# FCC LTE Band Test Data

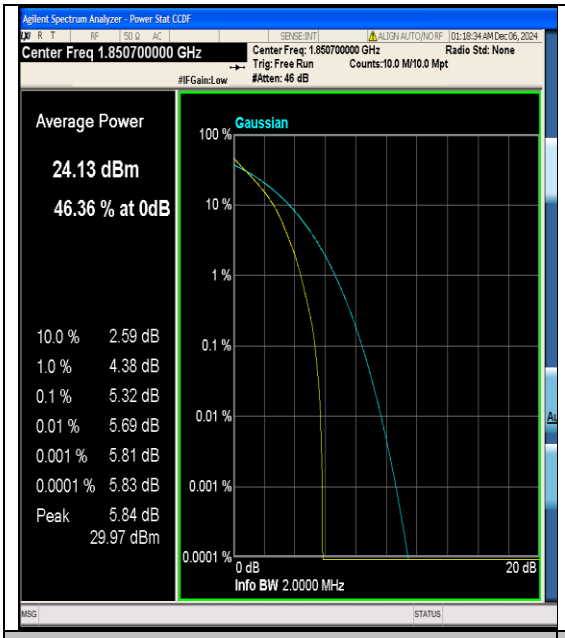
| | | |
|---|---|---|
| **FCC ID** | **:** | **2AVYL-ZEUSS68** |
| **Company:** | **:** | **Shenzhen Eternity Technology Co., Ltd** |
| **EUT** | **:** | **smart phone** |
| **Model Number** | **:** | **ZEUSS68** |
| **Reviewed By** | **:** | **Eric Wang** |

# Appendix B: Peak-to-Average Ratio(CCDF)

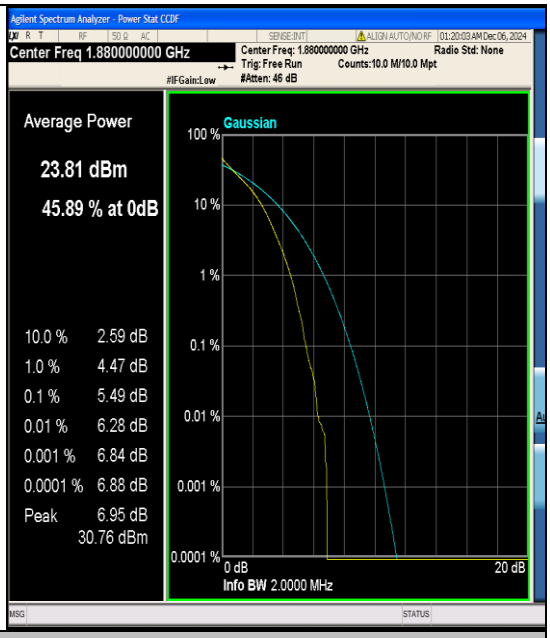
## Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|---|---|---|---|---|---|---|---|
| Band2 | 1.4MHz | QPSK | 18607 | 6RB#0 | 5.32 | 13 | PASS |
| Band2 | 1.4MHz | QPSK | 18900 | 6RB#0 | 5.49 | 13 | PASS |
| Band2 | 1.4MHz | QPSK | 19193 | 6RB#0 | 4.76 | 13 | PASS |
| Band2 | 1.4MHz | 16QAM | 18607 | 6RB#0 | 5.98 | 13 | PASS |
| Band2 | 1.4MHz | 16QAM | 18900 | 6RB#0 | 6.33 | 13 | PASS |
| Band2 | 1.4MHz | 16QAM | 19193 | 6RB#0 | 5.55 | 13 | PASS |
| Band2 | 3MHz | QPSK | 18615 | 15RB#0 | 5.54 | 13 | PASS |
| Band2 | 3MHz | QPSK | 18900 | 15RB#0 | 5.61 | 13 | PASS |
| Band2 | 3MHz | QPSK | 19185 | 15RB#0 | 5.14 | 13 | PASS |
| Band2 | 3MHz | 16QAM | 18615 | 15RB#0 | 6.21 | 13 | PASS |
| Band2 | 3MHz | 16QAM | 18900 | 15RB#0 | 6.47 | 13 | PASS |
| Band2 | 3MHz | 16QAM | 19185 | 15RB#0 | 5.90 | 13 | PASS |
| Band2 | 5MHz | QPSK | 18625 | 25RB#0 | 5.47 | 13 | PASS |
| Band2 | 5MHz | QPSK | 18900 | 25RB#0 | 5.60 | 13 | PASS |
| Band2 | 5MHz | QPSK | 19175 | 25RB#0 | 5.22 | 13 | PASS |
| Band2 | 5MHz | 16QAM | 18625 | 25RB#0 | 6.16 | 13 | PASS |
| Band2 | 5MHz | 16QAM | 18900 | 25RB#0 | 6.27 | 13 | PASS |
| Band2 | 5MHz | 16QAM | 19175 | 25RB#0 | 5.88 | 13 | PASS |
| Band2 | 10MHz | QPSK | 18650 | 50RB#0 | 5.51 | 13 | PASS |
| Band2 | 10MHz | QPSK | 18900 | 50RB#0 | 5.59 | 13 | PASS |
| Band2 | 10MHz | QPSK | 19150 | 50RB#0 | 5.34 | 13 | PASS |
| Band2 | 10MHz | 16QAM | 18650 | 50RB#0 | 6.20 | 13 | PASS |
| Band2 | 10MHz | 16QAM | 18900 | 50RB#0 | 6.33 | 13 | PASS |
| Band2 | 10MHz | 16QAM | 19150 | 50RB#0 | 6.11 | 13 | PASS |
| Band2 | 15MHz | QPSK | 18675 | 75RB#0 | 5.79 | 13 | PASS |
| Band2 | 15MHz | QPSK | 18900 | 75RB#0 | 5.88 | 13 | PASS |
| Band2 | 15MHz | QPSK | 19125 | 75RB#0 | 5.70 | 13 | PASS |
| Band2 | 15MHz | 16QAM | 18675 | 75RB#0 | 6.29 | 13 | PASS |
| Band2 | 15MHz | 16QAM | 18900 | 75RB#0 | 6.38 | 13 | PASS |
| Band2 | 15MHz | 16QAM | 19125 | 75RB#0 | 6.23 | 13 | PASS |
| Band2 | 20MHz | QPSK | 18700 | 100RB#0 | 5.51 | 13 | PASS |
| Band2 | 20MHz | QPSK | 18900 | 100RB#0 | 5.64 | 13 | PASS |
| Band2 | 20MHz | QPSK | 19100 | 100RB#0 | 5.54 | 13 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 100RB#0 | 6.28 | 13 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 100RB#0 | 6.34 | 13 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 100RB#0 | 6.25 | 13 | PASS |

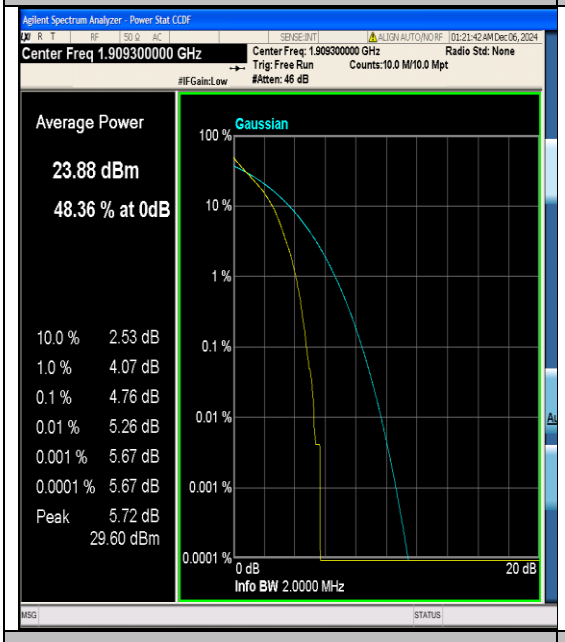
## Test Graphs



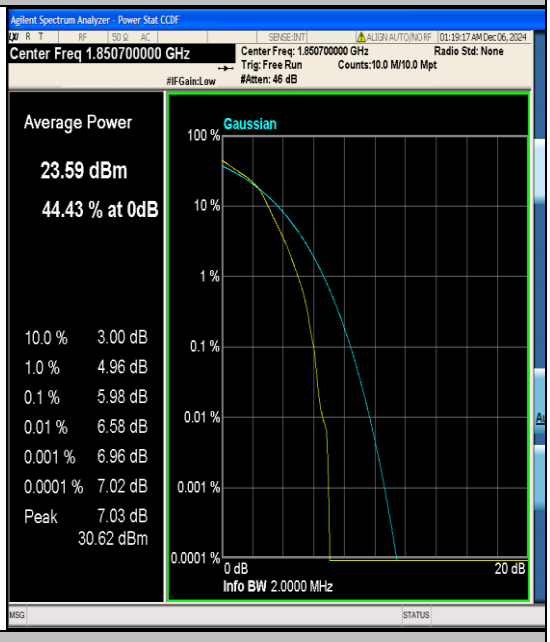

Band2-1.4MHz-QPSK-18607-6RB#0-PASS



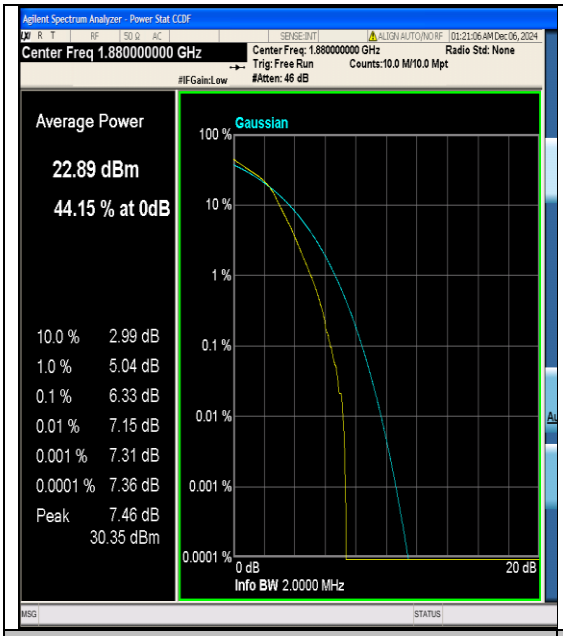

Band2-1.4MHz-QPSK-18900-6RB#0-PASS



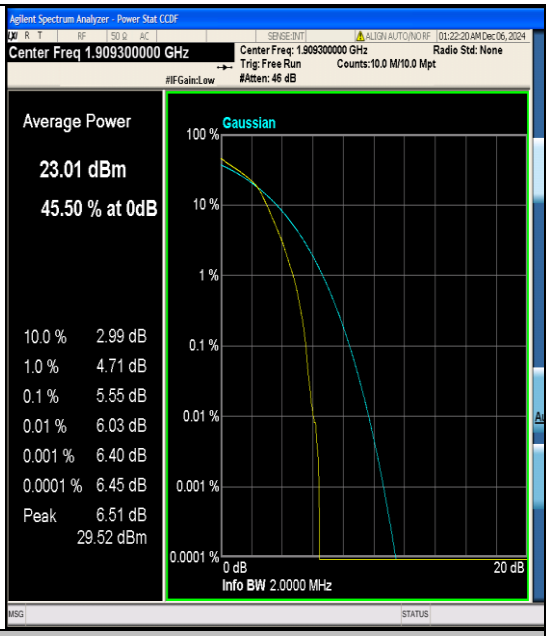

Band2-1.4MHz-QPSK-19193-6RB#0-PASS



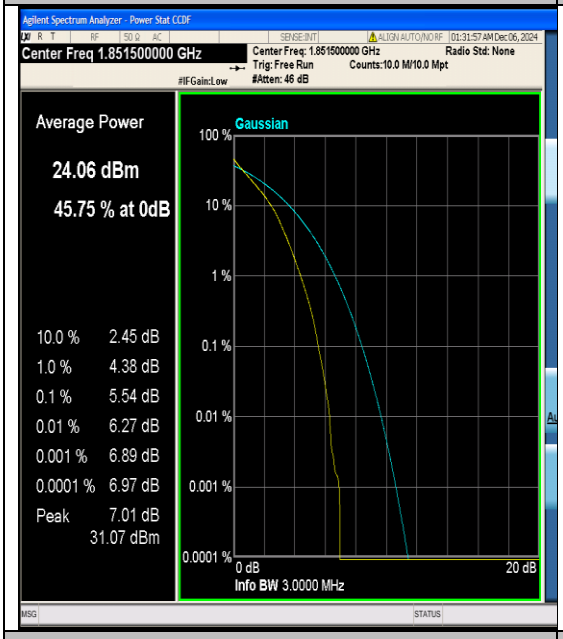

Band2-1.4MHz-16QAM-18607-6RB#0-PASS



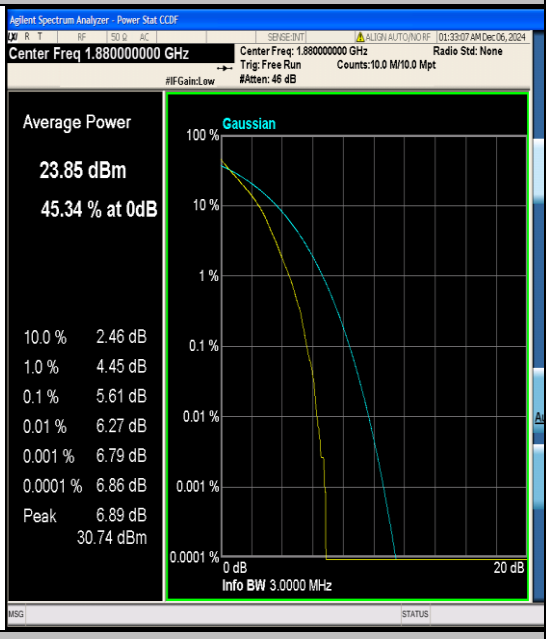

Band2-1.4MHz-16QAM-18900-6RB#0-PASS



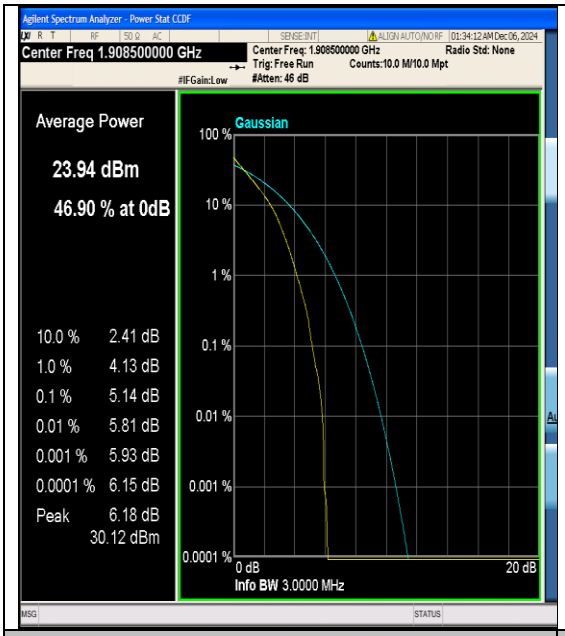

Band2-1.4MHz-16QAM-19193-6RB#0-PASS




Band2-3MHz-QPSK-18615-15RB#0-PASS




Band2-3MHz-QPSK-18900-15RB#0-PASS

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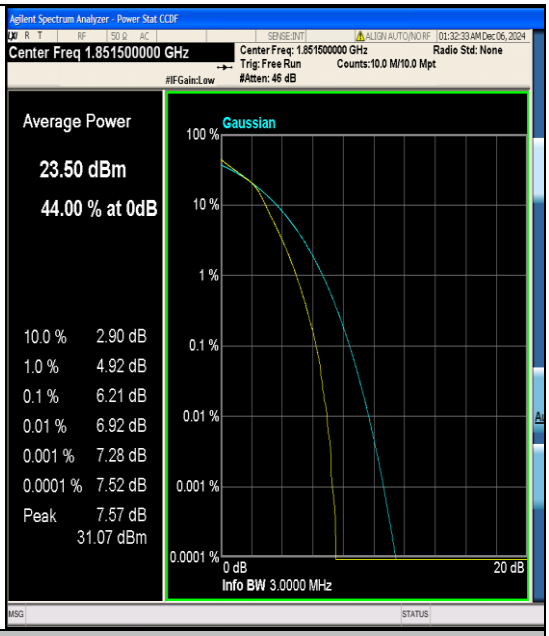


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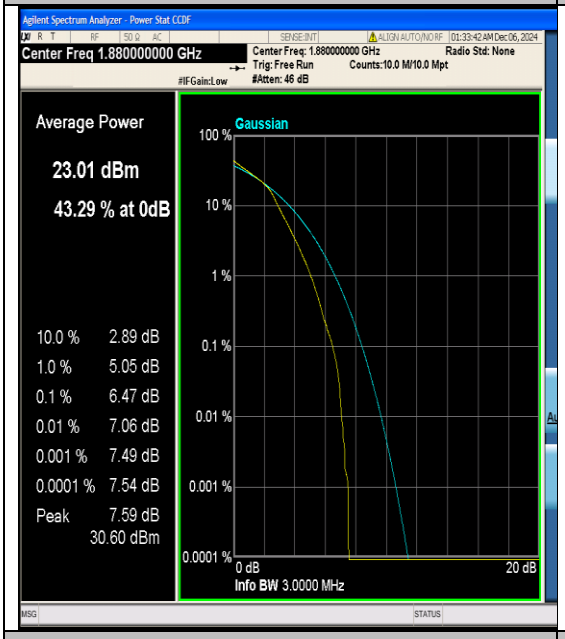
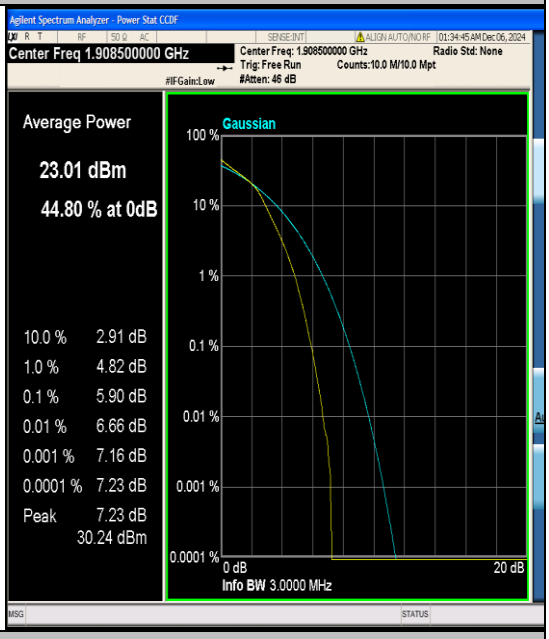



Band2-3MHz-16QAM-18900-15RB#0-PASS

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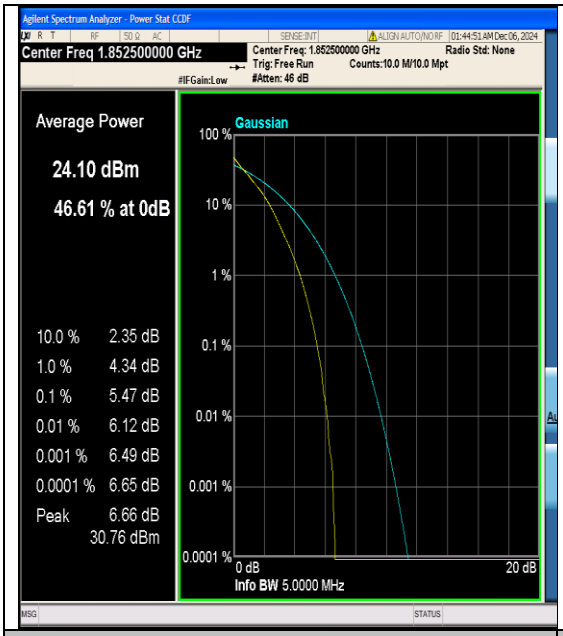
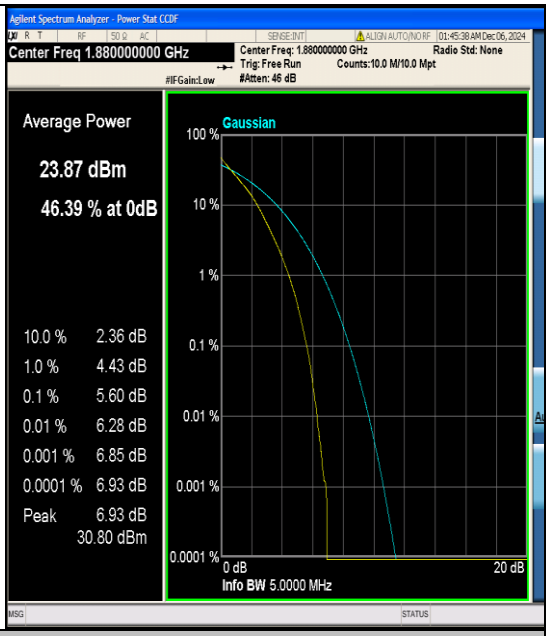
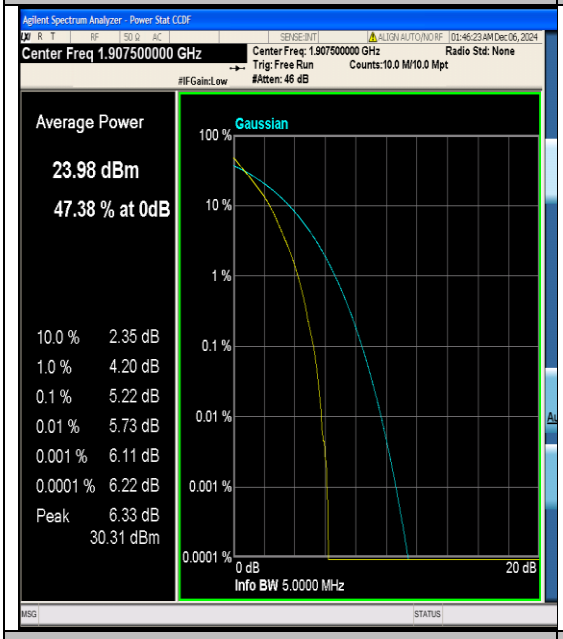


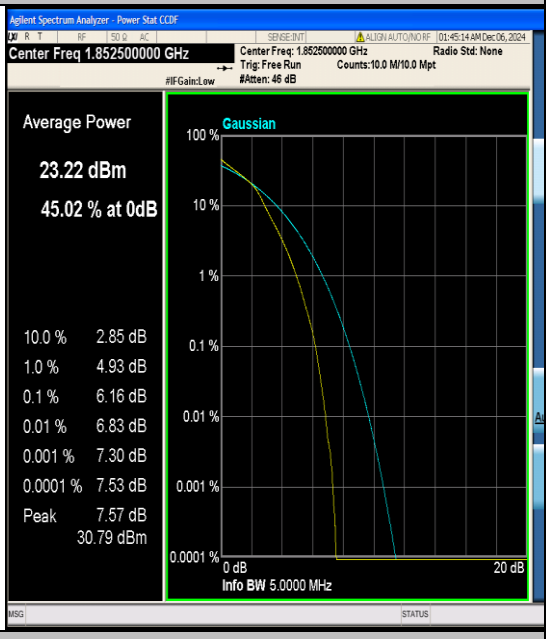

Band2-5MHz-QPSK-18625-25RB#0-PASS



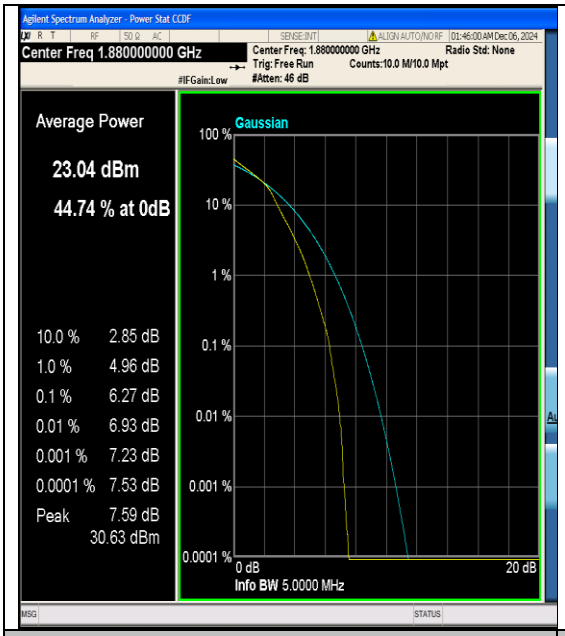

Band2-5MHz-QPSK-18900-25RB#0-PASS




Band2-5MHz-QPSK-19175-25RB#0-PASS




Band2-5MHz-16QAM-18625-25RB#0-PASS

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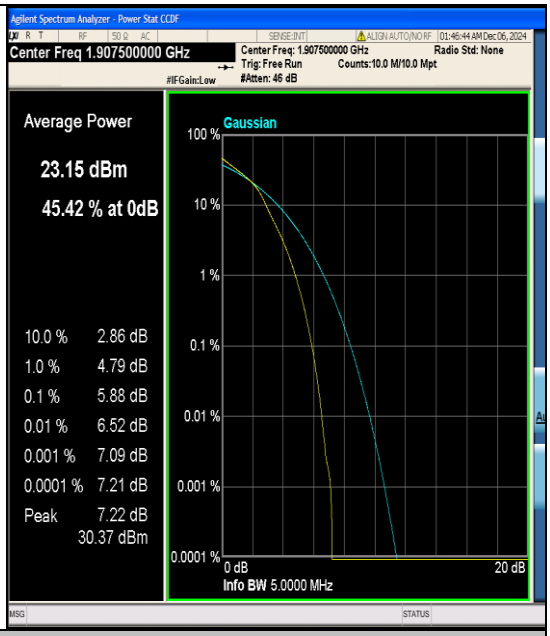


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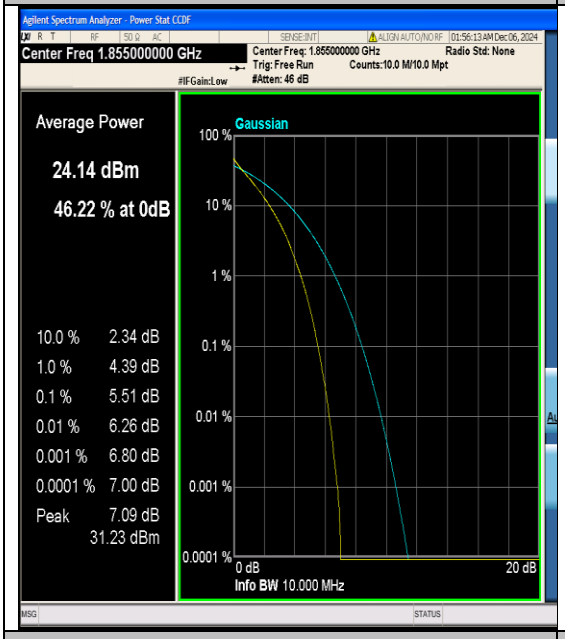
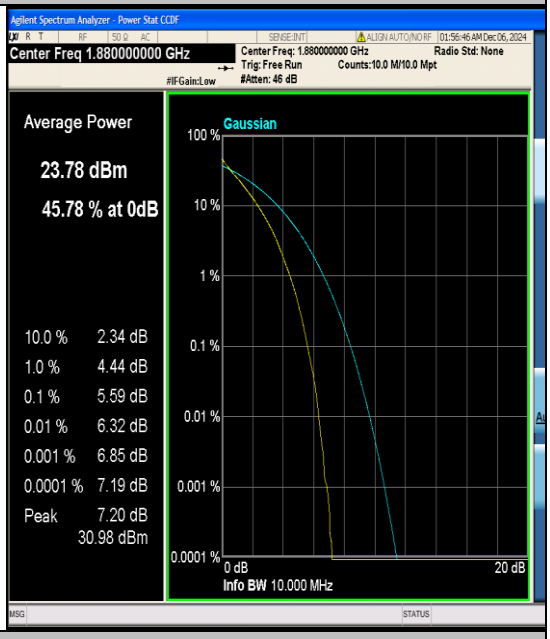



Band2-10MHz-QPSK-18650-50RB#0-PASS

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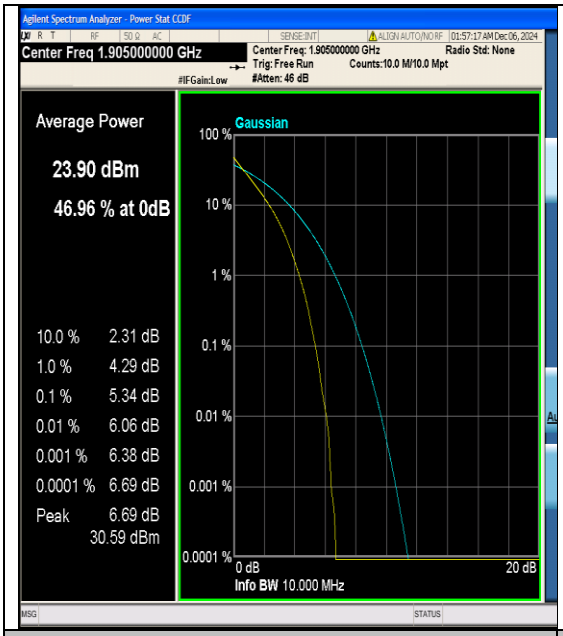
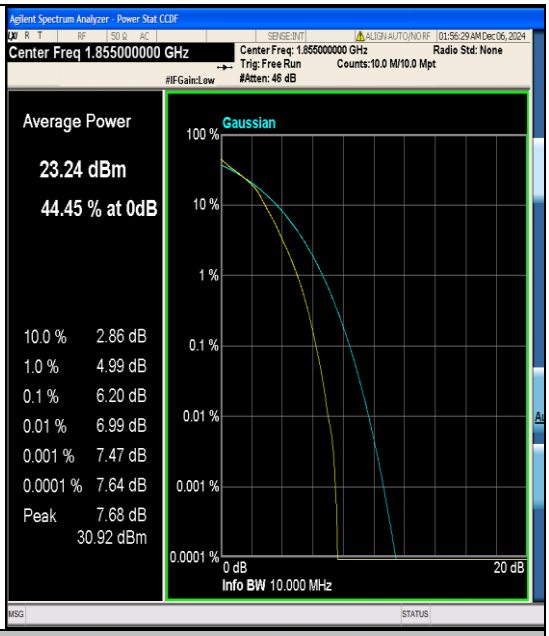
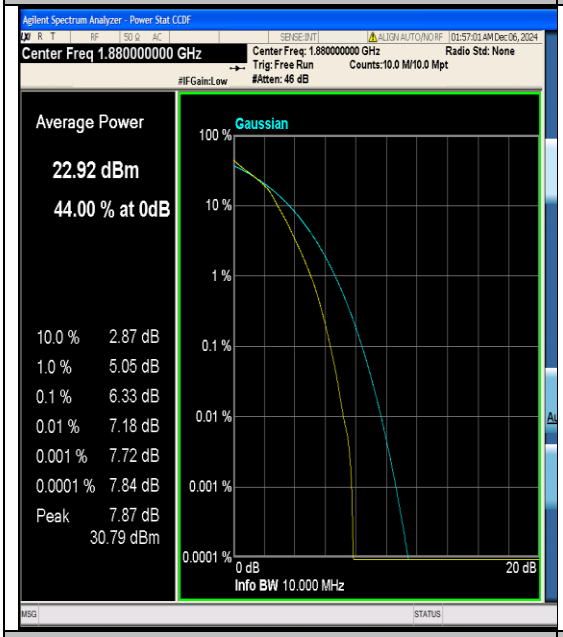


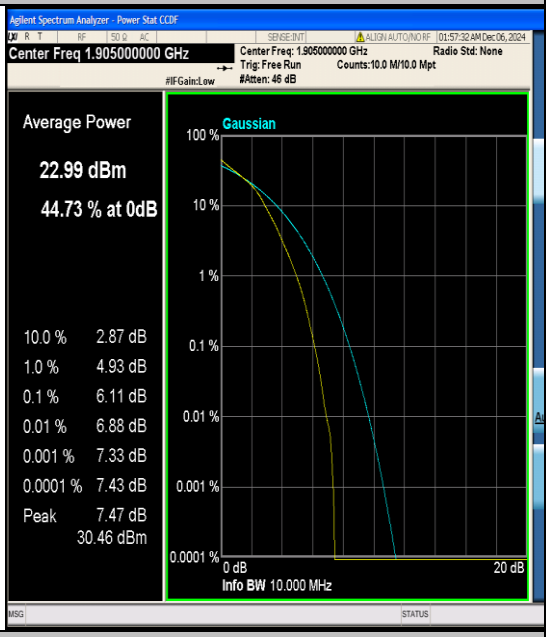

Band2-10MHz-QPSK-19150-50RB#0-PASS



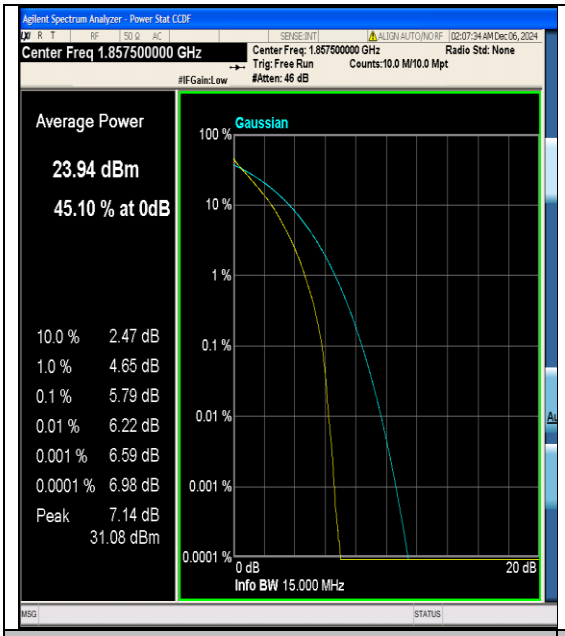

Band2-10MHz-16QAM-18650-50RB#0-PASS



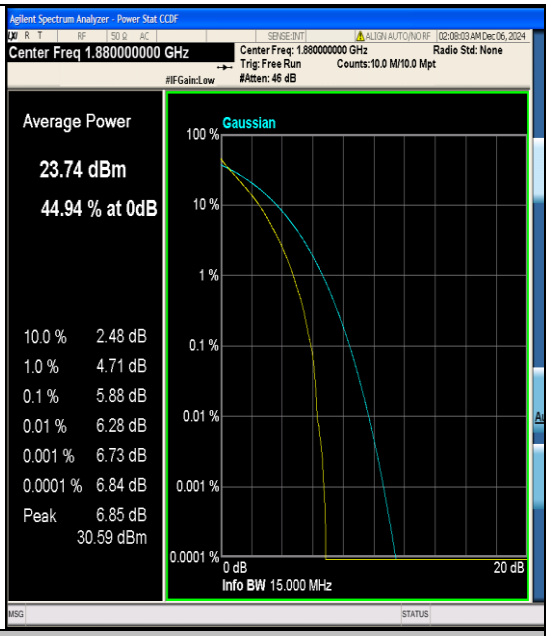

Band2-10MHz-16QAM-18900-50RB#0-PASS



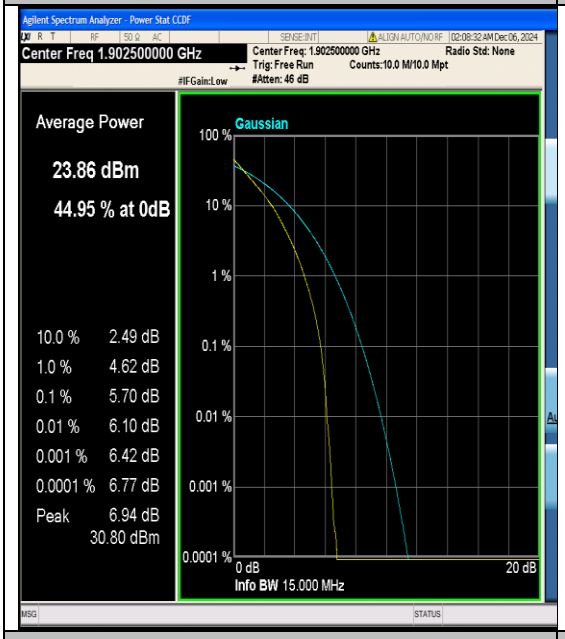

Band2-10MHz-16QAM-19150-50RB#0-PASS



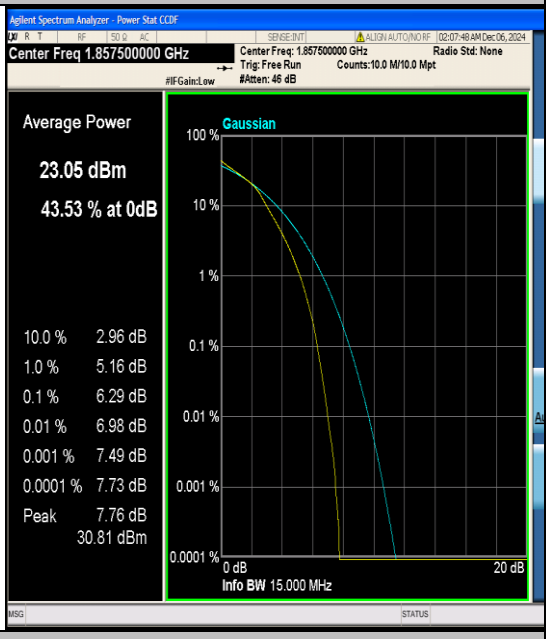

Band2-15MHz-QPSK-18675-75RB#0-PASS



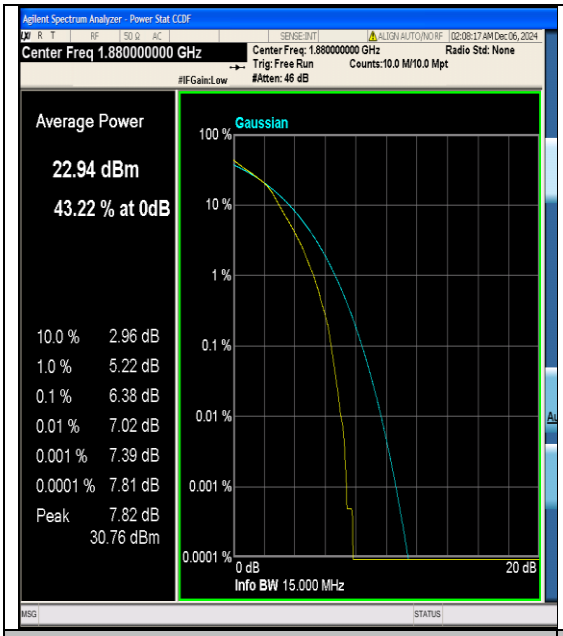

Band2-15MHz-QPSK-18900-75RB#0-PASS



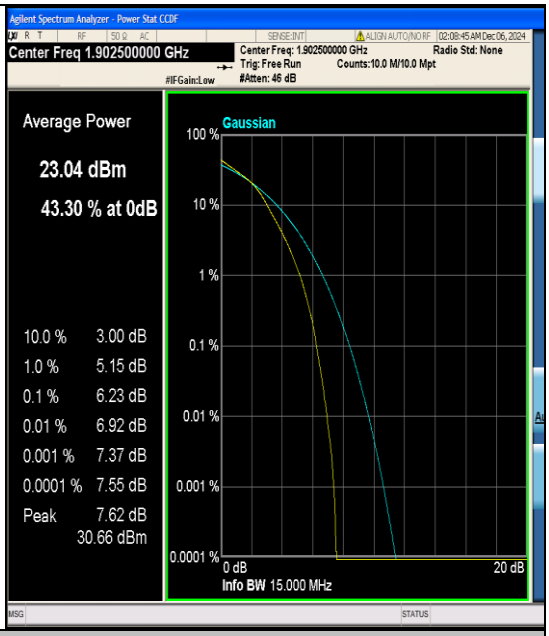

Band2-15MHz-QPSK-19125-75RB#0-PASS



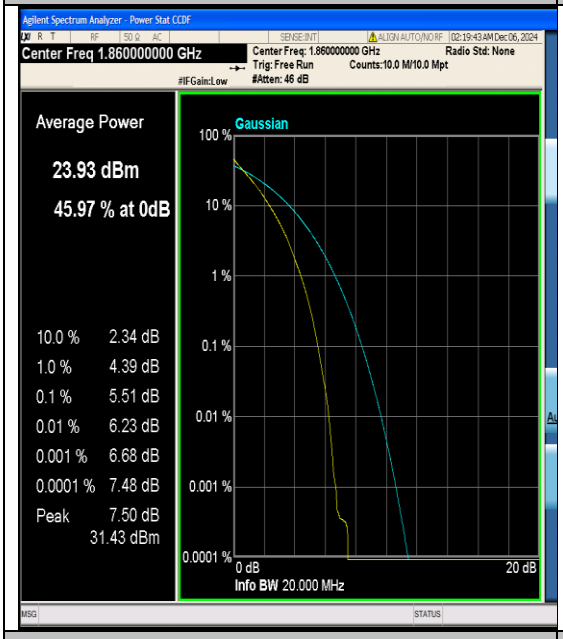

Band2-15MHz-16QAM-18675-75RB#0-PASS



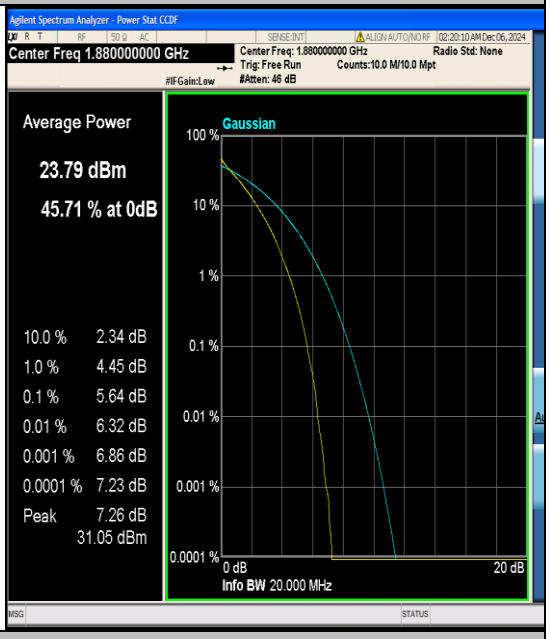

Band2-15MHz-16QAM-18900-75RB#0-PASS



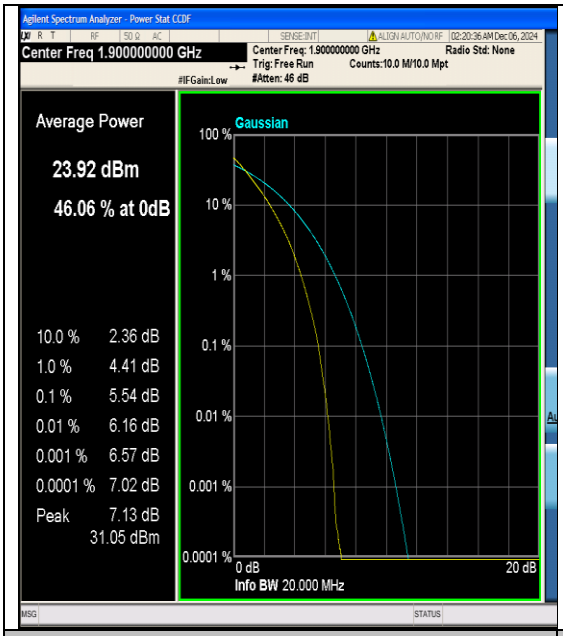

Band2-15MHz-16QAM-19125-75RB#0-PASS



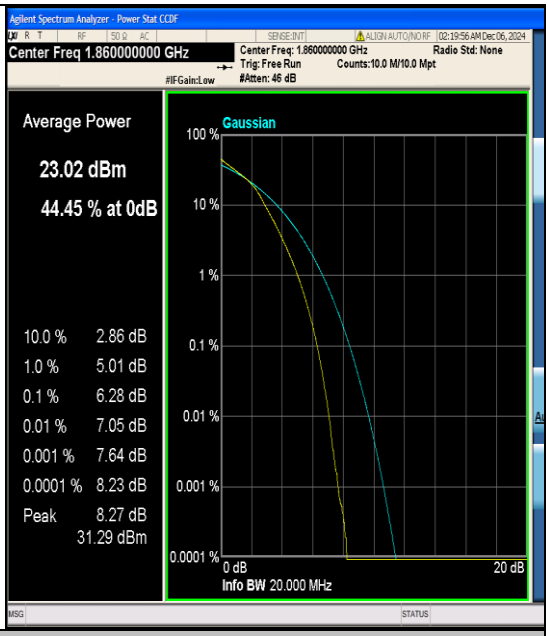

Band2-20MHz-QPSK-18700-100RB#0-PASS



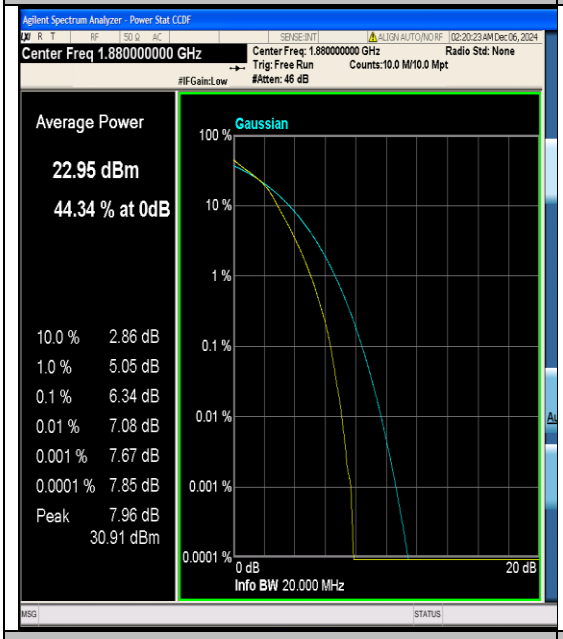

Band2-20MHz-QPSK-18900-100RB#0-PASS



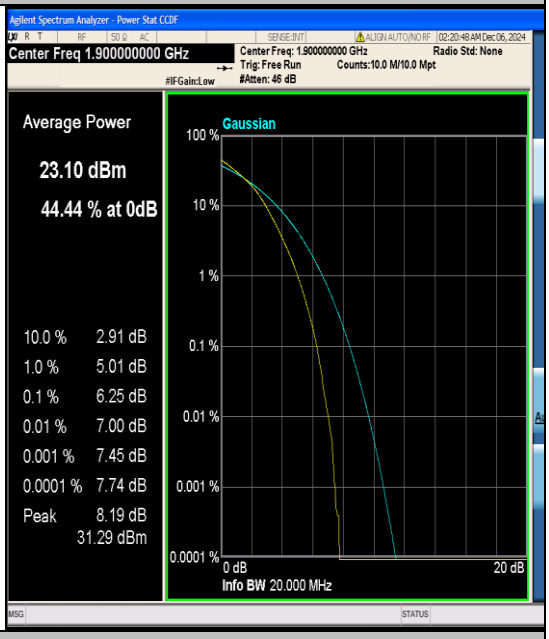

Band2-20MHz-QPSK-19100-100RB#0-PASS




Band2-20MHz-16QAM-18700-100RB#0-PASS




Band2-20MHz-16QAM-18900-100RB#0-PASS




Band2-20MHz-16QAM-19100-100RB#0-PASS

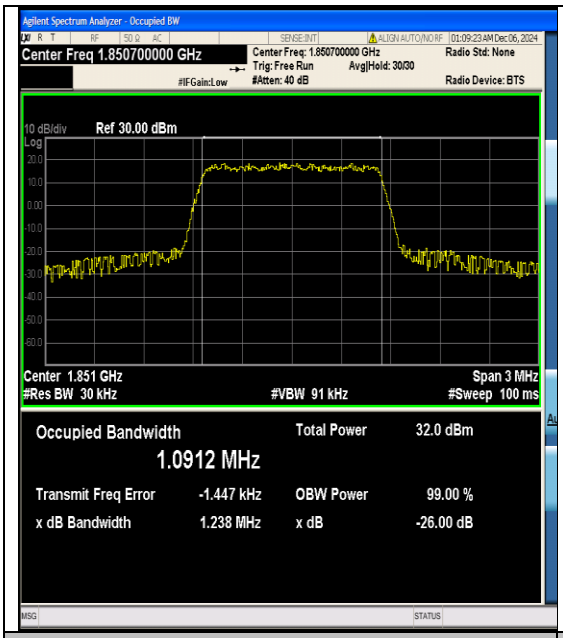
# Appendix C: 26dB Bandwidth and Occupied Bandwidth

## Test Result

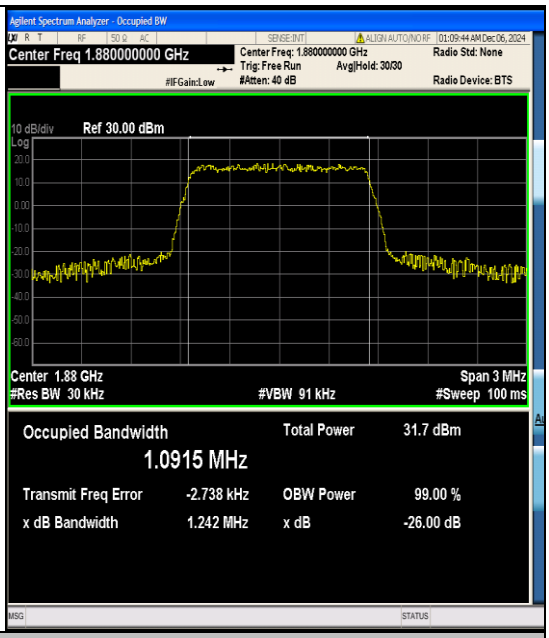
| Band | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|---|---|---|---|---|---|---|---|
| Band2 | 1.4MHz | QPSK | 18607 | 6RB#0 | 1.0912 | 1.238 | PASS |
| Band2 | 1.4MHz | QPSK | 18900 | 6RB#0 | 1.0915 | 1.242 | PASS |
| Band2 | 1.4MHz | QPSK | 19193 | 6RB#0 | 1.0918 | 1.239 | PASS |
| Band2 | 1.4MHz | 16QAM | 18607 | 6RB#0 | 1.0999 | 1.249 | PASS |
| Band2 | 1.4MHz | 16QAM | 18900 | 6RB#0 | 1.1018 | 1.254 | PASS |
| Band2 | 1.4MHz | 16QAM | 19193 | 6RB#0 | 1.1028 | 1.248 | PASS |
| Band2 | 3MHz | QPSK | 18615 | 15RB#0 | 2.7112 | 3.007 | PASS |
| Band2 | 3MHz | QPSK | 18900 | 15RB#0 | 2.7171 | 3.036 | PASS |
| Band2 | 3MHz | QPSK | 19185 | 15RB#0 | 2.7124 | 3.030 | PASS |
| Band2 | 3MHz | 16QAM | 18615 | 15RB#0 | 2.6976 | 3.017 | PASS |
| Band2 | 3MHz | 16QAM | 18900 | 15RB#0 | 2.7013 | 3.030 | PASS |
| Band2 | 3MHz | 16QAM | 19185 | 15RB#0 | 2.7011 | 3.014 | PASS |
| Band2 | 5MHz | QPSK | 18625 | 25RB#0 | 4.5050 | 4.974 | PASS |
| Band2 | 5MHz | QPSK | 18900 | 25RB#0 | 4.5069 | 4.974 | PASS |
| Band2 | 5MHz | QPSK | 19175 | 25RB#0 | 4.5086 | 4.982 | PASS |
| Band2 | 5MHz | 16QAM | 18625 | 25RB#0 | 4.5057 | 4.970 | PASS |
| Band2 | 5MHz | 16QAM | 18900 | 25RB#0 | 4.5002 | 4.958 | PASS |
| Band2 | 5MHz | 16QAM | 19175 | 25RB#0 | 4.5063 | 4.975 | PASS |
| Band2 | 10MHz | QPSK | 18650 | 50RB#0 | 8.9939 | 9.901 | PASS |
| Band2 | 10MHz | QPSK | 18900 | 50RB#0 | 8.9929 | 9.904 | PASS |
| Band2 | 10MHz | QPSK | 19150 | 50RB#0 | 8.9733 | 9.904 | PASS |
| Band2 | 10MHz | 16QAM | 18650 | 50RB#0 | 9.0047 | 9.918 | PASS |
| Band2 | 10MHz | 16QAM | 18900 | 50RB#0 | 8.9735 | 9.910 | PASS |
| Band2 | 10MHz | 16QAM | 19150 | 50RB#0 | 8.9959 | 9.908 | PASS |
| Band2 | 15MHz | QPSK | 18675 | 75RB#0 | 13.508 | 14.90 | PASS |
| Band2 | 15MHz | QPSK | 18900 | 75RB#0 | 13.494 | 14.97 | PASS |
| Band2 | 15MHz | QPSK | 19125 | 75RB#0 | 13.477 | 14.95 | PASS |
| Band2 | 15MHz | 16QAM | 18675 | 75RB#0 | 13.488 | 14.93 | PASS |
| Band2 | 15MHz | 16QAM | 18900 | 75RB#0 | 13.500 | 14.93 | PASS |
| Band2 | 15MHz | 16QAM | 19125 | 75RB#0 | 13.489 | 14.88 | PASS |
| Band2 | 20MHz | QPSK | 18700 | 100RB#0 | 17.979 | 19.68 | PASS |
| Band2 | 20MHz | QPSK | 18900 | 100RB#0 | 17.985 | 19.77 | PASS |
| Band2 | 20MHz | QPSK | 19100 | 100RB#0 | 18.010 | 19.82 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 100RB#0 | 18.030 | 19.72 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Band2 | 20MHz | 16QAM | 18900 | 100RB#0 | 18.048 | 19.74 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 100RB#0 | 17.974 | 19.63 | PASS |

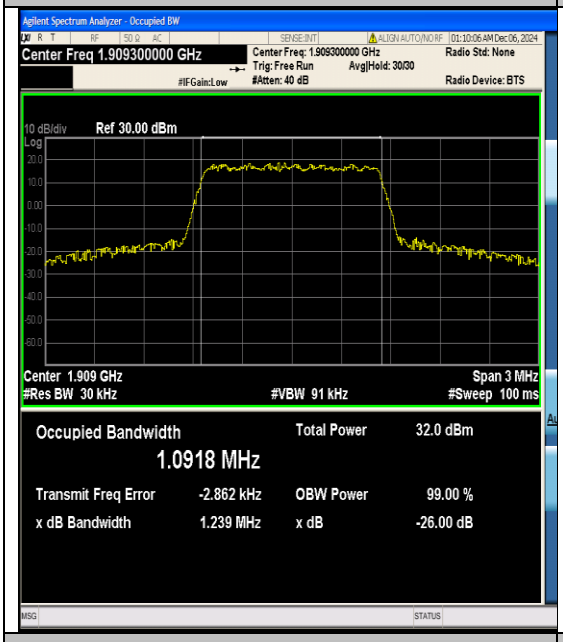
## Test Graphs



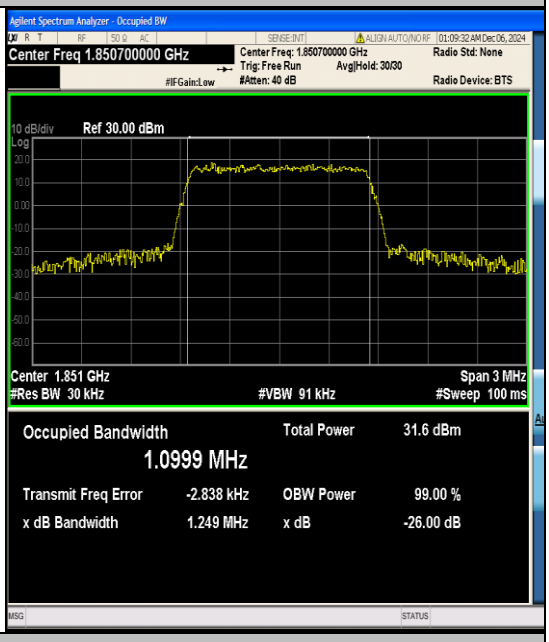

Band2-1.4MHz-QPSK-18607-6RB#0-PASS



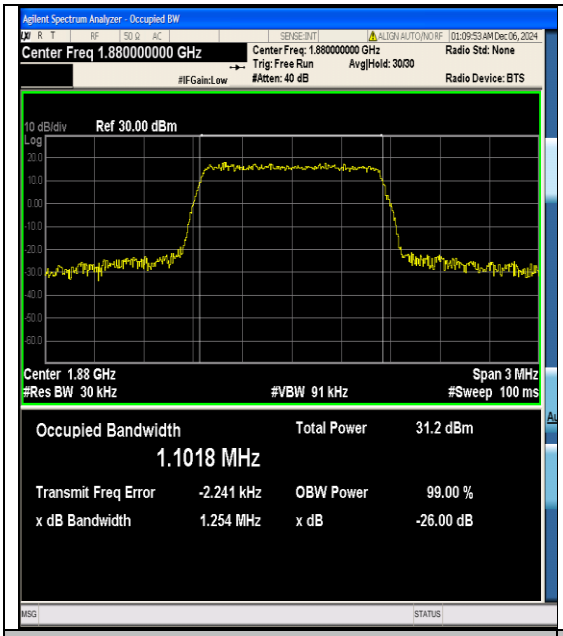

Band2-1.4MHz-QPSK-18900-6RB#0-PASS



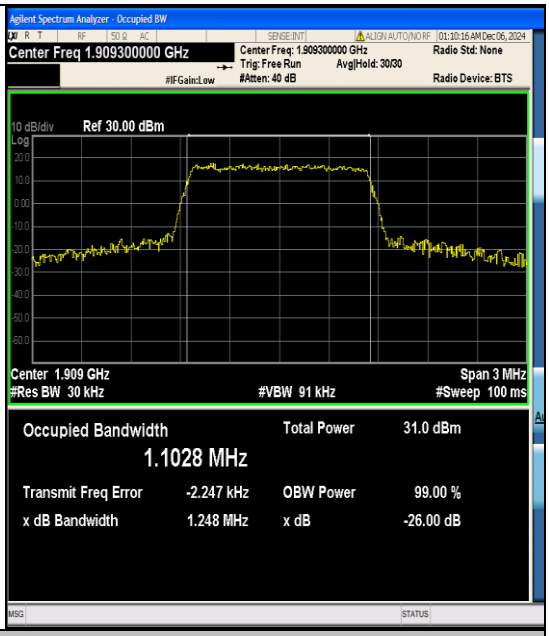

Band2-1.4MHz-QPSK-19193-6RB#0-PASS




Band2-1.4MHz-16QAM-18607-6RB#0-PASS




Band2-1.4MHz-16QAM-18900-6RB#0-PASS

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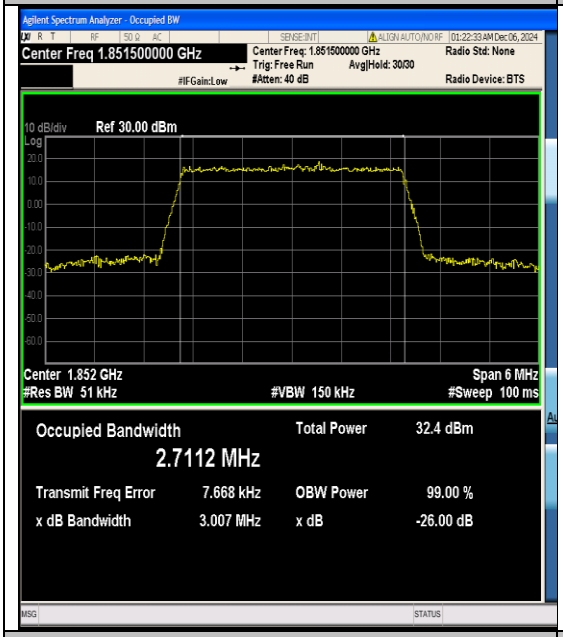
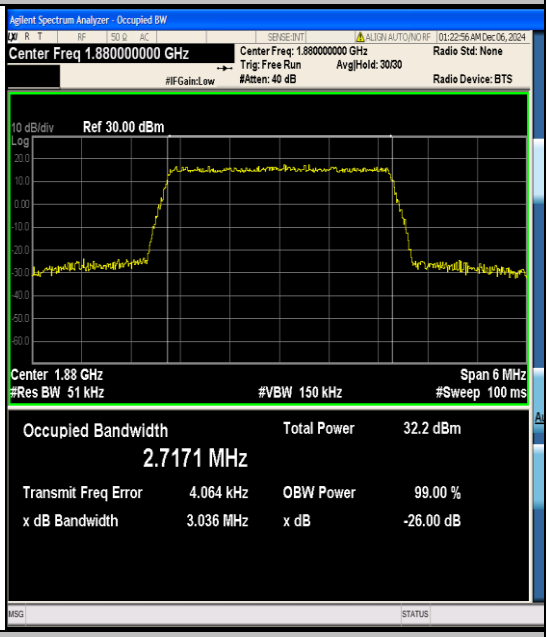



Band2-3MHz-QPSK-18615-15RB#0-PASS

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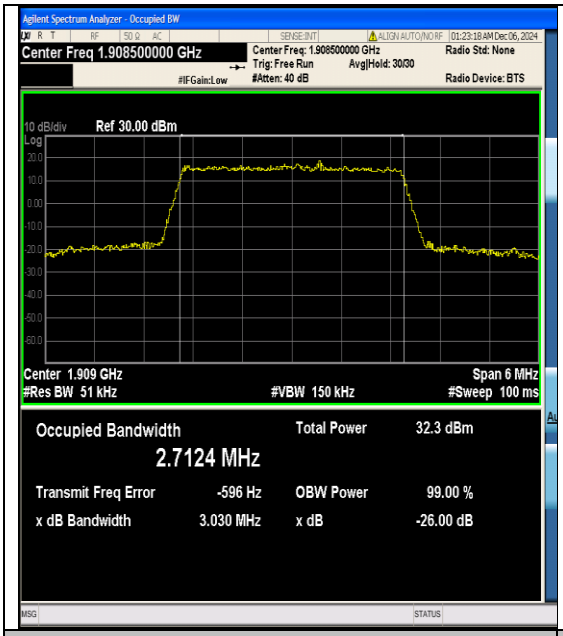
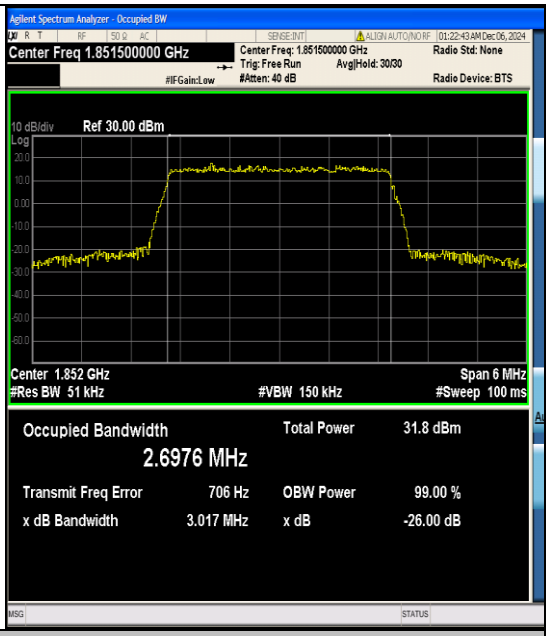
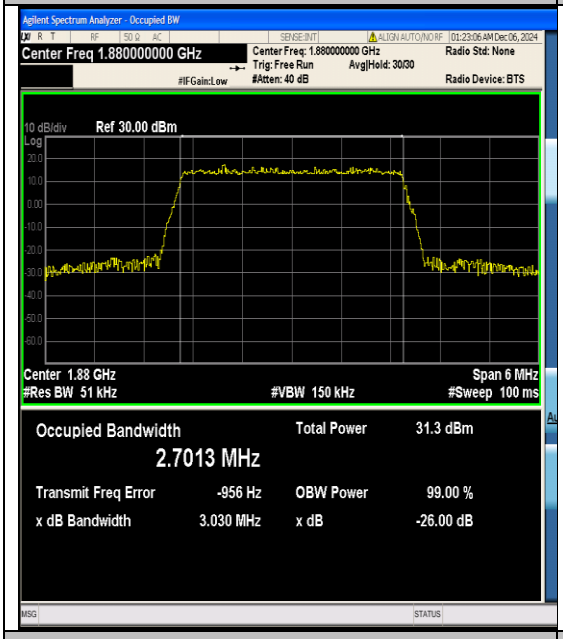


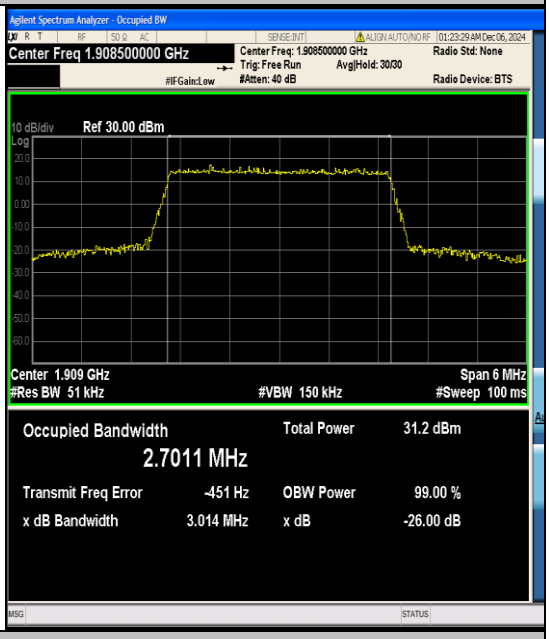

Band2-3MHz-QPSK-19185-15RB#0-PASS




Band2-3MHz-16QAM-18615-15RB#0-PASS




Band2-3MHz-16QAM-18900-15RB#0-PASS

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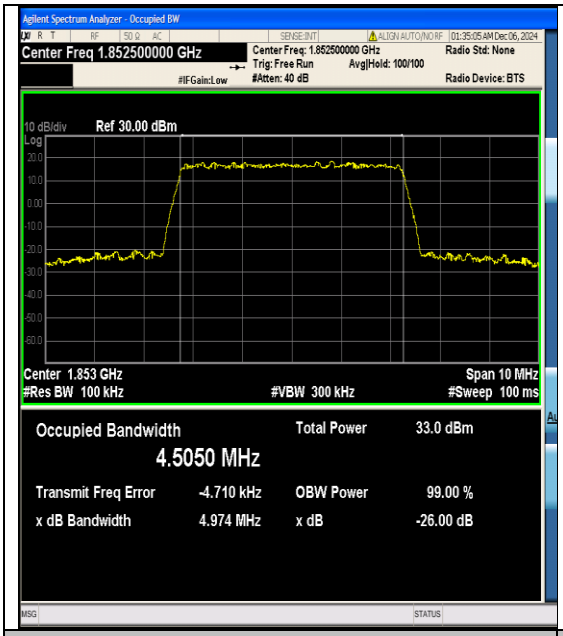
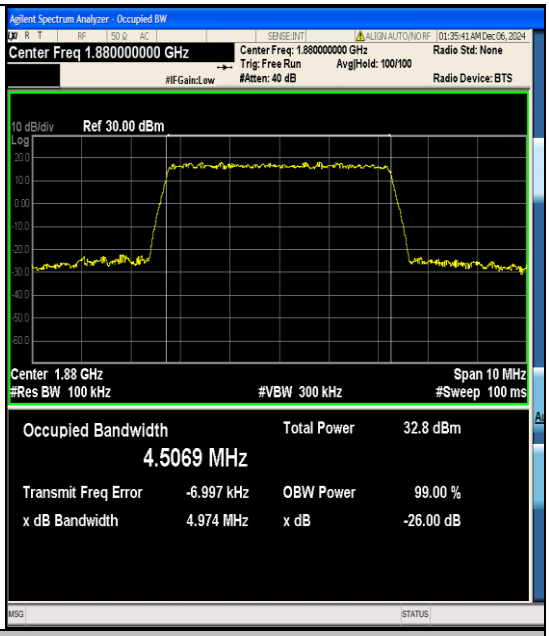
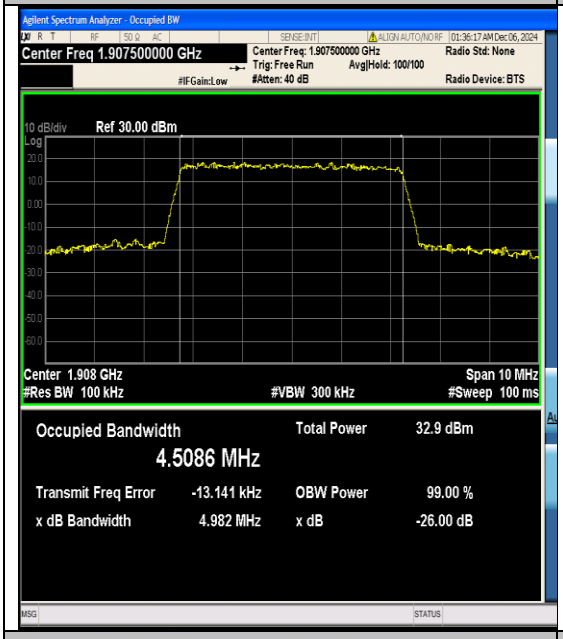


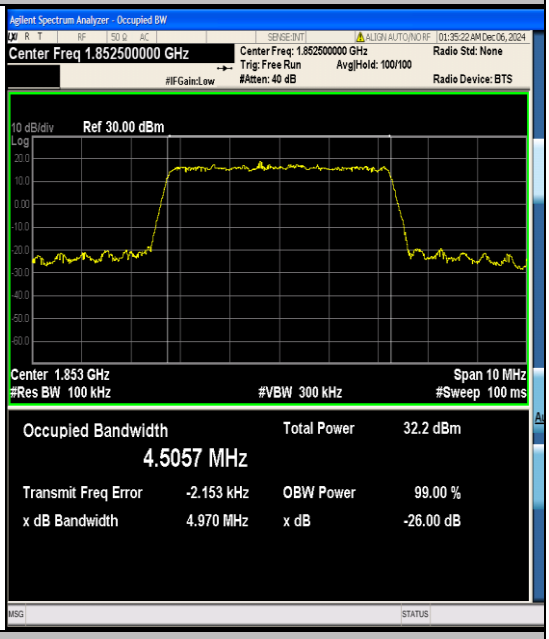

Band2-5MHz-QPSK-18625-25RB#0-PASS



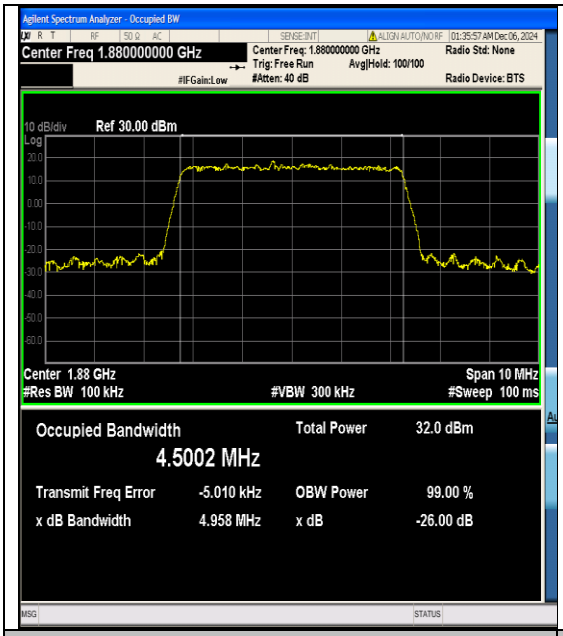

Band2-5MHz-QPSK-18900-25RB#0-PASS




Band2-5MHz-QPSK-19175-25RB#0-PASS




Band2-5MHz-16QAM-18625-25RB#0-PASS

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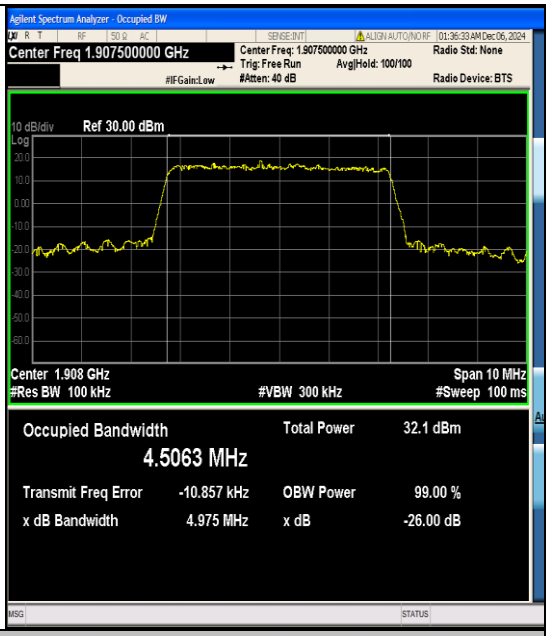
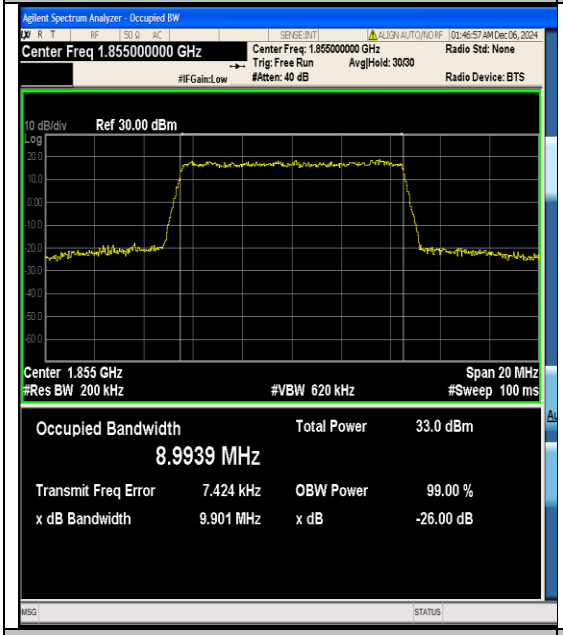
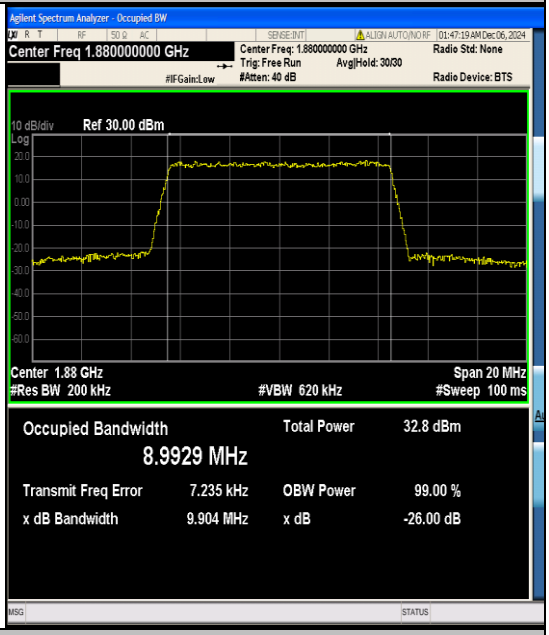


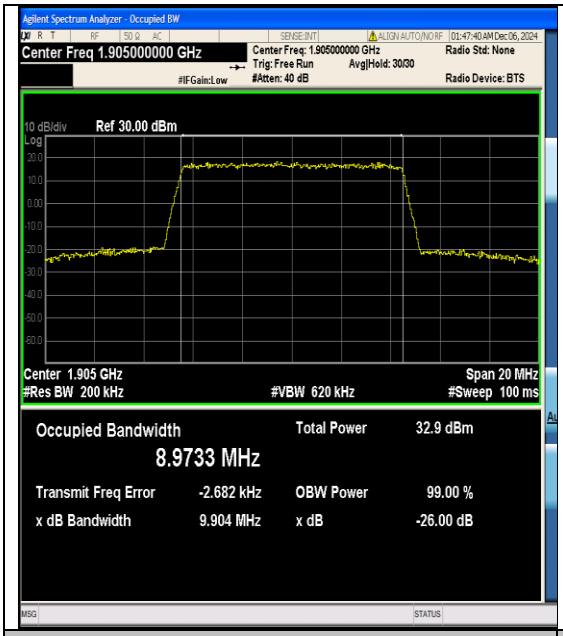

Band2-5MHz-16QAM-19175-25RB#0-PASS



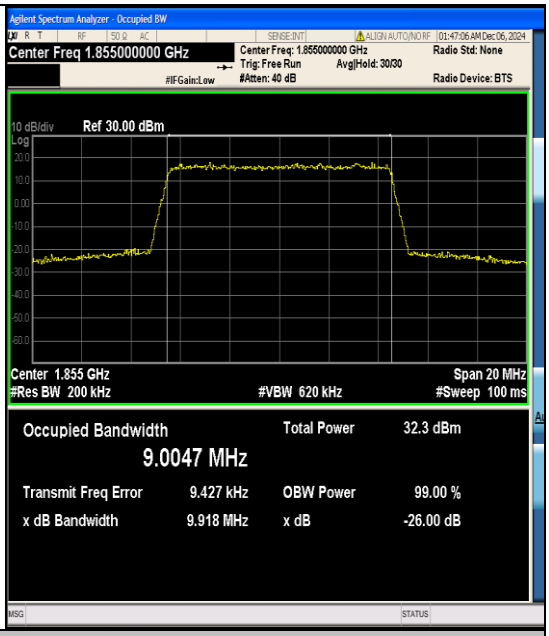

Band2-10MHz-QPSK-18650-50RB#0-PASS



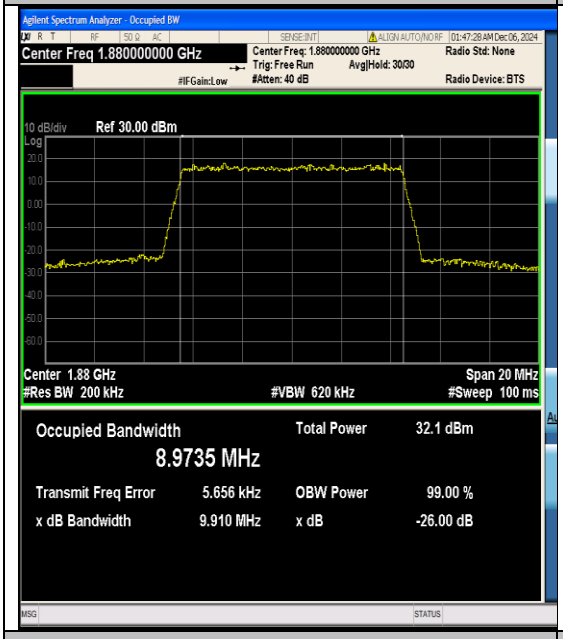

Band2-10MHz-QPSK-18900-50RB#0-PASS




Band2-10MHz-QPSK-19150-50RB#0-PASS




Band2-10MHz-16QAM-18650-50RB#0-PASS

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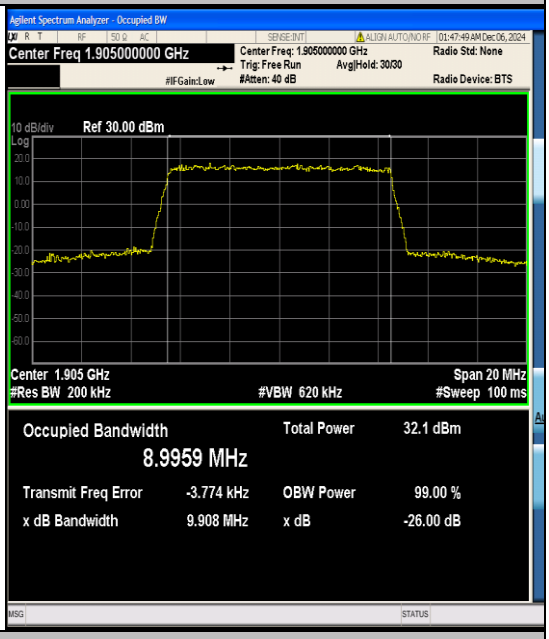
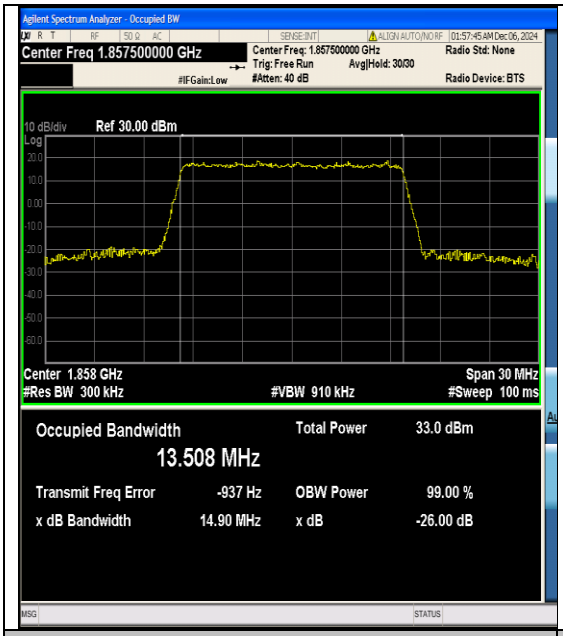
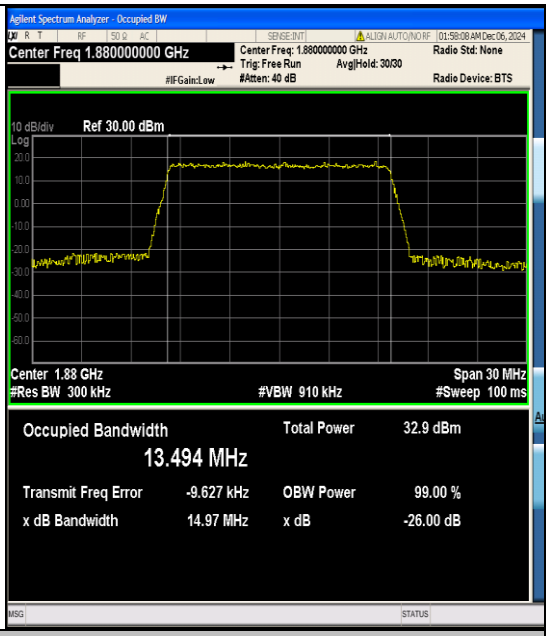


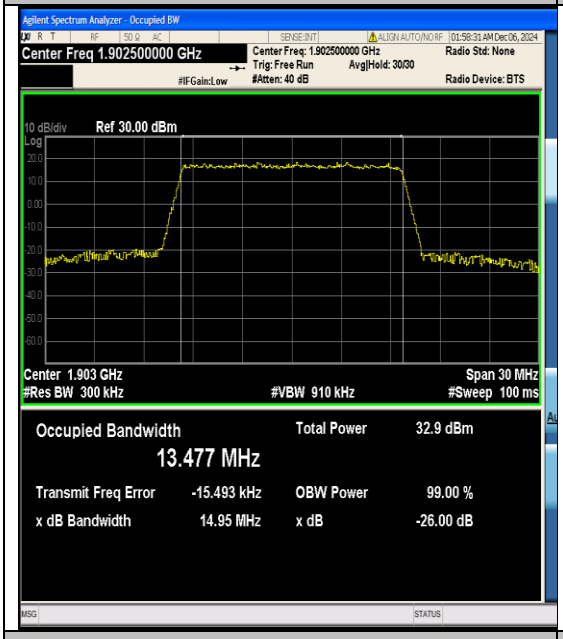

Band2-10MHz-16QAM-19150-50RB#0-PASS



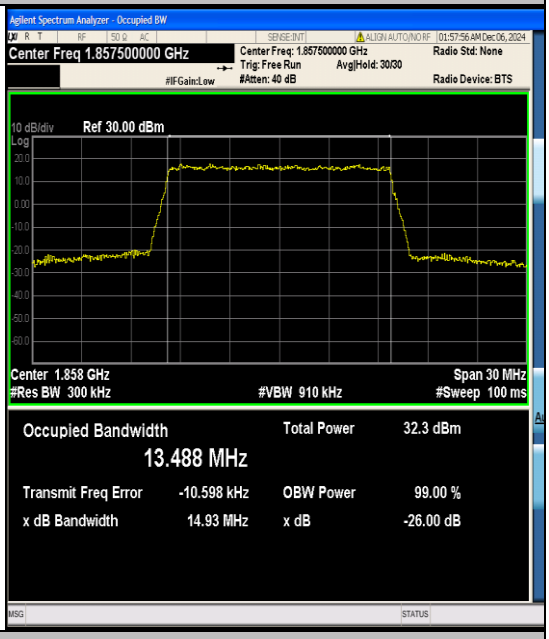

Band2-15MHz-QPSK-18675-75RB#0-PASS



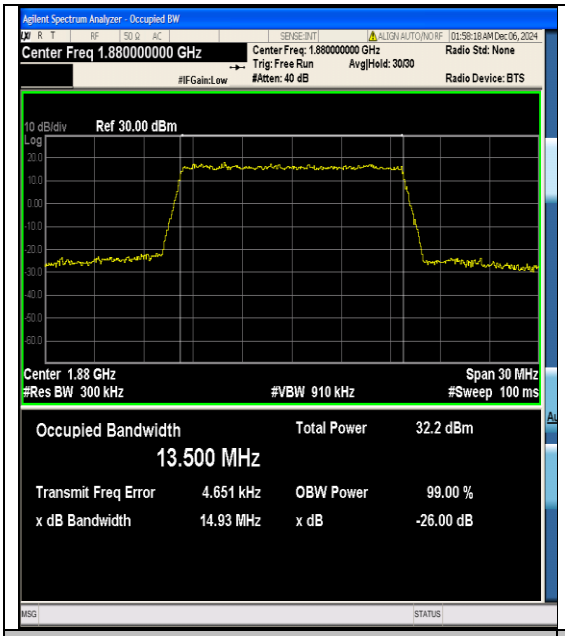

Band2-15MHz-QPSK-18900-75RB#0-PASS




Band2-15MHz-QPSK-19125-75RB#0-PASS




Band2-15MHz-16QAM-18675-75RB#0-PASS

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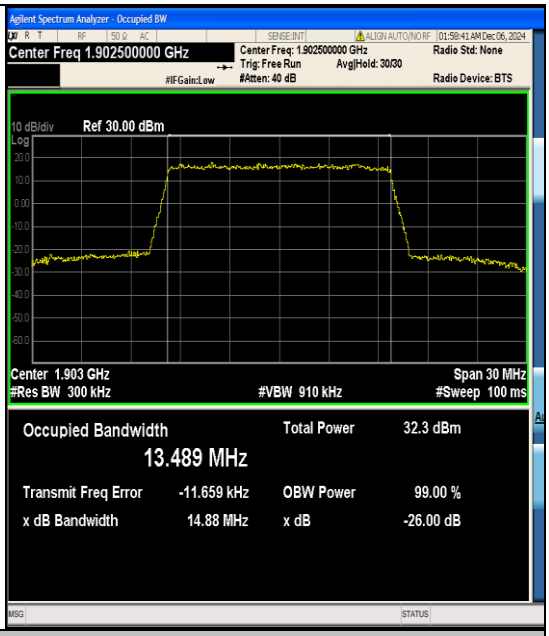


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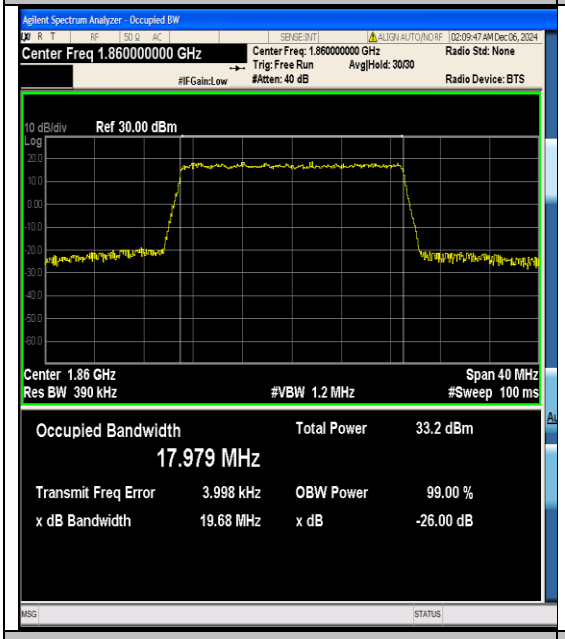
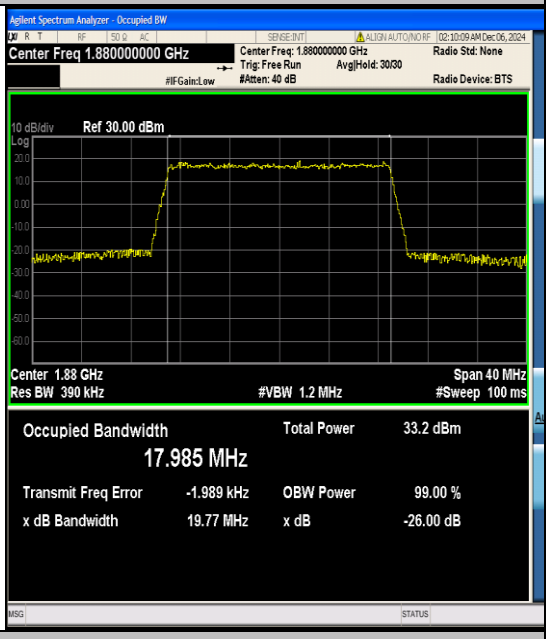
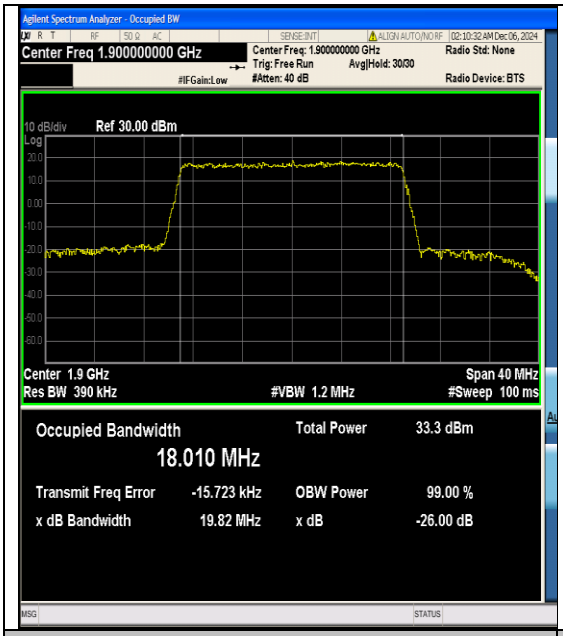


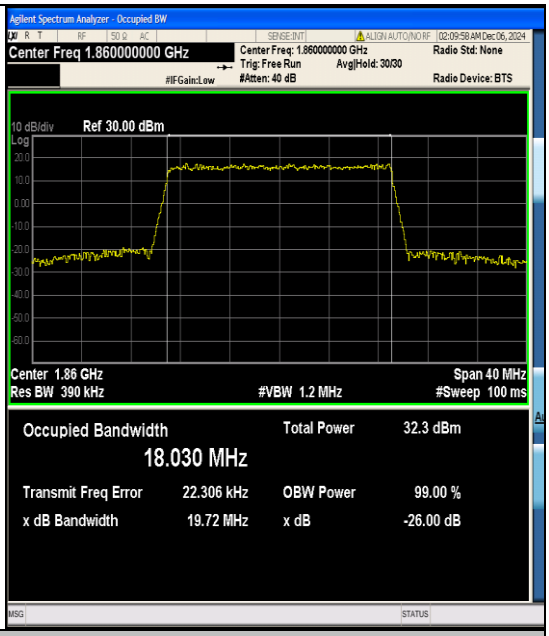

Band2-20MHz-QPSK-18700-100RB#0-PASS



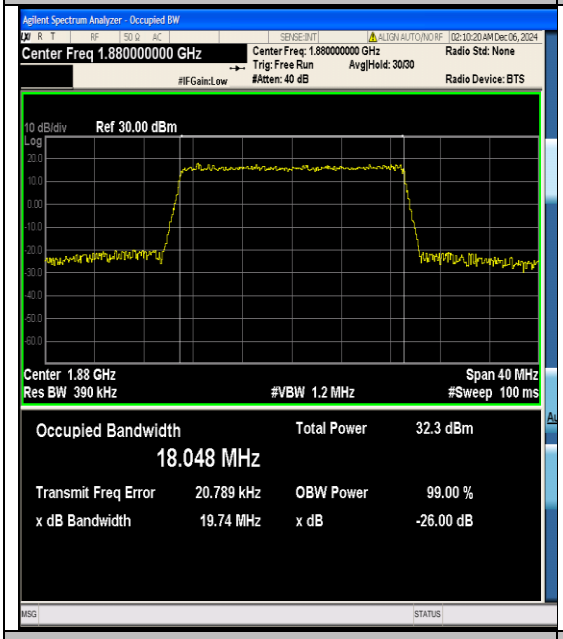

Band2-20MHz-QPSK-18900-100RB#0-PASS



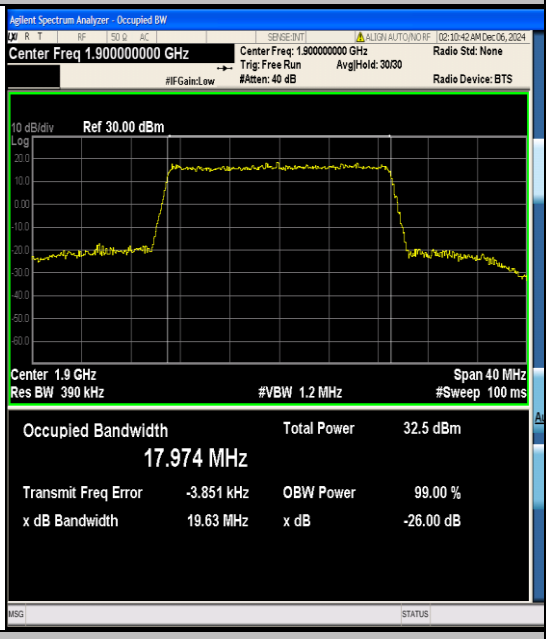

Band2-20MHz-QPSK-19100-100RB#0-PASS




Band2-20MHz-16QAM-18700-100RB#0-PASS




Band2-20MHz-16QAM-18900-100RB#0-PASS



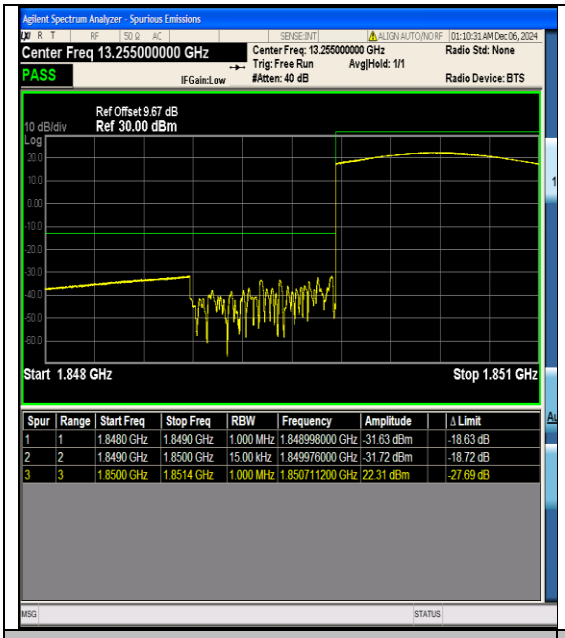

Band2-20MHz-16QAM-19100-100RB#0-PASS

# Appendix D: Band Edge

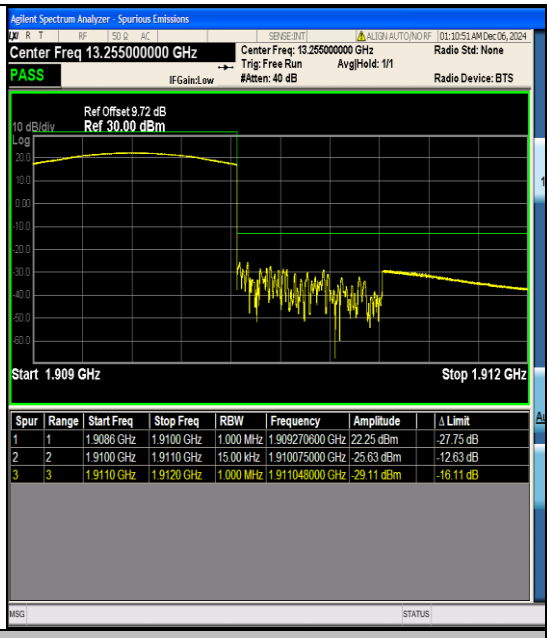
## Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | Verdict |
|---|---|---|---|---|---|---|
| Band2 | 1.4MHz | QPSK | 18607 | 6RB#0 | -31.63 | PASS |
| Band2 | 1.4MHz | QPSK | 19193 | 6RB#0 | -25.63 | PASS |
| Band2 | 1.4MHz | 16QAM | 18607 | 6RB#0 | -31.13 | PASS |
| Band2 | 1.4MHz | 16QAM | 19193 | 6RB#0 | -26.25 | PASS |
| Band2 | 3MHz | QPSK | 18615 | 15RB#0 | -27.33 | PASS |
| Band2 | 3MHz | QPSK | 19185 | 15RB#0 | -26.83 | PASS |
| Band2 | 3MHz | 16QAM | 18615 | 15RB#0 | -28.29 | PASS |
| Band2 | 3MHz | 16QAM | 19185 | 15RB#0 | -28.33 | PASS |
| Band2 | 5MHz | QPSK | 18625 | 25RB#0 | -31.78 | PASS |
| Band2 | 5MHz | QPSK | 19175 | 25RB#0 | -29.25 | PASS |
| Band2 | 5MHz | 16QAM | 18625 | 25RB#0 | -32.54 | PASS |
| Band2 | 5MHz | 16QAM | 19175 | 25RB#0 | -31.53 | PASS |
| Band2 | 10MHz | QPSK | 18650 | 50RB#0 | -32.11 | PASS |
| Band2 | 10MHz | QPSK | 19150 | 50RB#0 | -33.29 | PASS |
| Band2 | 10MHz | 16QAM | 18650 | 50RB#0 | -34.22 | PASS |
| Band2 | 10MHz | 16QAM | 19150 | 50RB#0 | -34.75 | PASS |
| Band2 | 15MHz | QPSK | 18675 | 75RB#0 | -31.29 | PASS |
| Band2 | 15MHz | QPSK | 19125 | 75RB#0 | -34.32 | PASS |
| Band2 | 15MHz | 16QAM | 18675 | 75RB#0 | -33.82 | PASS |
| Band2 | 15MHz | 16QAM | 19125 | 75RB#0 | -36.17 | PASS |
| Band2 | 20MHz | QPSK | 18700 | 100RB#0 | -32.71 | PASS |
| Band2 | 20MHz | QPSK | 19100 | 100RB#0 | -35.97 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 100RB#0 | -35.71 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 100RB#0 | -37.23 | PASS |

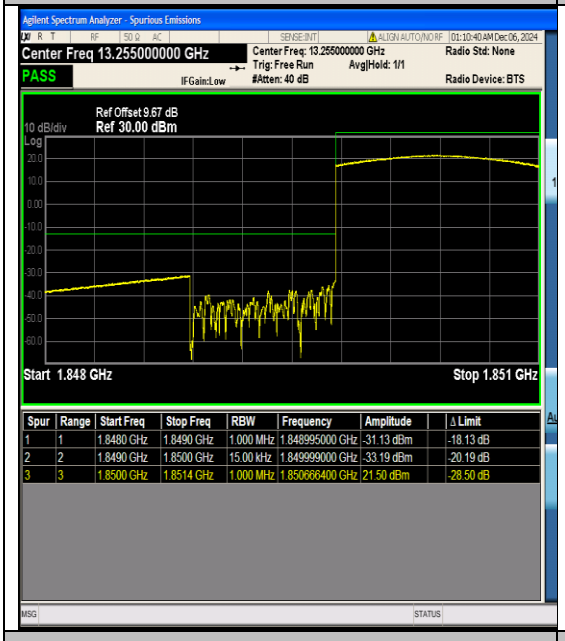
## Test Graphs



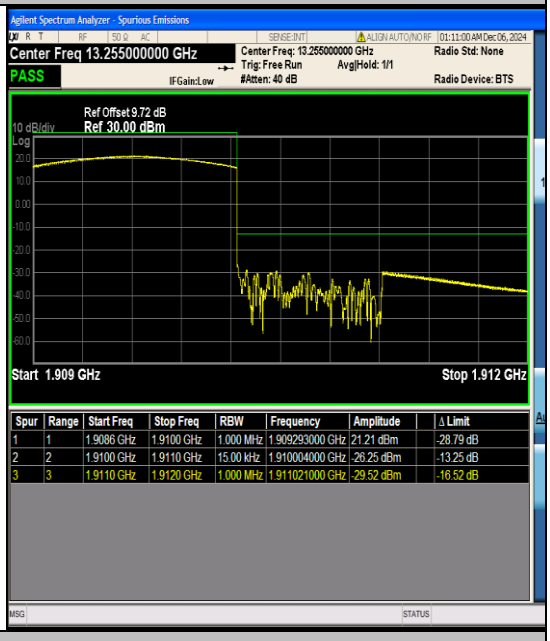

Band2_1.4MHz_QPSK_18607_6RB#0




Band2_1.4MHz_QPSK_19193_6RB#0




Band2_1.4MHz_16QAM_18607_6RB#0

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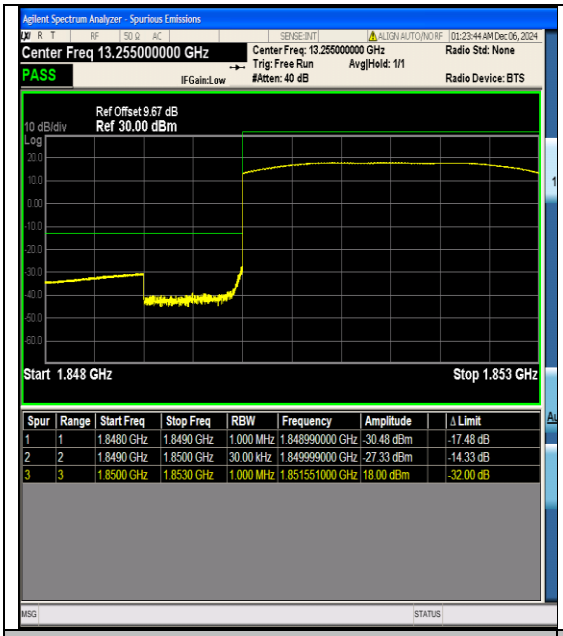
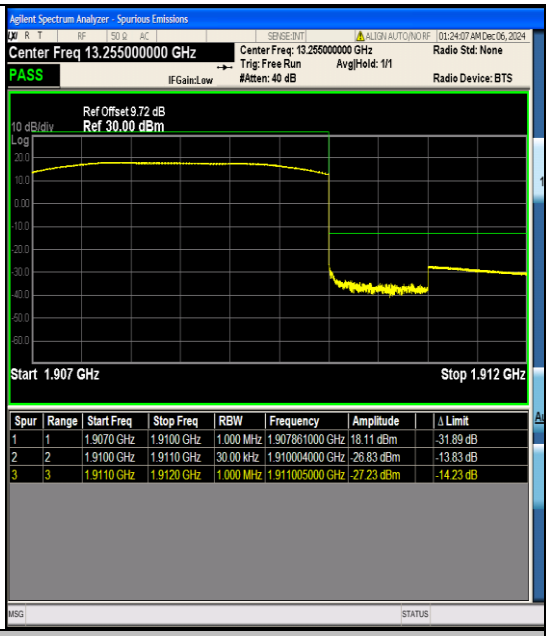
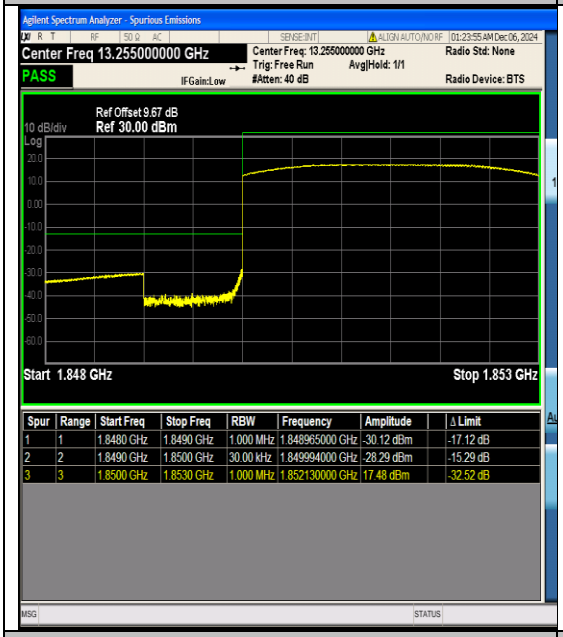


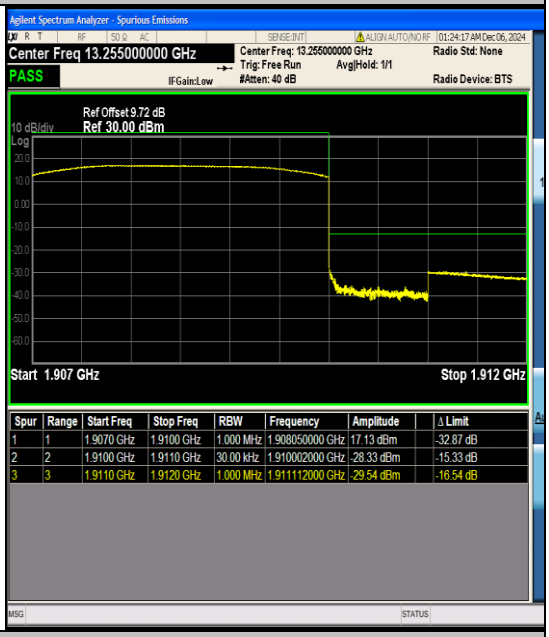

Band2_3MHz_QPSK_18615_15RB#0



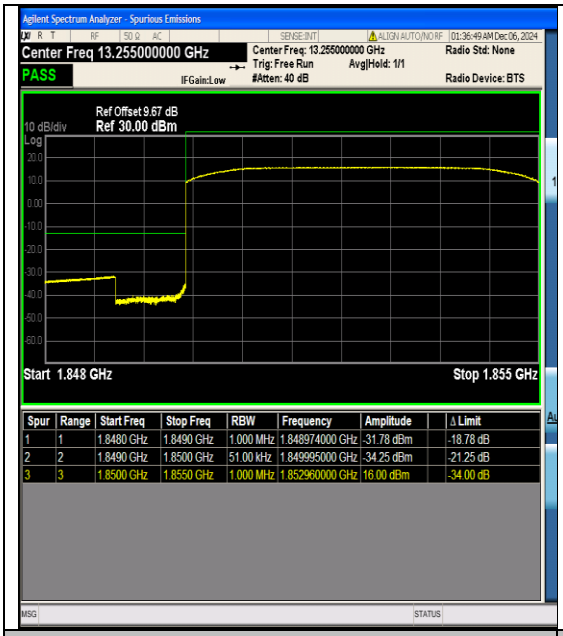

Band2_3MHz_QPSK_19185_15RB#0



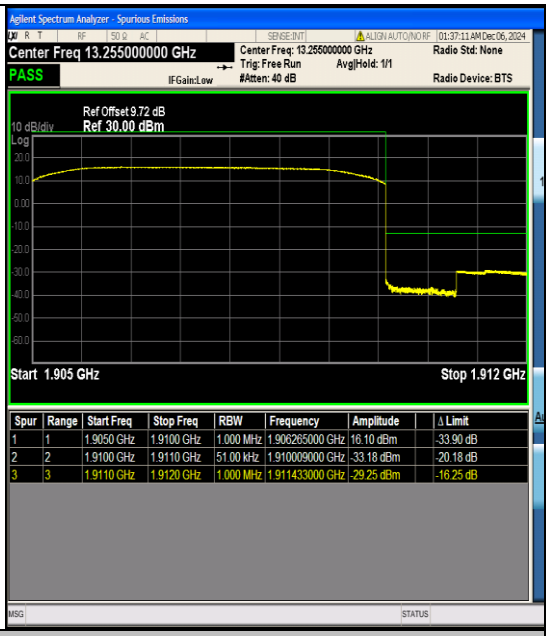

Band2_3MHz_16QAM_18615_15RB#0



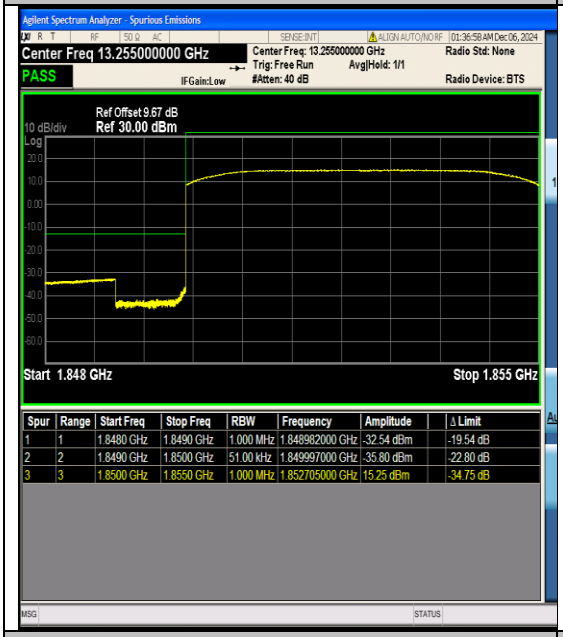

Band2_3MHz_16QAM_19185_15RB#0



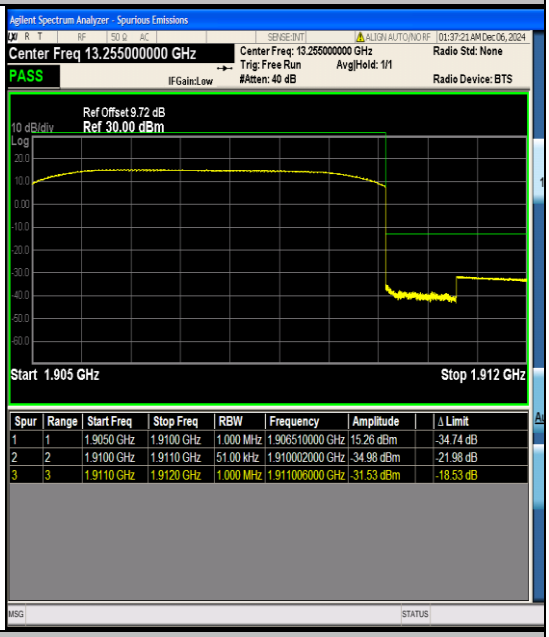

Band2_5MHz_QPSK_18625_25RB#0




Band2_5MHz_QPSK_19175_25RB#0




Band2_5MHz_16QAM_18625_25RB#0




Band2_5MHz_16QAM_19175_25RB#0