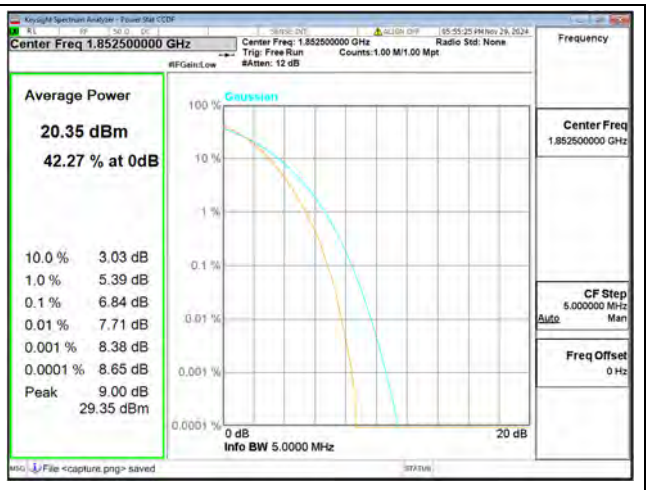

B25 / 3MHz / High CH / 64QAM



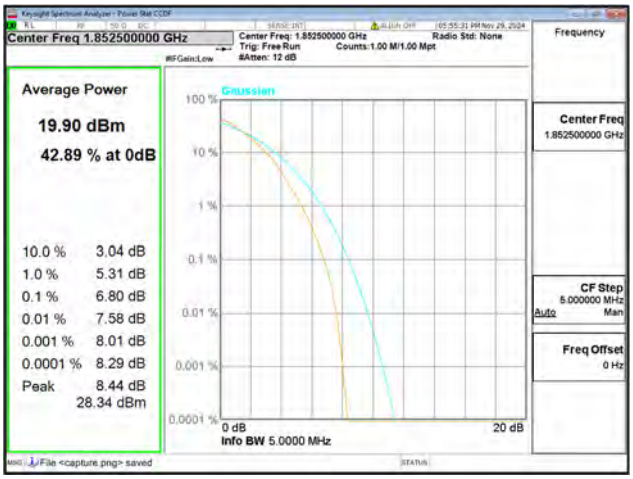

B25 / 3MHz / High CH / 256QAM



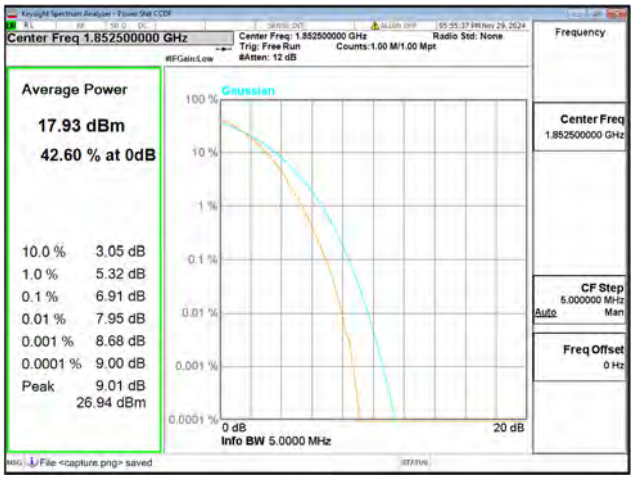

B25 / 5MHz / Low CH / QPSK



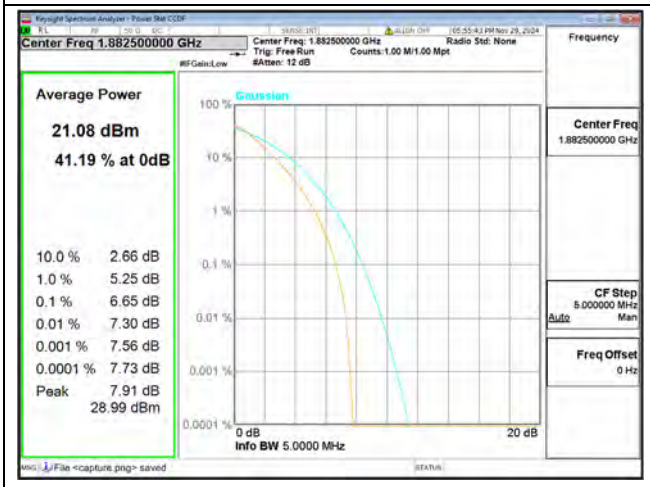

B25 / 5MHz / Low CH / 16QAM



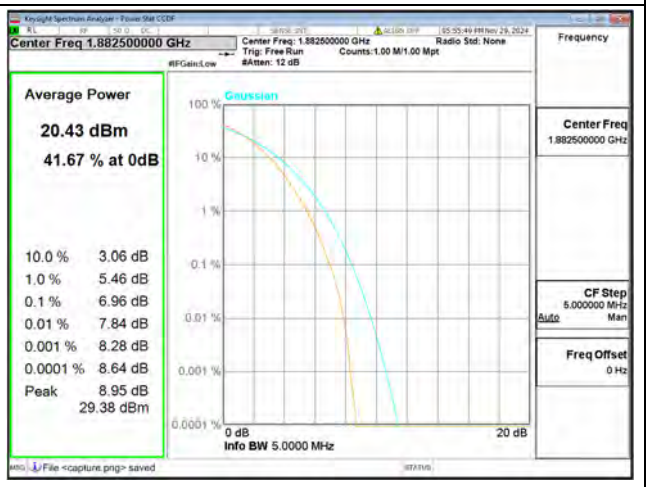

B25 / 5MHz / Low CH / 64QAM



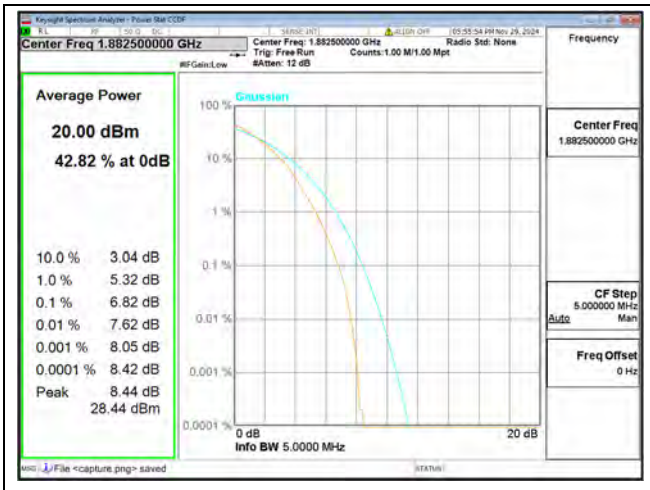

B25 / 5MHz / Low CH / 256QAM



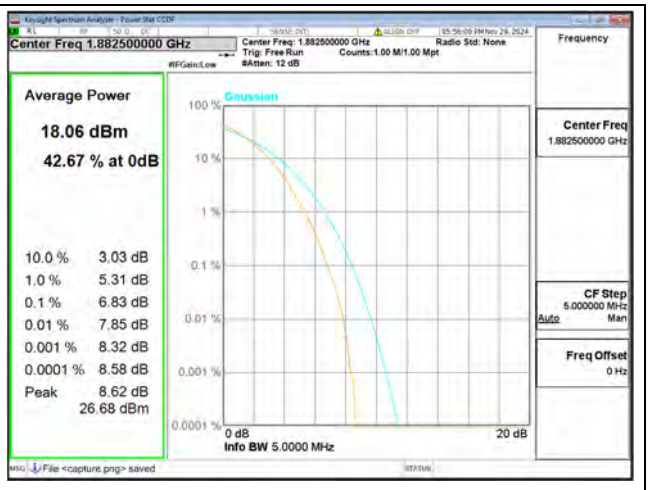

B25 / 5MHz / Mid CH / QPSK



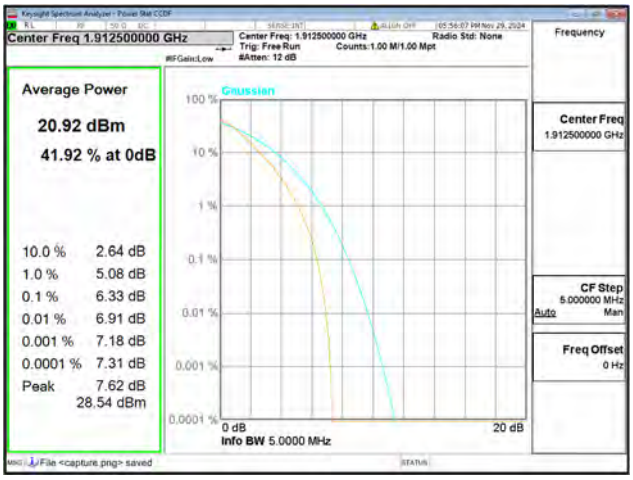

B25 / 5MHz / Mid CH / 16QAM



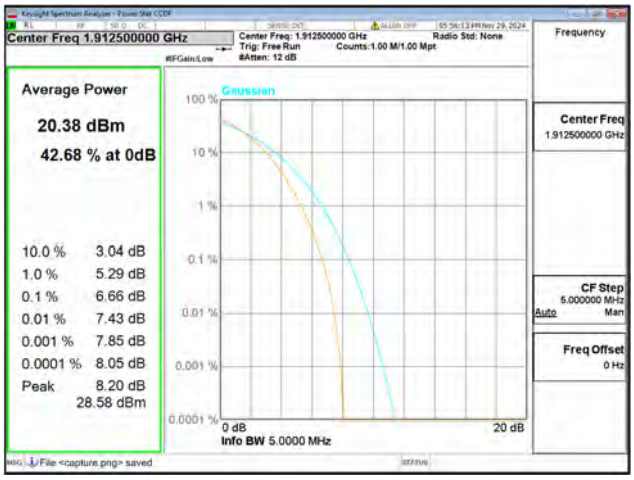

B25 / 5MHz / Mid CH / 64QAM



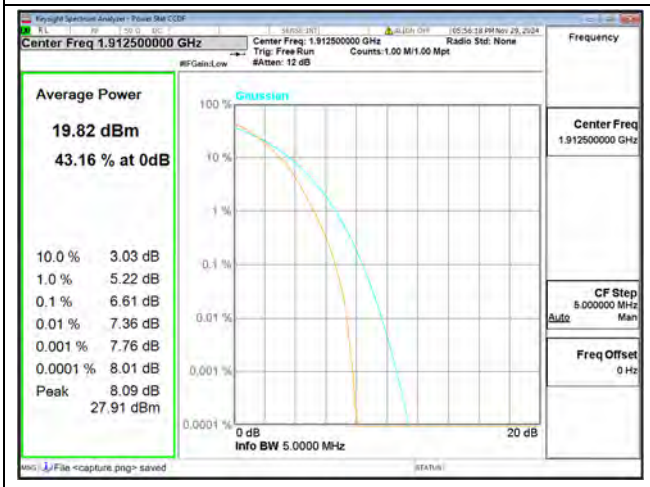

B25 / 5MHz / Mid CH / 256QAM



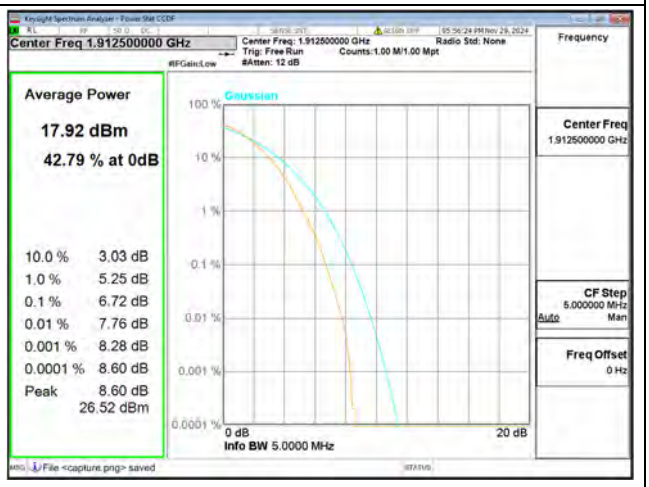

B25 / 5MHz / High CH / QPSK



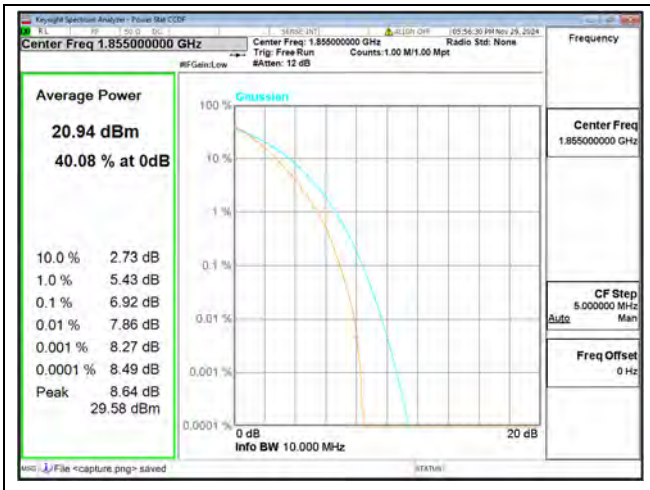

B25 / 5MHz / High CH / 16QAM



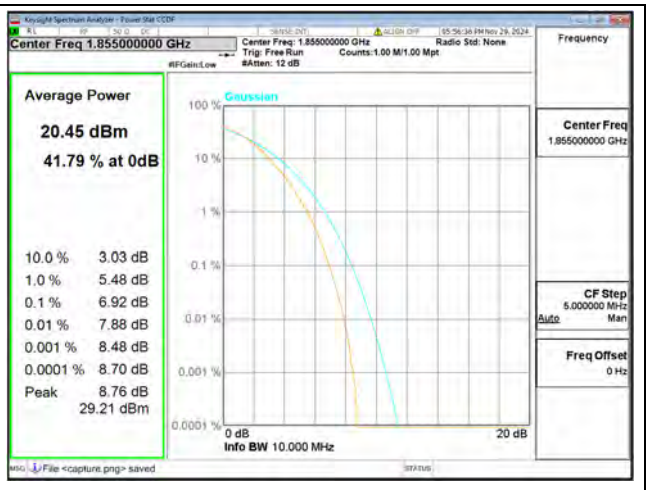

B25 / 5MHz / High CH / 64QAM



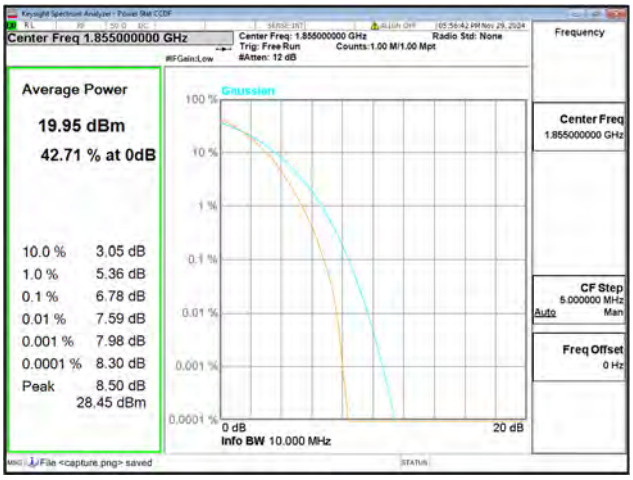

B25 / 5MHz / High CH / 256QAM



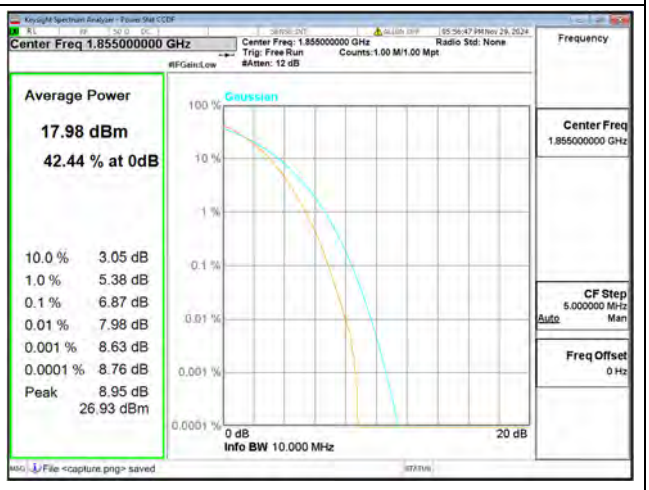

B25 / 10MHz / Low CH / QPSK



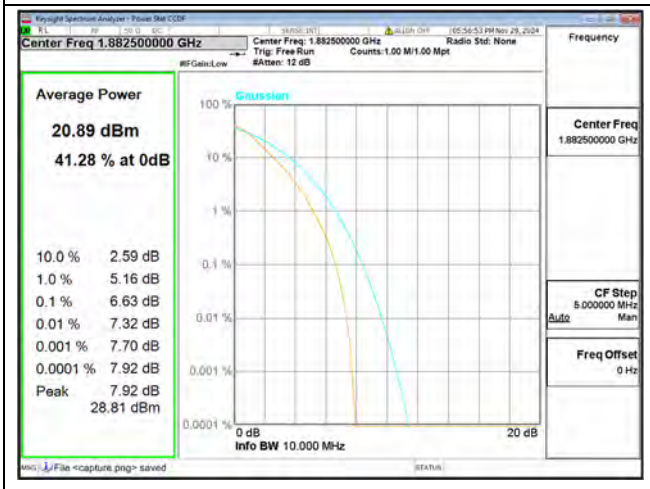

B25 / 10MHz / Low CH / 16QAM



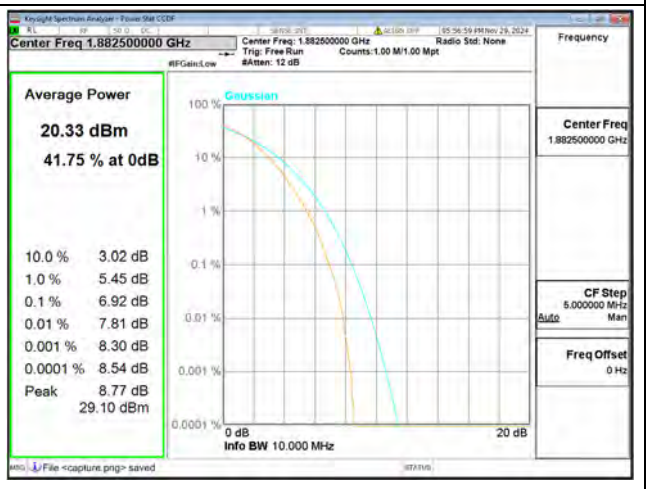

B25 / 10MHz / Low CH / 64QAM



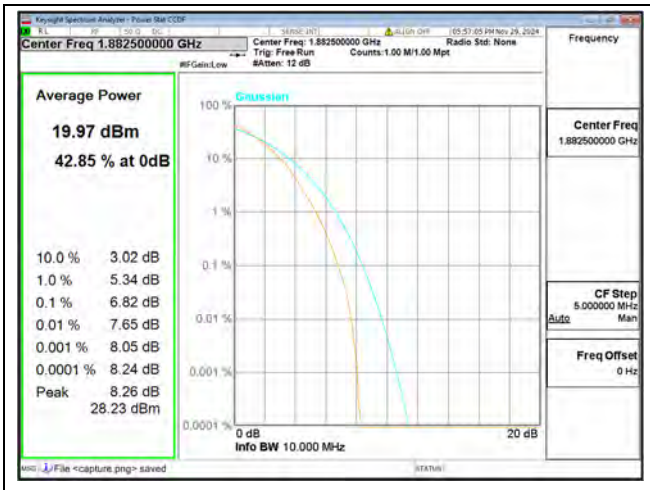

B25 / 10MHz / Low CH / 256QAM



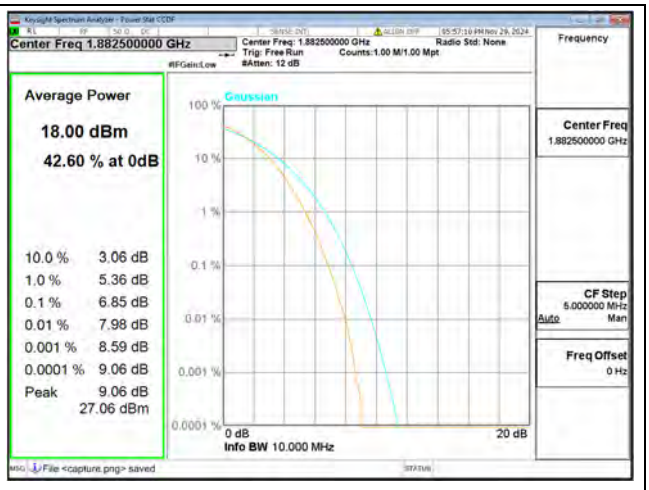

B25 / 10MHz / Mid CH / QPSK



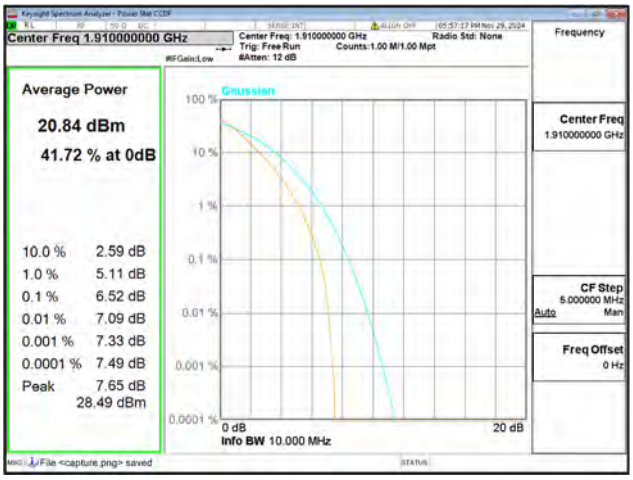

B25 / 10MHz / Mid CH / 16QAM



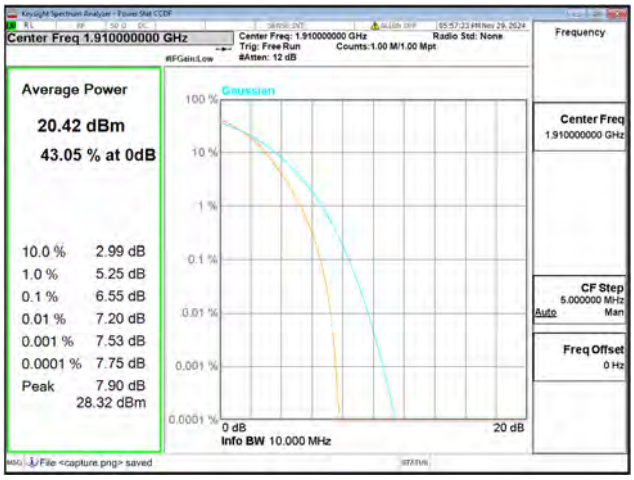

B25 / 10MHz / Mid CH / 64QAM



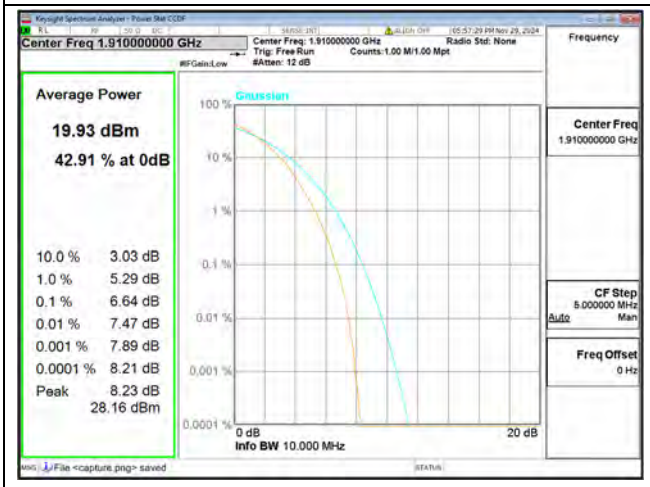

B25 / 10MHz / Mid CH / 256QAM



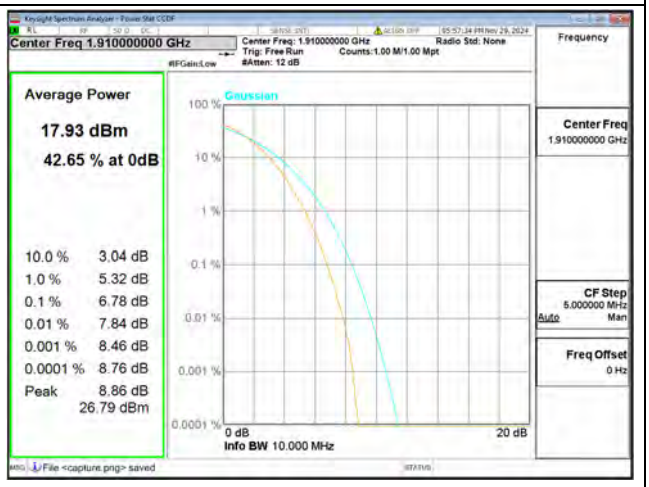

B25 / 10MHz / High CH / QPSK



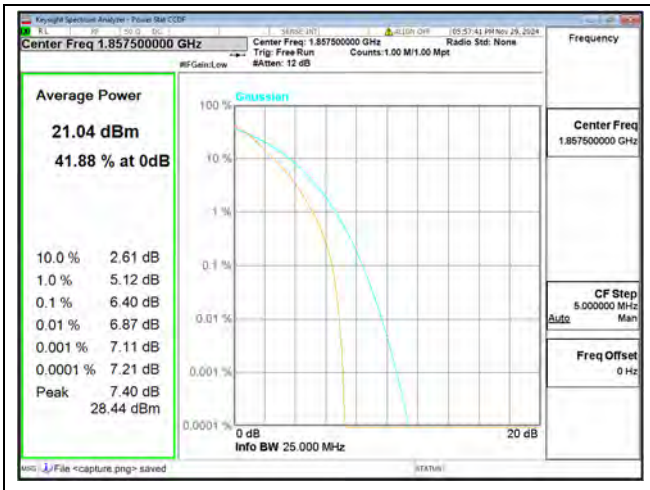

B25 / 10MHz / High CH / 16QAM



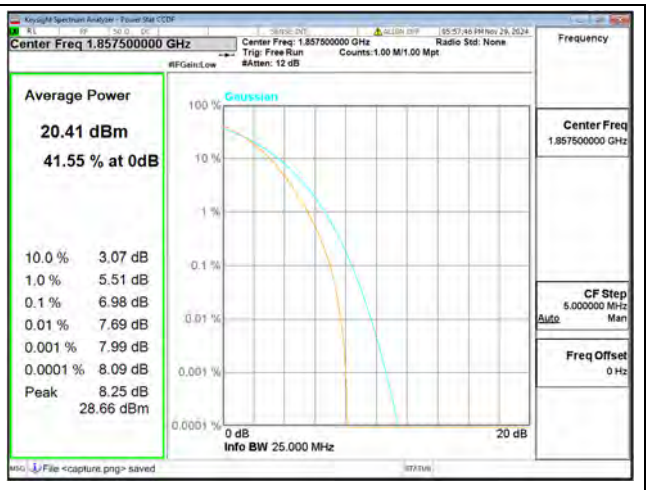

B25 / 10MHz / High CH / 64QAM



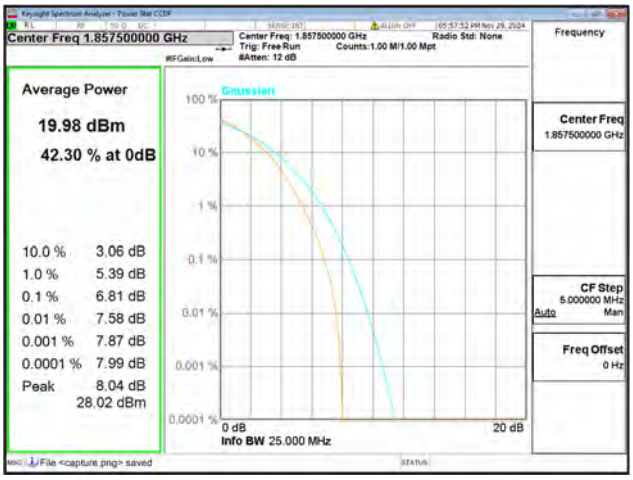

B25 / 10MHz / High CH / 256QAM



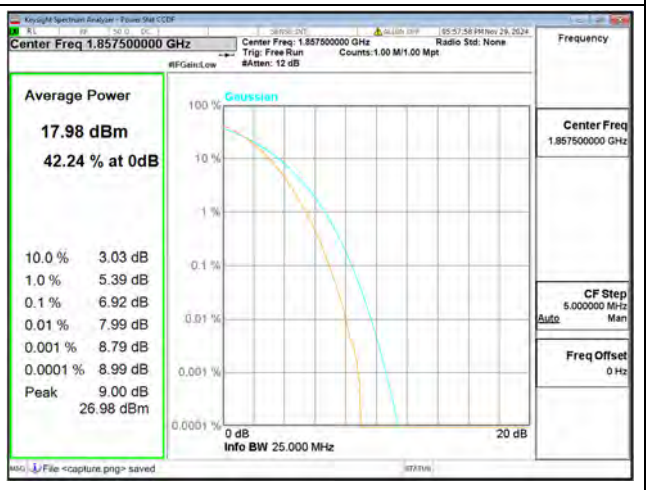

B25 / 15MHz / Low CH / QPSK



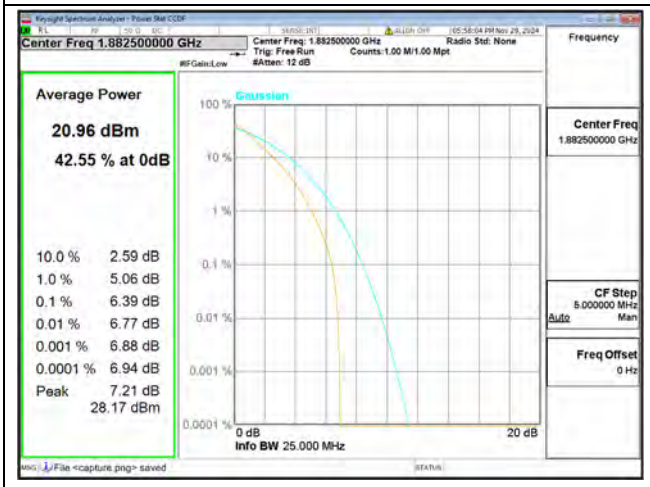

B25 / 15MHz / Low CH / 16QAM



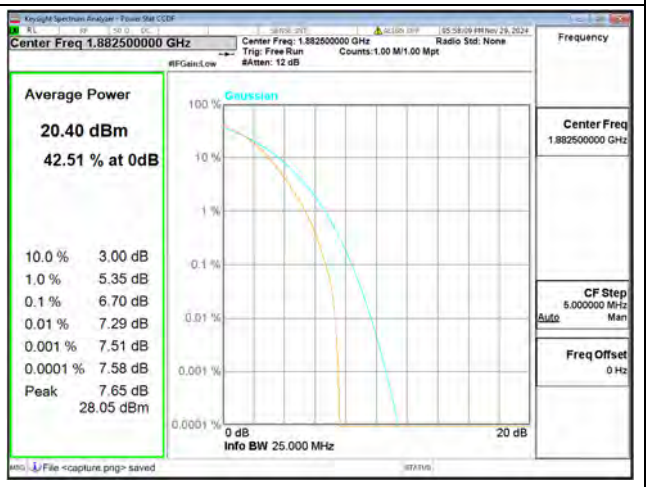

B25 / 15MHz / Low CH / 64QAM



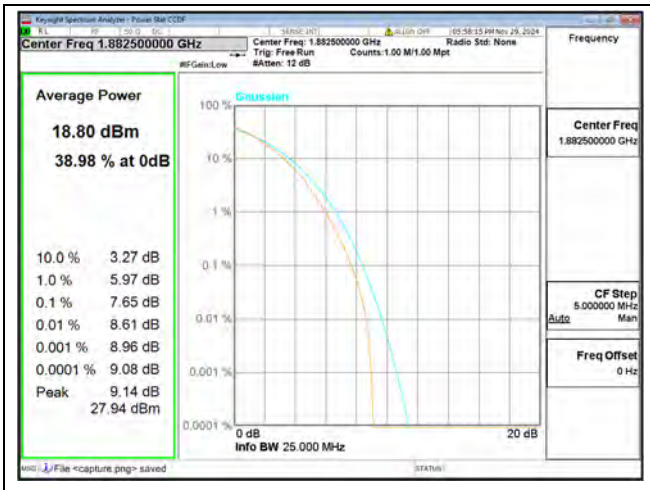

B25 / 15MHz / Low CH / 256QAM



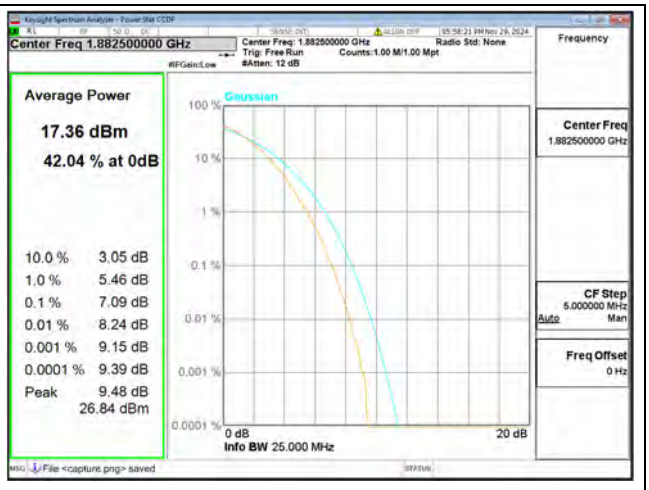

B25 / 15MHz / Mid CH / QPSK



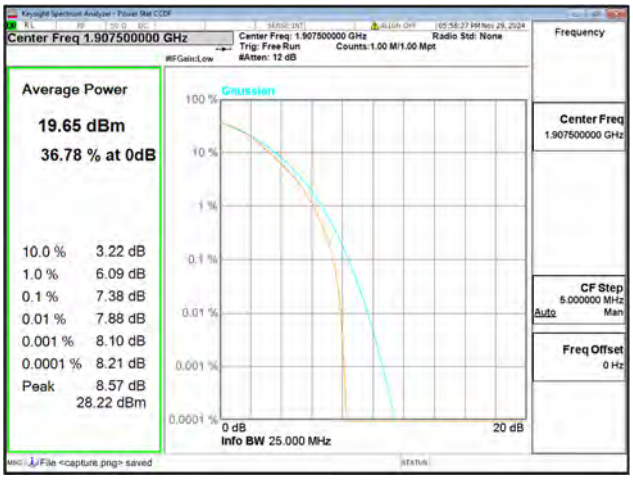

B25 / 15MHz / Mid CH / 16QAM



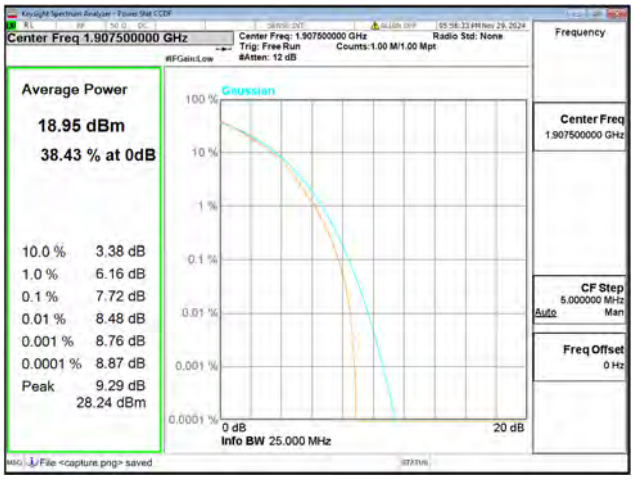

B25 / 15MHz / Mid CH / 64QAM



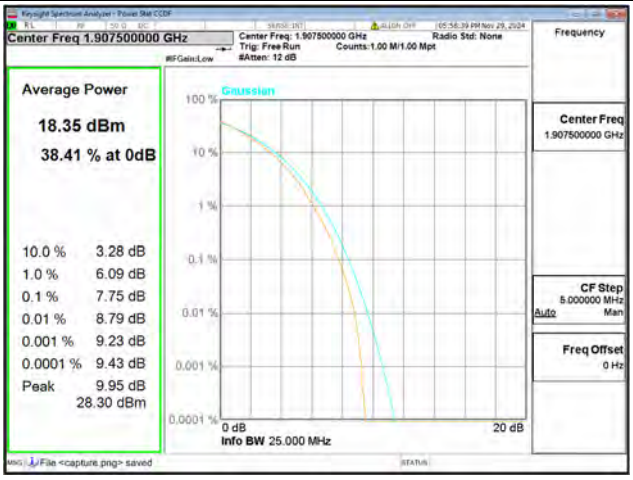

B25 / 15MHz / Mid CH / 256QAM



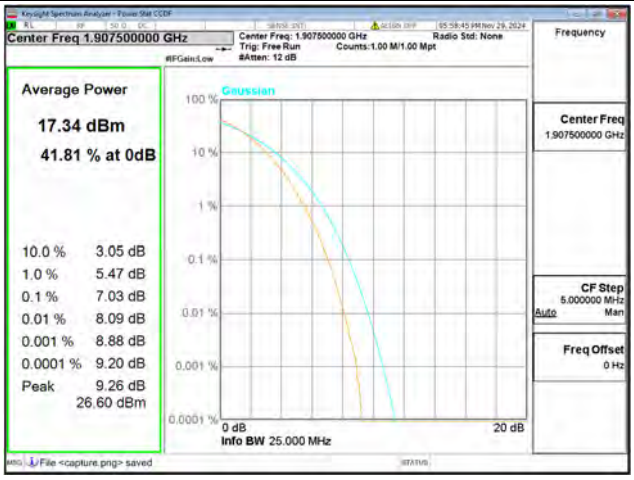

B25 / 15MHz / High CH / QPSK



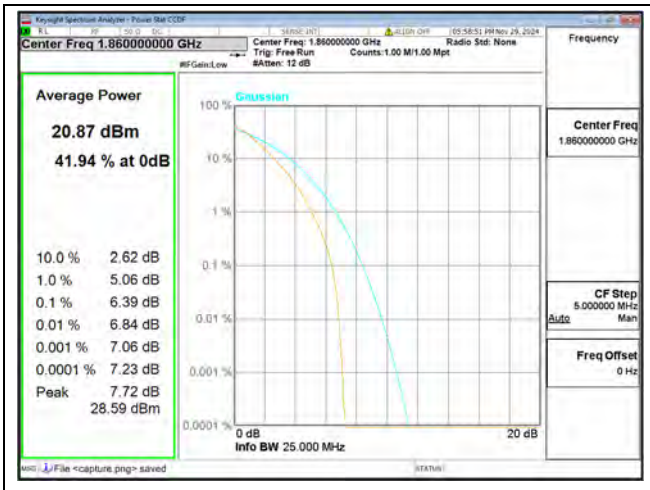

B25 / 15MHz / High CH / 16QAM



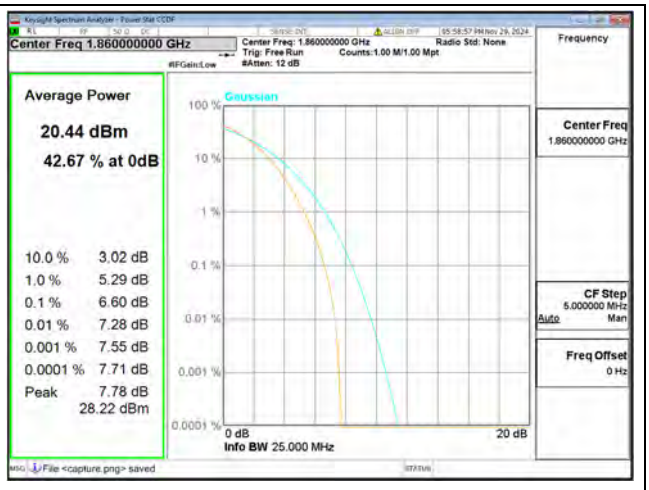

B25 / 15MHz / High CH / 64QAM



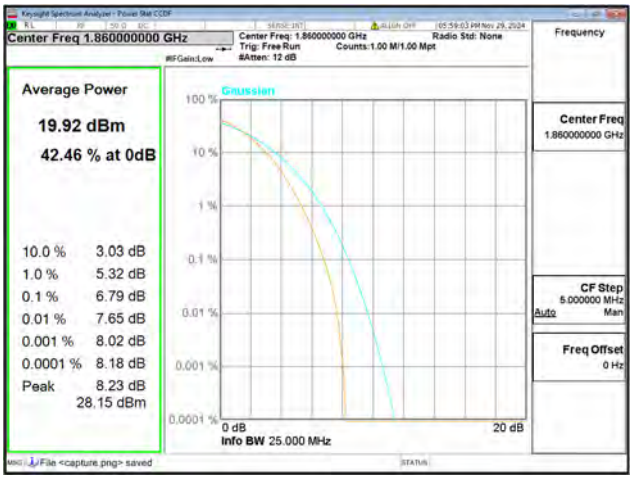

B25 / 15MHz / High CH / 256QAM



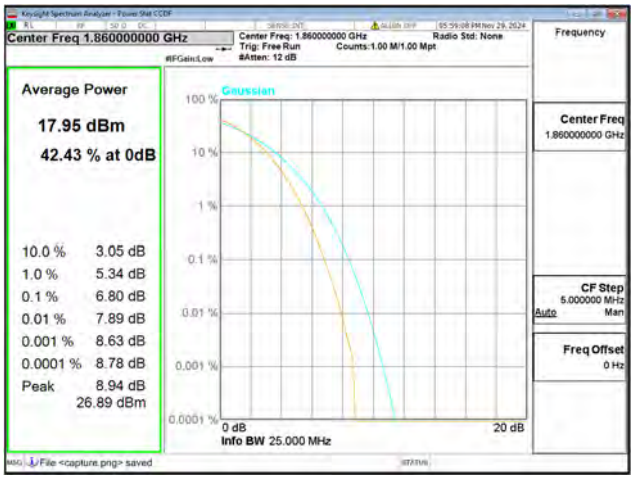

B25 / 20MHz / Low CH / QPSK



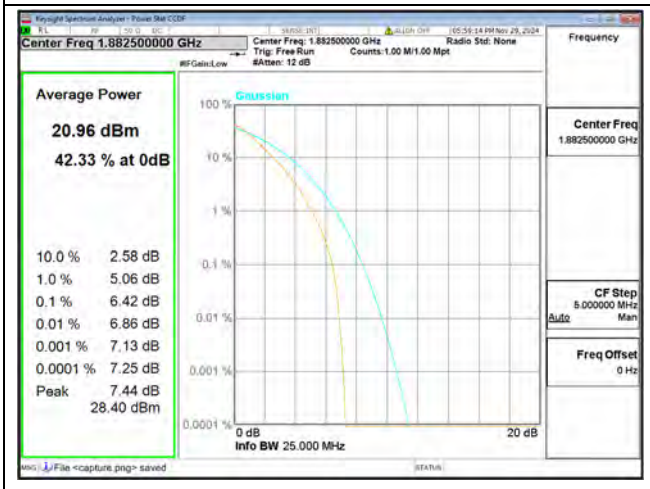

B25 / 20MHz / Low CH / 16QAM



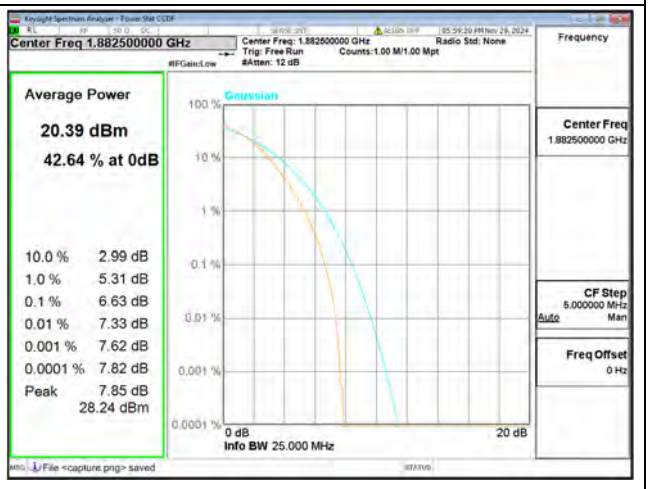

B25 / 20MHz / Low CH / 64QAM



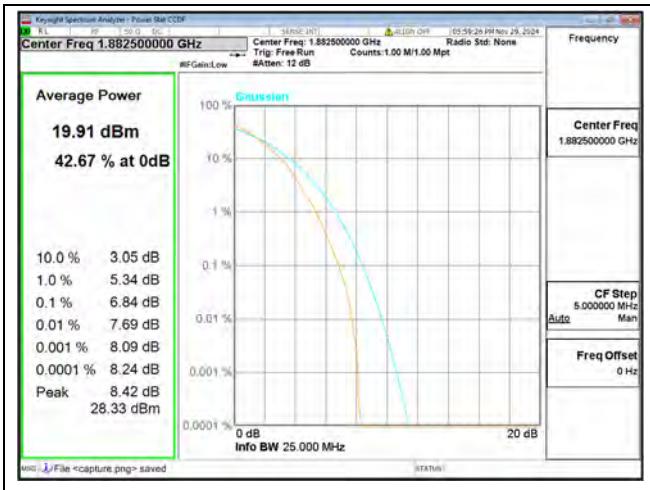

B25 / 20MHz / Low CH / 256QAM



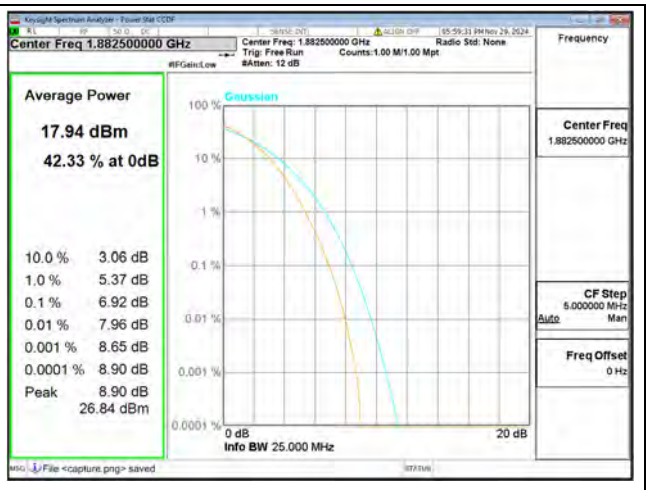

B25 / 20MHz / Mid CH / QPSK



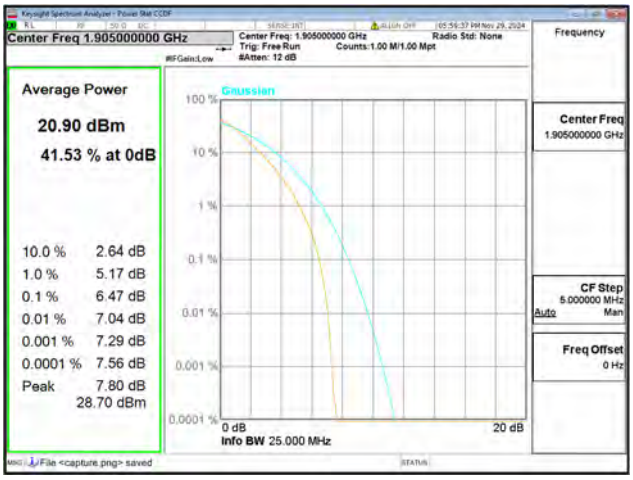

B25 / 20MHz / Mid CH / 16QAM



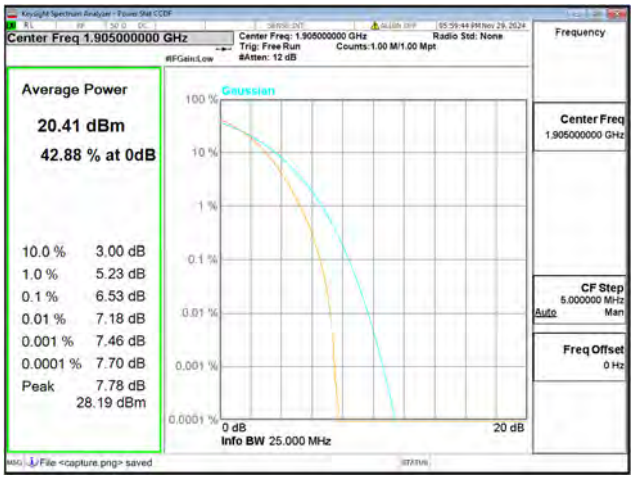

B25 / 20MHz / Mid CH / 64QAM



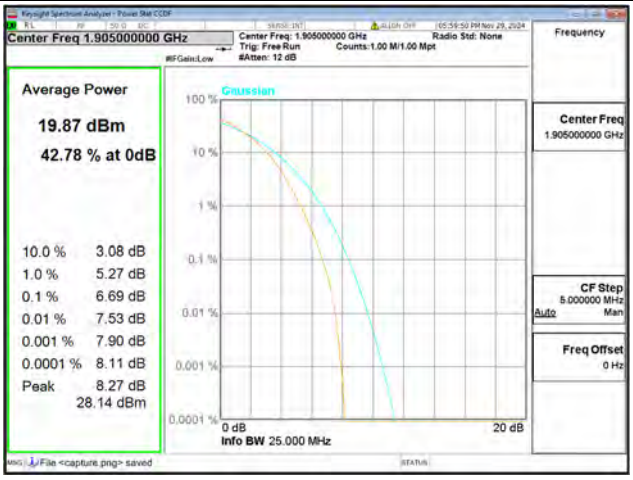

B25 / 20MHz / Mid CH / 256QAM



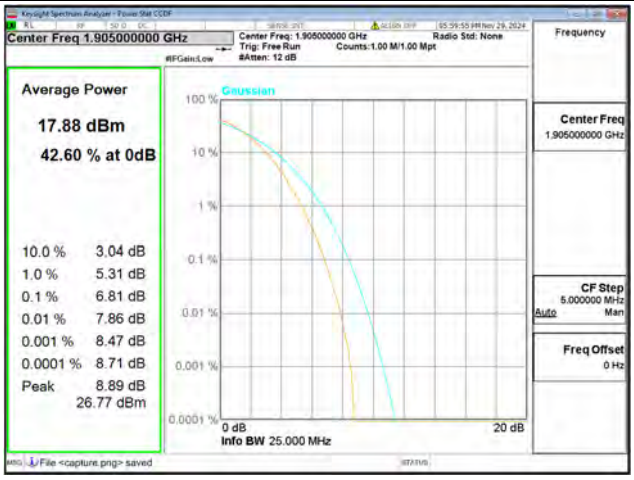

B25 / 20MHz / High CH / QPSK



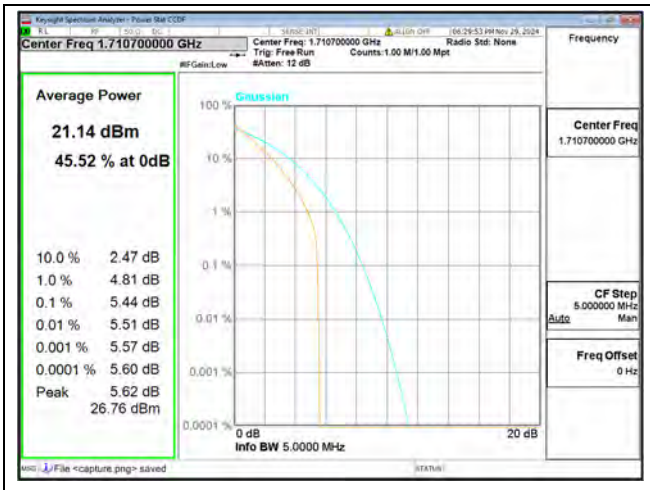

B25 / 20MHz / High CH / 16QAM



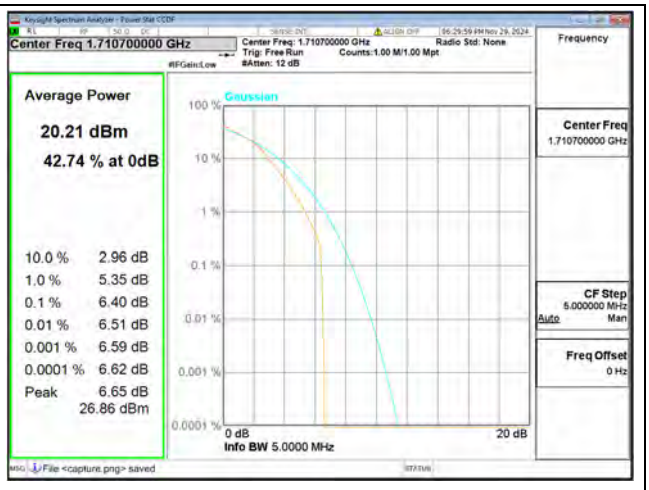

B25 / 20MHz / High CH / 64QAM



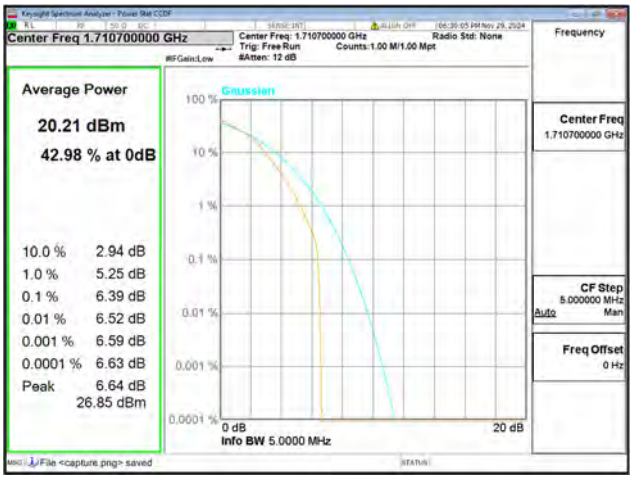

B25 / 20MHz / High CH / 256QAM



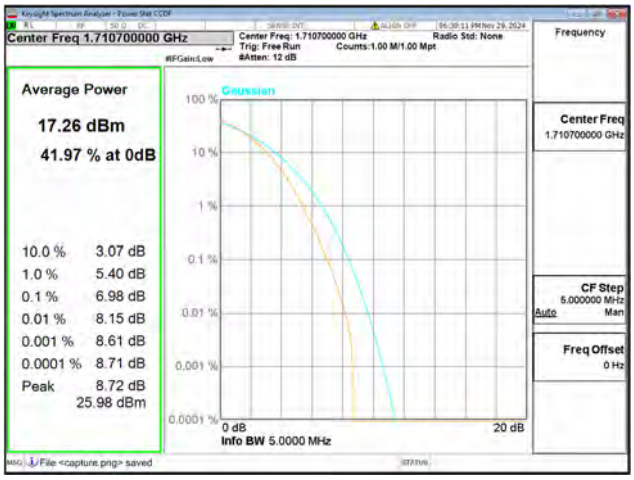

B66 / 1.4MHz / Low CH / QPSK



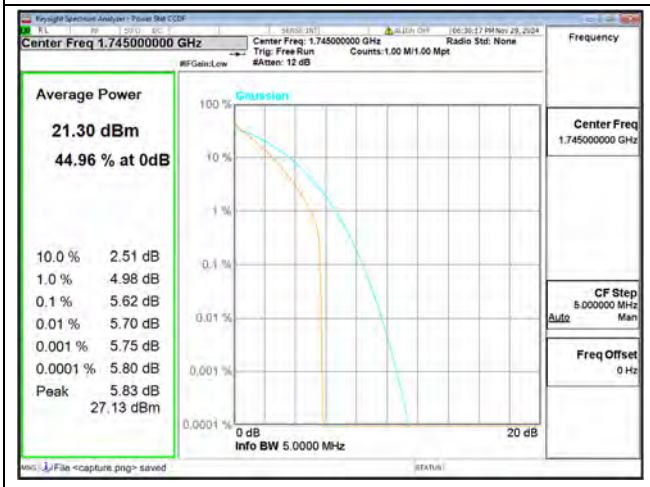

B66 / 1.4MHz / Low CH / 16QAM



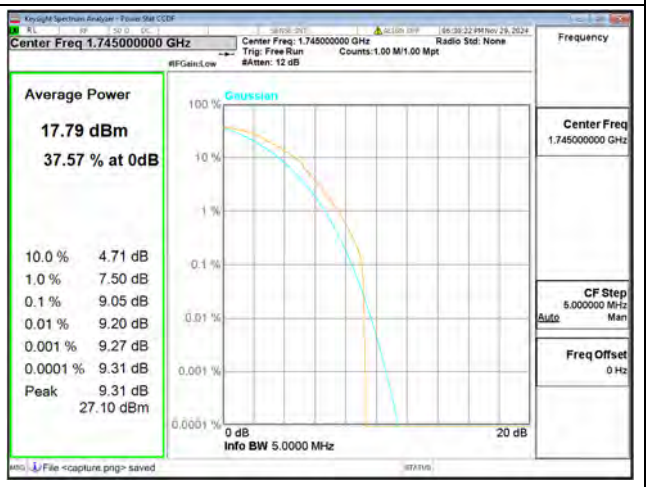

B66 / 1.4MHz / Low CH / 64QAM



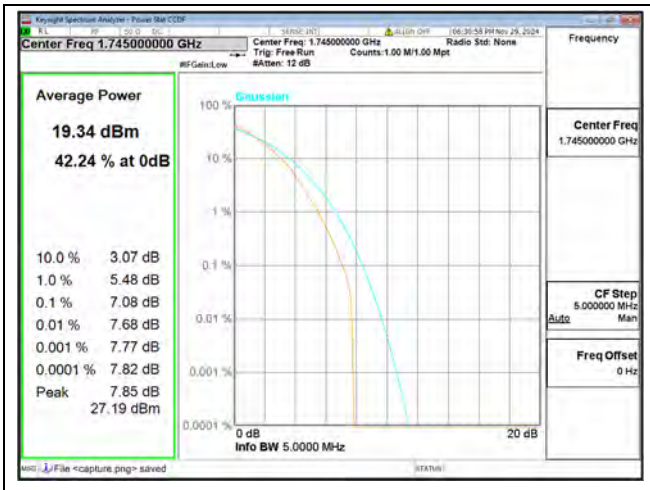

B66 / 1.4MHz / Low CH / 256QAM



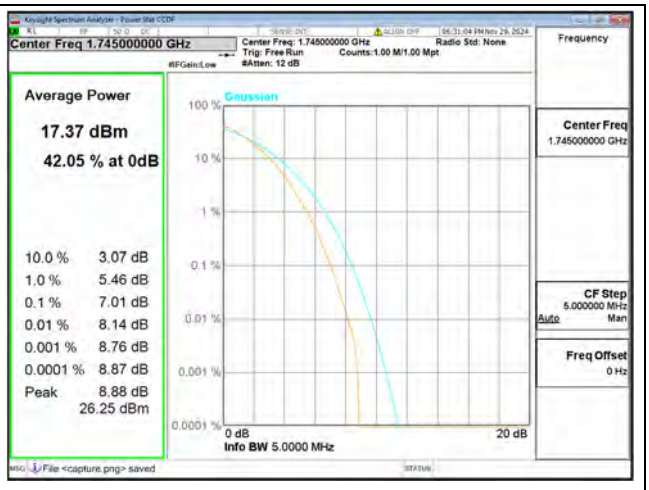

B66 / 1.4MHz / Mid CH / QPSK



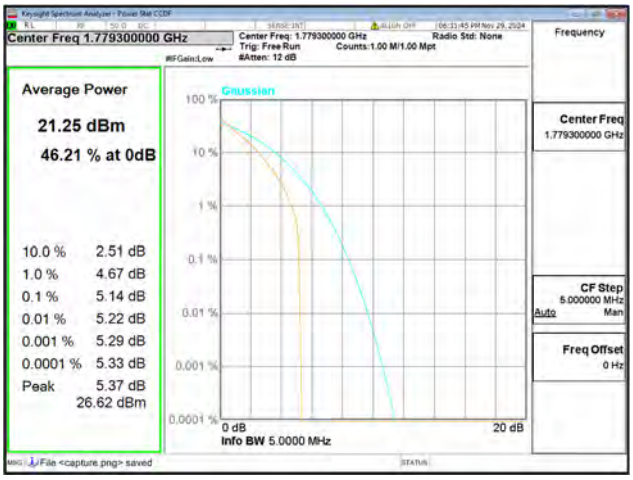

B66 / 1.4MHz / Mid CH / 16QAM



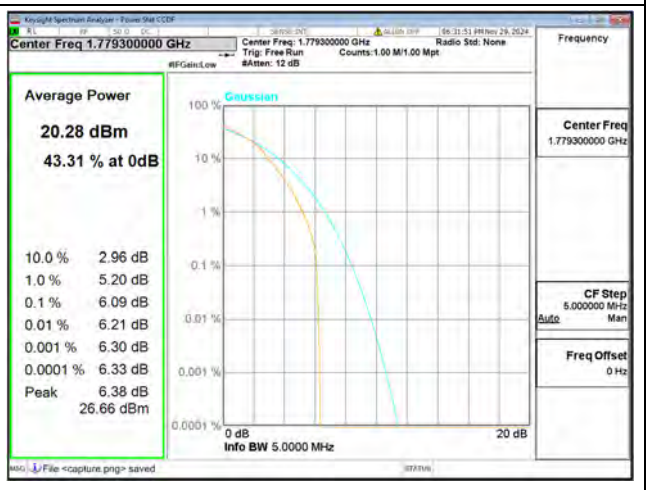

B66 / 1.4MHz / Mid CH / 64QAM



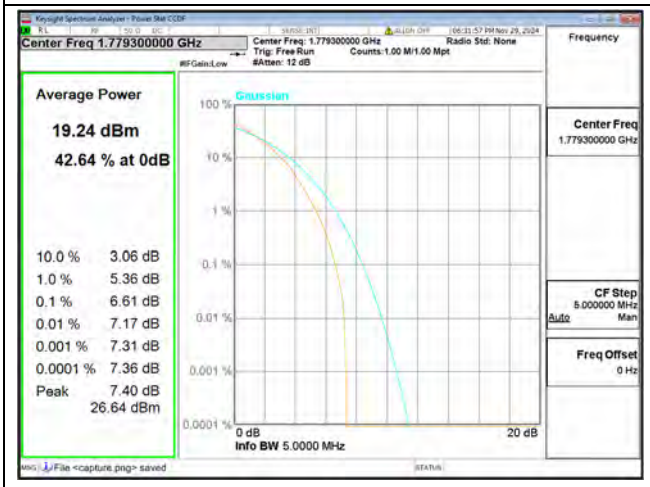

B66 / 1.4MHz / Mid CH / 256QAM



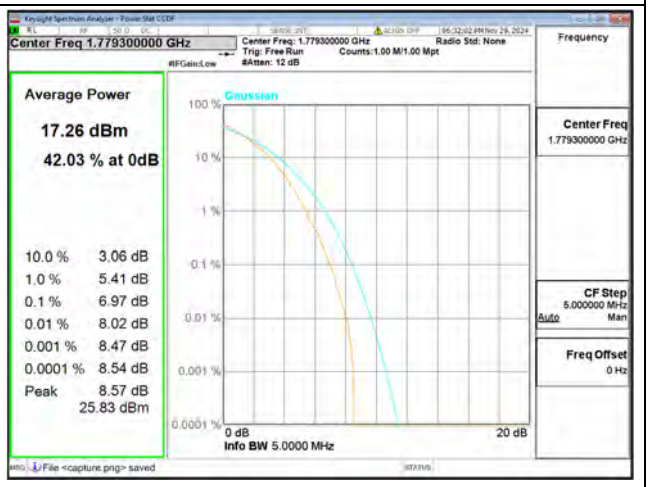

B66 / 1.4MHz / High CH / QPSK



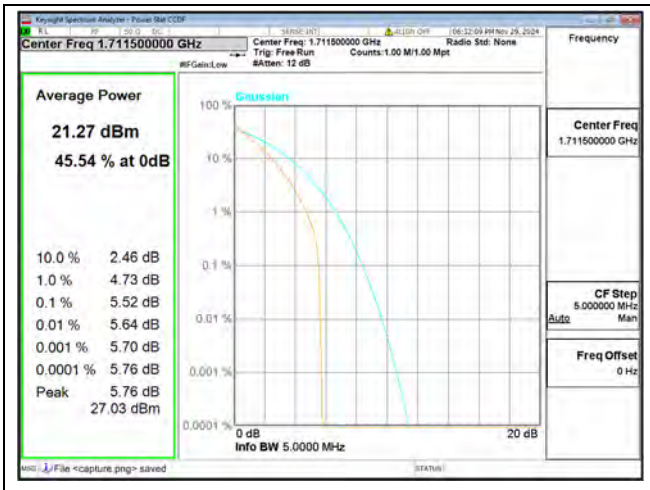

B66 / 1.4MHz / High CH / 16QAM



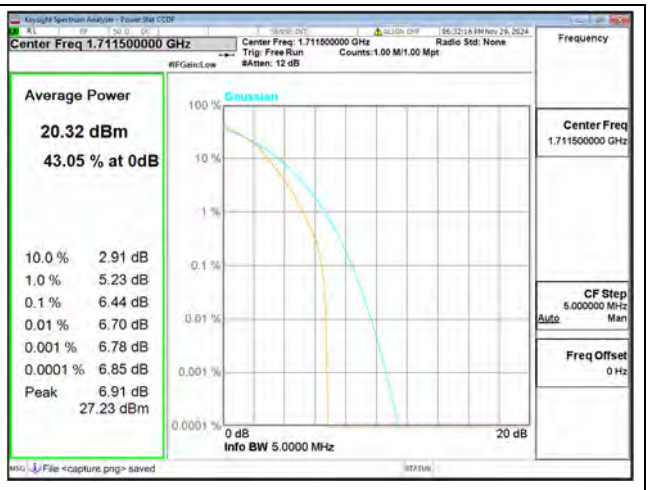

B66 / 1.4MHz / High CH / 64QAM



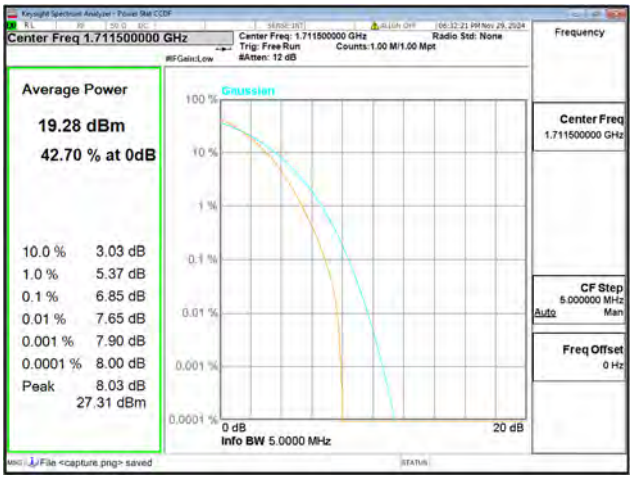

B66 / 1.4MHz / High CH / 256QAM



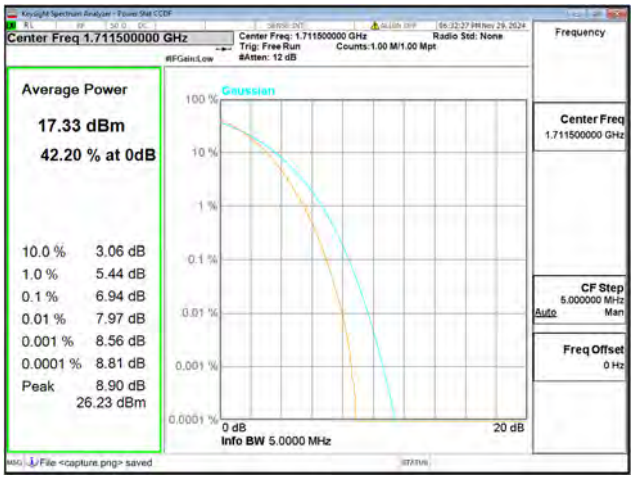

B66 / 3MHz / Low CH / QPSK



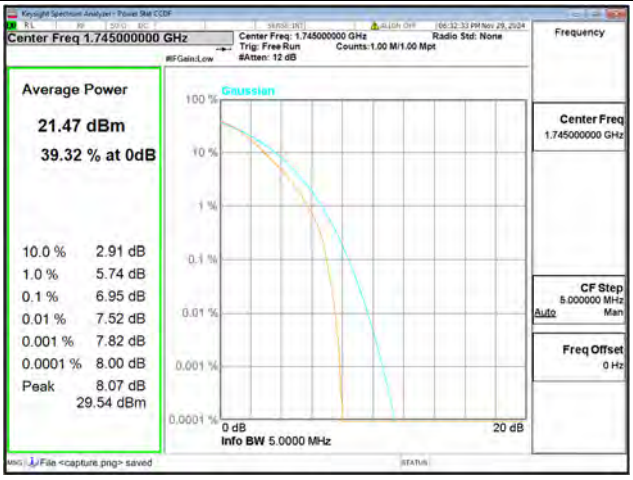

B66 / 3MHz / Low CH / 16QAM



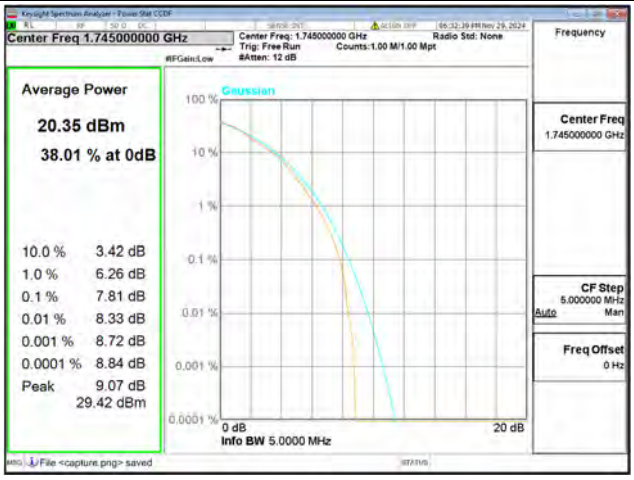

B66 / 3MHz / Low CH / 64QAM



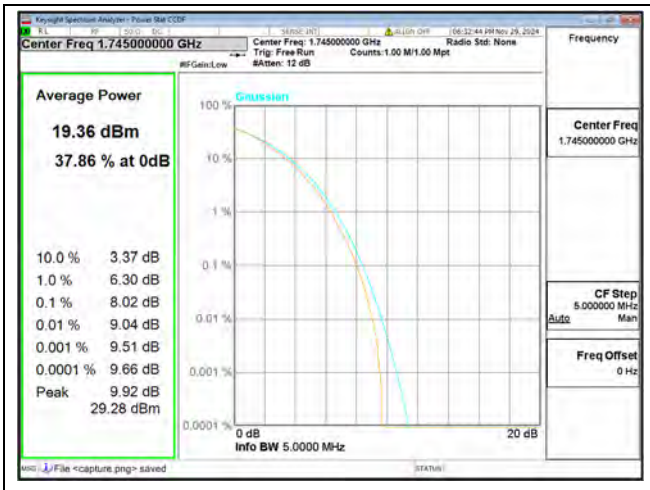

B66 / 3MHz / Low CH / 256QAM



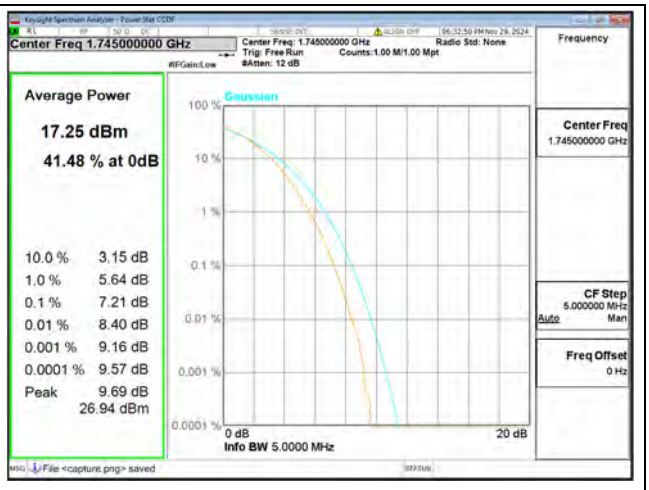

B66 / 3MHz / Mid CH / QPSK



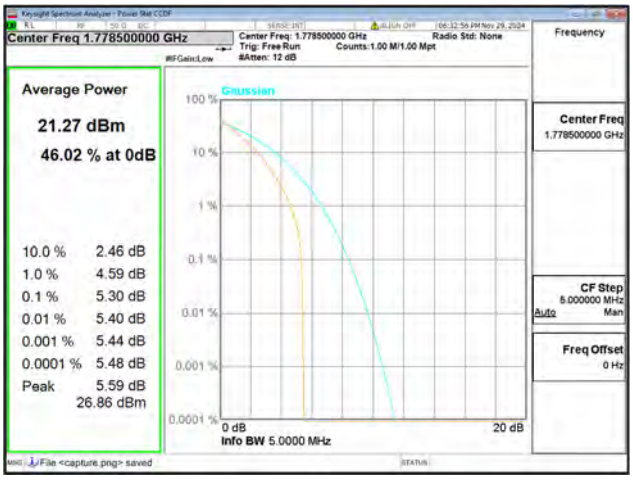

B66 / 3MHz / Mid CH / 16QAM



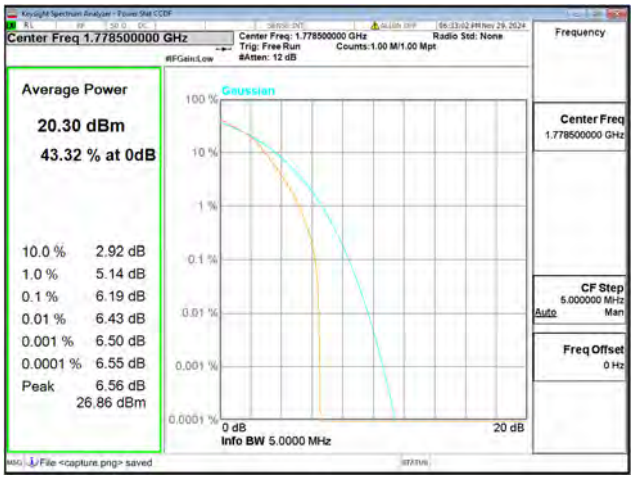

B66 / 3MHz / Mid CH / 64QAM



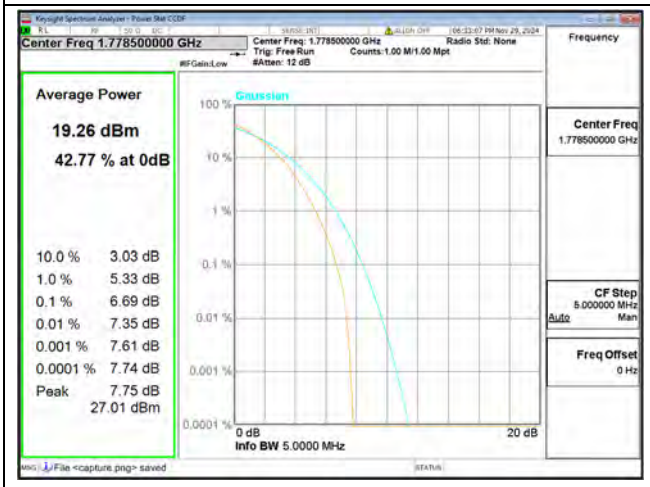

B66 / 3MHz / Mid CH / 256QAM



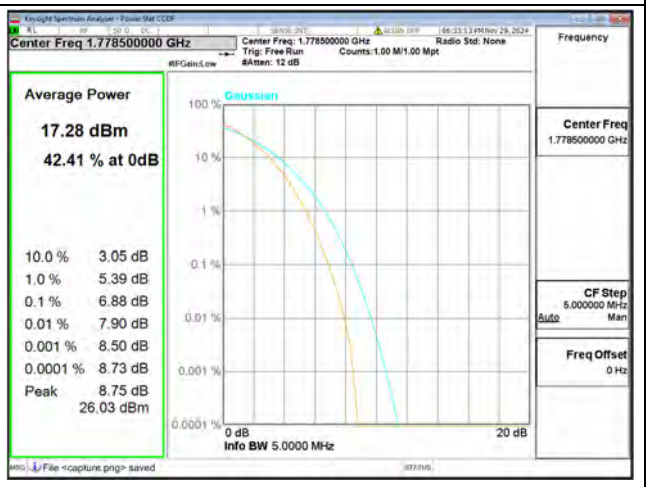

B66 / 3MHz / High CH / QPSK



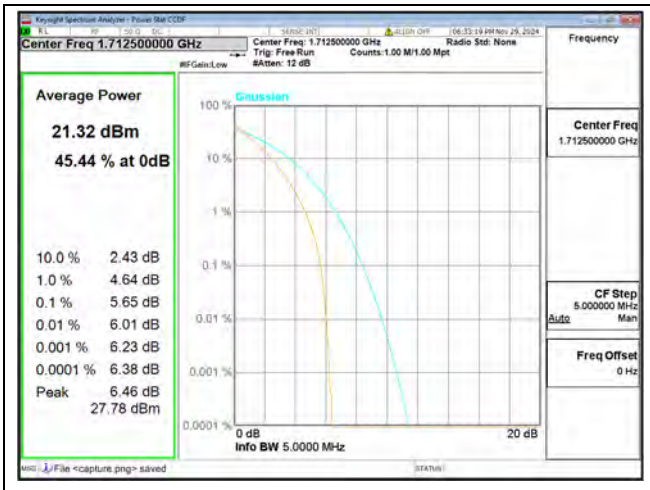

B66 / 3MHz / High CH / 16QAM



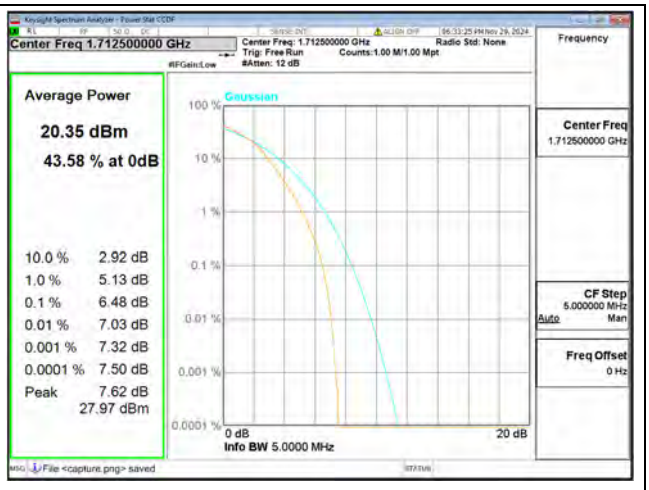

B66 / 3MHz / High CH / 64QAM



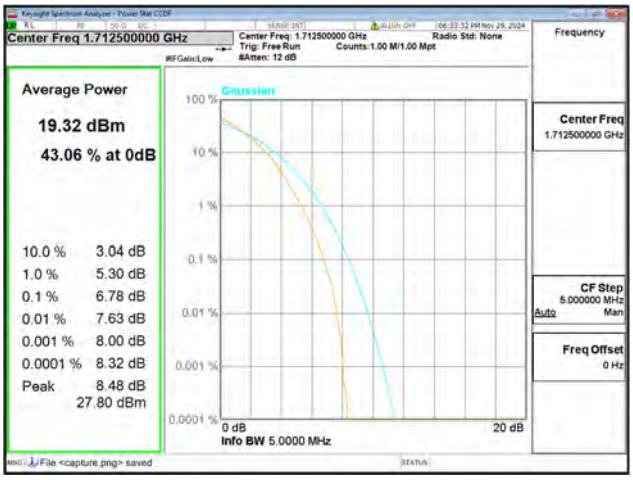

B66 / 3MHz / High CH / 256QAM



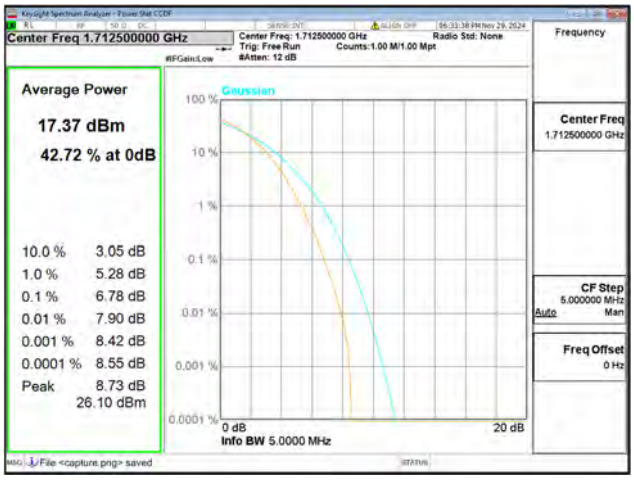

B66 / 5MHz / Low CH / QPSK



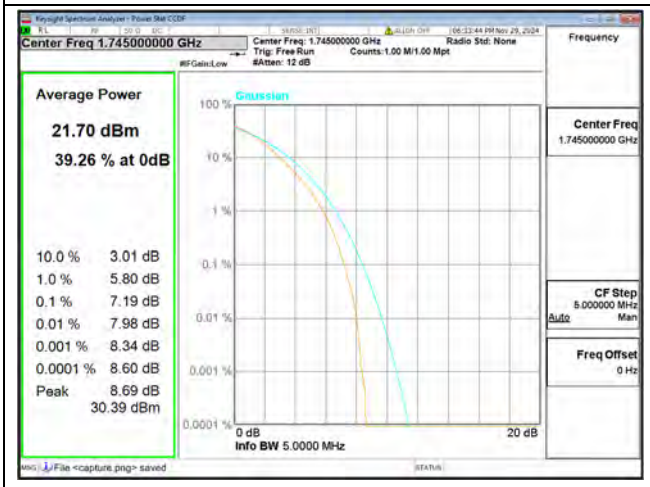

B66 / 5MHz / Low CH / 16QAM



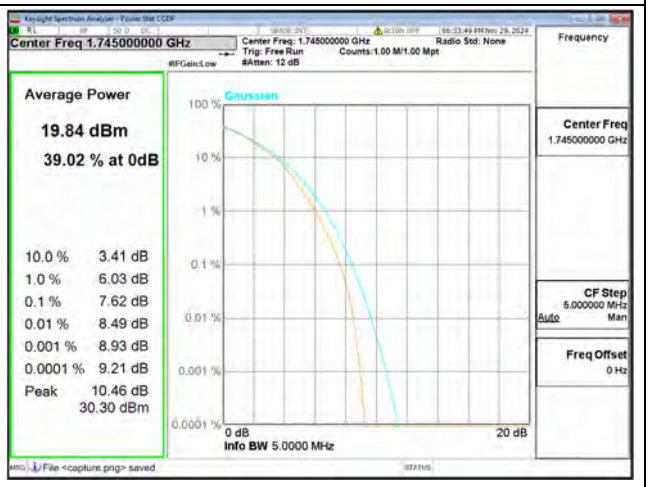

B66 / 5MHz / Low CH / 64QAM



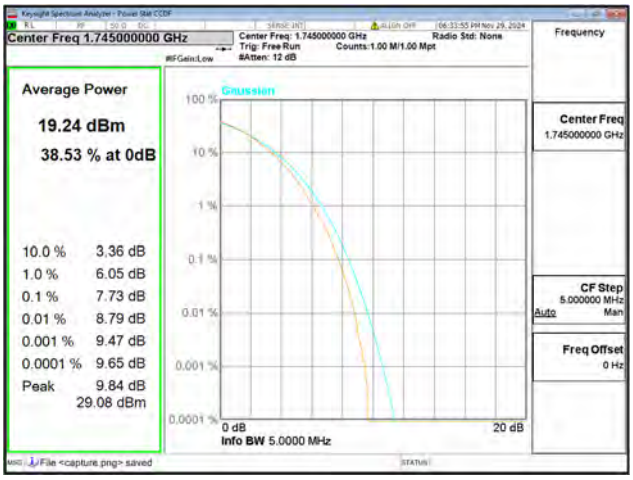

B66 / 5MHz / Low CH / 256QAM



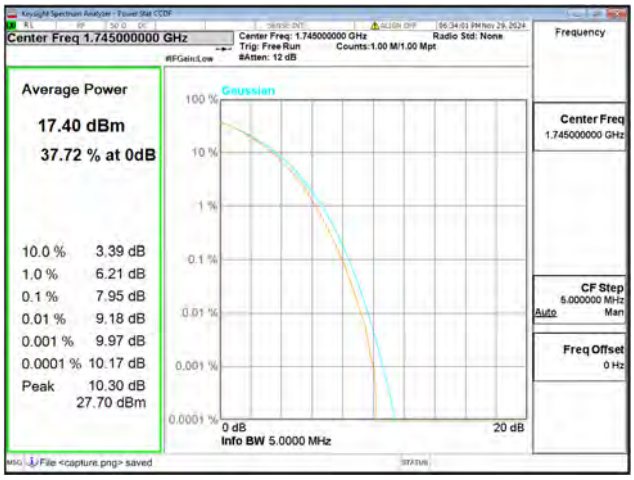

B66 / 5MHz / Mid CH / QPSK



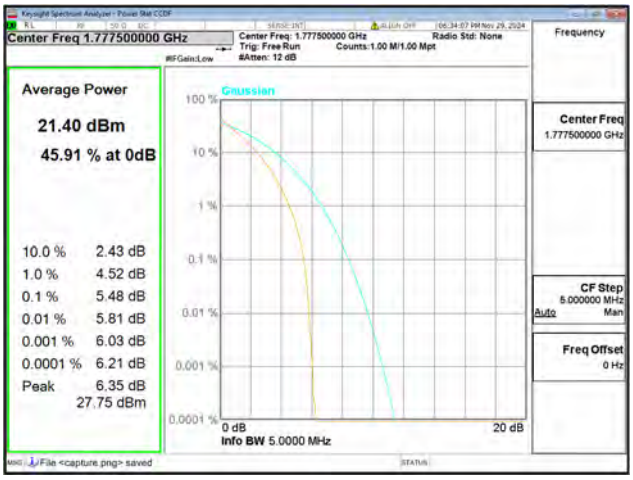

B66 / 5MHz / Mid CH / 16QAM



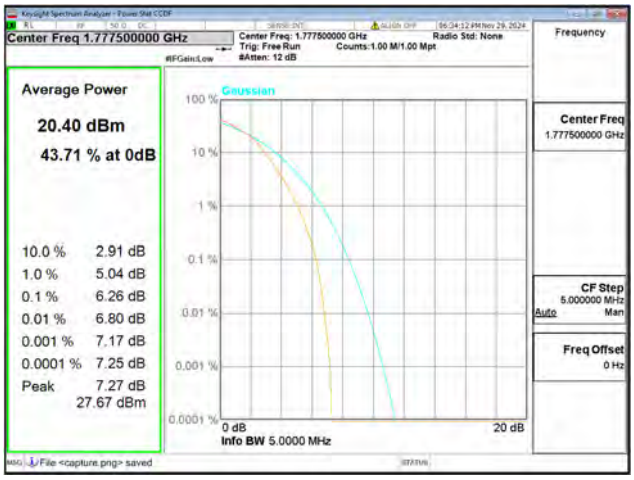

B66 / 5MHz / Mid CH / 64QAM



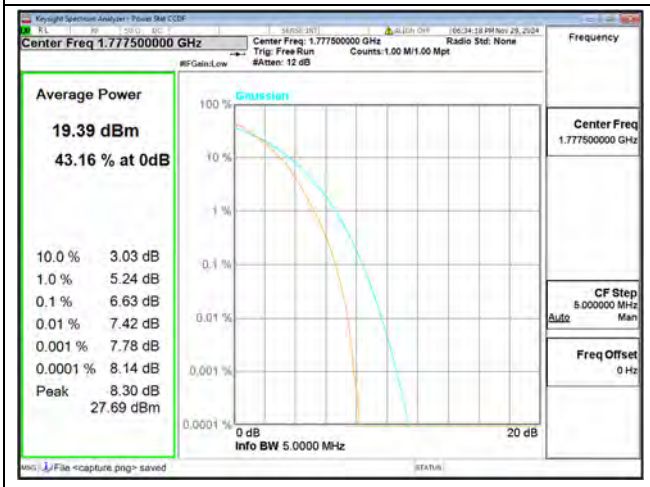

B66 / 5MHz / Mid CH / 256QAM



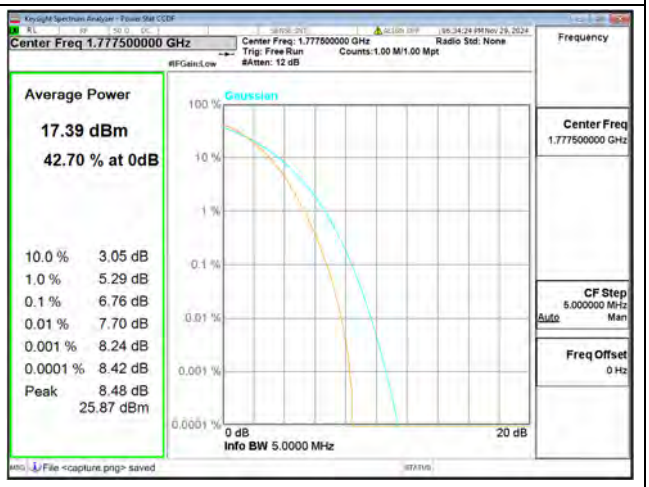

B66 / 5MHz / High CH / QPSK



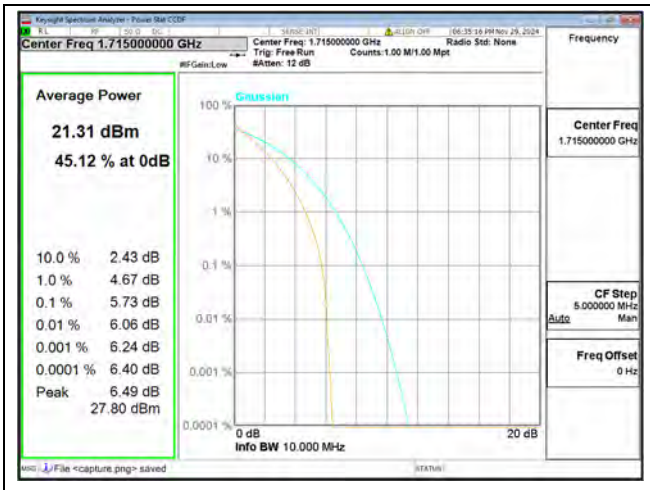

B66 / 5MHz / High CH / 16QAM



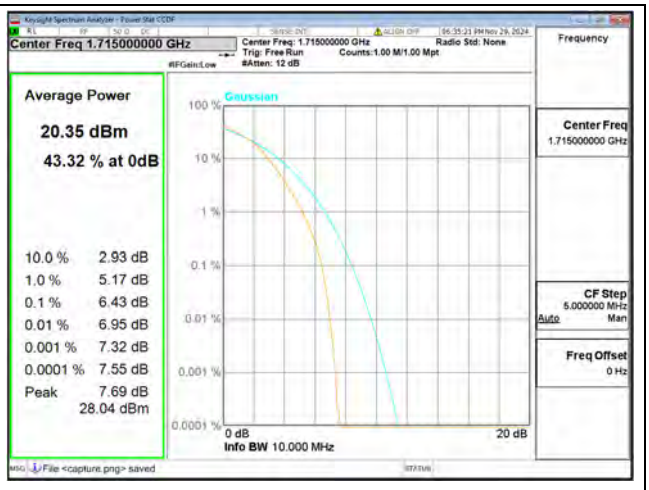

B66 / 5MHz / High CH / 64QAM



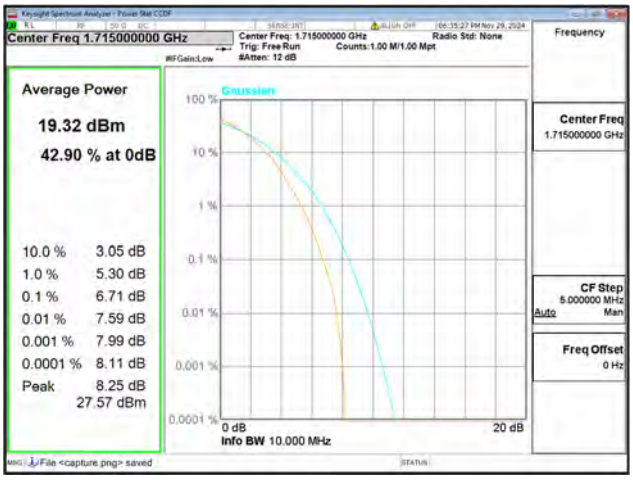

B66 / 5MHz / High CH / 256QAM



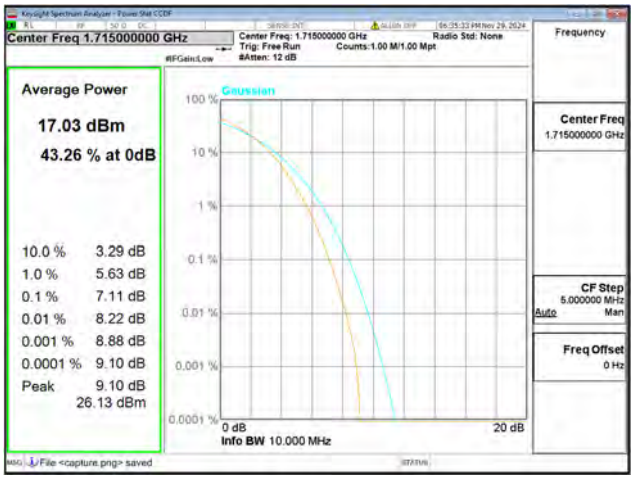

B66 / 10MHz / Low CH / QPSK



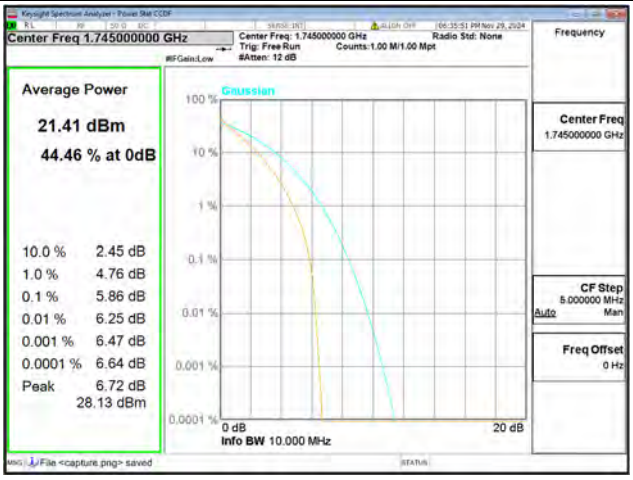

B66 / 10MHz / Low CH / 16QAM



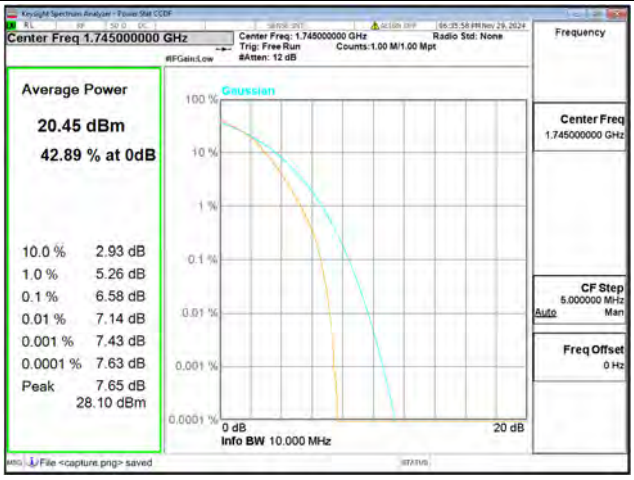

B66 / 10MHz / Low CH / 64QAM



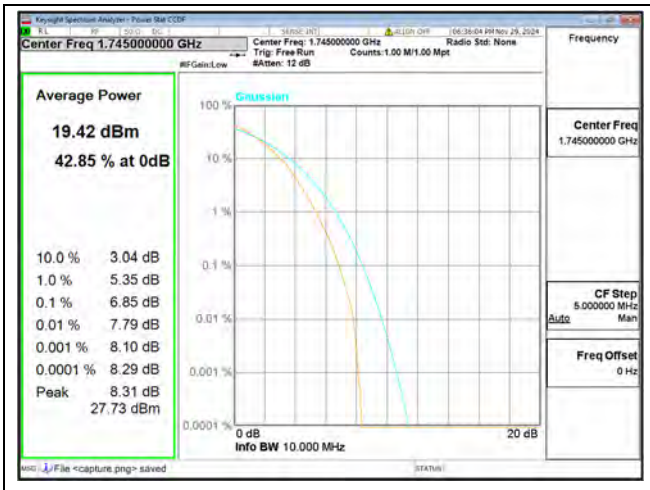

B66 / 10MHz / Low CH / 256QAM



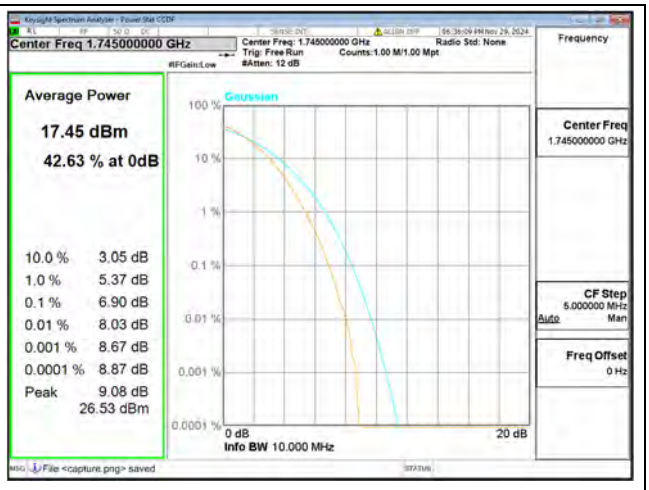

B66 / 10MHz / Mid CH / QPSK



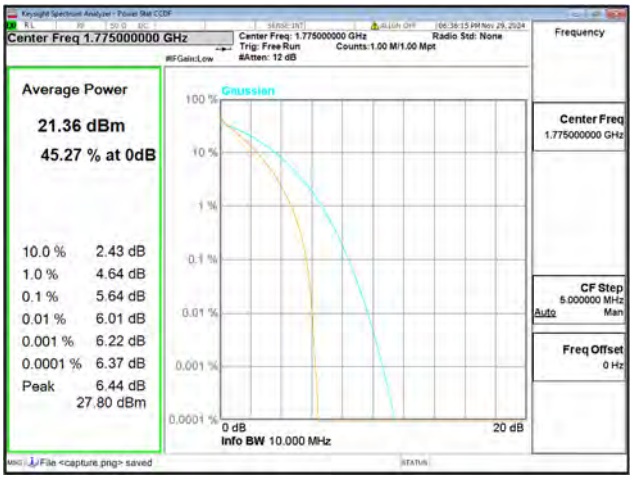

B66 / 10MHz / Mid CH / 16QAM



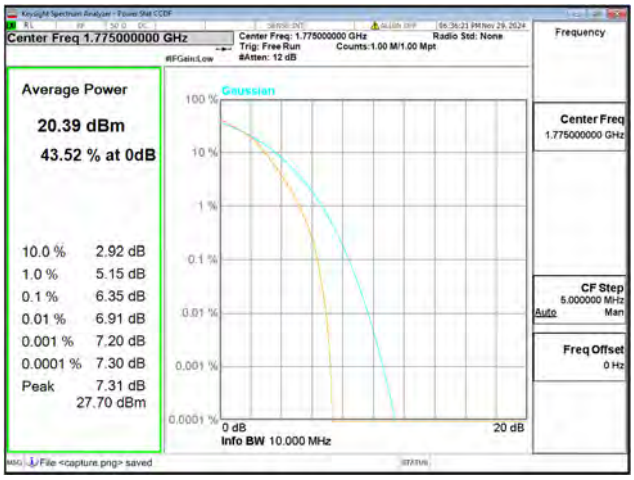

B66 / 10MHz / Mid CH / 64QAM



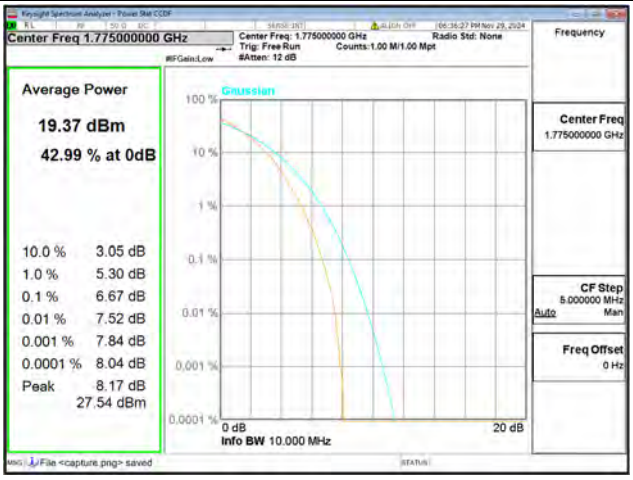

B66 / 10MHz / Mid CH / 256QAM



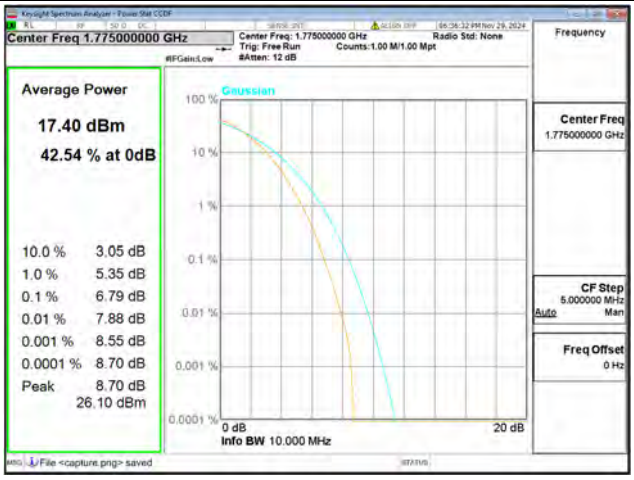

B66 / 10MHz / High CH / QPSK



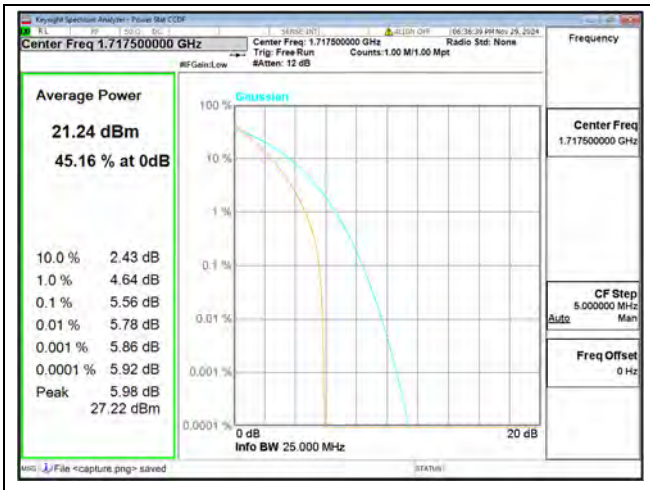

B66 / 10MHz / High CH / 16QAM



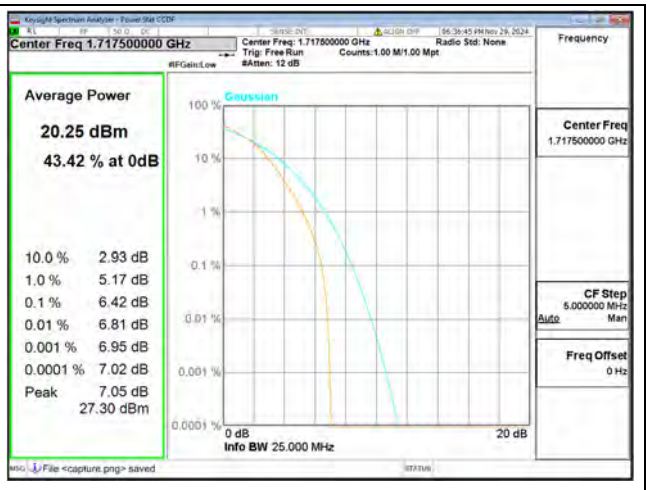

B66 / 10MHz / High CH / 64QAM



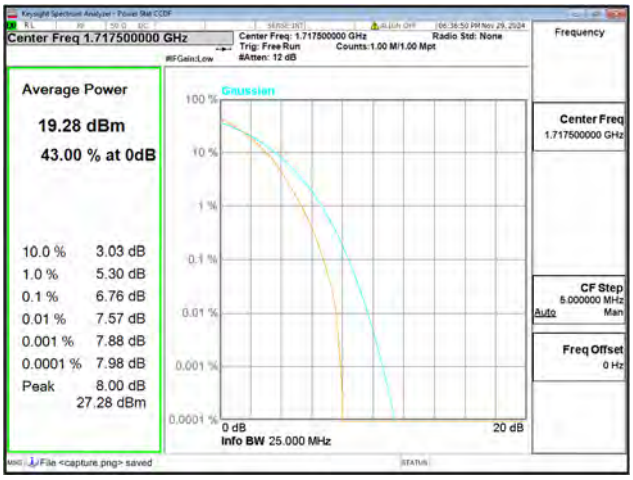

B66 / 10MHz / High CH / 256QAM



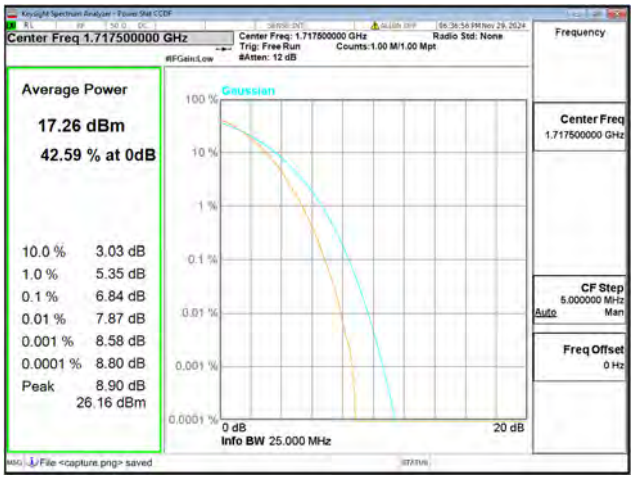

B66 / 15MHz / Low CH / QPSK



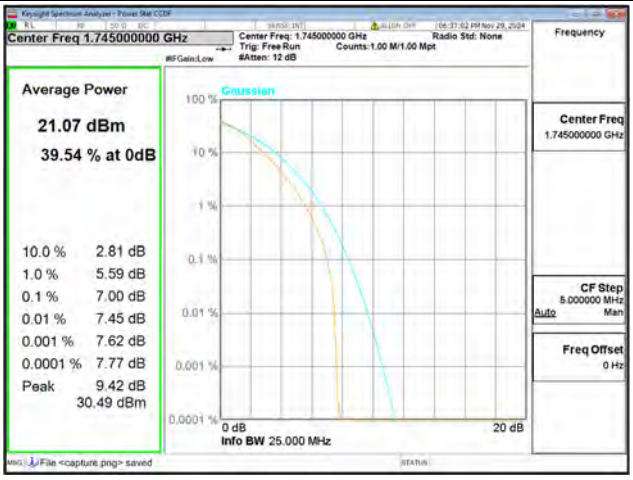

B66 / 15MHz / Low CH / 16QAM



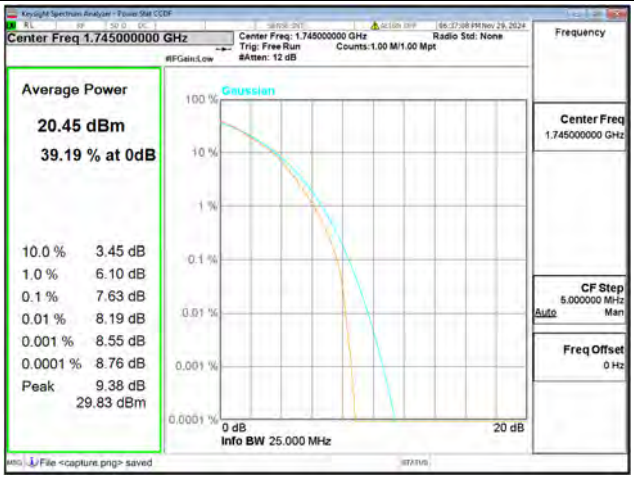

B66 / 15MHz / Low CH / 64QAM



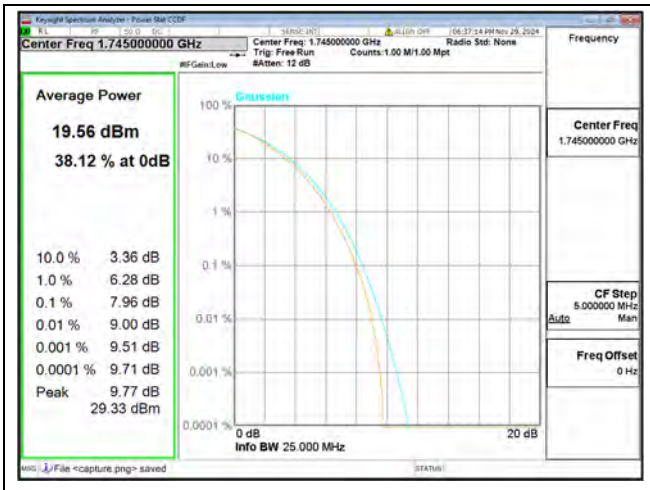

B66 / 15MHz / Low CH / 256QAM



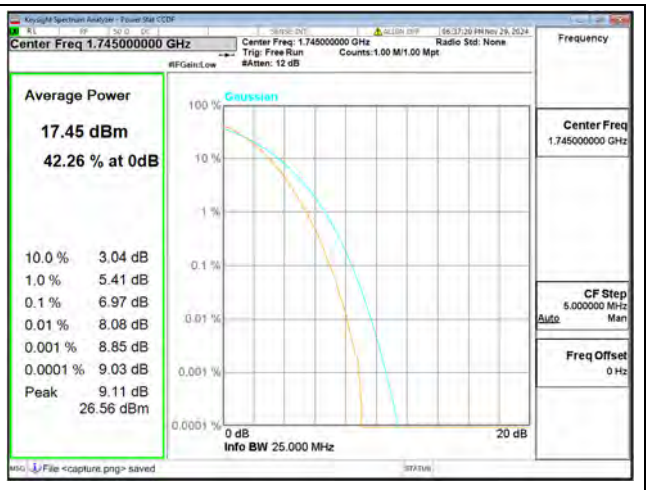

B66 / 15MHz / Mid CH / QPSK



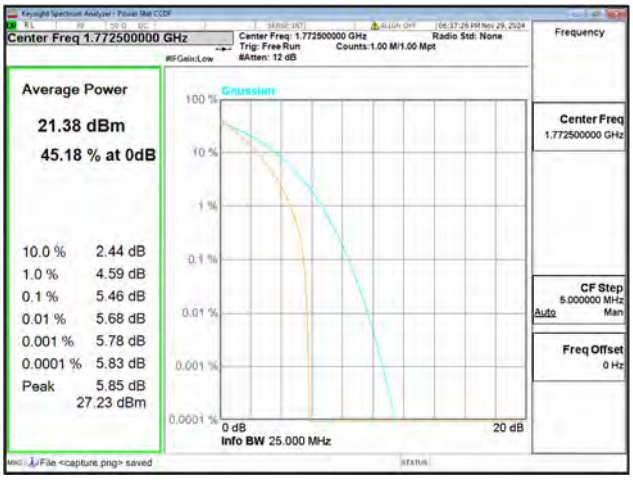

B66 / 15MHz / Mid CH / 16QAM



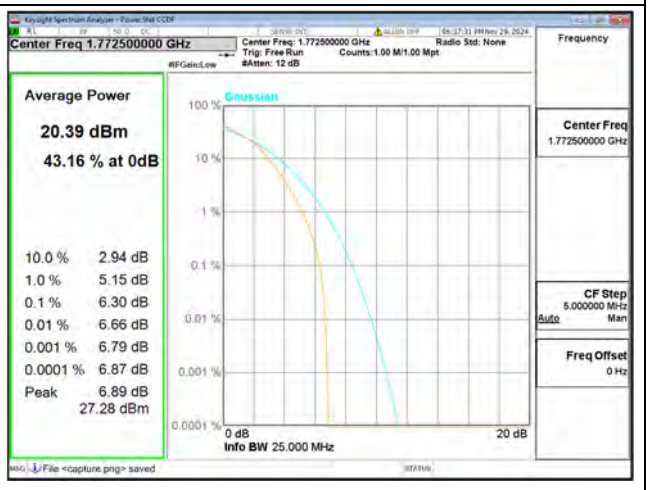

B66 / 15MHz / Mid CH / 64QAM



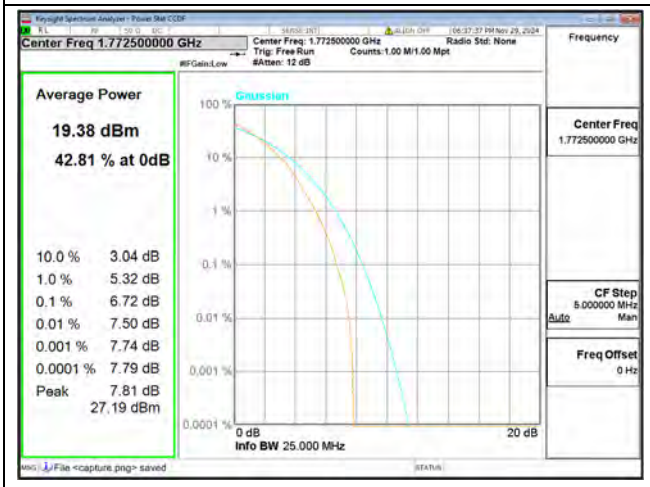

B66 / 15MHz / Mid CH / 256QAM



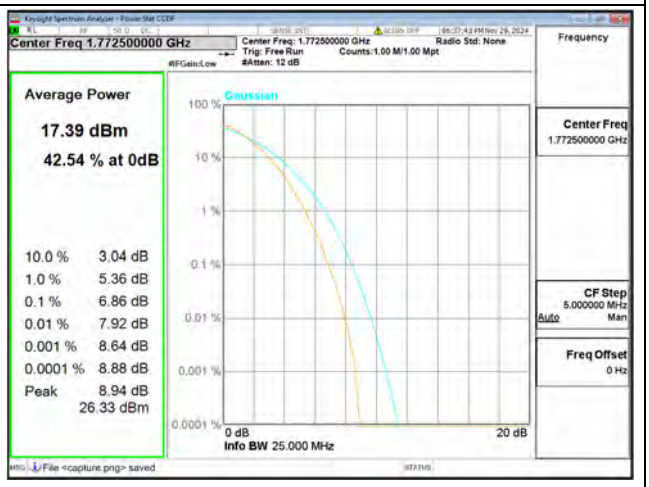

B66 / 15MHz / High CH / QPSK



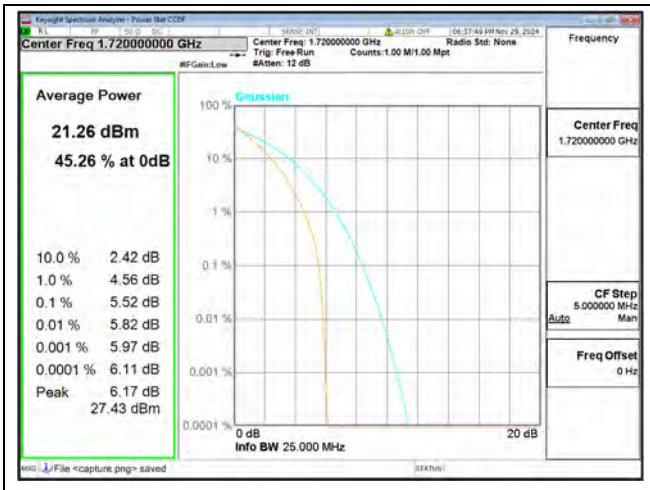

B66 / 15MHz / High CH / 16QAM



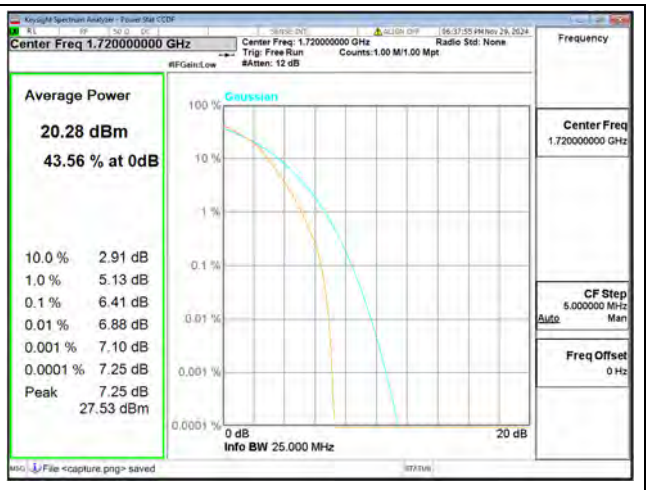

B66 / 15MHz / High CH / 64QAM



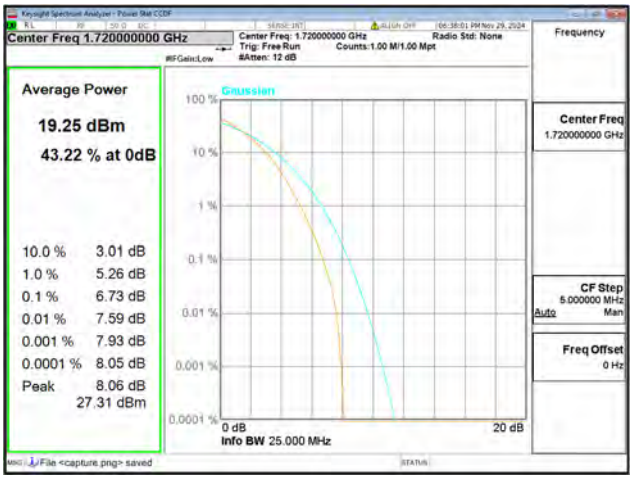

B66 / 15MHz / High CH / 256QAM



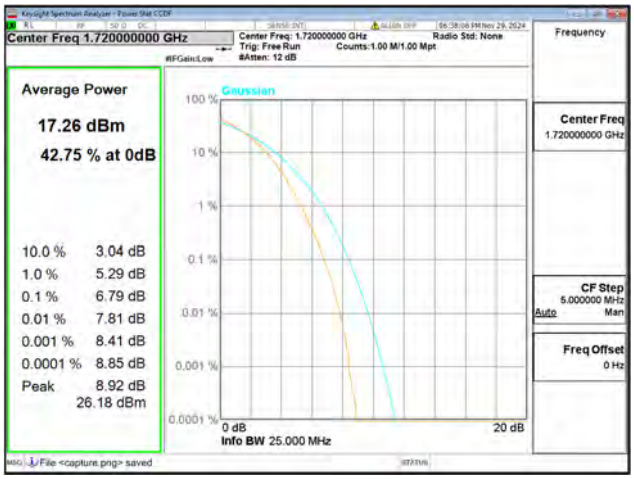

B66 / 20MHz / Low CH / QPSK



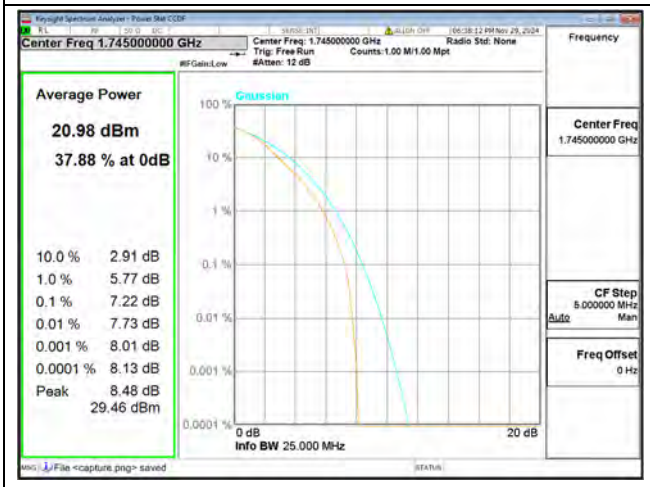

B66 / 20MHz / Low CH / 16QAM



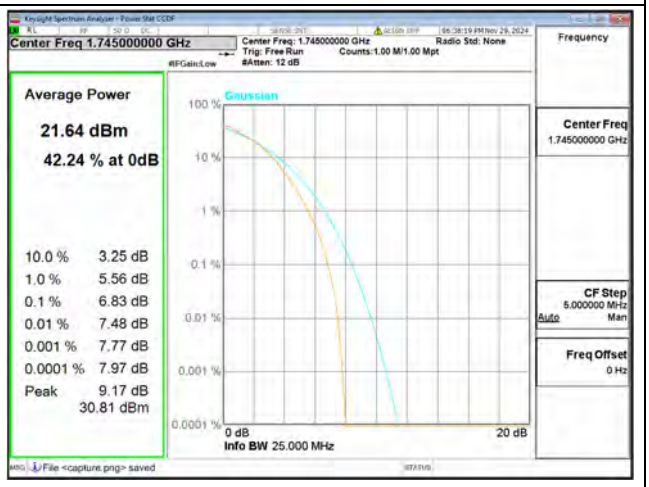

B66 / 20MHz / Low CH / 64QAM



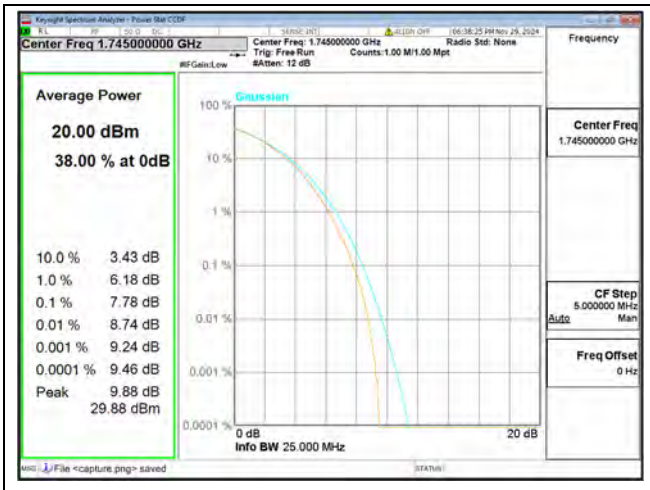

B66 / 20MHz / Low CH / 256QAM



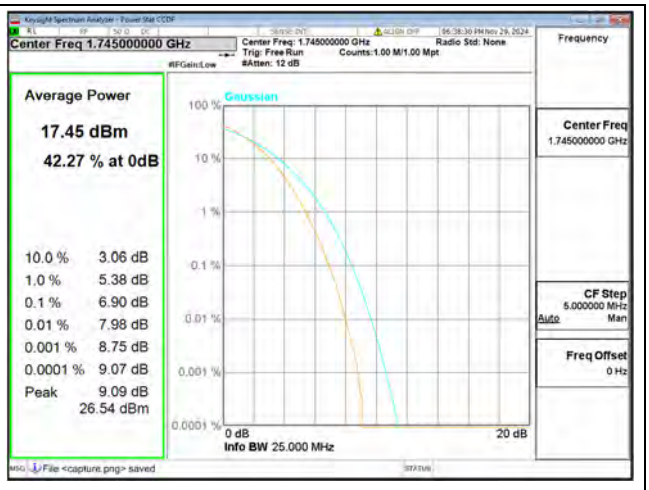

B66 / 20MHz / Mid CH / QPSK



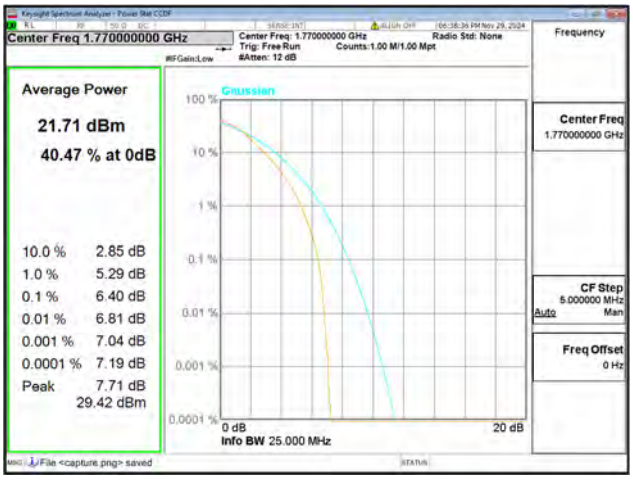

B66 / 20MHz / Mid CH / 16QAM



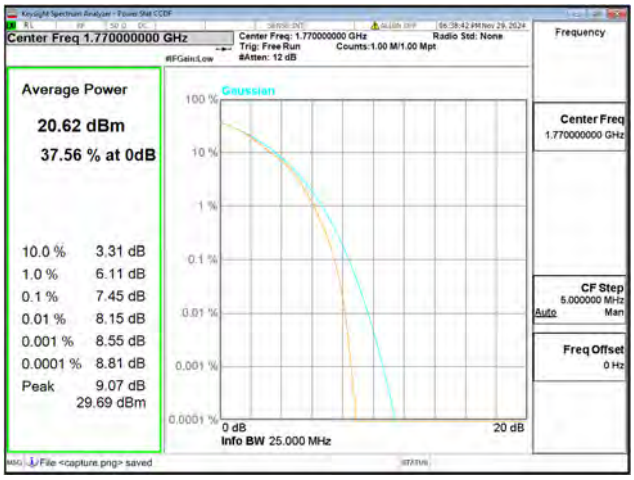

B66 / 20MHz / Mid CH / 64QAM



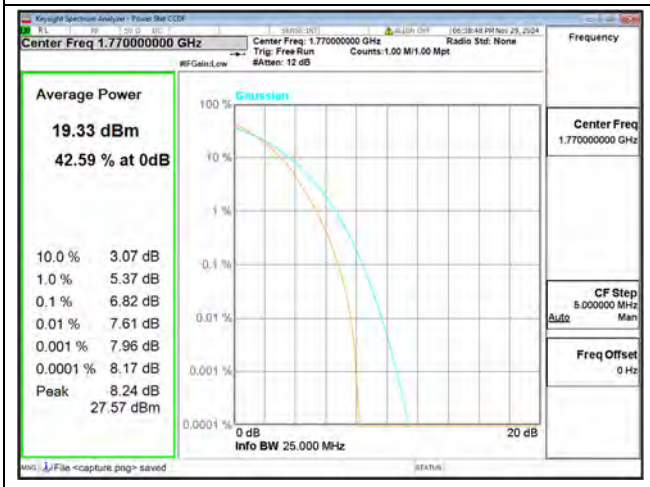

B66 / 20MHz / Mid CH / 256QAM



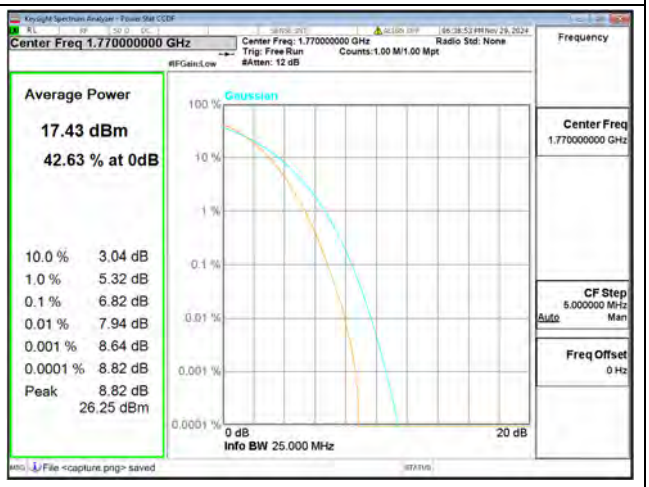

B66 / 20MHz / High CH / QPSK




B66 / 20MHz / High CH / 16QAM




B66 / 20MHz / High CH / 64QAM




B66 / 20MHz / High CH / 256QAM

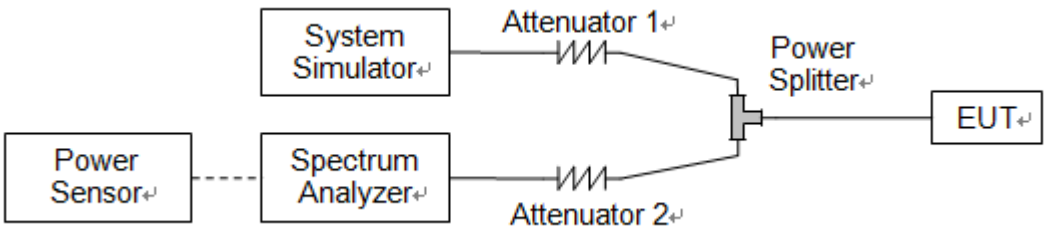
## 2.5. Conducted Spurious Emissions

### 2.5.1. Requirement

According to FCC section 2.1051, 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. This calculated to be -13dBm.

Additional requirement for LTE Band 7/41:
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 55 + 10 log(P) dB. This calculated to be -25dBm.
Additional requirement for LTE Band 30:
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 70 + 10 log (P) dB. This calculated to be -40dBm.

### 2.5.2. Test Description




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.

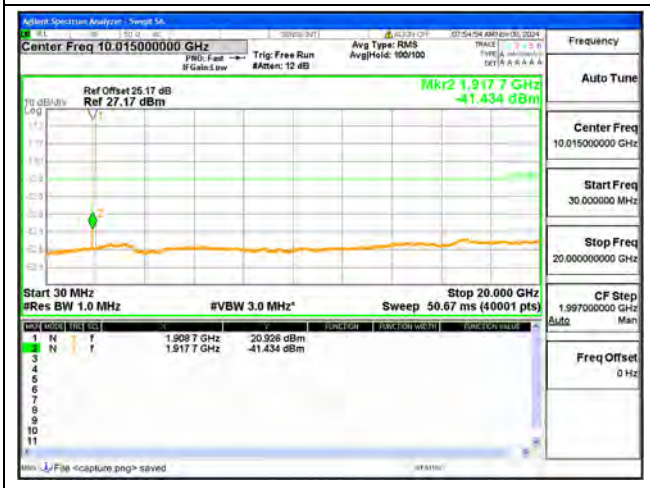
### 2.5.3. Test Procedure

KDB 971168 D01v03 Section 6.0 and ANSI/TIA-603-E-2016.

### 2.5.4. Test Result

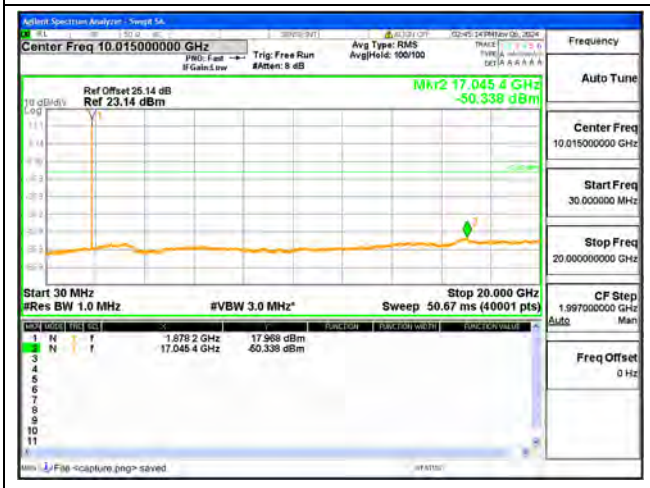
B2 / 1.4MHz / Low CH / QPSK

B2 / 1.4MHz / Mid CH / QPSK




B2 / 1.4MHz / High CH / QPSK

B2 / 3MHz / Low CH / QPSK




B2 / 3MHz / Mid CH / QPSK

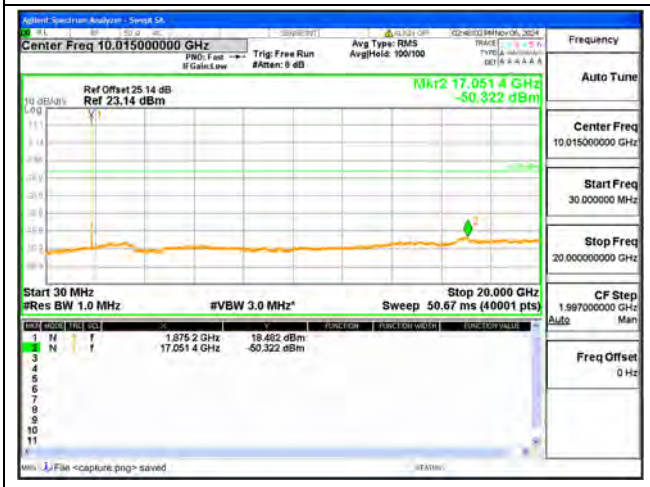
B2 / 3MHz / High CH / QPSK

B2 / 5MHz / Low CH / QPSK

B2 / 5MHz / Mid CH / QPSK

B2 / 5MHz / High CH / QPSK

B2 / 10MHz / Low CH / QPSK




B2 / 10MHz / Mid CH / QPSK

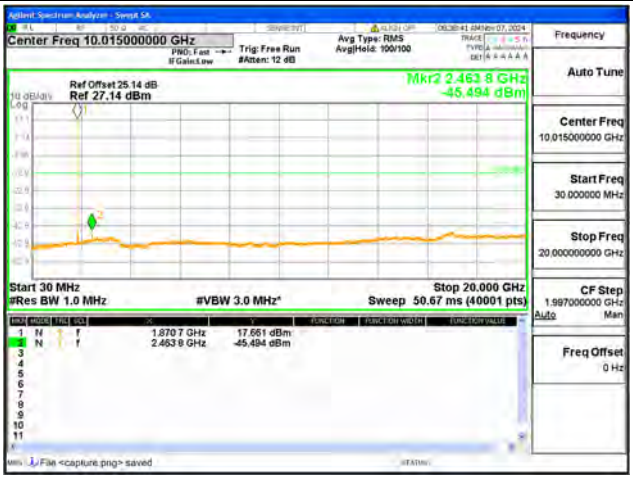
B2 / 10MHz / High CH / QPSK

B2 / 15MHz / Low CH / QPSK

B2 / 15MHz / Mid CH / QPSK

B2 / 15MHz / High CH / QPSK

B2 / 20MHz / Low CH / QPSK




B2 / 20MHz / Mid CH / QPSK

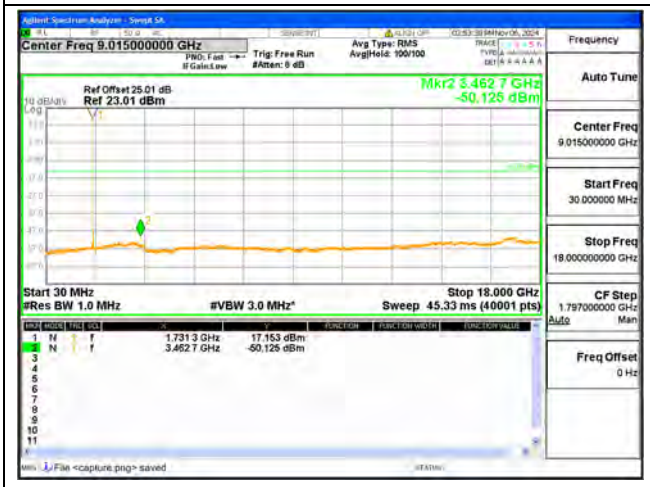
B2 / 20MHz / High CH / QPSK

B4 / 1.4MHz / Low CH / QPSK

B4 / 1.4MHz / Mid CH / QPSK

B4 / 1.4MHz / High CH / QPSK

B4 / 3MHz / Low CH / QPSK




B4 / 3MHz / Mid CH / QPSK

B4 / 3MHz / High CH / QPSK

B4 / 5MHz / Low CH / QPSK

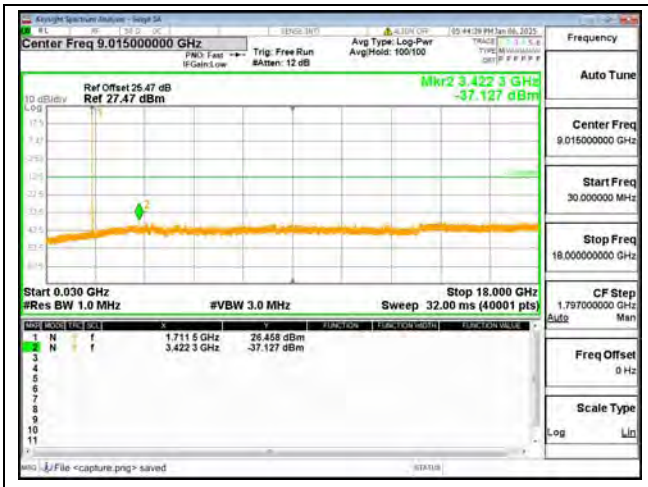
B4 / 5MHz / Mid CH / QPSK

B4 / 5MHz / High CH / QPSK

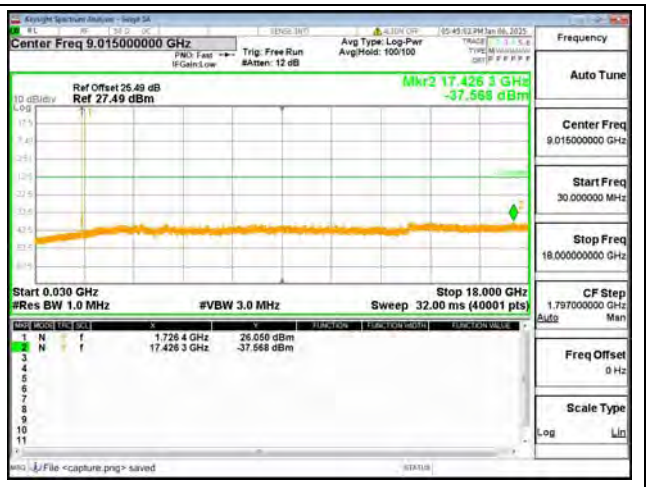
B4 / 10MHz / Low CH / QPSK

B4 / 10MHz / Mid CH / QPSK

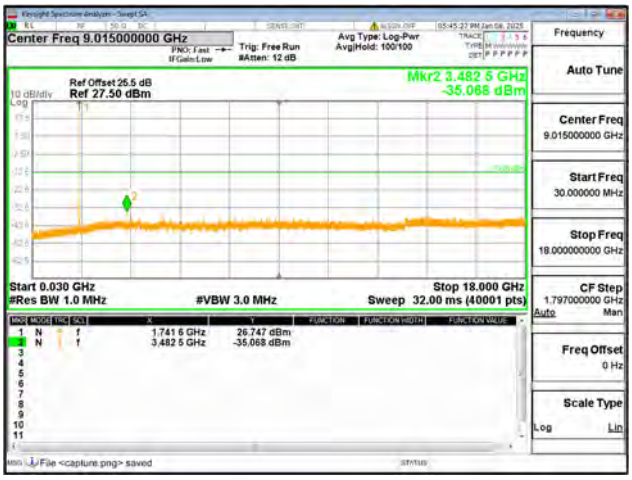
B4 / 10MHz / High CH / QPSK



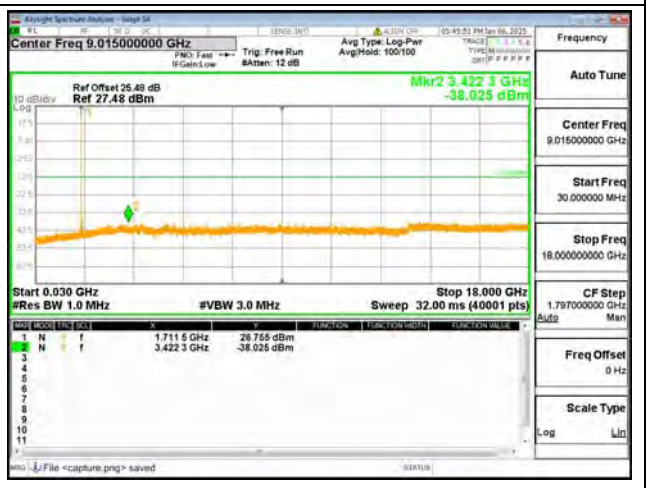

B4 / 15MHz / Low CH / QPSK



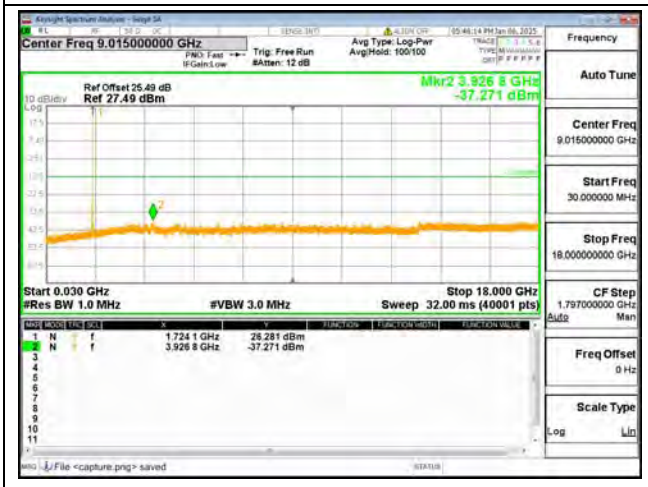

B4 / 15MHz / Mid CH / QPSK




B4 / 15MHz / High CH / QPSK




B4 / 20MHz / Low CH / QPSK



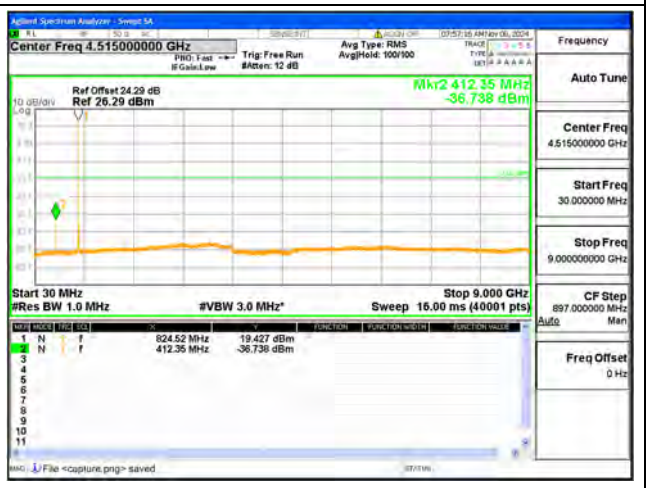

B4 / 20MHz / Mid CH / QPSK

B4 / 20MHz / High CH / QPSK

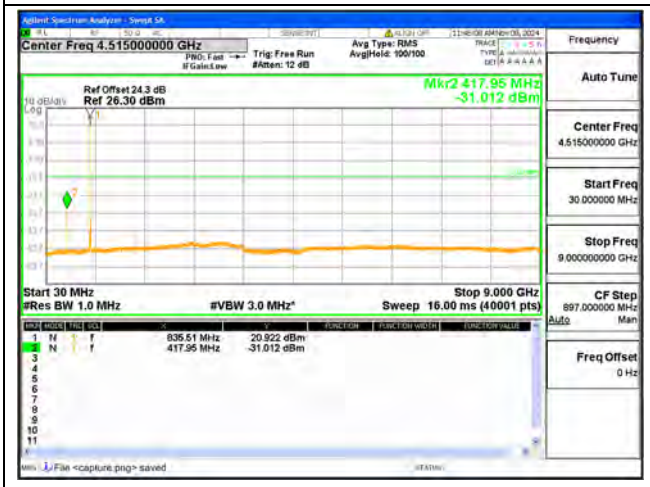
B5 / 1.4MHz / Low CH / QPSK

B5 / 1.4MHz / Mid CH / QPSK

B5 / 1.4MHz / High CH / QPSK




B5 / 3MHz / Low CH / QPSK




B5 / 3MHz / Mid CH / QPSK

B5 / 3MHz / High CH / QPSK