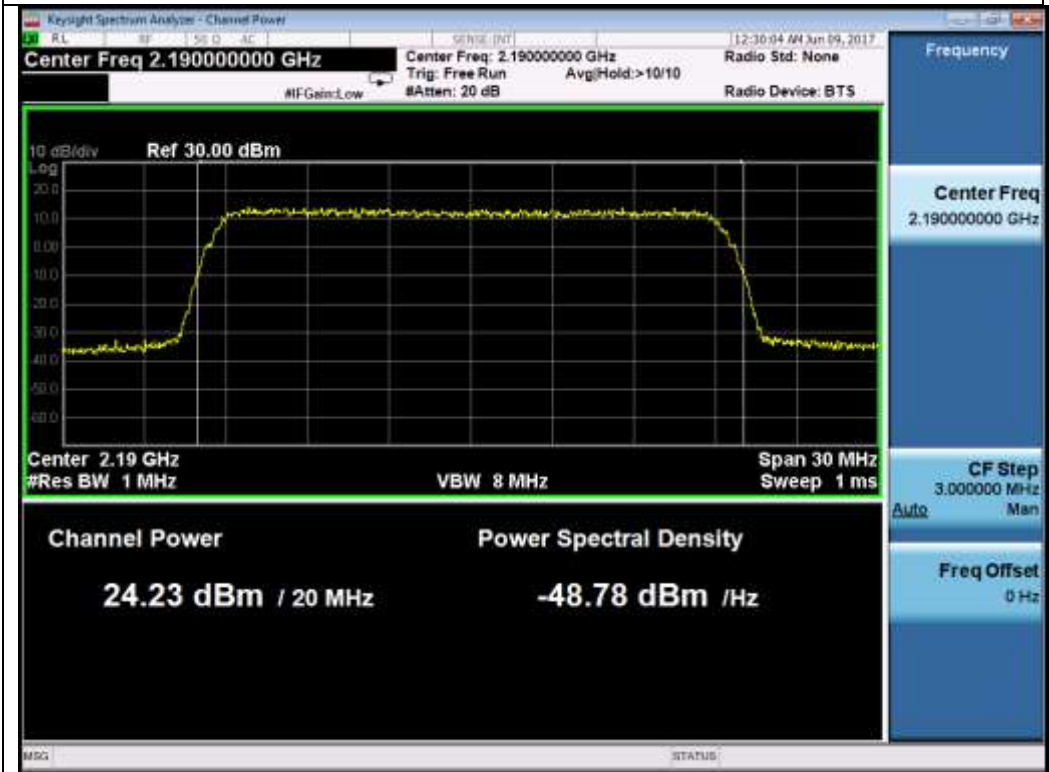
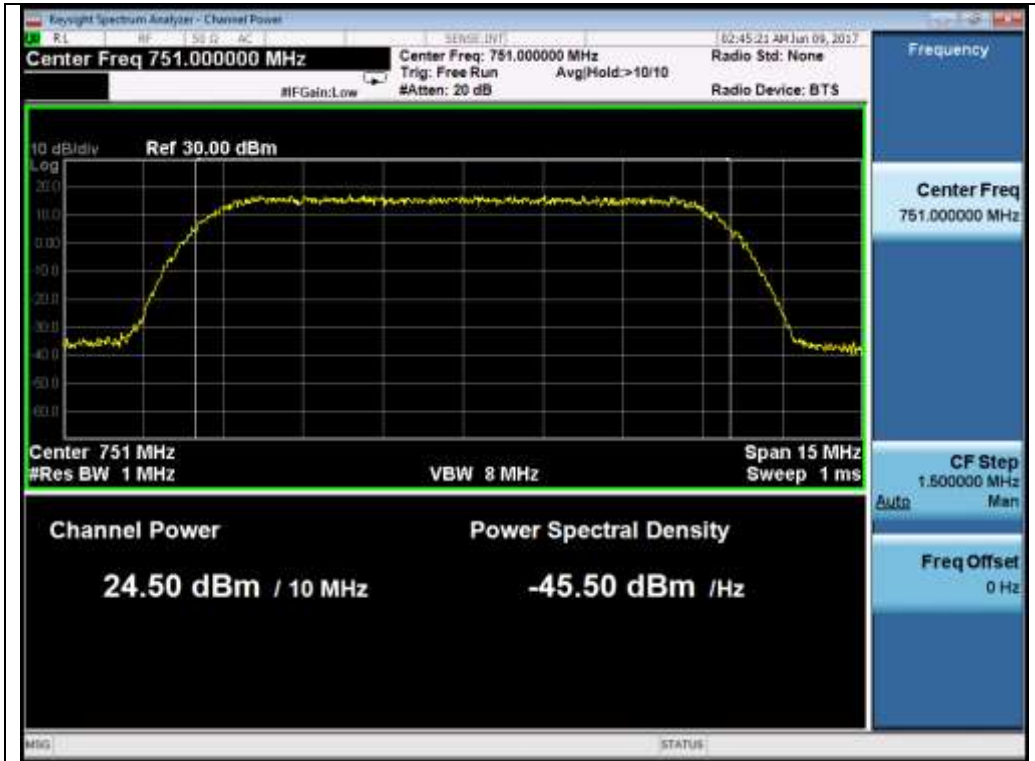


15M 64QAM High

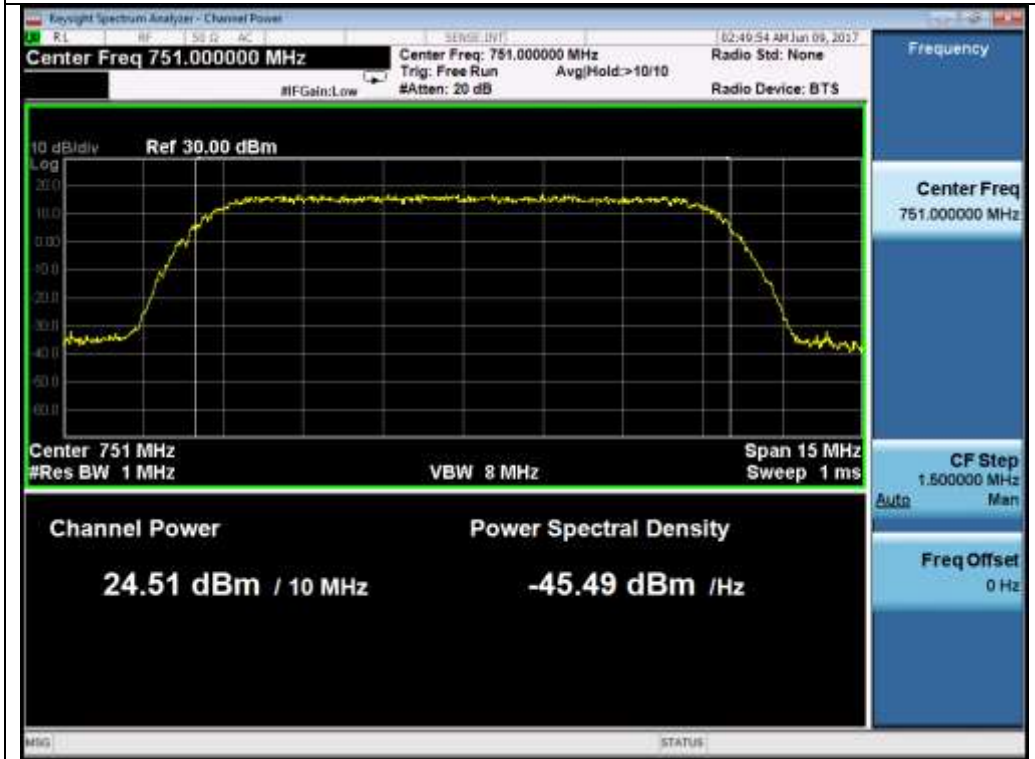


20M 64QAM High

Test Plots for Band 13
Chain 1:

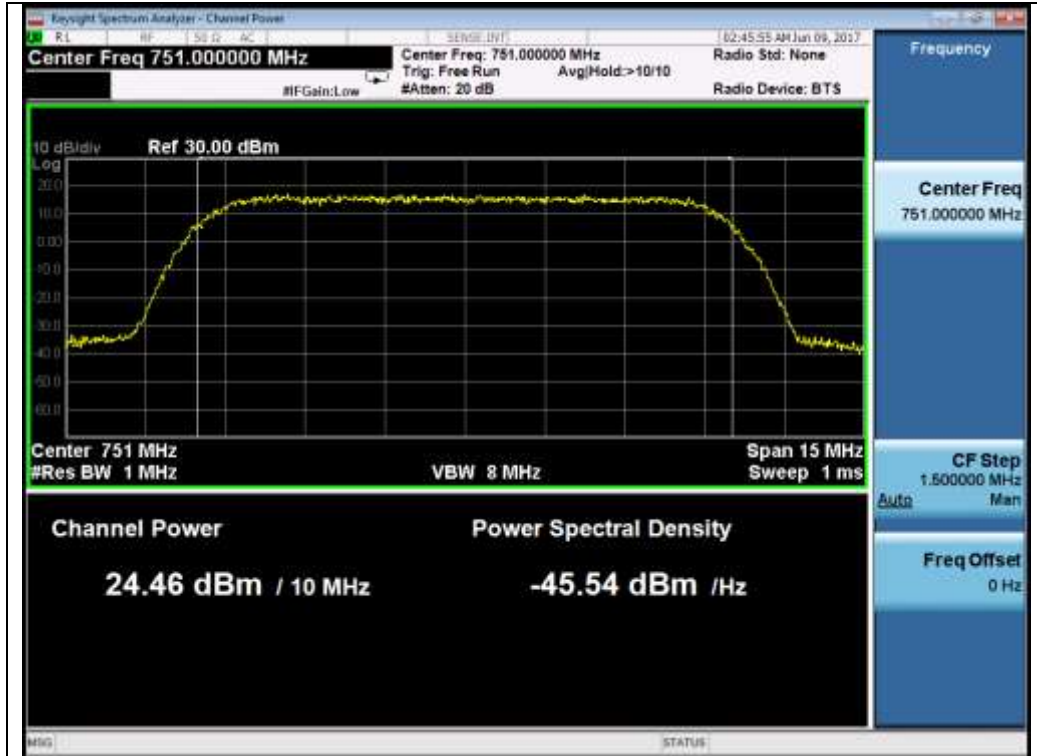


10M QPSK Mid

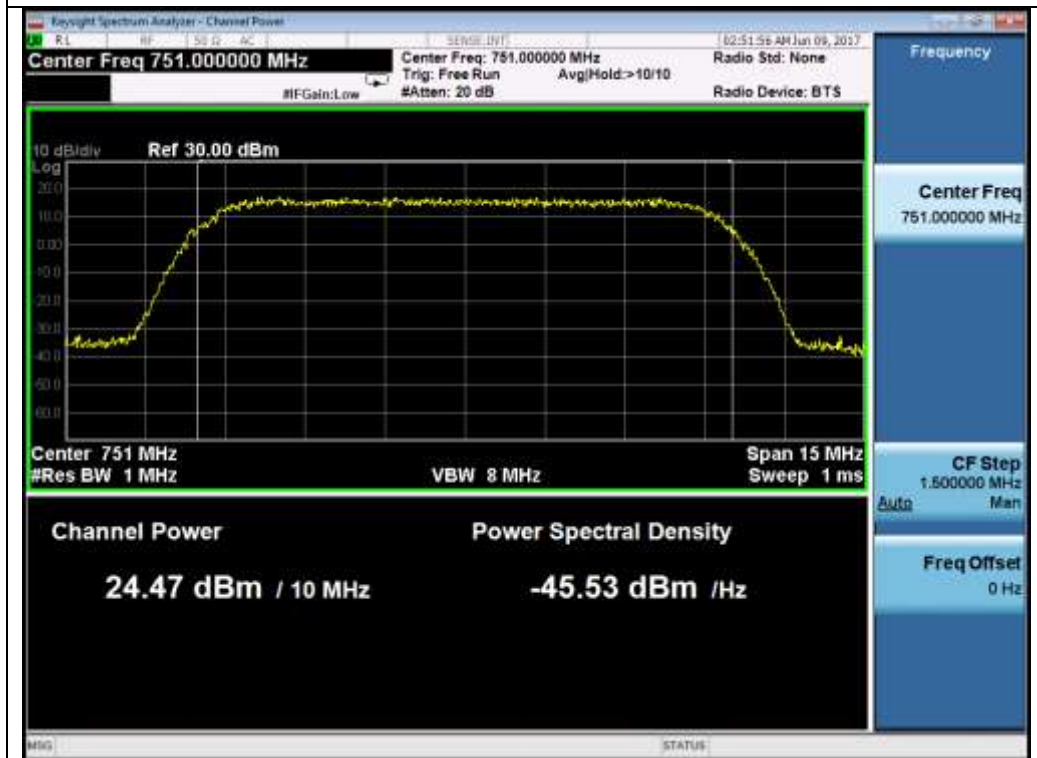


10M 64QAM Mid

Chain 2:



10M QPSK Mid



10M 64QAM Mid

Test Data for LTE band 2:

| Type | Channel | Frequency (MHz) | Peak-Average Ratio (dB) | Limit (dB) |
|-----------------|---------|-----------------|-------------------------|------------|
| 5MHz BW, QPSK | Low | 1932.5 | 8.18 | 13 |
| | Mid | 1960 | 8.16 | 13 |
| | High | 1987.5 | 8.17 | 13 |
| 5MHz BW, 64QAM | Low | 1932.5 | 8.22 | 13 |
| | Mid | 1960 | 8.26 | 13 |
| | High | 1987.5 | 8.12 | 13 |
| 10MHz BW, QPSK | Low | 1935 | 7.70 | 13 |
| | Mid | 1960 | 7.84 | 13 |
| | High | 1985 | 7.57 | 13 |
| 10MHz BW, 64QAM | Low | 1935 | 7.78 | 13 |
| | Mid | 1960 | 7.70 | 13 |
| | High | 1985 | 7.66 | 13 |
| 15MHz BW, QPSK | Low | 1937.5 | 8.92 | 13 |
| | Mid | 1960 | 8.86 | 13 |
| | High | 1982.5 | 8.86 | 13 |
| 15MHz BW, 64QAM | Low | 1937.5 | 8.81 | 13 |
| | Mid | 1960 | 8.85 | 13 |
| | High | 1982.5 | 8.83 | 13 |
| 20MHz BW, QPSK | Low | 1940 | 9.51 | 13 |
| | Mid | 1960 | 9.59 | 13 |
| | High | 1980 | 9.62 | 13 |
| 20MHz BW, 64QAM | Low | 1940 | 9.41 | 13 |
| | Mid | 1960 | 9.41 | 13 |
| | High | 1980 | 9.35 | 13 |

Test Data for LTE band 4:

| Type | Channel | Frequency (MHz) | Peak-Average Ratio (dB) | Limit (dB) |
|-----------------|---------|-----------------|-------------------------|------------|
| 5MHz BW, QPSK | Low | 2112.5 | 8.17 | 13 |
| | Mid | 2132.5 | 8.26 | 13 |
| | High | 2152.5 | 8.16 | 13 |
| 5MHz BW, 64QAM | Low | 2112.5 | 8.26 | 13 |
| | Mid | 2132.5 | 8.32 | 13 |
| | High | 2152.5 | 8.22 | 13 |
| 10MHz BW, QPSK | Low | 2115.0 | 7.72 | 13 |
| | Mid | 2132.5 | 7.70 | 13 |
| | High | 2150.0 | 7.75 | 13 |
| 10MHz BW, 64QAM | Low | 2115.0 | 7.77 | 13 |
| | Mid | 2132.5 | 7.73 | 13 |
| | High | 2150.0 | 7.71 | 13 |
| 15MHz BW, QPSK | Low | 2117.5 | 8.90 | 13 |
| | Mid | 2132.5 | 8.89 | 13 |
| | High | 2147.5 | 8.92 | 13 |
| 15MHz BW, 64QAM | Low | 2117.5 | 8.86 | 13 |
| | Mid | 2132.5 | 8.83 | 13 |
| | High | 2147.5 | 8.83 | 13 |
| 20MHz BW, QPSK | Low | 2120.0 | 9.51 | 13 |
| | Mid | 2132.5 | 9.57 | 13 |
| | High | 2145.0 | 9.61 | 13 |
| 20MHz BW, 64QAM | Low | 2120.0 | 9.35 | 13 |
| | Mid | 2132.5 | 9.44 | 13 |
| | High | 2145.0 | 9.38 | 13 |

Test Data for LTE band 25:

| Type | Channel | Frequency (MHz) | Peak-Average Ratio (dB) | Limit (dB) |
|-----------------|---------|-----------------|-------------------------|------------|
| 5MHz BW, QPSK | High | 1992.5 | 8.09 | 13 |
| 5MHz BW, 64QAM | High | 1992.5 | 8.05 | 13 |
| 10MHz BW, QPSK | High | 1990 | 7.77 | 13 |
| 10MHz BW, 64QAM | High | 1990 | 7.73 | 13 |
| 15MHz BW, QPSK | High | 1987.5 | 8.86 | 13 |
| 15MHz BW, 64QAM | High | 1987.5 | 8.83 | 13 |
| 20MHz BW, QPSK | High | 1985 | 9.58 | 13 |
| 20MHz BW, 64QAM | High | 1985 | 9.37 | 13 |

Test Data for LTE band 66:

| Type | Channel | Frequency (MHz) | Peak-Average Ratio (dB) | Limit (dB) |
|-----------------|---------|-----------------|-------------------------|------------|
| 5MHz BW, QPSK | High | 2197.5 | 8.08 | 13 |
| 5MHz BW, 64QAM | High | 2197.5 | 8.16 | 13 |
| 10MHz BW, QPSK | High | 2195 | 7.87 | 13 |
| 10MHz BW, 64QAM | High | 2195 | 7.75 | 13 |
| 15MHz BW, QPSK | High | 2192.5 | 9.00 | 13 |
| 15MHz BW, 64QAM | High | 2192.5 | 9.53 | 13 |
| 20MHz BW, QPSK | High | 2190 | 9.68 | 13 |
| 20MHz BW, 64QAM | High | 2190 | 9.66 | 13 |

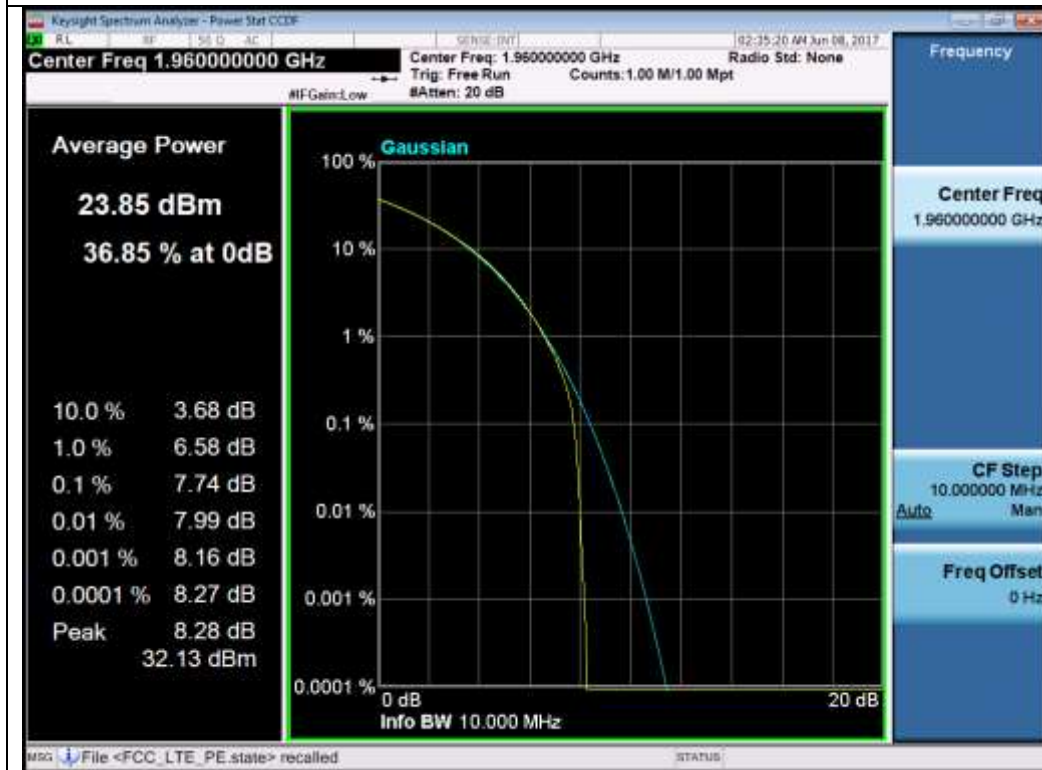
Test Data for LTE band 13:

| Type | Channel | Frequency (MHz) | Peak-Average Ratio (dB) | Limit (dB) |
|-----------------|---------|-----------------|-------------------------|------------|
| 10MHz BW, QPSK | Mid | 751 | 7.94 | 13 |
| 10MHz BW, 64QAM | Mid | 751 | 7.98 | 13 |

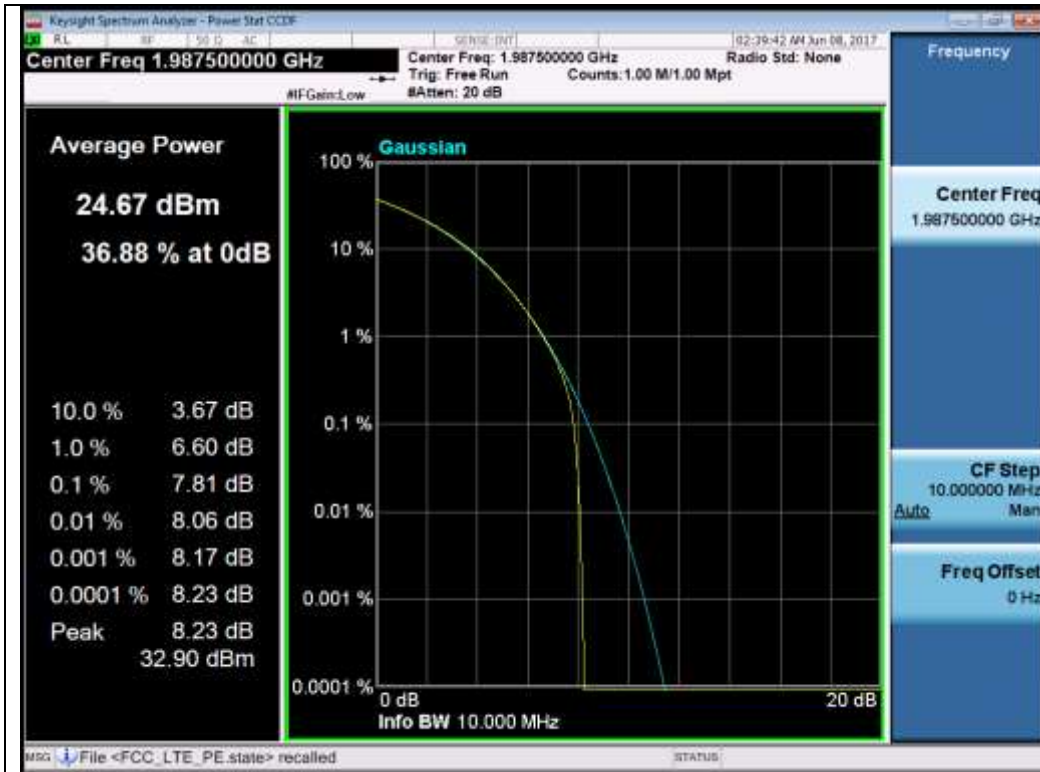
Test Plots for LTE band 2:



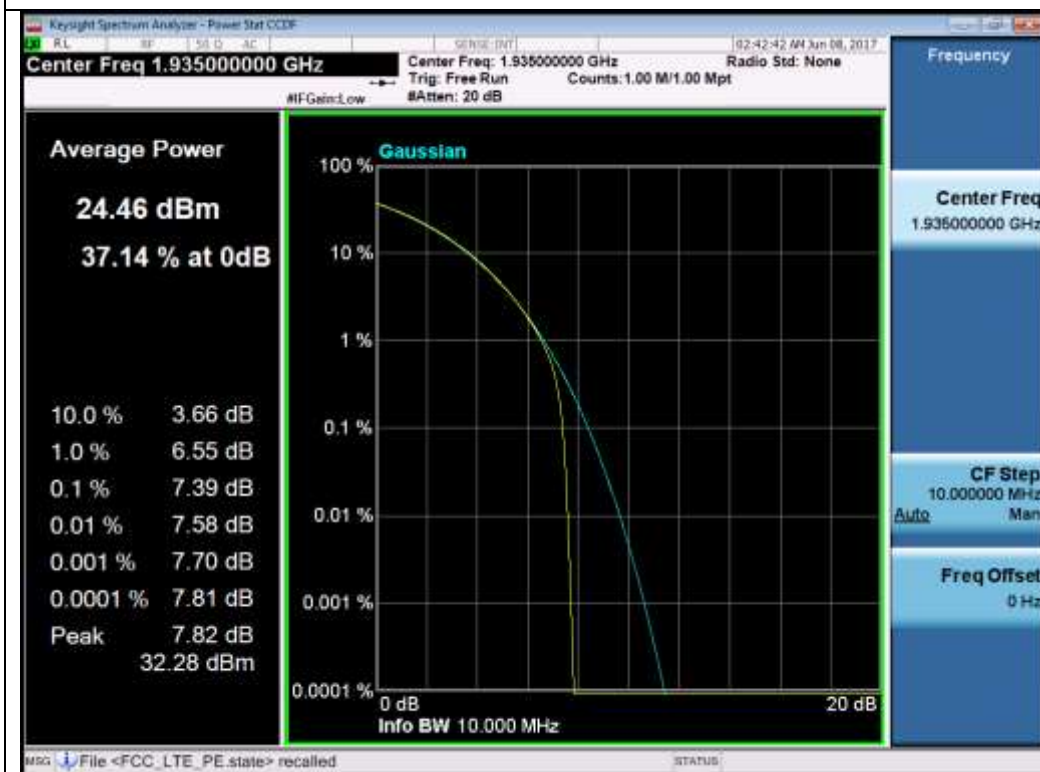
BW 5M QPSK Low



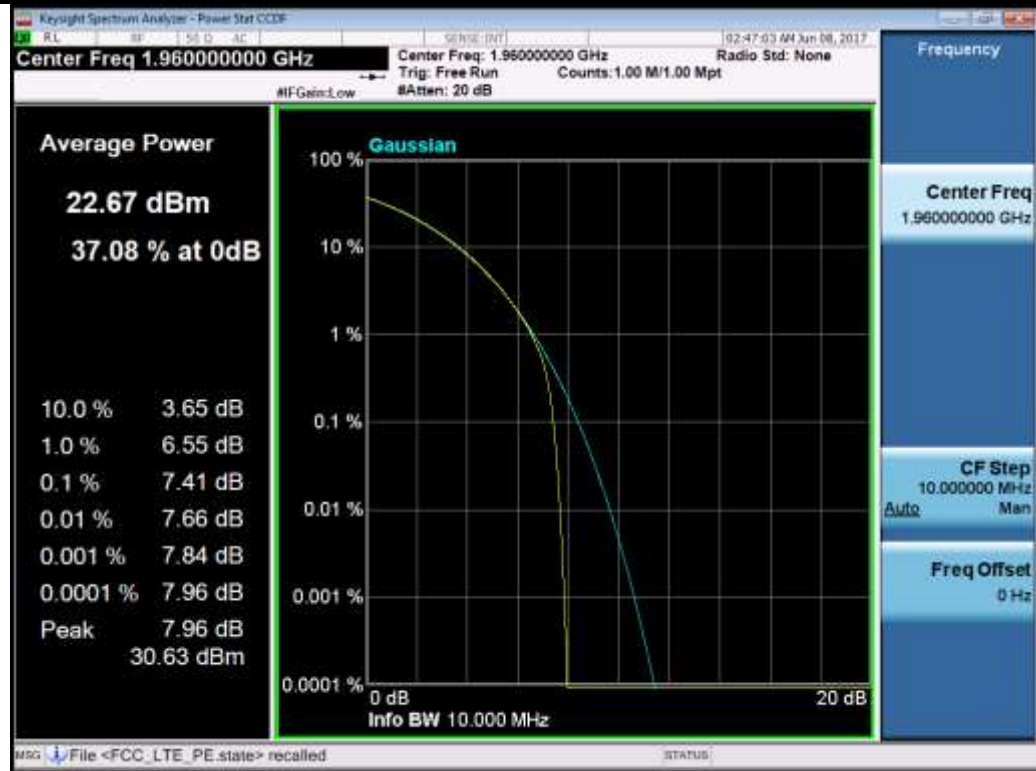
BW 5M QPSK Mid



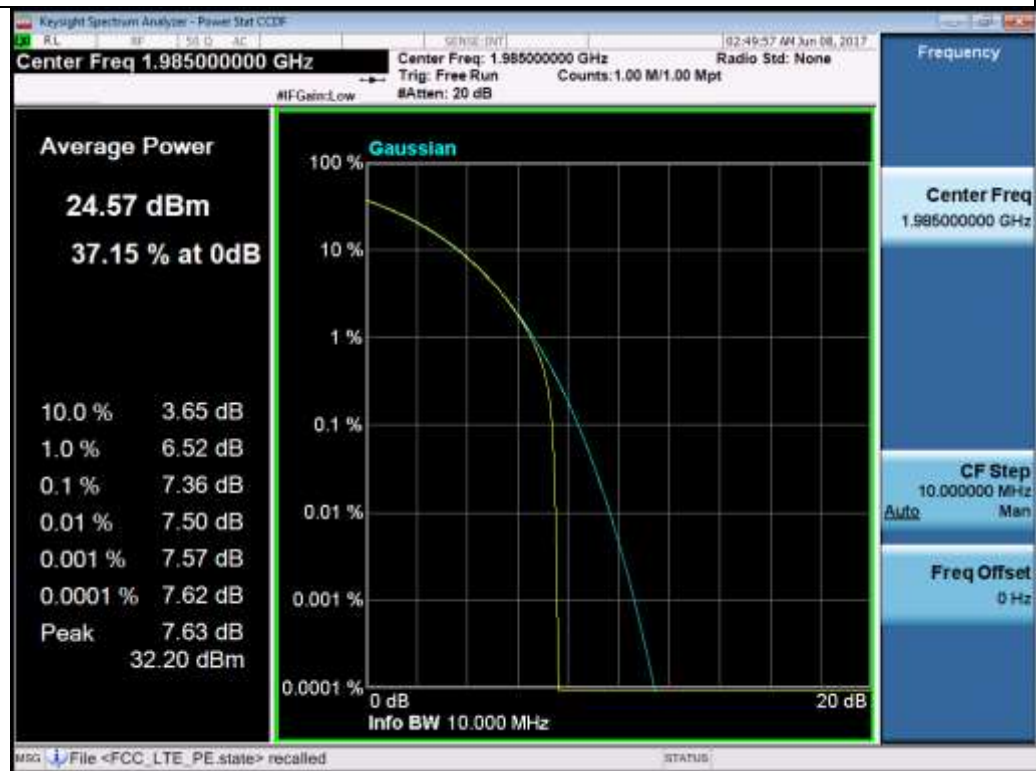
BW 5M QPSK High



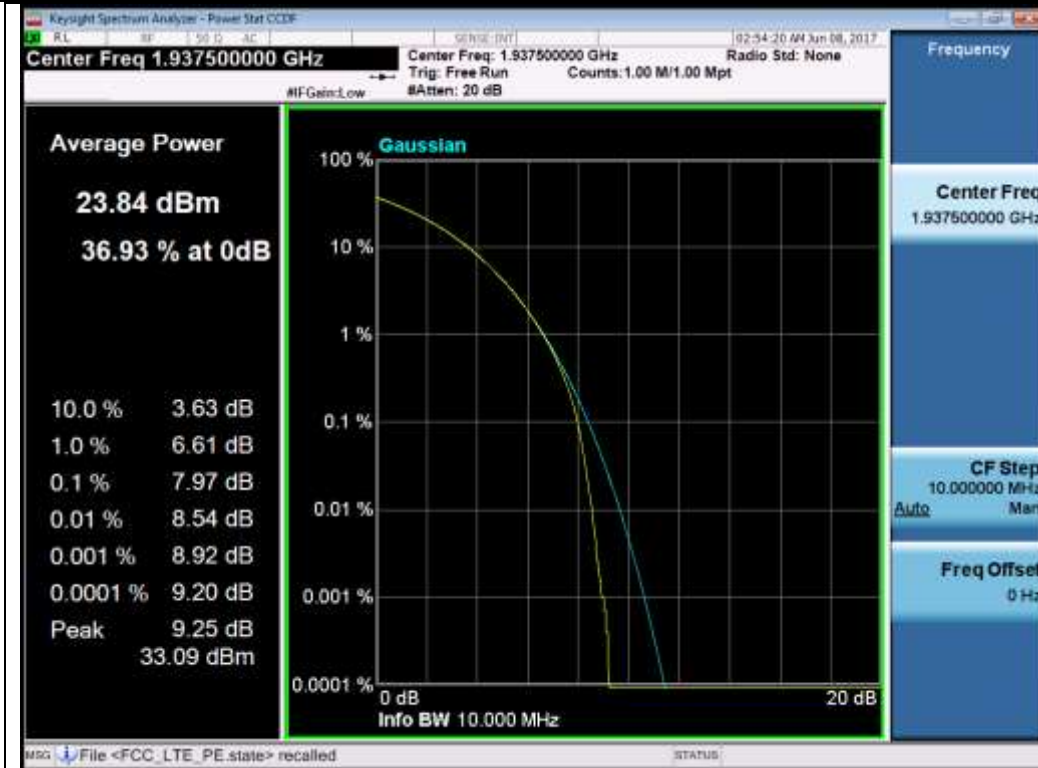
BW 10M QPSK Low



BW 10M QPSK Mid



BW 10M QPSK High



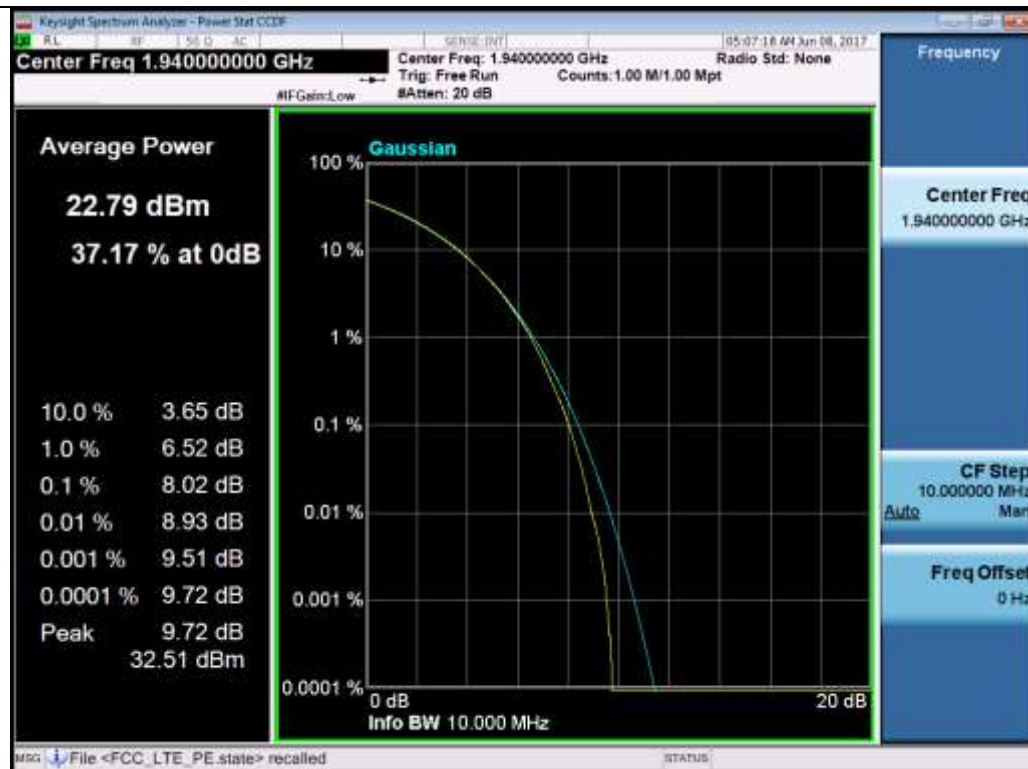
BW 15M QPSK Low



BW 15M QPSK Mid



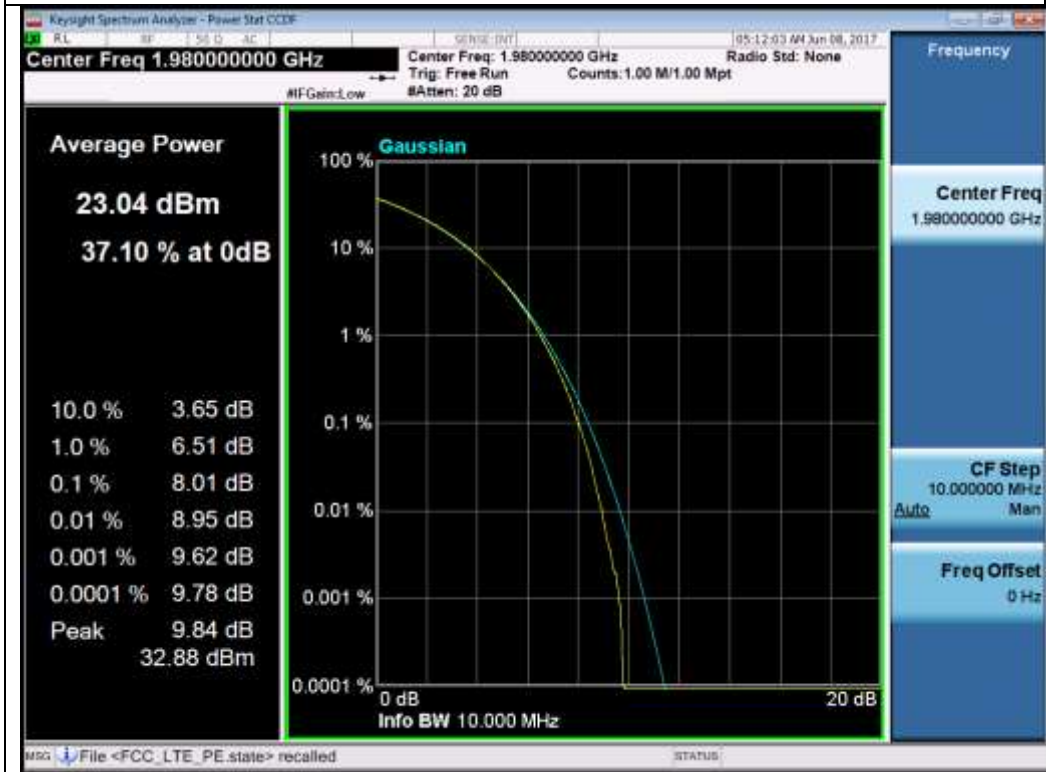
BW 15M QPSK High



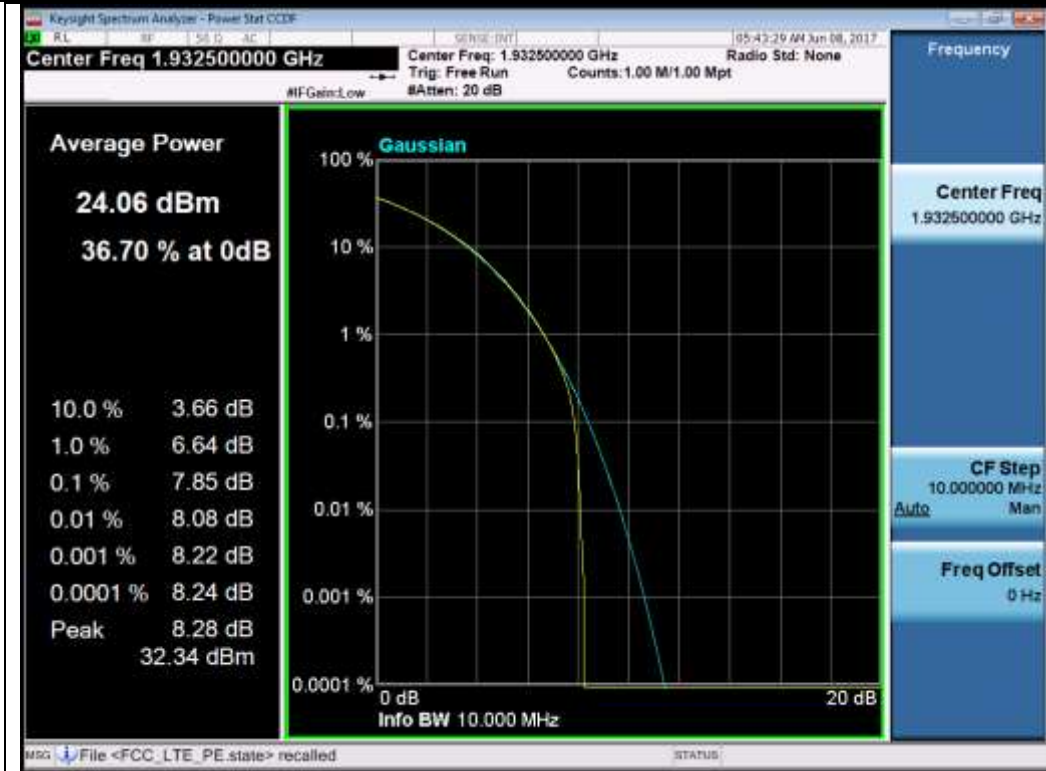
BW 20M QPSK Low



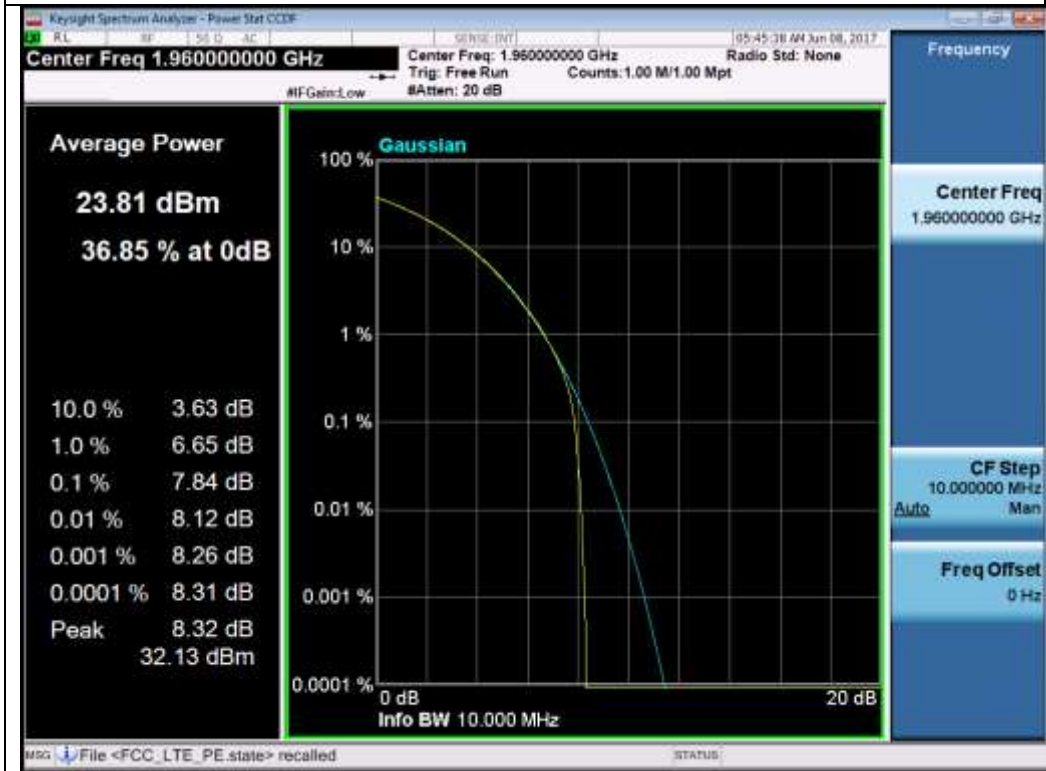
BW 20M QPSK Mid



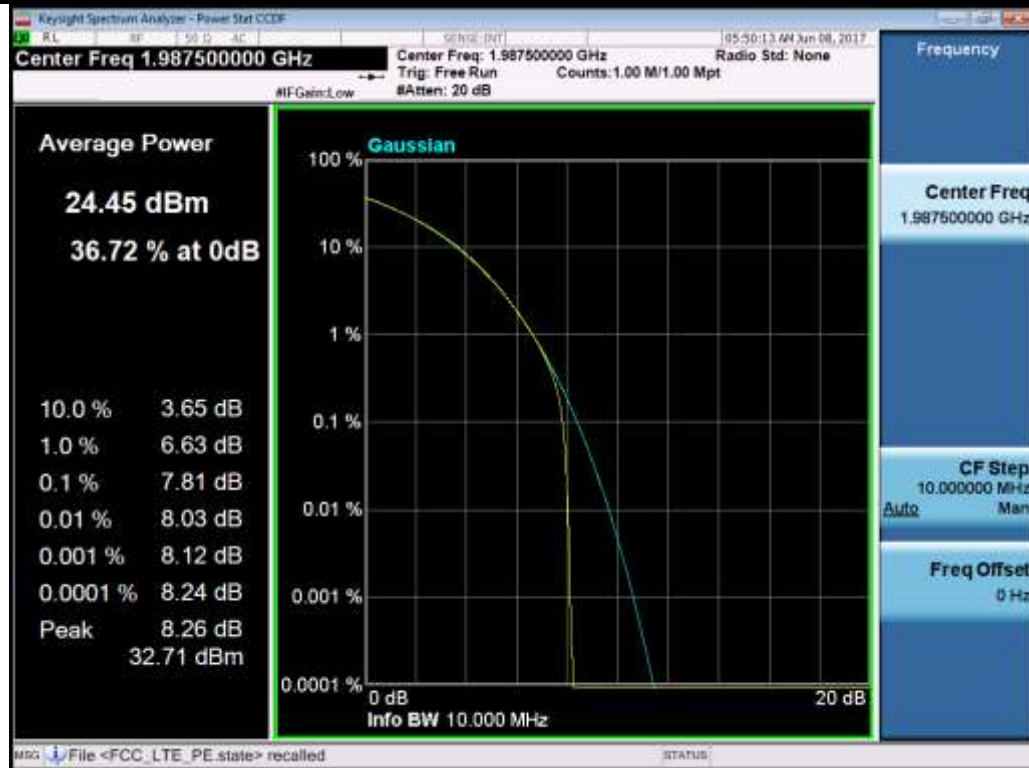
BW 20M QPSK High



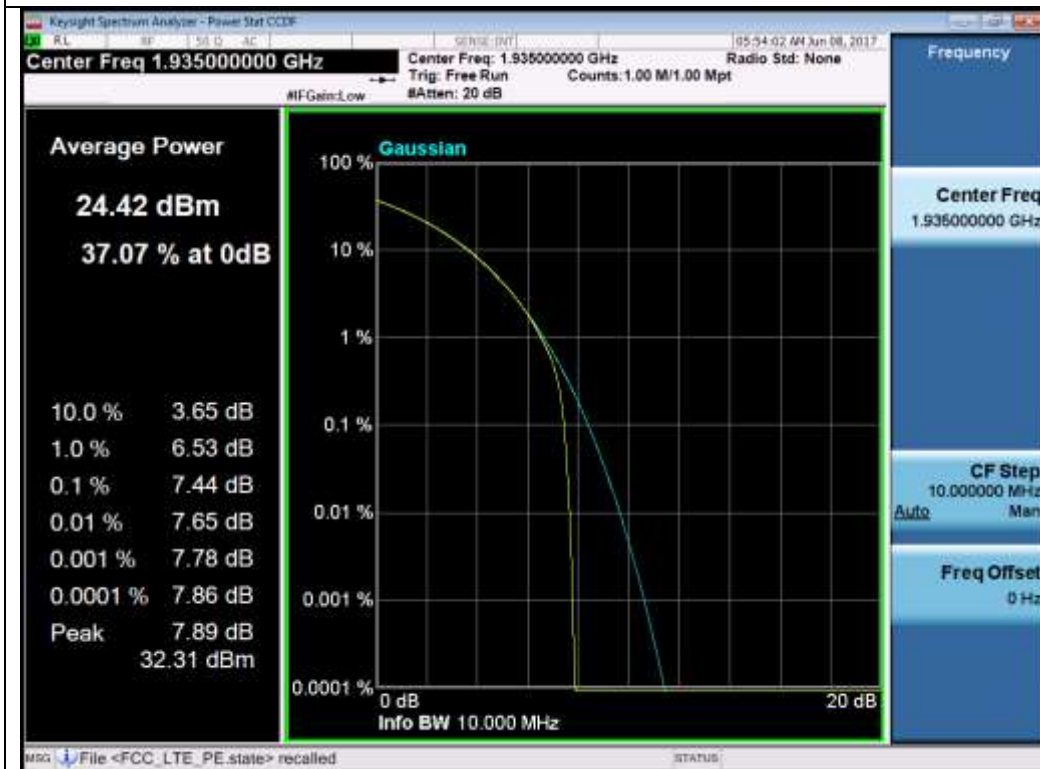
BW 5M 64QAM Low



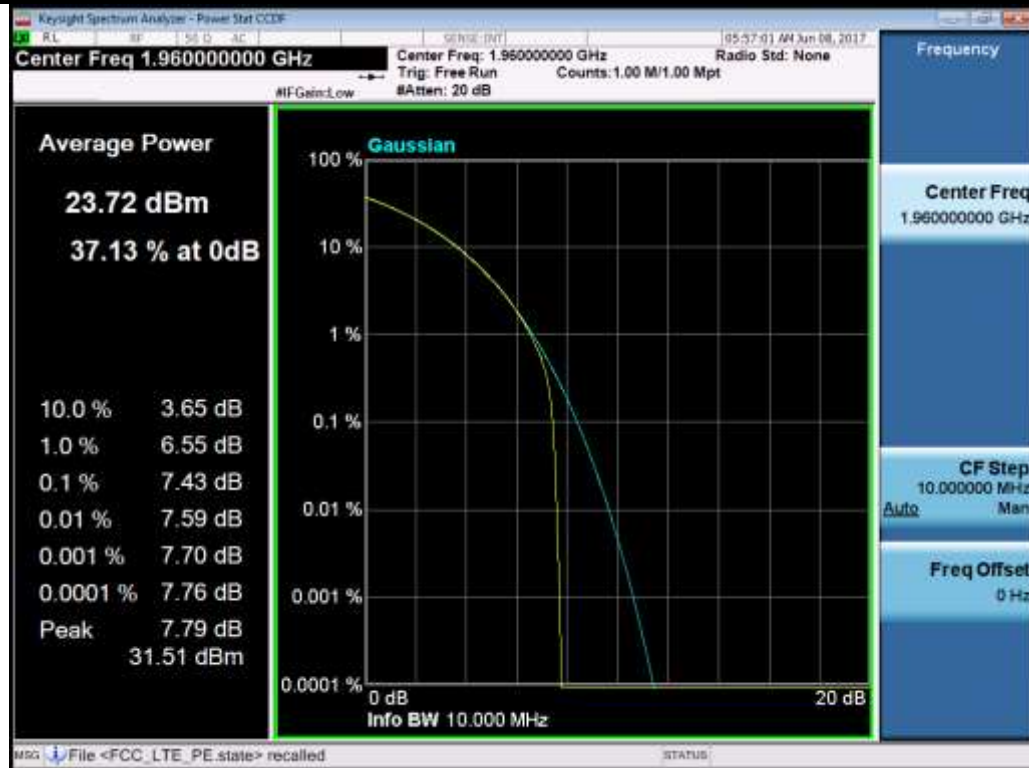
BW 5M 64QAM Mid



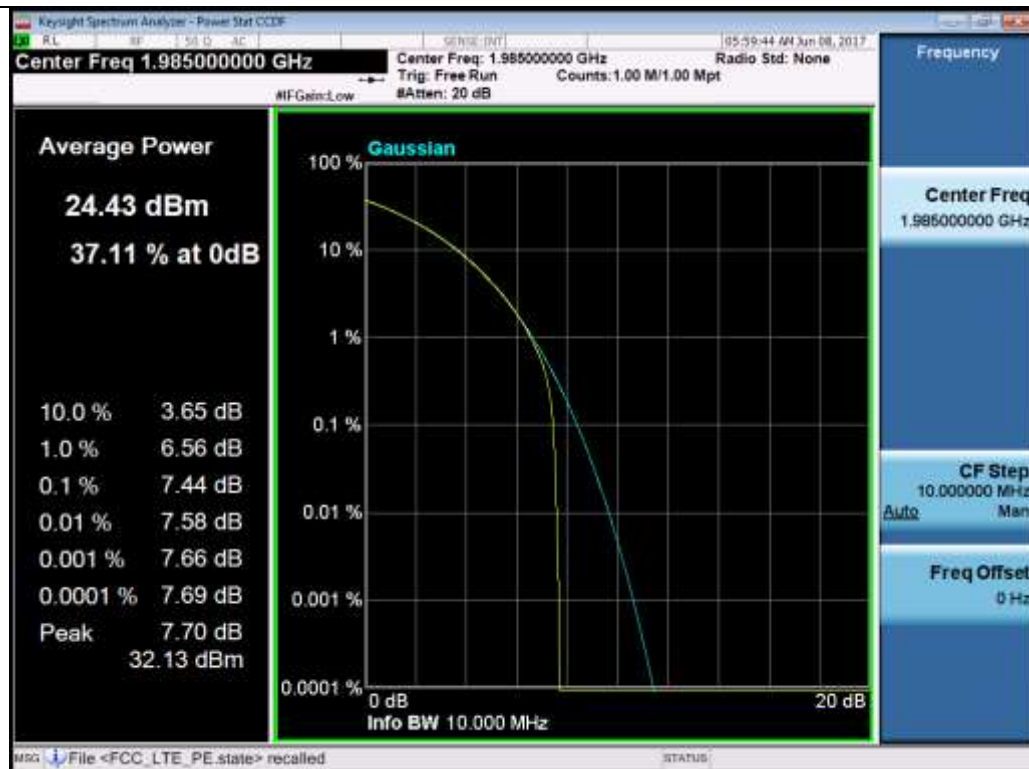
BW 5M 64QAM High



BW 10M 64QAM Low



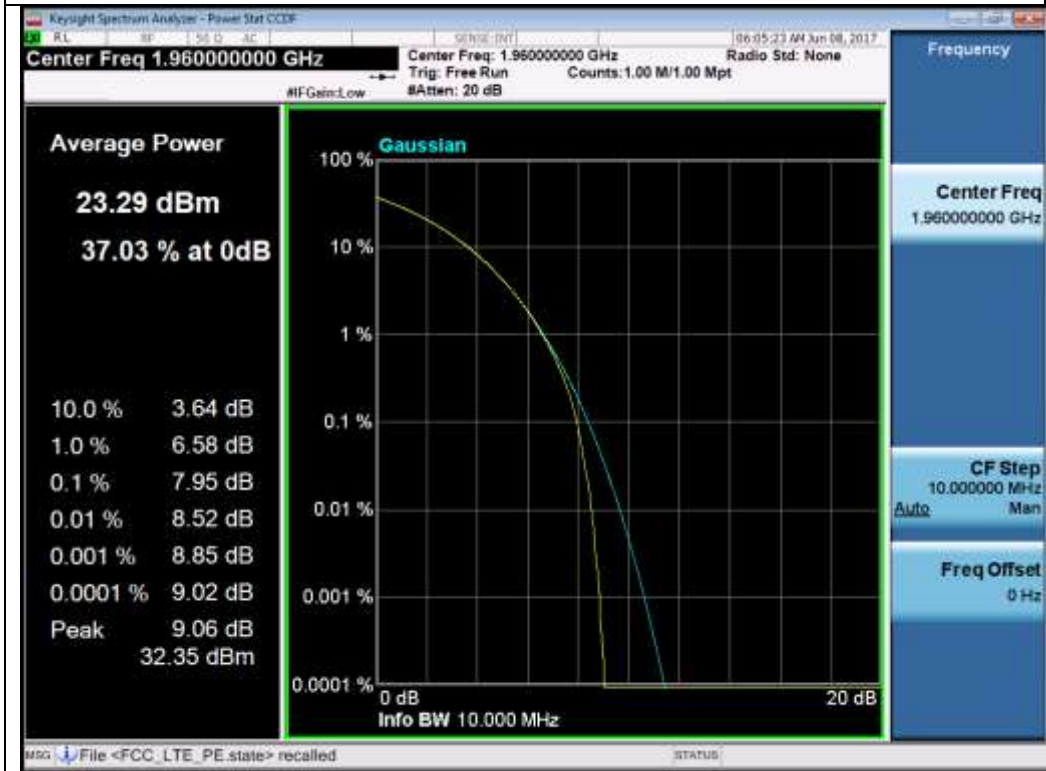
BW 10M 64QAM Mid



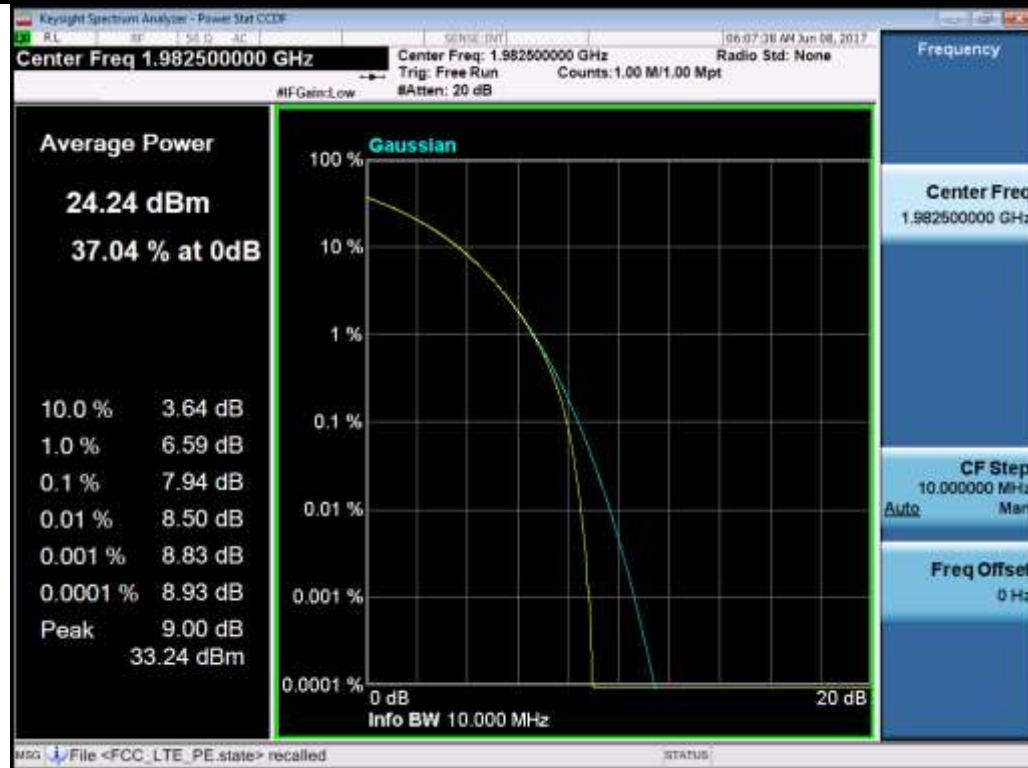
BW 10M 64QAM High



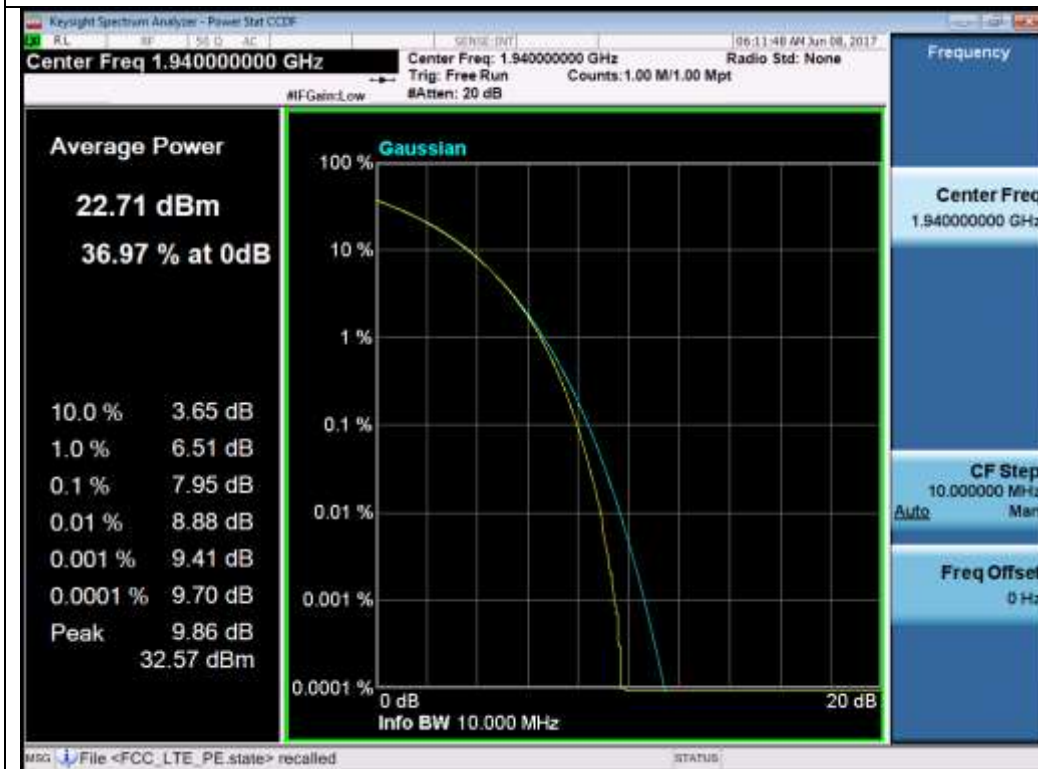
BW 15M 64QAM Low



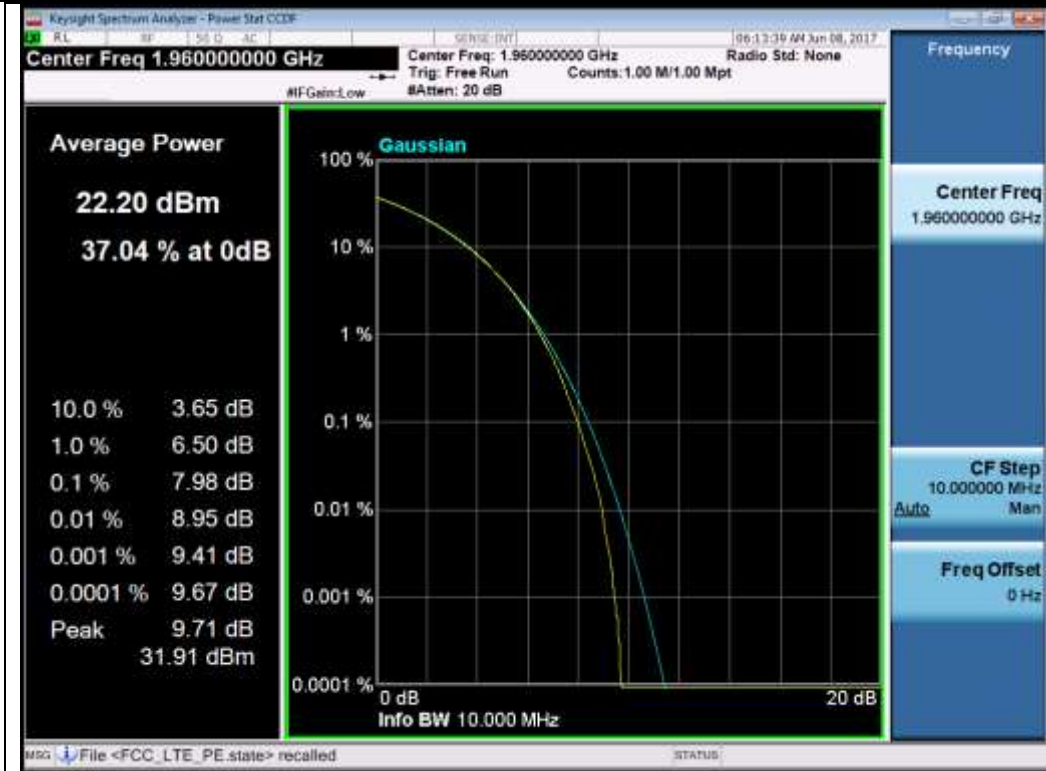
BW 15M 64QAM Mid



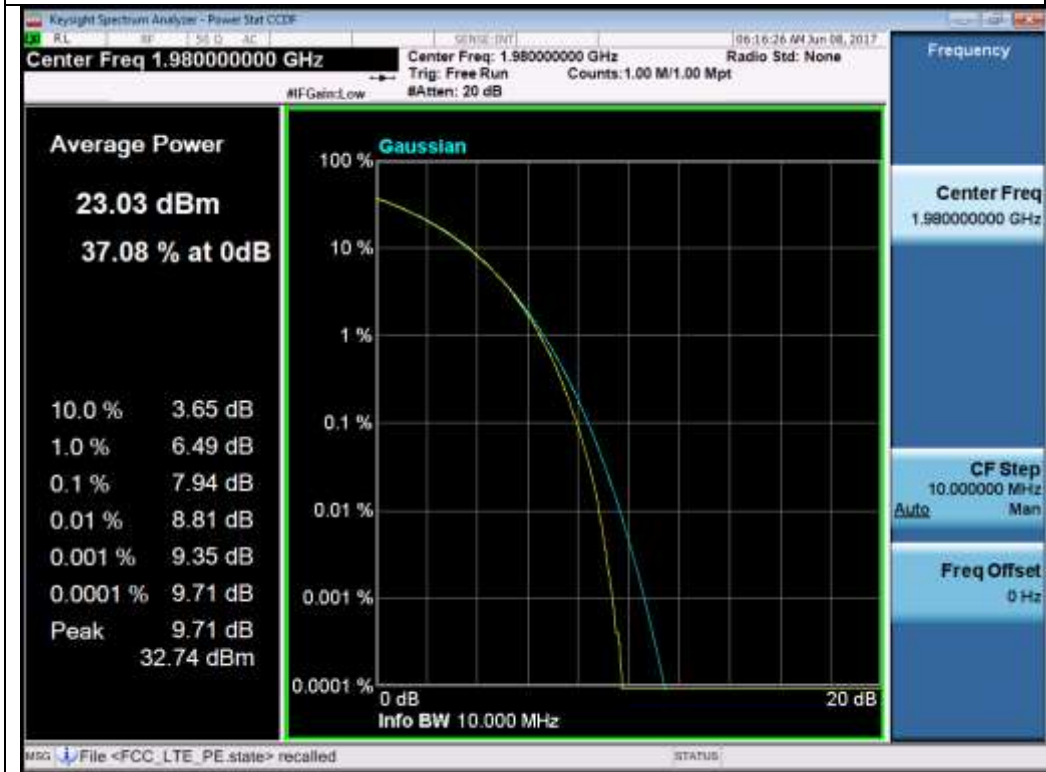
BW 15M 64QAM High



BW 20M 64QAM Low



BW 20M 64QAM Mid

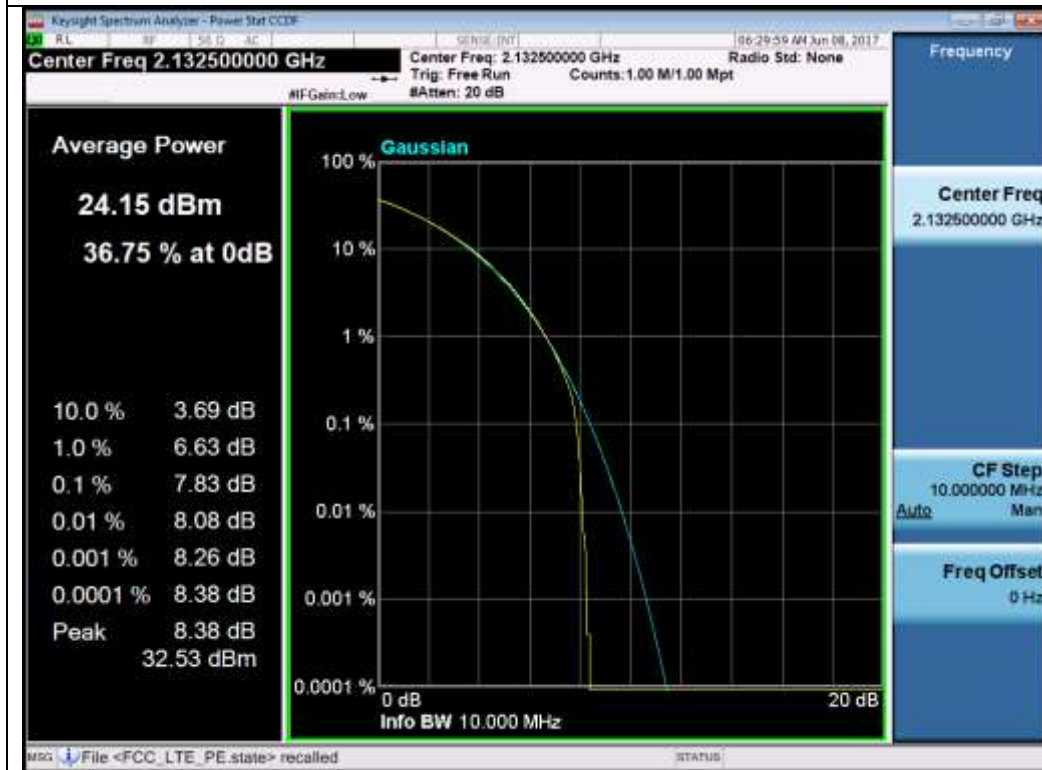


BW 20M 64QAM High

Test Plots for LTE band 4:



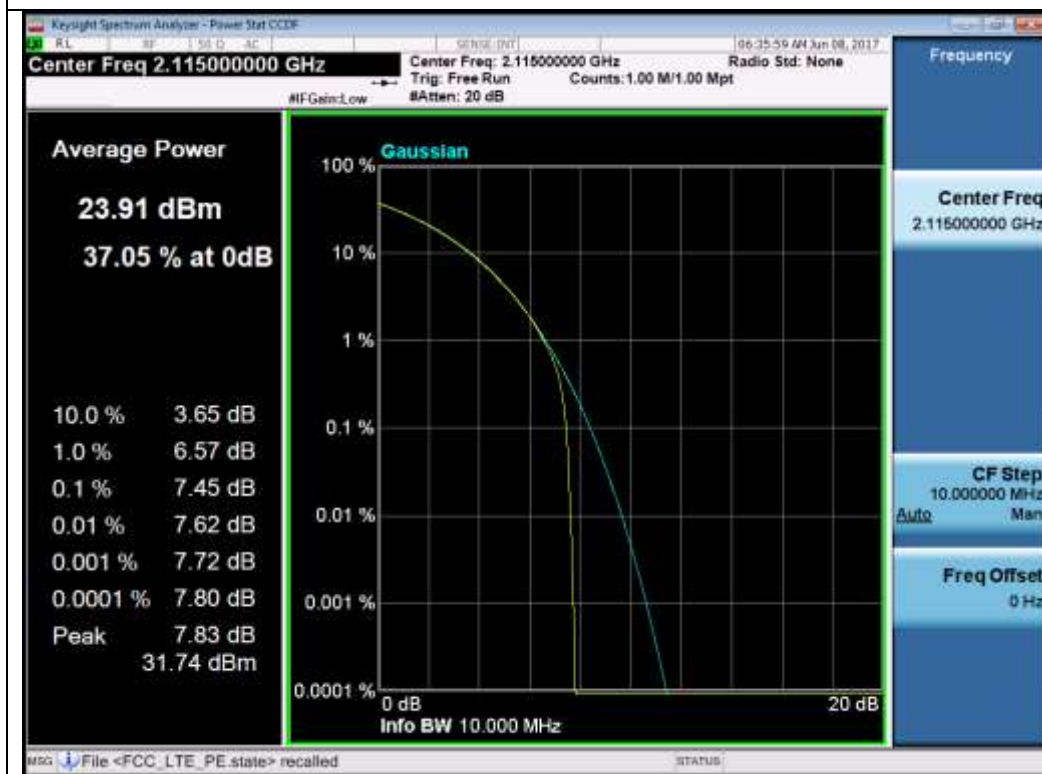
BW 5M QPSK Low



BW 5M QPSK Mid



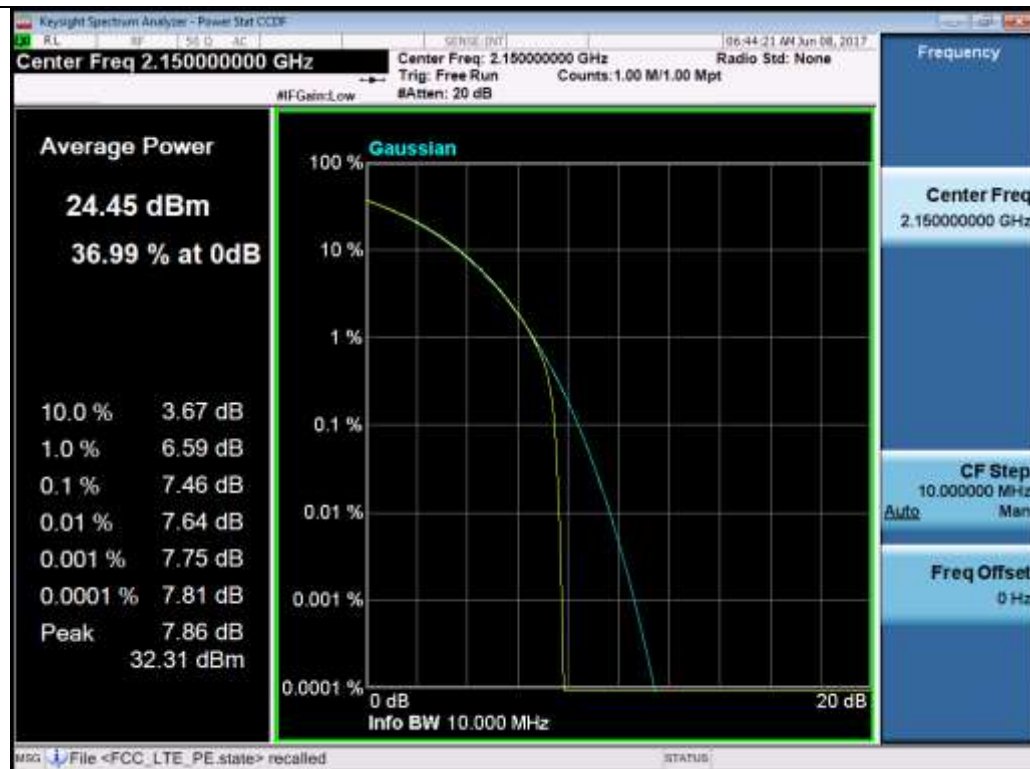
BW 5M QPSK High



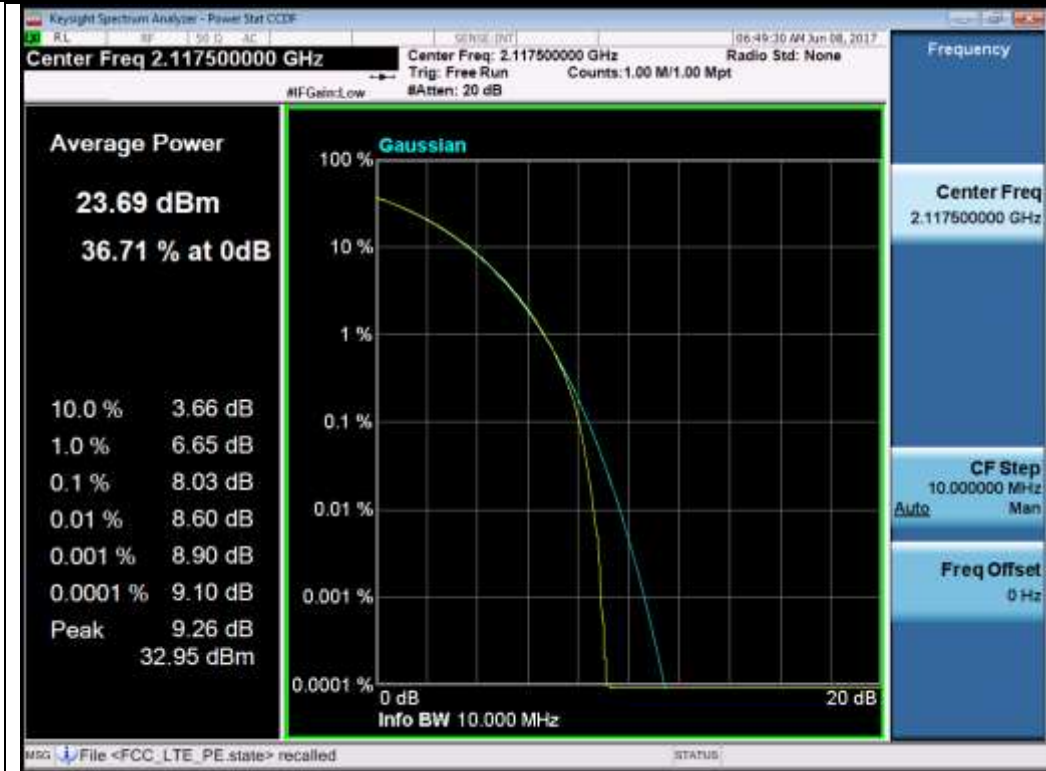
BW 10M QPSK Low



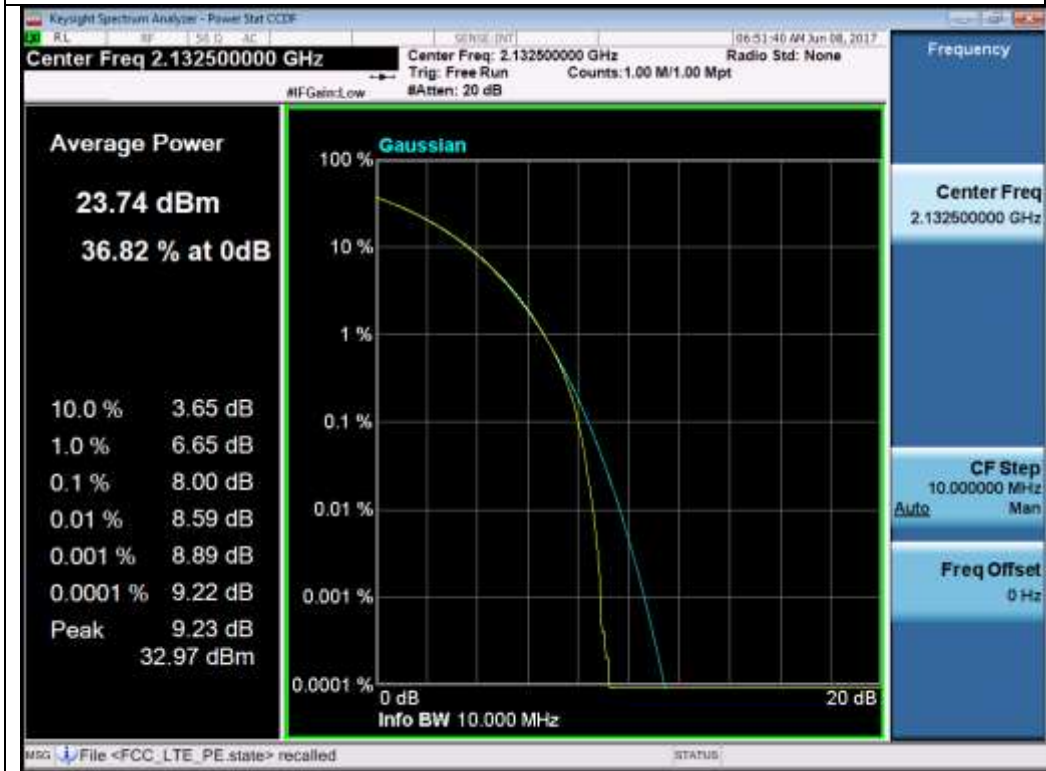
BW 10M QPSK Mid



BW 10M QPSK High



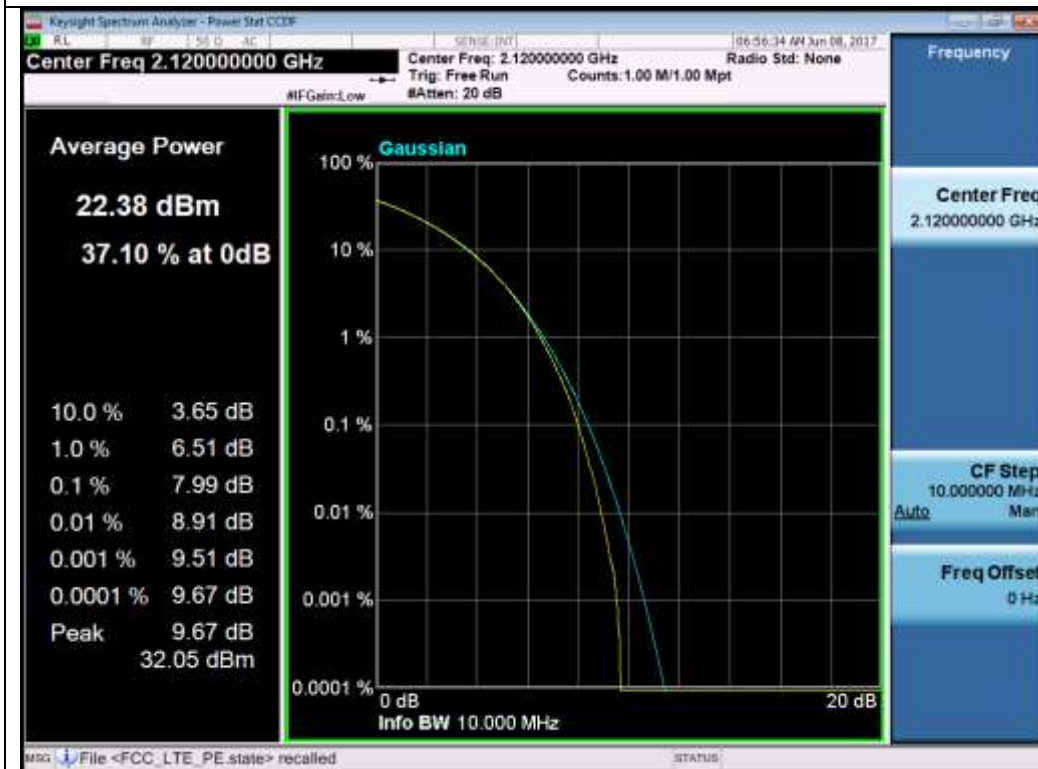
BW 15M QPSK Low



BW 15M QPSK Mid



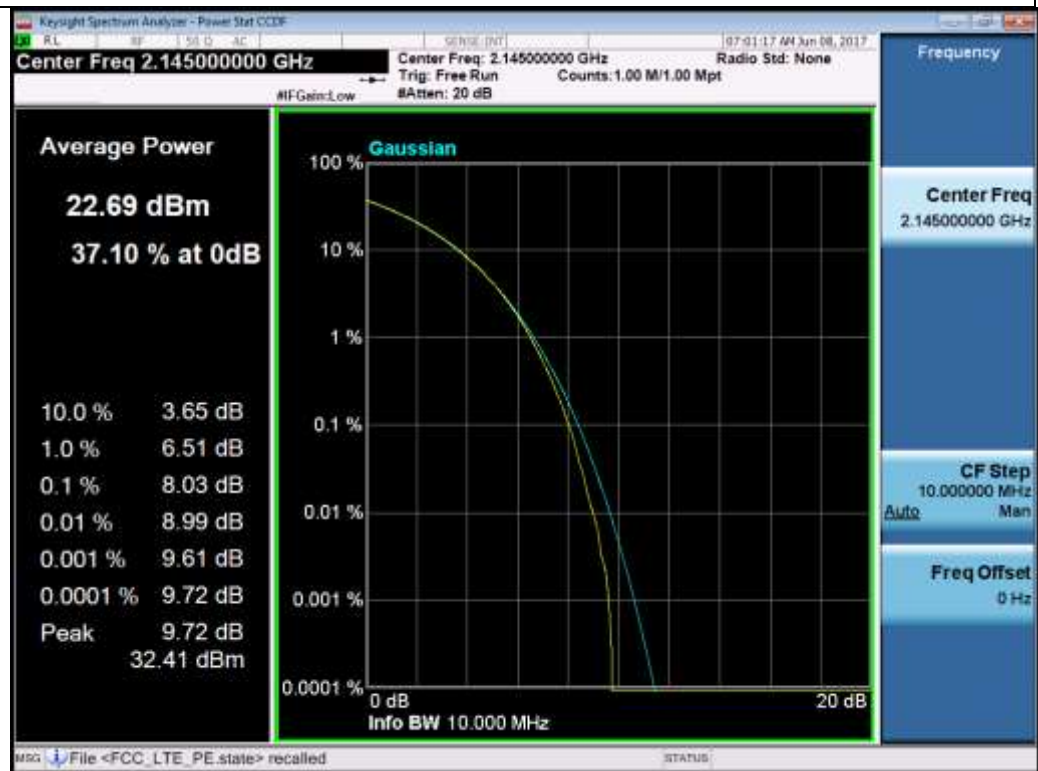
BW 15M QPSK High



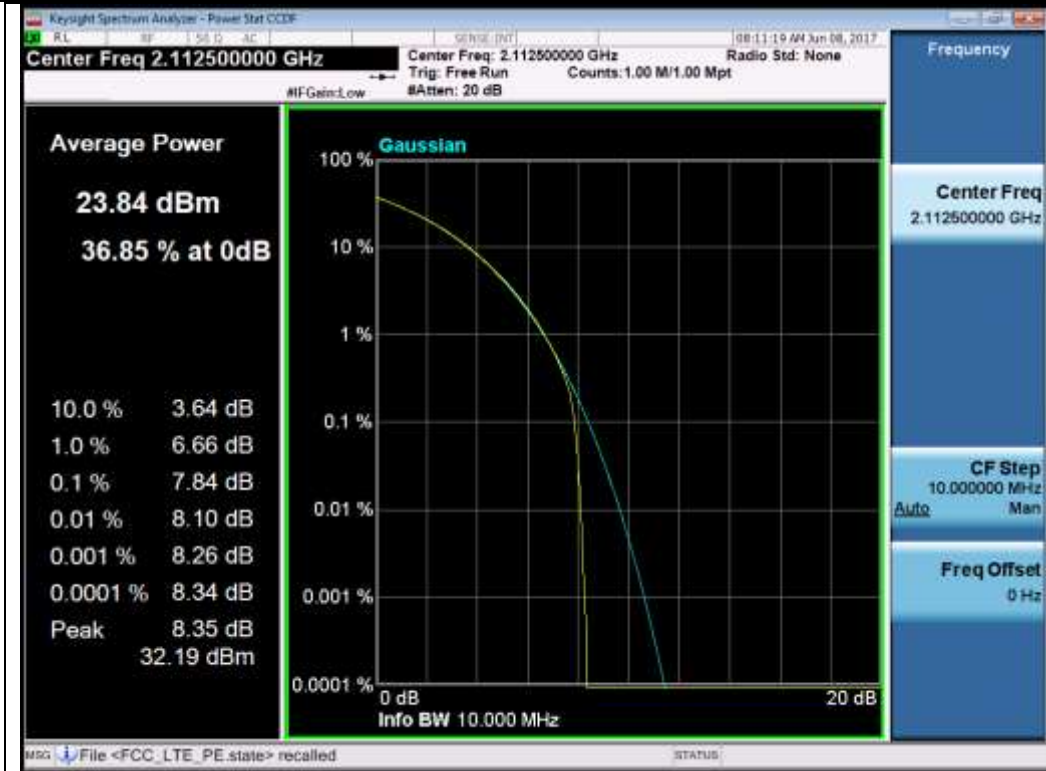
BW 20M QPSK Low



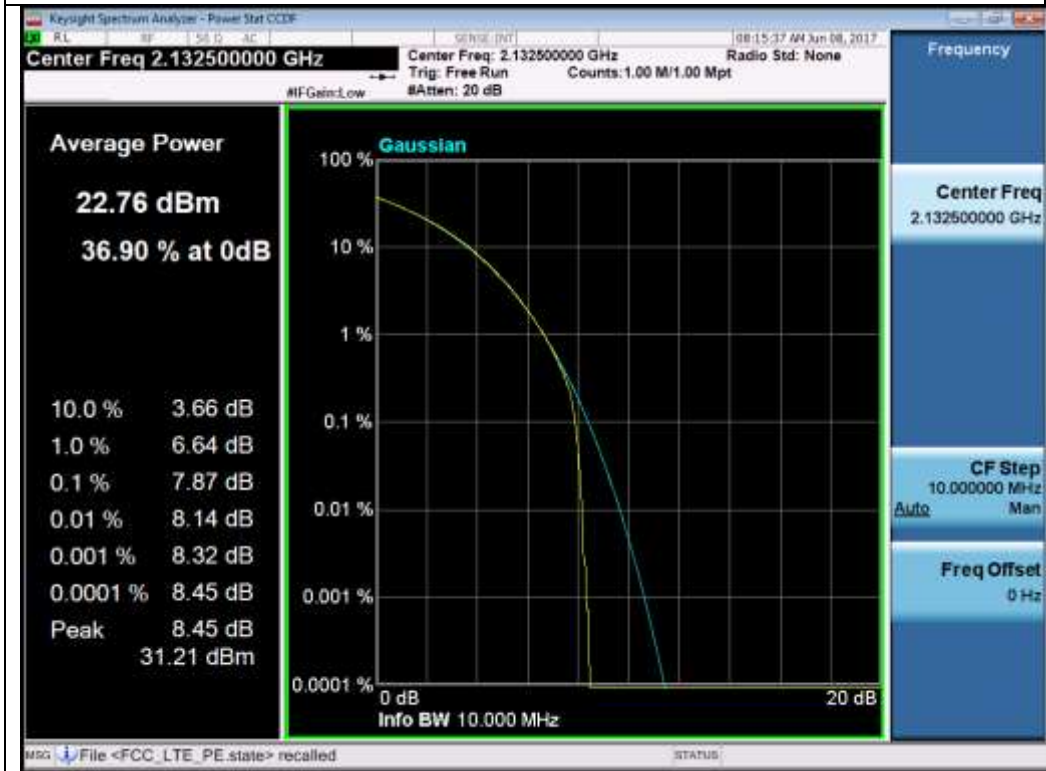
BW 20M QPSK Mid



BW 20M QPSK High



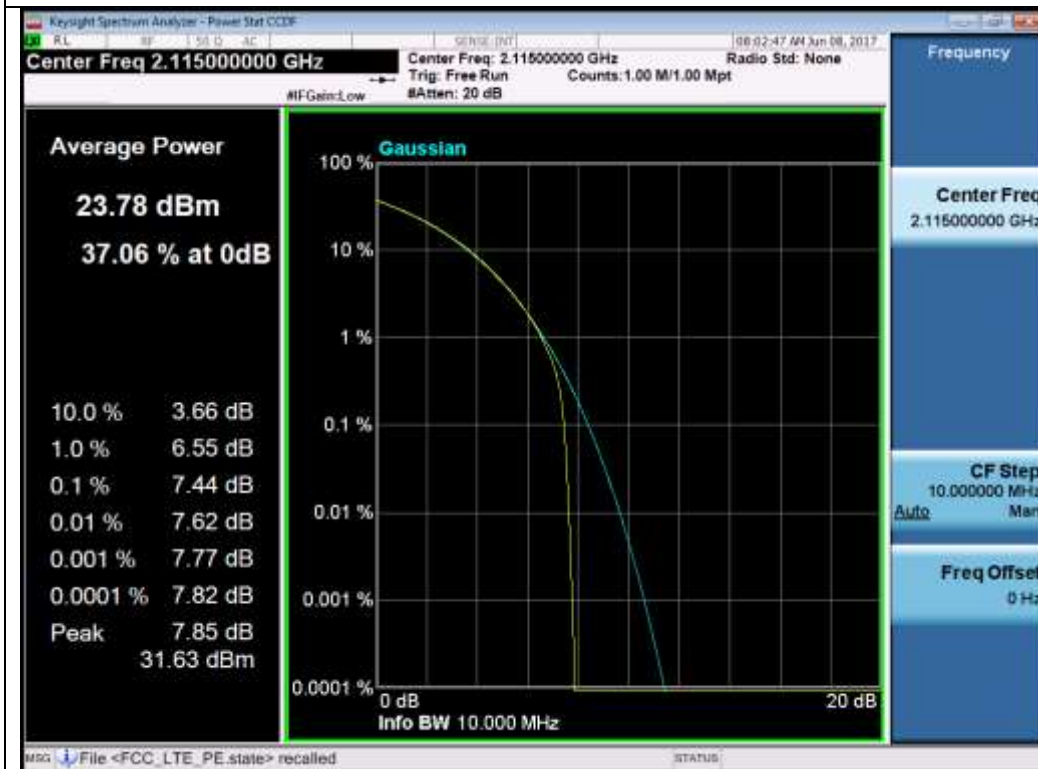
BW 5M 64QAM Low



BW 5M 64QAM Mid



BW 5M 64QAM High



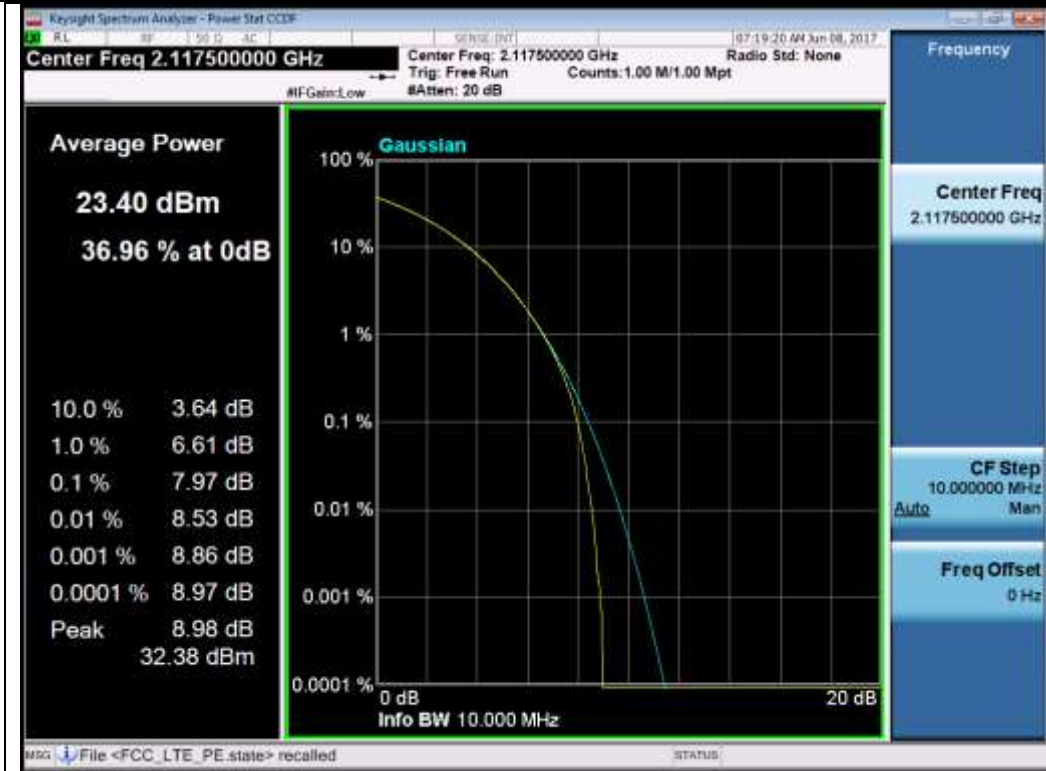
BW 10M 64QAM Low



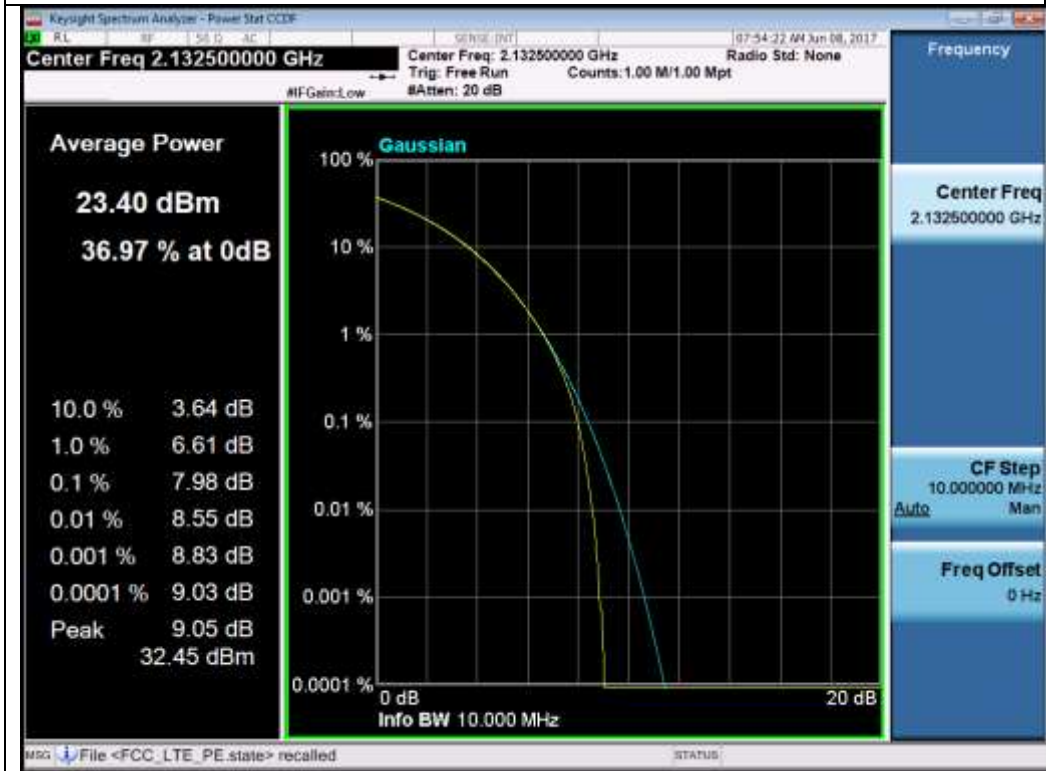
BW 10M 64QAM Mid



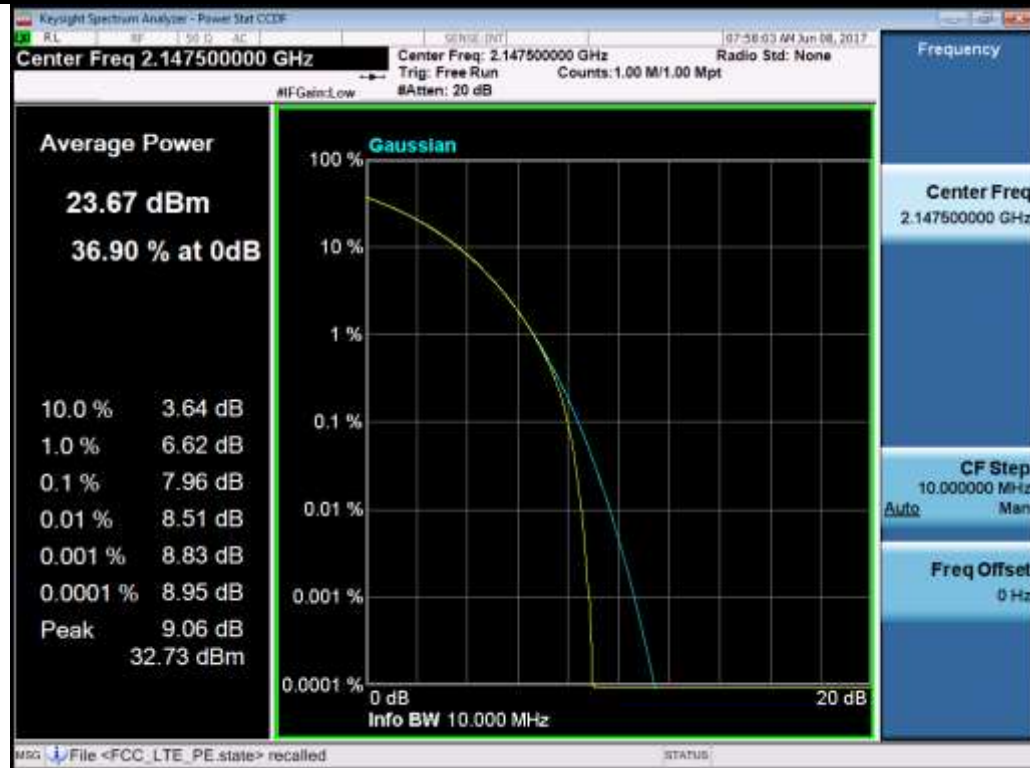
BW 10M 64QAM High



BW 15M 64QAM Low



BW 15M 64QAM Mid



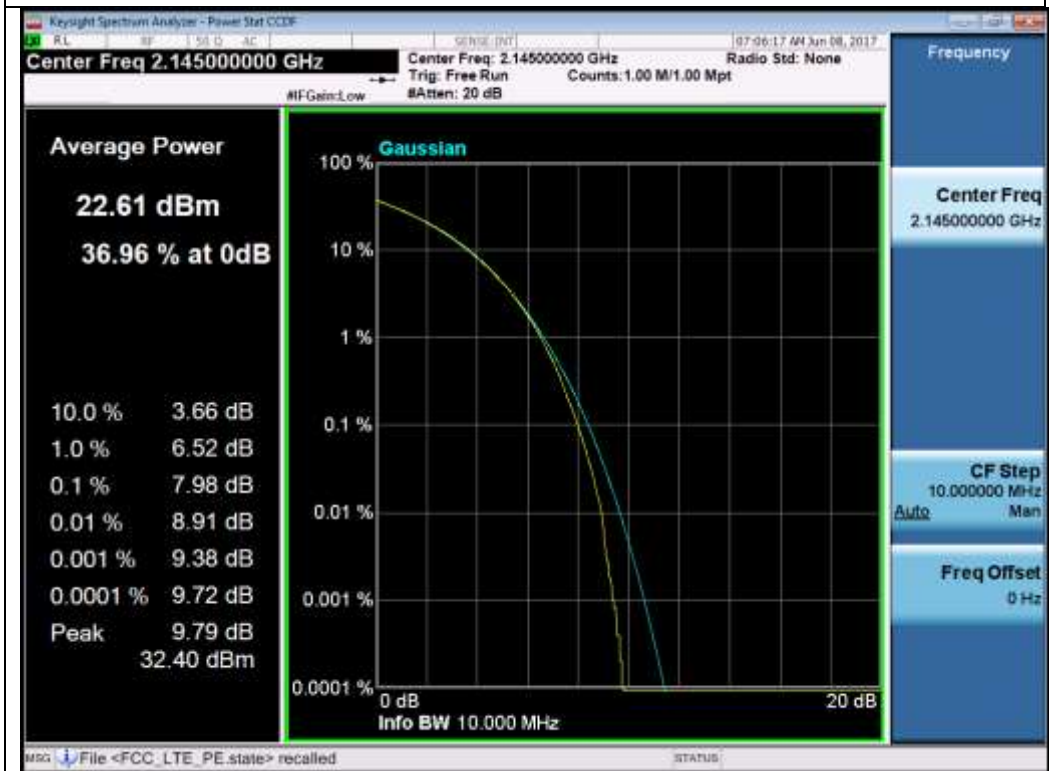
BW 15M 64QAM High



BW 20M 64QAM Low

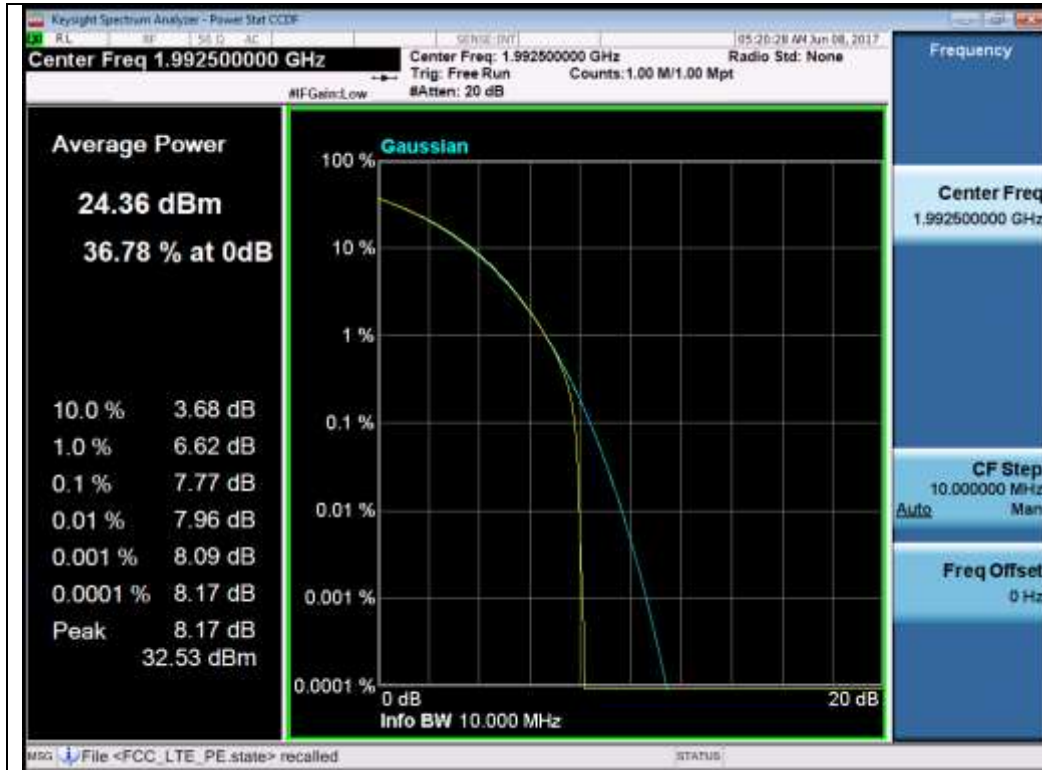


BW 20M 64QAM Mid

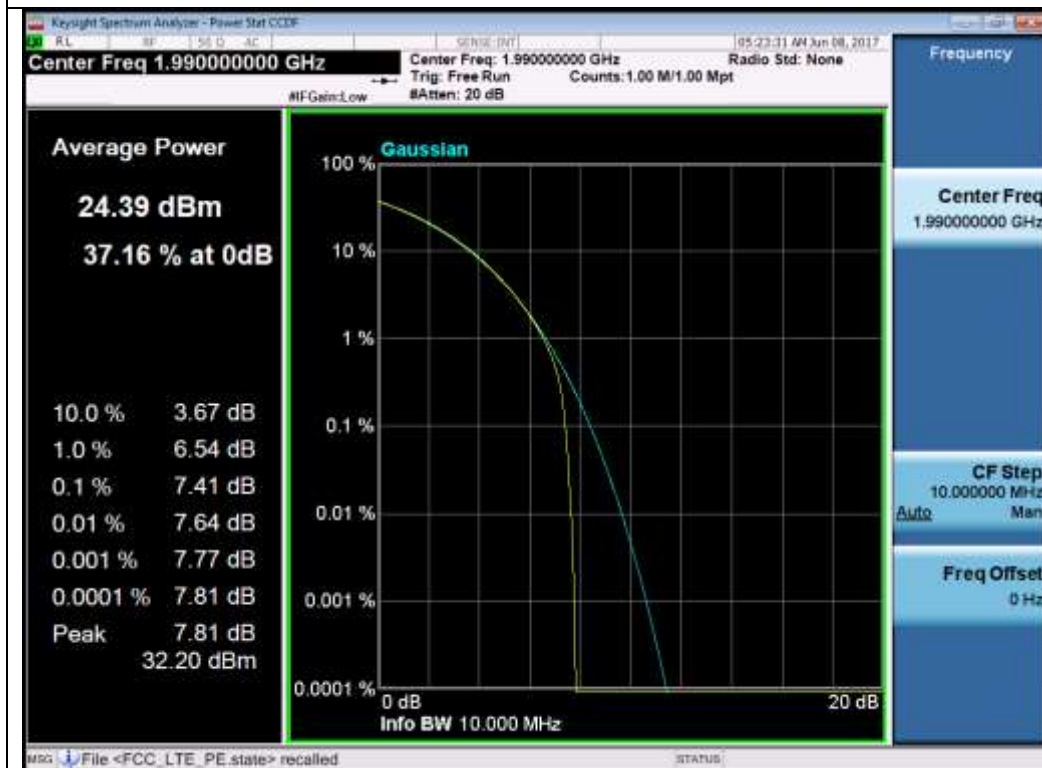


BW 20M 64QAM High

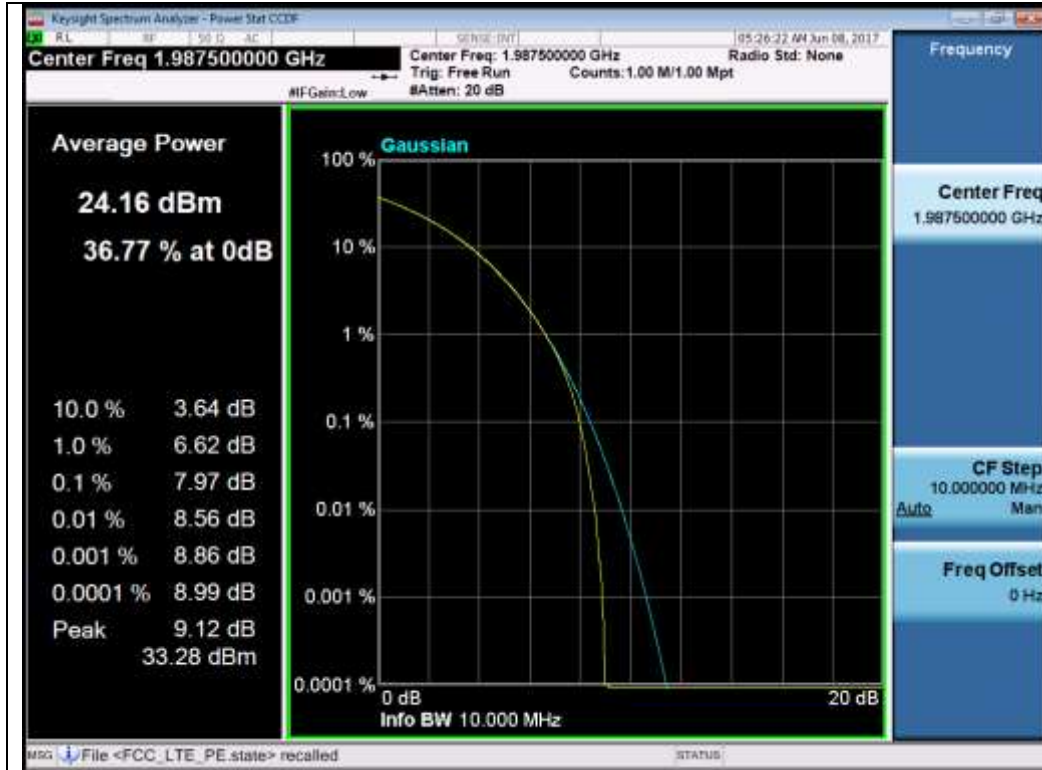
Test Plots for LTE band 25:



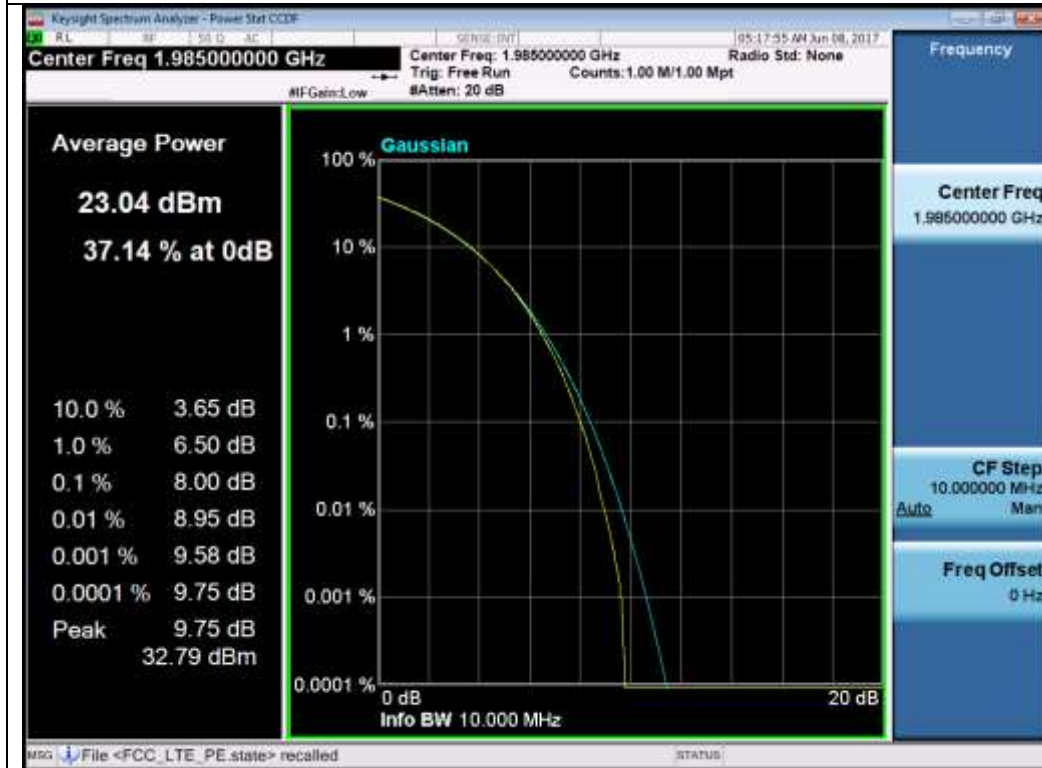
BW 5M QPSK High



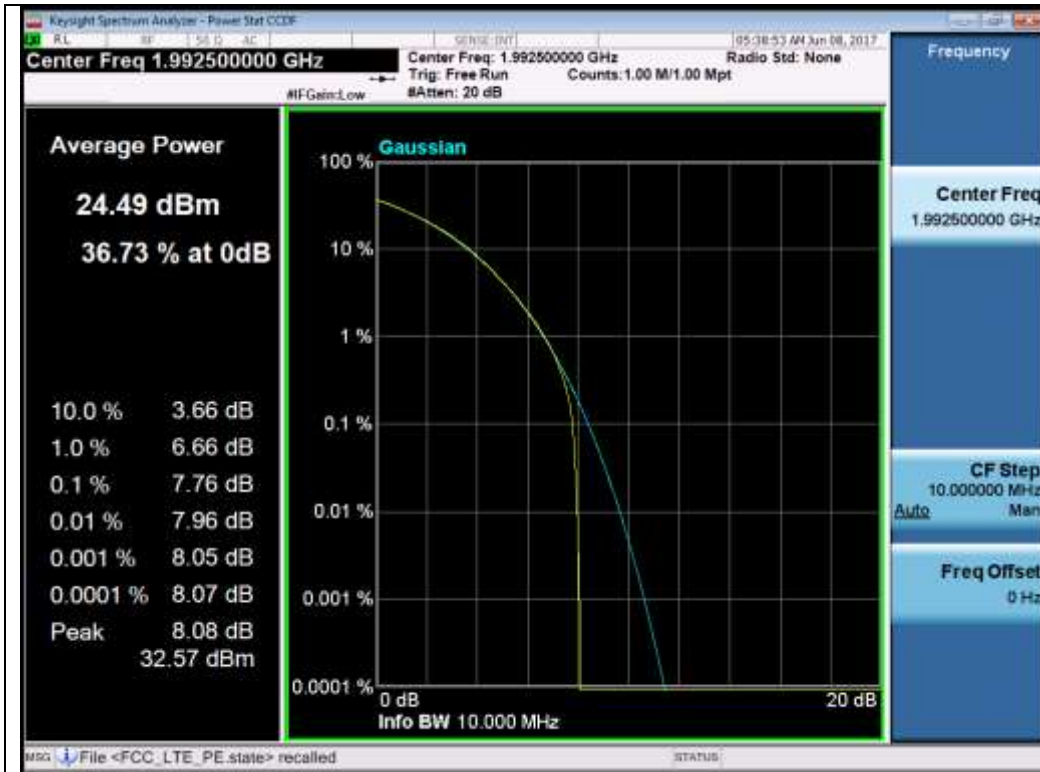
BW 10M QPSK High



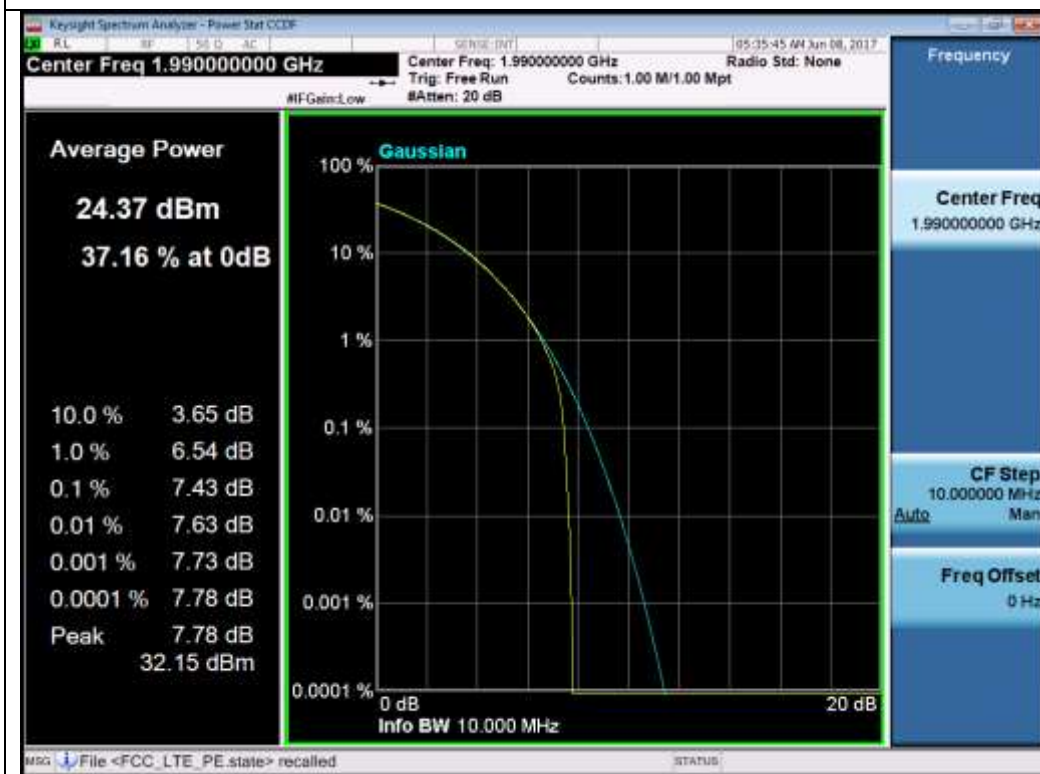
BW 15M QPSK High



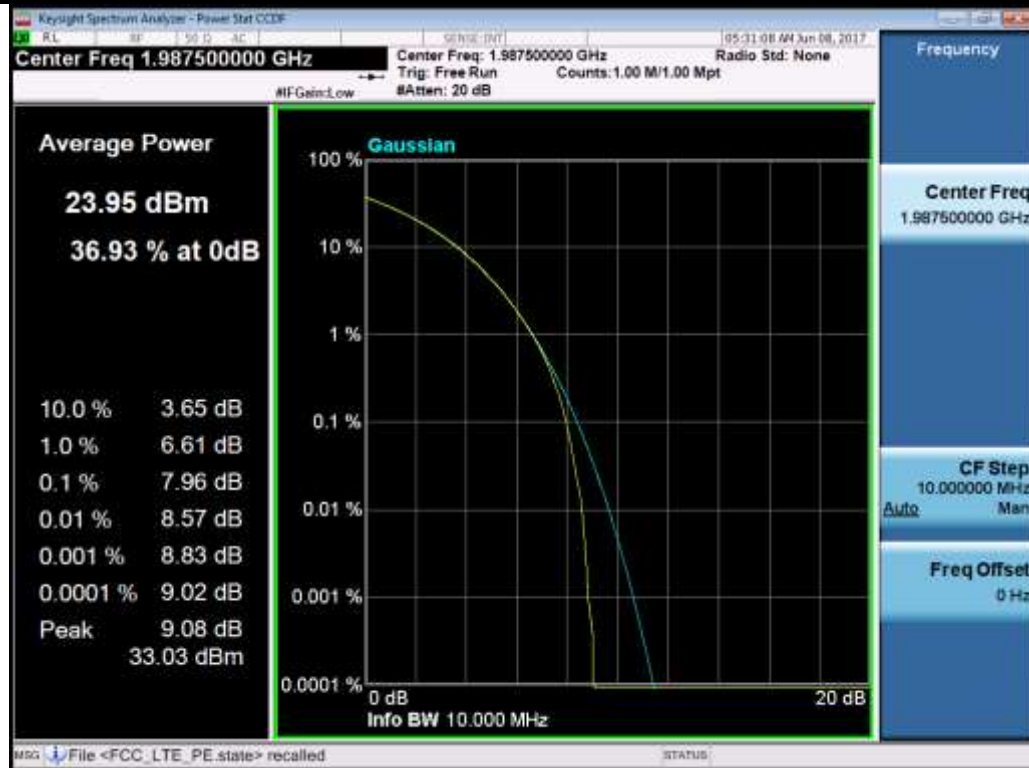
BW 20M QPSK High



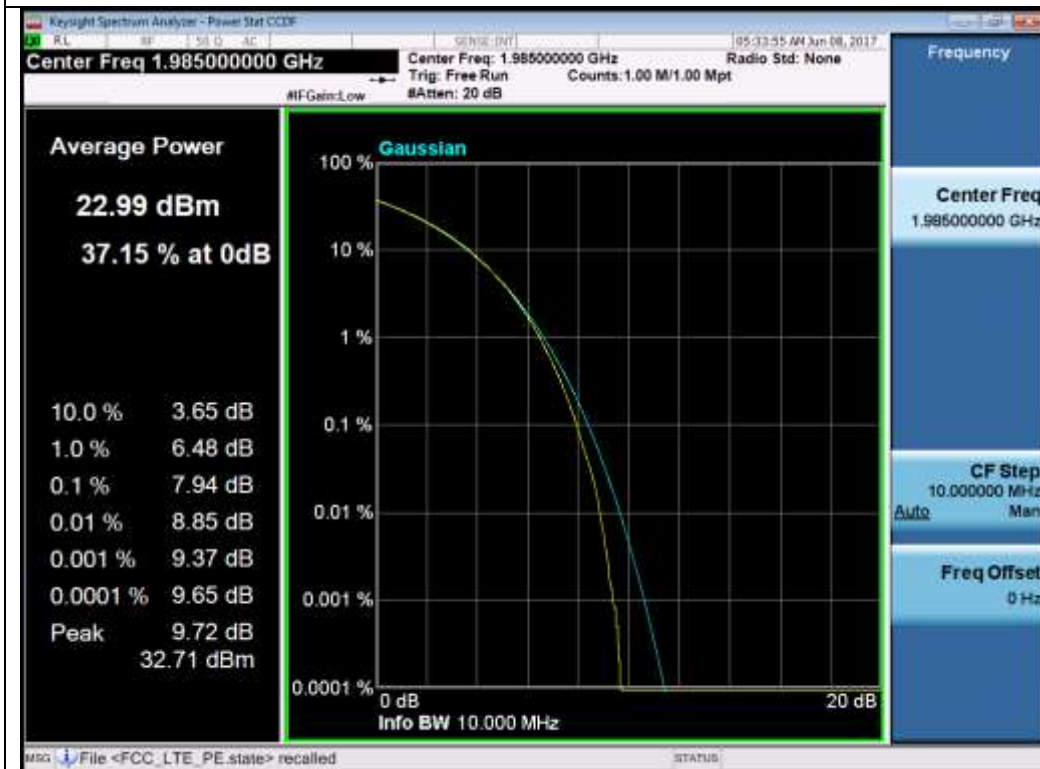
BW 5M 64QAM High



BW 10M 64QAM High



BW 15M 64QAM High

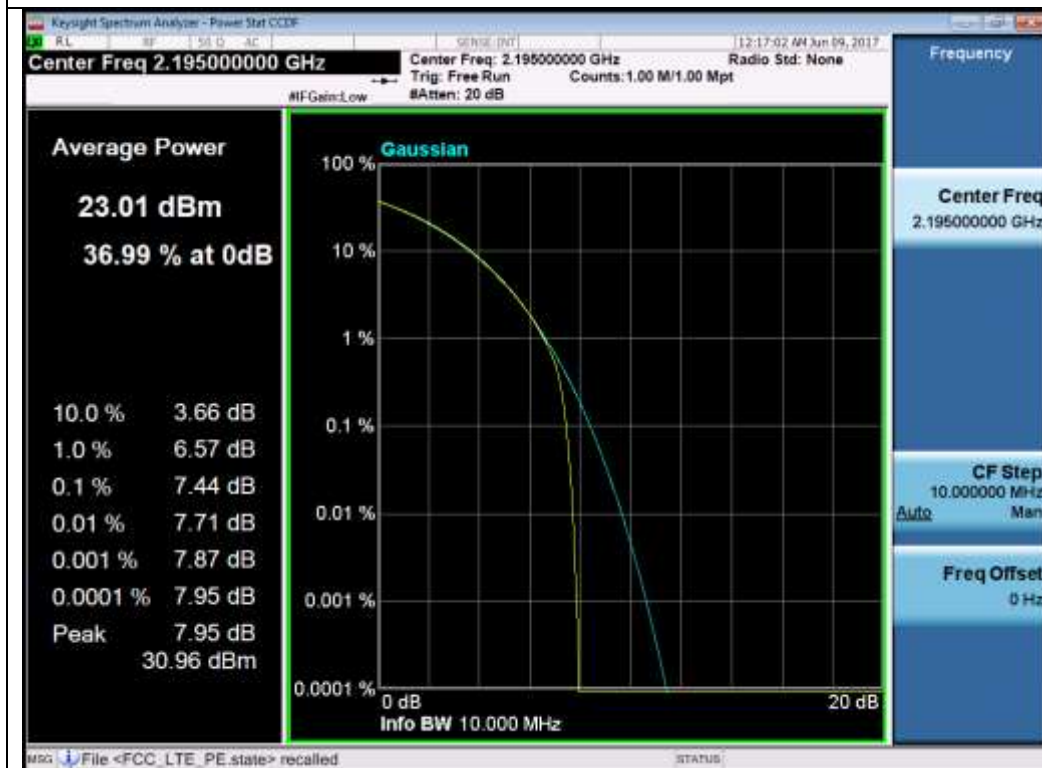


BW 20M 64QAM High

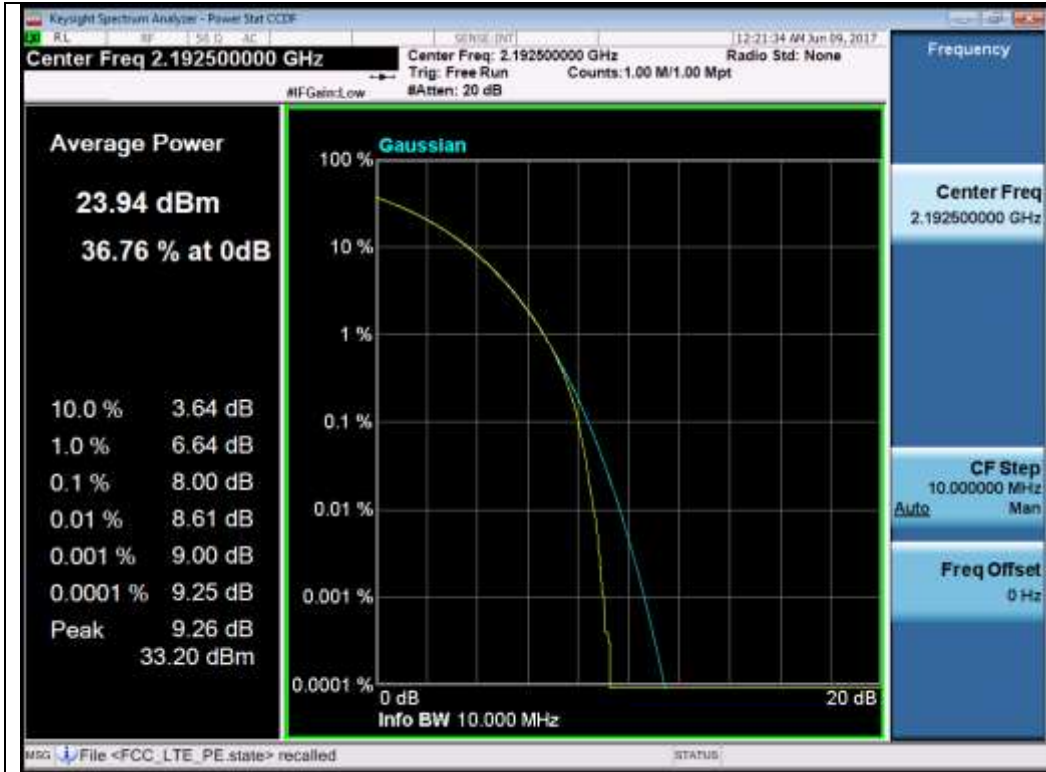
Test Plots for LTE band 66:



BW 5M QPSK High



BW 10M QPSK High



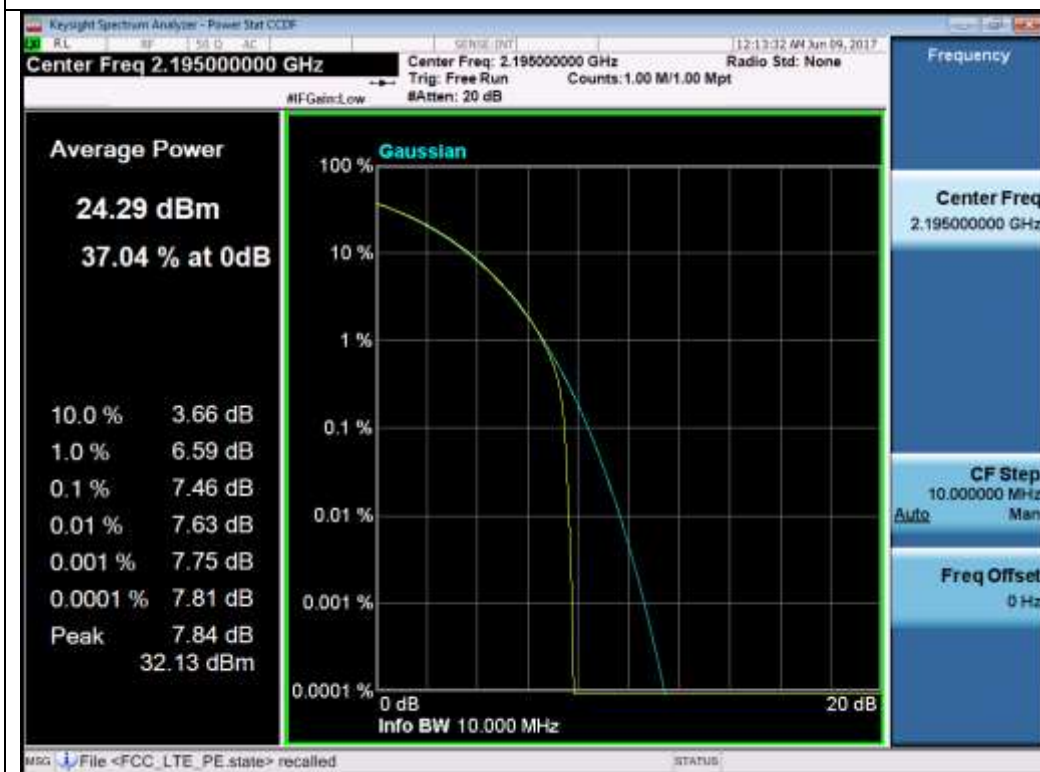
BW 15M QPSK High



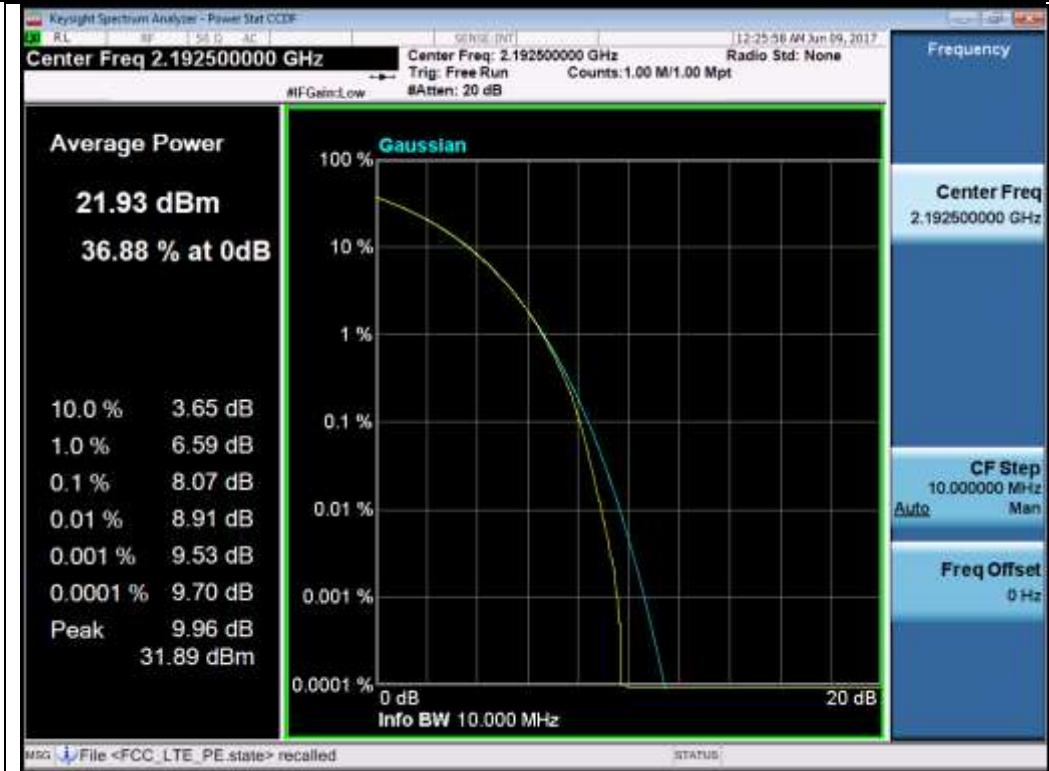
BW 20M QPSK High



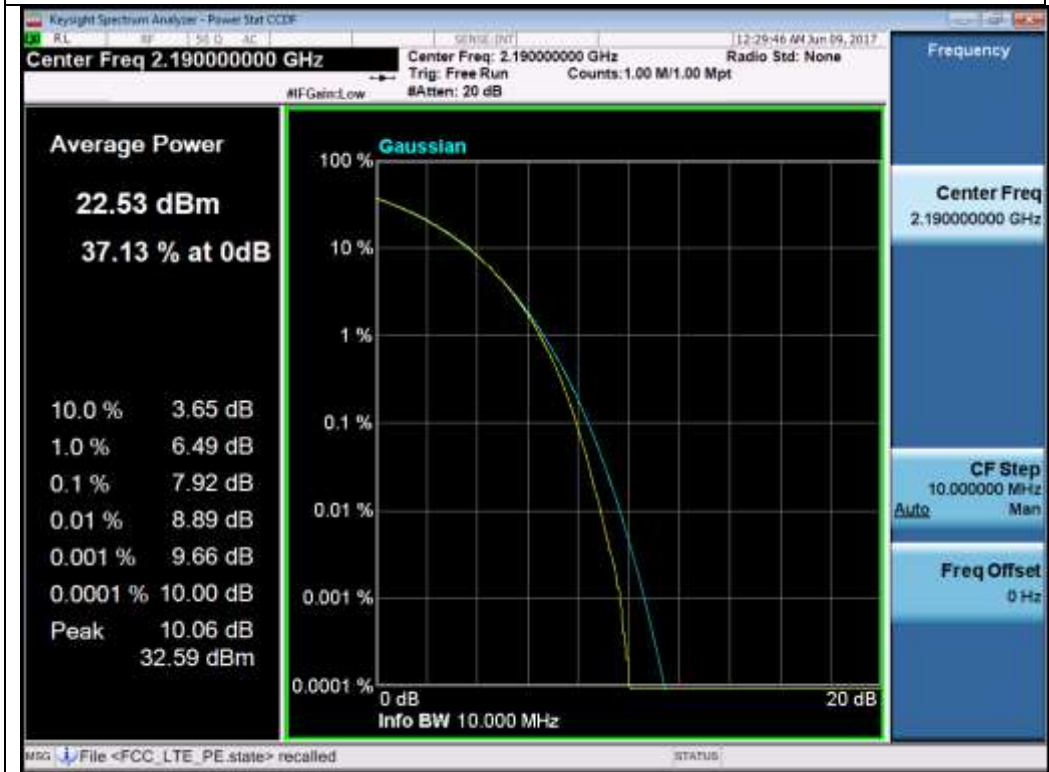
BW 5M 64QAM High



BW 10M 64QAM High

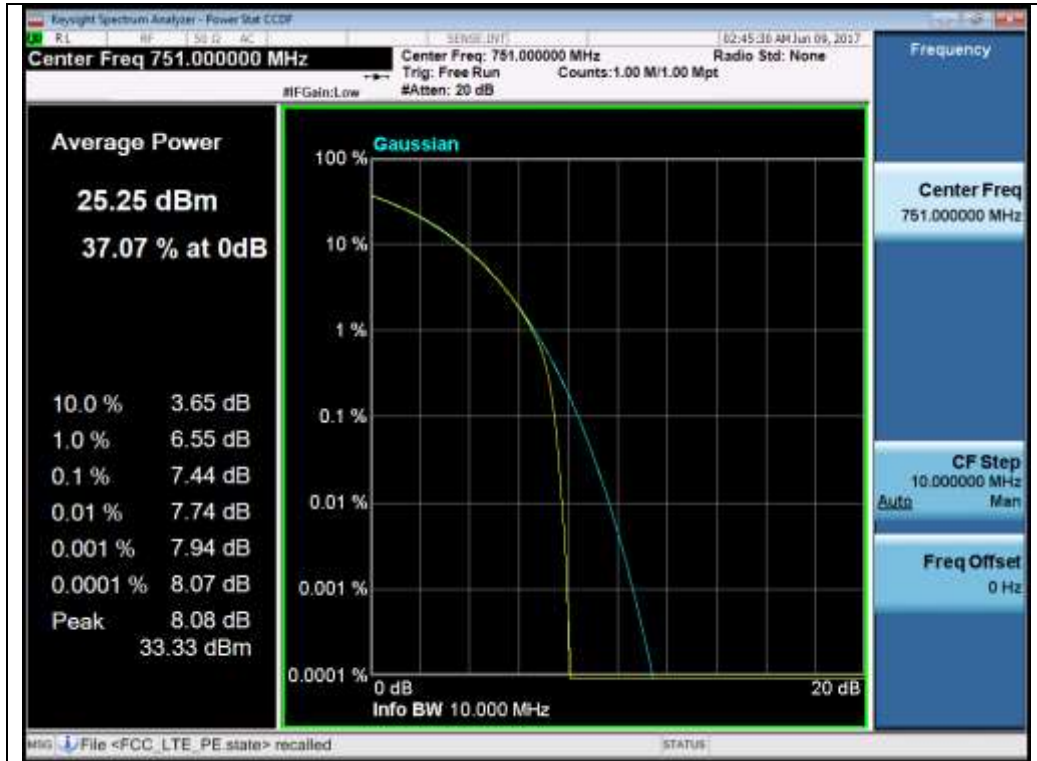


BW 15M 64QAM High

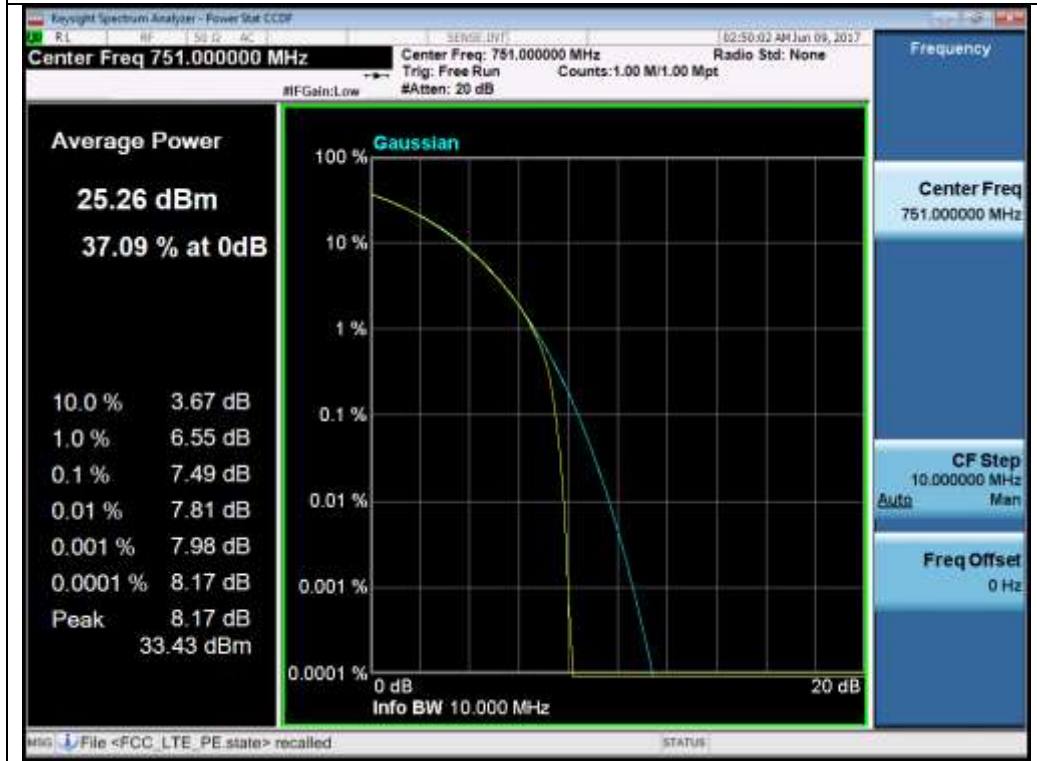


BW 20M 64QAM High

Test Plots for LTE band 13:



10M QPSK Mid



TestData

99% Bandwidth measurement result for LTE band 2:

| Type | Channel | Channel Frequency (MHz) | 99% Occupied Bandwidth (MHz) | 26 dB Occupied Bandwidth (MHz) |
|-----------------|---------|-------------------------|------------------------------|--------------------------------|
| 5MHz BW, QPSK | Low | 1932.5 | 4.42 | 4.66 |
| | Mid | 1960 | 4.42 | 4.67 |
| | High | 1987.5 | 4.42 | 4.66 |
| 5MHz BW, 64QAM | Low | 1932.5 | 4.42 | 4.65 |
| | Mid | 1960 | 4.42 | 4.65 |
| | High | 1987.5 | 4.43 | 4.68 |
| 10MHz BW, QPSK | Low | 1935 | 8.89 | 9.33 |
| | Mid | 1960 | 8.90 | 9.35 |
| | High | 1985 | 8.88 | 9.42 |
| 10MHz BW, 64QAM | Low | 1935 | 8.90 | 9.39 |
| | Mid | 1960 | 8.91 | 9.35 |
| | High | 1985 | 8.90 | 9.31 |
| 15MHz BW, QPSK | Low | 1937.5 | 13.26 | 13.73 |
| | Mid | 1960 | 13.26 | 13.84 |
| | High | 1982.5 | 13.25 | 13.78 |
| 15MHz BW, 64QAM | Low | 1937.5 | 13.27 | 13.83 |
| | Mid | 1960 | 13.27 | 13.82 |
| | High | 1982.5 | 13.28 | 13.79 |
| 20MHz BW, QPSK | Low | 1940 | 17.79 | 18.45 |
| | Mid | 1960 | 17.78 | 18.43 |
| | High | 1980 | 17.79 | 18.49 |
| 20MHz BW, 64QAM | Low | 1940 | 17.81 | 18.39 |
| | Mid | 1960 | 17.79 | 18.41 |
| | High | 1980 | 17.80 | 18.41 |

99% Bandwidth measurement result for LTE band 4:

| Type | Channel | Channel Frequency (MHz) | 99% Occupied Bandwidth (MHz) | 26 dB Occupied Bandwidth (MHz) |
|-----------------|---------|-------------------------|------------------------------|--------------------------------|
| 5MHz BW, QPSK | Low | 2112.5 | 4.42 | 4.68 |
| | Mid | 2132.5 | 4.42 | 4.66 |
| | High | 2152.5 | 4.43 | 4.67 |
| 5MHz BW, 64QAM | Low | 2112.5 | 4.42 | 4.67 |
| | Mid | 2132.5 | 4.42 | 4.67 |
| | High | 2152.5 | 4.42 | 4.65 |
| 10MHz BW, QPSK | Low | 2115.0 | 8.90 | 9.29 |
| | Mid | 2132.5 | 8.89 | 9.35 |
| | High | 2150.0 | 8.90 | 9.35 |
| 10MHz BW, 64QAM | Low | 2115.0 | 8.91 | 9.35 |
| | Mid | 2132.5 | 8.91 | 9.34 |
| | High | 2150.0 | 8.90 | 9.33 |
| 15MHz BW, QPSK | Low | 2117.5 | 13.28 | 13.85 |
| | Mid | 2132.5 | 13.26 | 13.78 |
| | High | 2147.5 | 13.27 | 13.78 |
| 15MHz BW, 64QAM | Low | 2117.5 | 13.29 | 13.79 |
| | Mid | 2132.5 | 13.28 | 13.79 |
| | High | 2147.5 | 13.29 | 13.78 |
| 20MHz BW, QPSK | Low | 2120.0 | 17.80 | 18.47 |
| | Mid | 2132.5 | 17.83 | 18.50 |
| | High | 2145.0 | 17.79 | 18.46 |
| 20MHz BW, 64QAM | Low | 2120.0 | 17.81 | 18.43 |
| | Mid | 2132.5 | 17.81 | 18.45 |
| | High | 2145.0 | 17.87 | 18.36 |

99% Bandwidth measurement result for LTE band 25:

| Type | Channel | Channel Frequency (MHz) | 99% Occupied Bandwidth (MHz) | 26 dB Occupied Bandwidth (MHz) |
|-----------------|---------|-------------------------|------------------------------|--------------------------------|
| 5MHz BW, QPSK | High | 1992.5 | 4.42 | 4.68 |
| 5MHz BW, 64QAM | High | 1992.5 | 4.42 | 4.68 |
| 10MHz BW, QPSK | High | 1990 | 8.90 | 9.33 |
| 10MHz BW, 64QAM | High | 1990 | 8.90 | 9.33 |
| 15MHz BW, QPSK | High | 1987.5 | 13.26 | 13.80 |
| 15MHz BW, 64QAM | High | 1987.5 | 13.26 | 13.80 |
| 20MHz BW, QPSK | High | 1985 | 17.79 | 18.42 |
| 20MHz BW, 64QAM | High | 1985 | 17.80 | 18.43 |

99% Bandwidth measurement result for LTE band 66:

| Type | Channel | Channel Frequency (MHz) | 99% Occupied Bandwidth (MHz) | 26 dB Occupied Bandwidth (MHz) |
|-----------------|---------|-------------------------|------------------------------|--------------------------------|
| 5MHz BW, QPSK | High | 2197.5 | 4.42 | 4.65 |
| 5MHz BW, 64QAM | High | 2197.5 | 4.43 | 4.70 |
| 10MHz BW, QPSK | High | 2195 | 8.90 | 9.30 |
| 10MHz BW, 64QAM | High | 2195 | 8.90 | 9.31 |
| 15MHz BW, QPSK | High | 2192.5 | 13.29 | 13.79 |
| 15MHz BW, 64QAM | High | 2192.5 | 13.29 | 13.76 |
| 20MHz BW, QPSK | High | 2190 | 17.82 | 18.51 |
| 20MHz BW, 64QAM | High | 2190 | 17.83 | 18.41 |

99% Bandwidth measurement result for LTE band 13:

| Type | Channel | Channel Frequency (MHz) | 99% Occupied Bandwidth (MHz) | 26 dB Occupied Bandwidth (MHz) |
|-----------------|---------|-------------------------|------------------------------|--------------------------------|
| 10MHz BW, QPSK | Mid | 751 | 8.90 | 9.36 |
| 10MHz BW, 64QAM | Mid | 751 | 8.90 | 9.34 |

Test Plot for Occupied Bandwidth band 2:



BW 5M QPSK Low



BW 5M QPSK Mid



BW 5M QPSK High



BW 10M QPSK Low



BW 10M QPSK Mid



BW 10M QPSK High



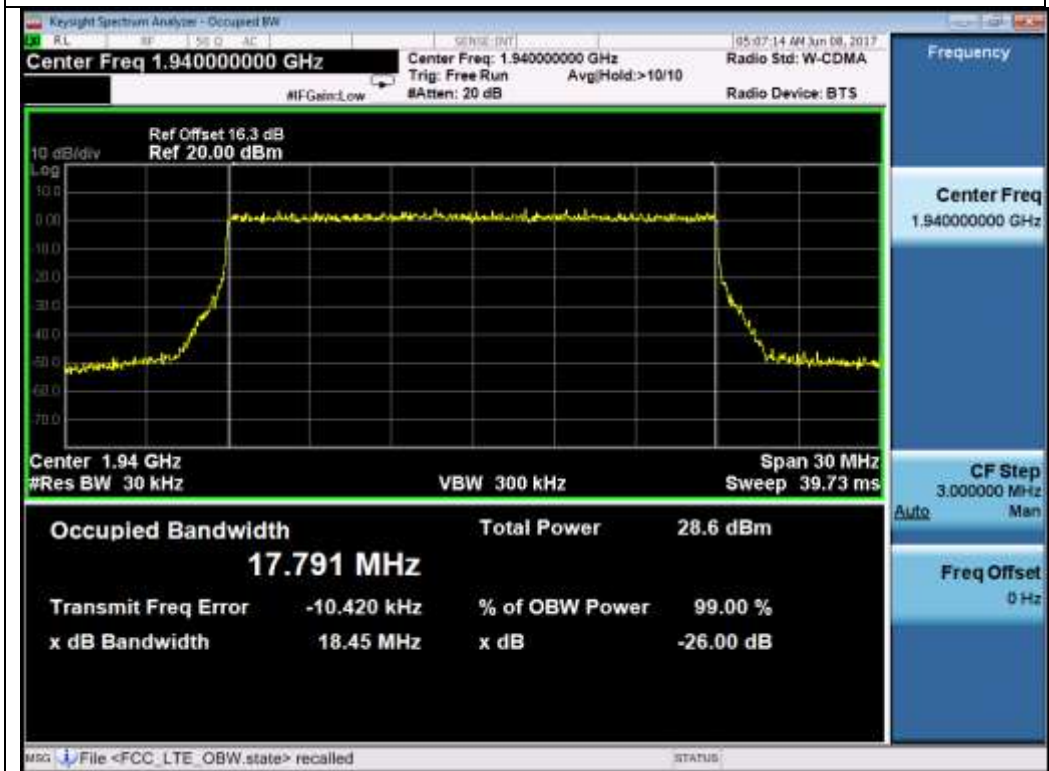
BW 15M QPSK Low



BW 15M QPSK Mid



BW 15M QPSK High



BW 20M QPSK Low



BW 20M QPSK Mid



BW 20M QPSK High



BW 5M 64QAM Low



BW 5M 64QAM Mid



BW 5M 64QAM High



BW 10M 64QAM Low



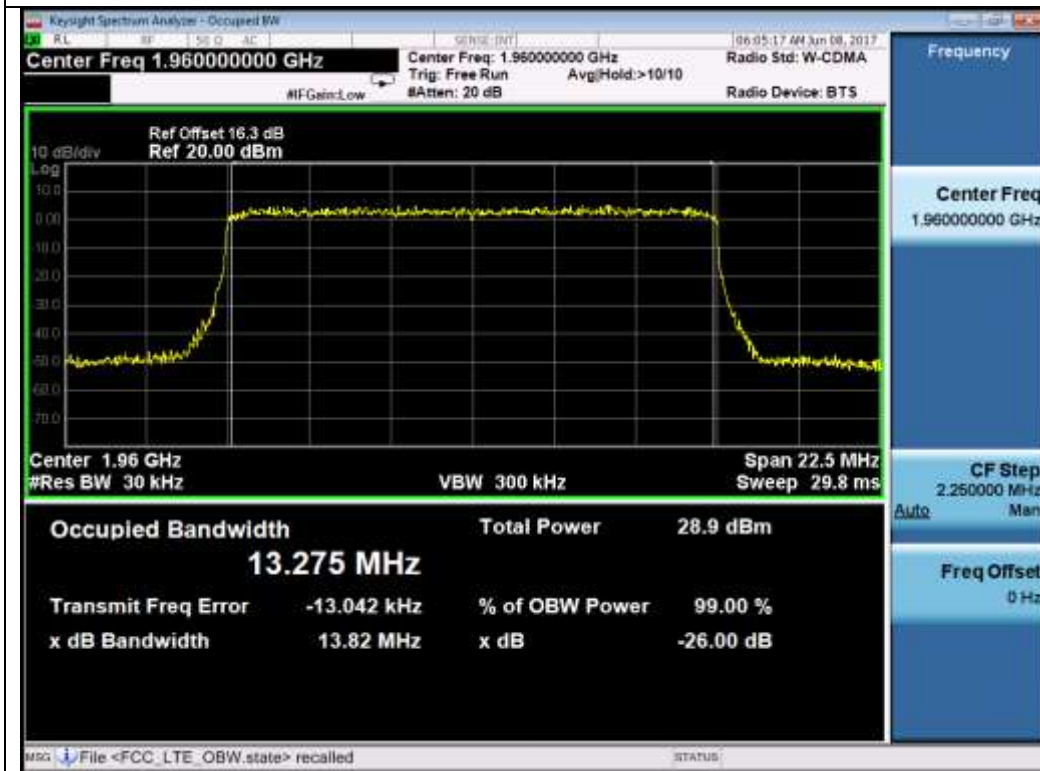
BW 10M 64QAM Mid



BW 10M 64QAM High



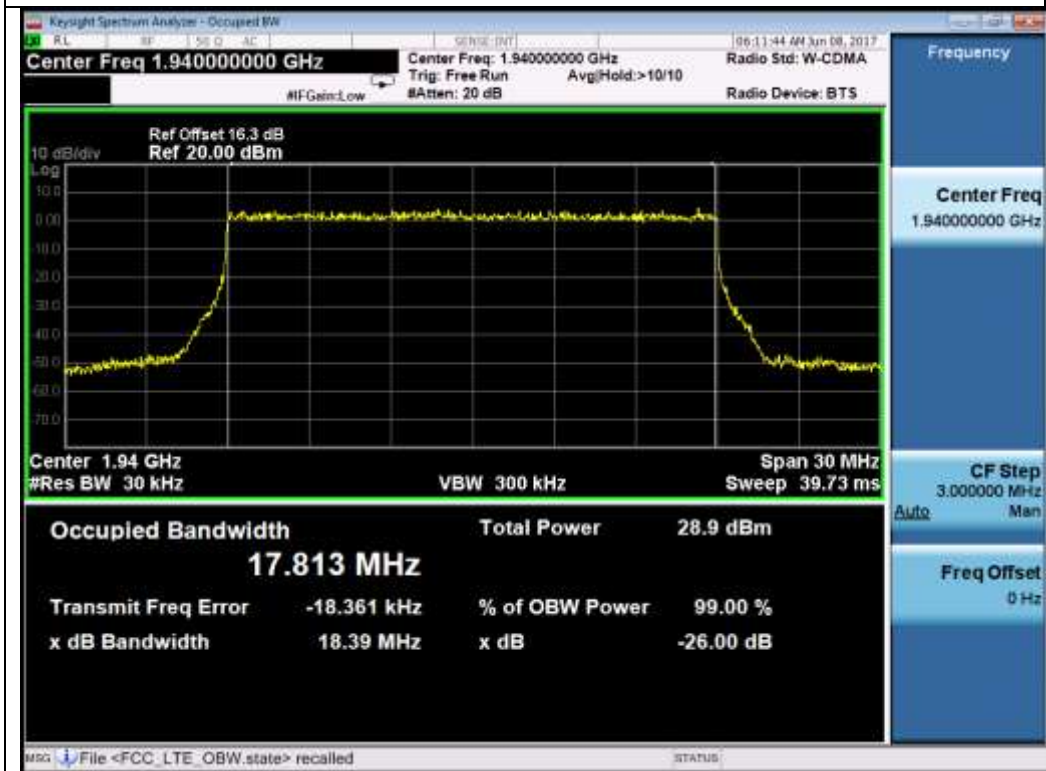
BW 15M 64QAM Low



BW 15M 64QAM Mid



BW 15M 64QAM High



BW 20M 64QAM Low

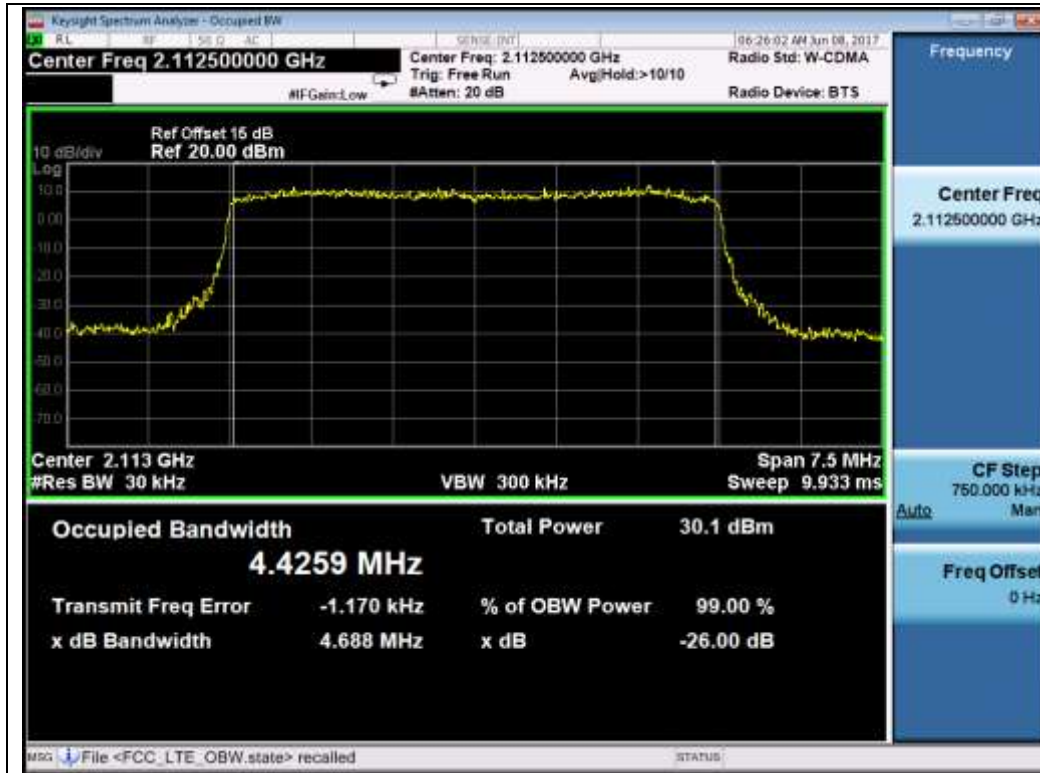


BW 20M 64QAM Mid



BW 20M 64QAM High

Test Plot for Occupied Bandwidth Band 4:



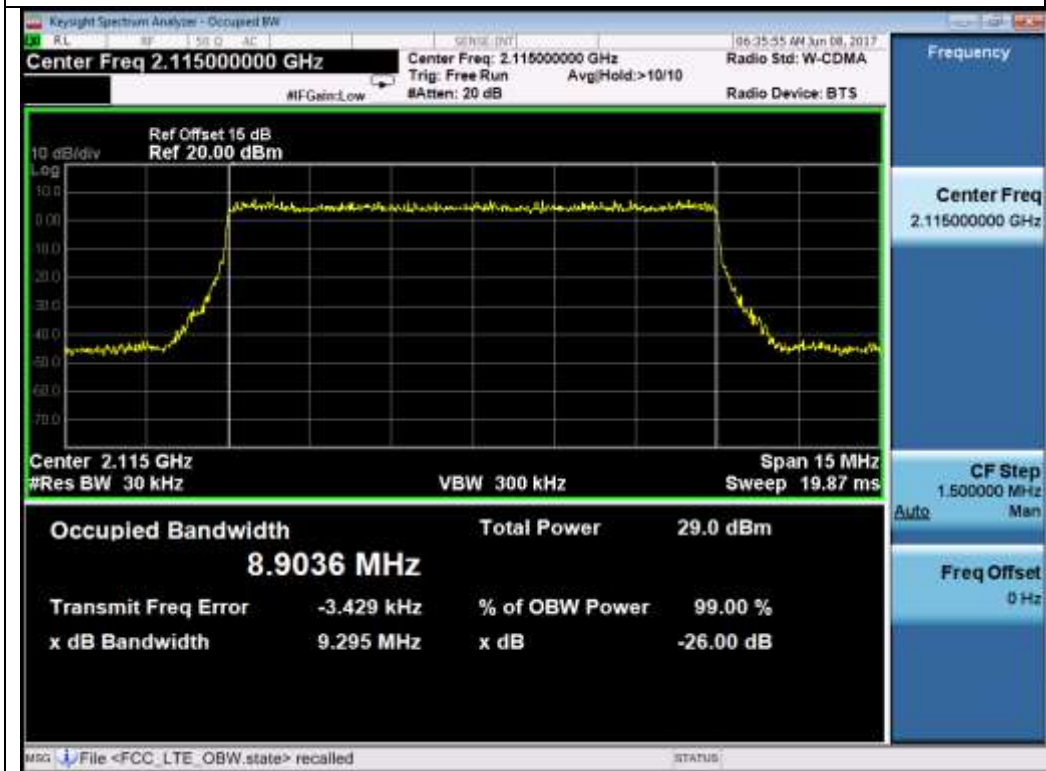
BW 5M QPSK Low



BW 5M QPSK Mid



BW 5M QPSK High



BW 10M QPSK Low



BW 10M QPSK Mid



BW 10M QPSK High



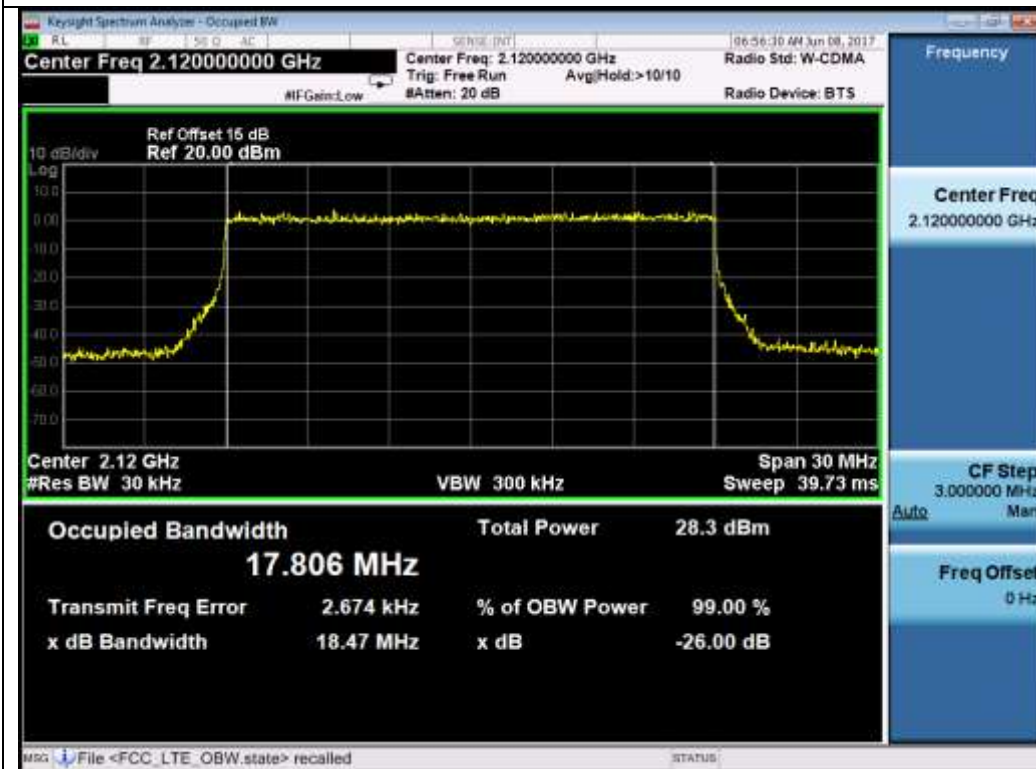
BW 15M QPSK Low



BW 15M QPSK Mid



BW 15M QPSK High



BW 20M QPSK Low



BW 20M QPSK Mid



BW 20M QPSK High



BW 5M 64QAM Low



BW 5M 64QAM Mid



BW 5M 64QAM High



BW 10M 64QAM Low



BW 10M 64QAM Mid



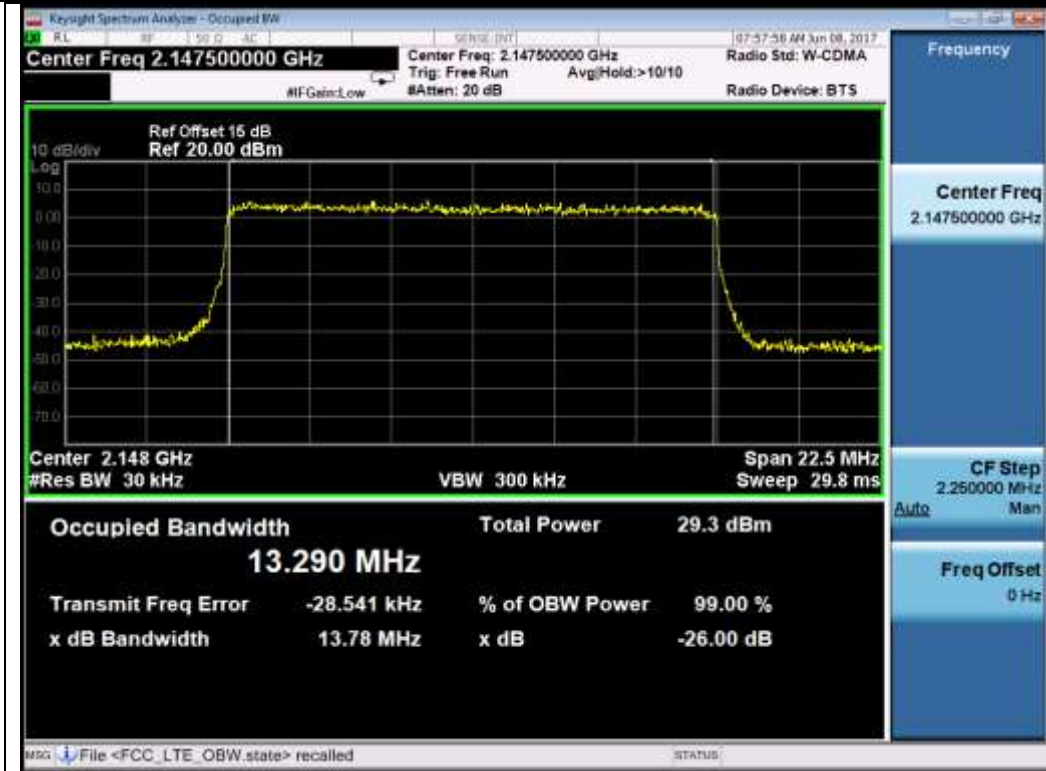
BW 10M 64QAM High



BW 15M 64QAM Low



BW 15M 64QAM Mid



BW 15M 64QAM High



BW 20M 64QAM Low



BW 20M 64QAM Mid



BW 20M 64QAM High

Test Plots for LTE band 25:



BW 5M QPSK High



BW 10M QPSK High



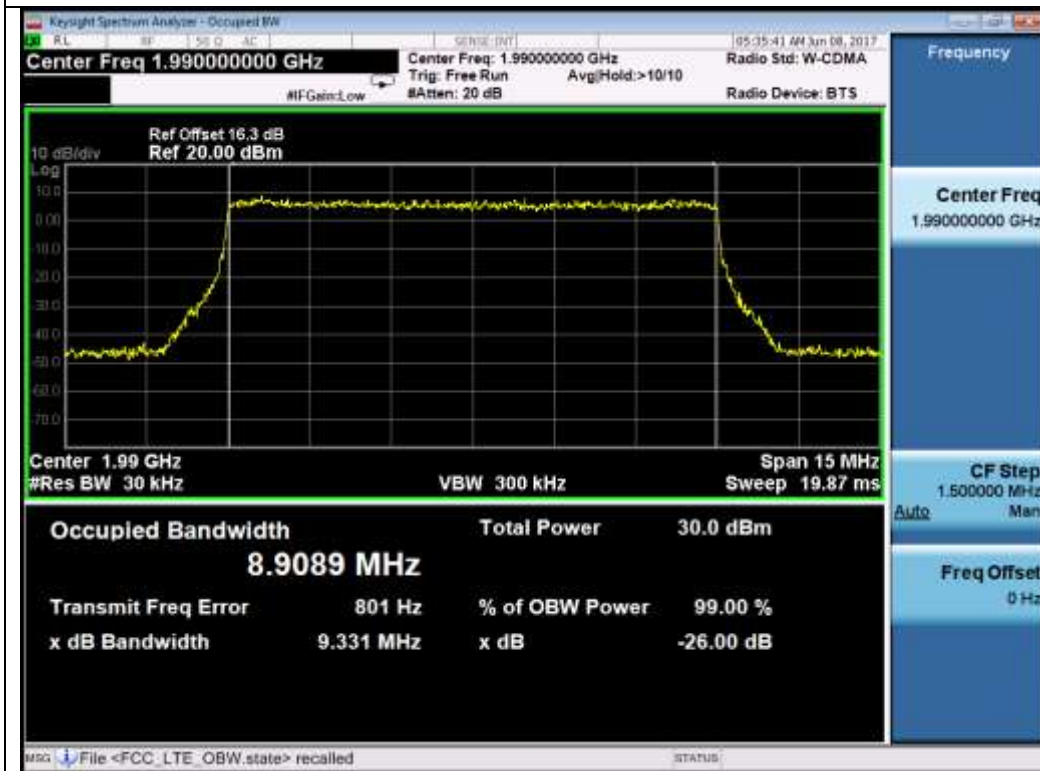
BW 15M QPSK High



BW 20M QPSK High



BW 5M 64QAM High



BW 10M 64QAM High



BW 15M 64QAM High



BW 20M 64QAM High

Test Plots for LTE band 66:



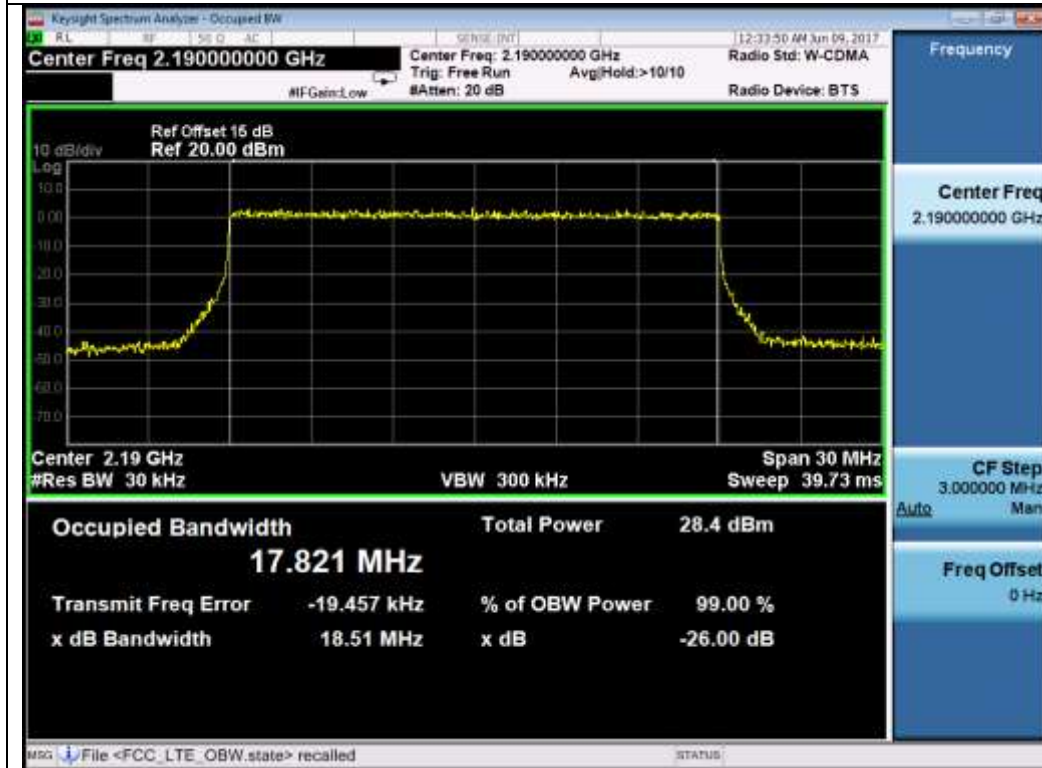
BW 5M QPSK High



BW 10M QPSK High



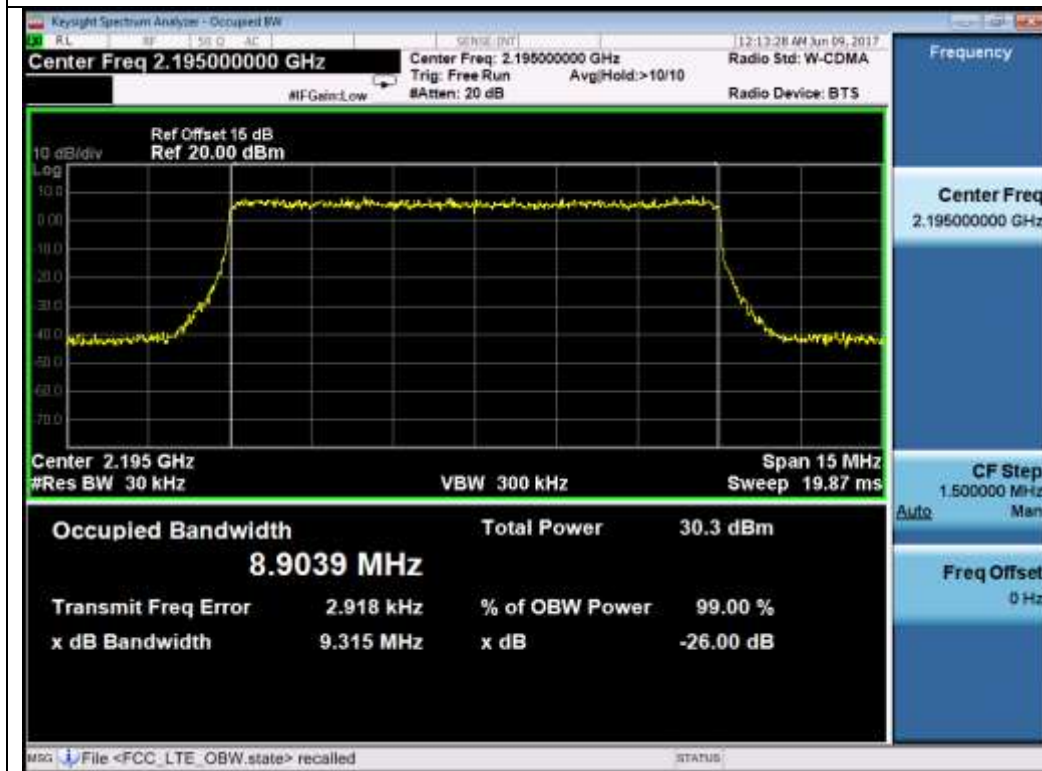
BW 15M QPSK High



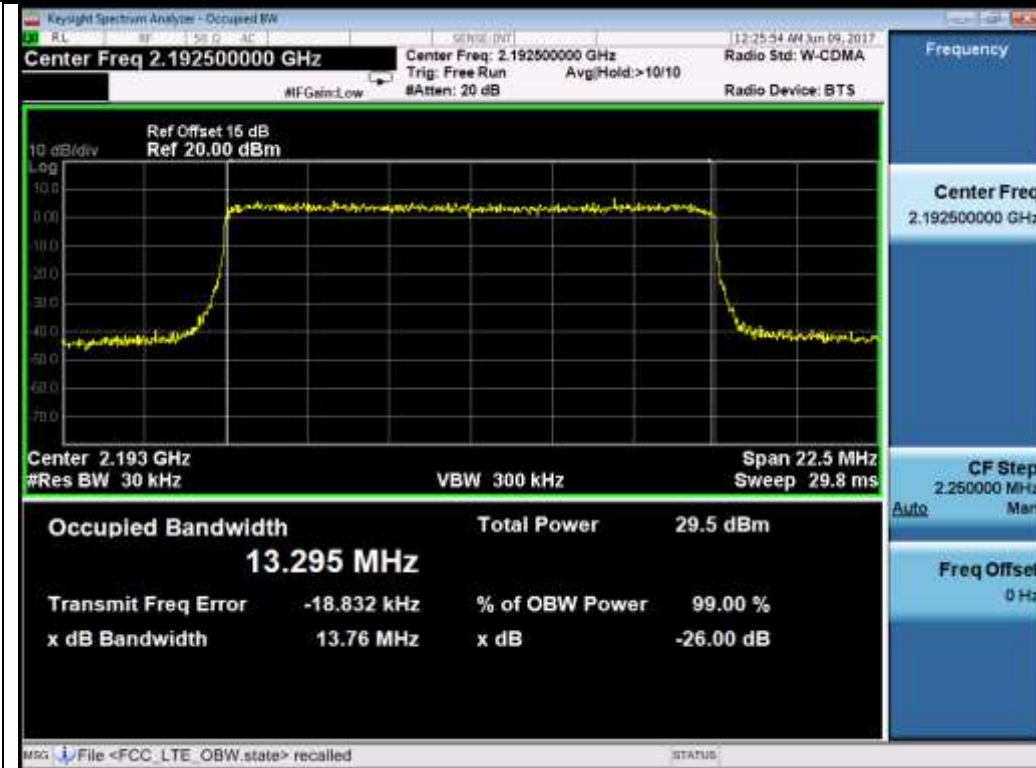
BW 20M QPSK High



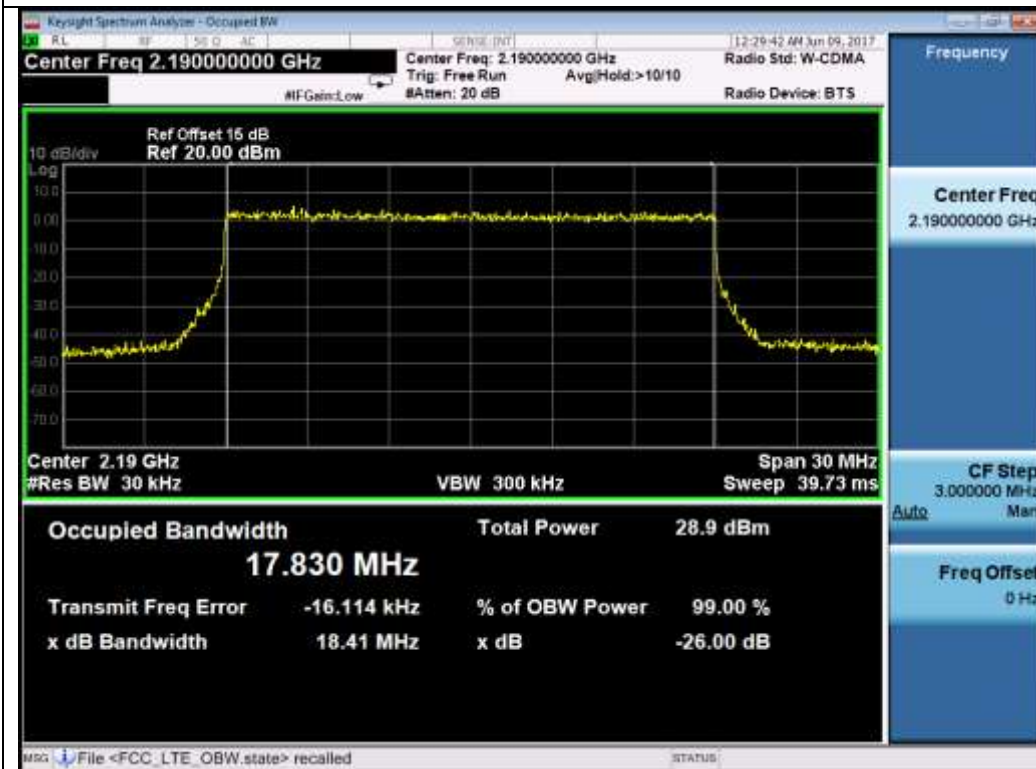
BW 5M 64QAM High



BW 10M 64QAM High



BW 15M 64QAM High

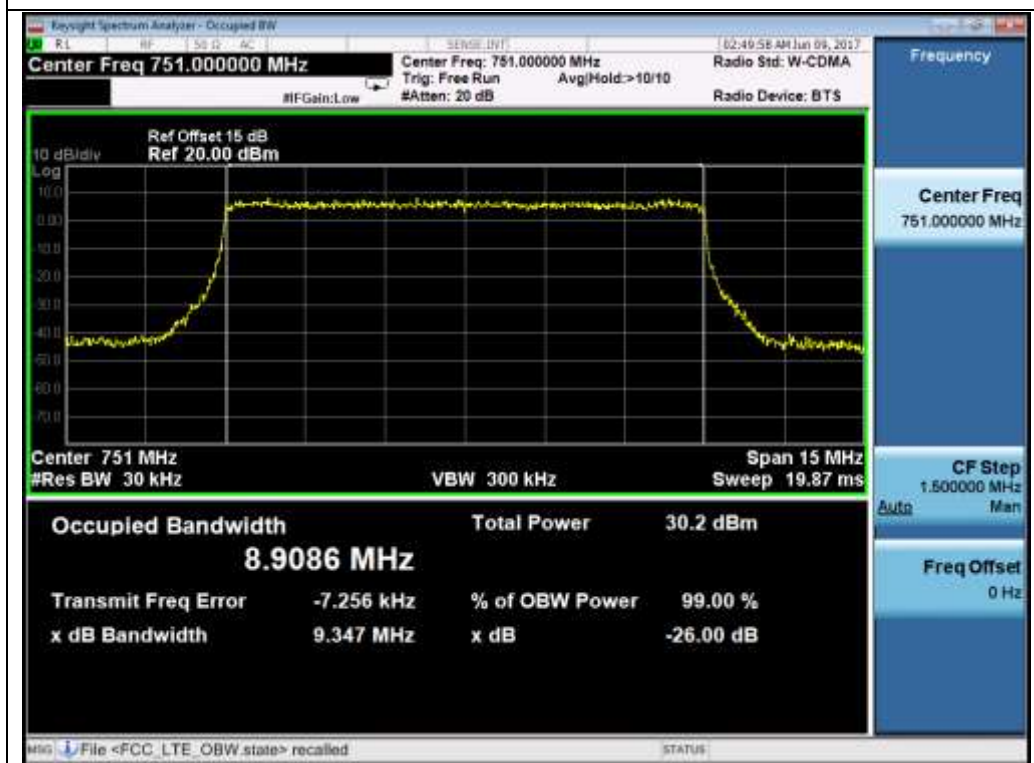


BW 20M 64QAM High

Test Plots for LTE band 13:



10M QPSK Mid



10M 64QAM Mid