# Appendix I: Test Data for E-UTRA Band 12

**Product Name: Smart Phone**

**Test Model: HPPH88C**

**Environmental Conditions**

| | |
|---|---|
| Temperature: | 24.2°C |
| Relative Humidity: | 52.6% |
| ATM Pressure: | 100.0 kPa |
| Test Engineer: | Paddi Chen |
| Supervised by: | Nick Peng |

# I.1 Conducted Output Power Data

## Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | Verdict |
|---|---|---|---|---|---|---|
| Band12 | 1.4MHz | QPSK | 23017 | 1RB#0 | 23.84 | PASS |
| Band12 | 1.4MHz | 16QAM | 23017 | 1RB#0 | 22.73 | PASS |
| Band12 | 1.4MHz | QPSK | 23017 | 1RB#2 | 23.87 | PASS |
| Band12 | 1.4MHz | 16QAM | 23017 | 1RB#2 | 22.27 | PASS |
| Band12 | 1.4MHz | QPSK | 23017 | 1RB#5 | 23.66 | PASS |
| Band12 | 1.4MHz | 16QAM | 23017 | 1RB#5 | 22.42 | PASS |
| Band12 | 1.4MHz | QPSK | 23017 | 3RB#0 | 23.61 | PASS |
| Band12 | 1.4MHz | 16QAM | 23017 | 3RB#0 | 22.49 | PASS |
| Band12 | 1.4MHz | QPSK | 23017 | 3RB#1 | 23.59 | PASS |
| Band12 | 1.4MHz | 16QAM | 23017 | 3RB#1 | 22.47 | PASS |
| Band12 | 1.4MHz | QPSK | 23017 | 3RB#3 | 23.54 | PASS |
| Band12 | 1.4MHz | 16QAM | 23017 | 3RB#3 | 22.65 | PASS |
| Band12 | 1.4MHz | QPSK | 23017 | 6RB#0 | 22.62 | PASS |
| Band12 | 1.4MHz | 16QAM | 23017 | 6RB#0 | 22.08 | PASS |
| Band12 | 1.4MHz | QPSK | 23095 | 1RB#0 | 23.38 | PASS |
| Band12 | 1.4MHz | 16QAM | 23095 | 1RB#0 | 22.79 | PASS |
| Band12 | 1.4MHz | QPSK | 23095 | 1RB#2 | 23.55 | PASS |
| Band12 | 1.4MHz | 16QAM | 23095 | 1RB#2 | 22.76 | PASS |
| Band12 | 1.4MHz | QPSK | 23095 | 1RB#5 | 23.62 | PASS |
| Band12 | 1.4MHz | 16QAM | 23095 | 1RB#5 | 22.85 | PASS |
| Band12 | 1.4MHz | QPSK | 23095 | 3RB#0 | 23.59 | PASS |
| Band12 | 1.4MHz | 16QAM | 23095 | 3RB#0 | 22.47 | PASS |
| Band12 | 1.4MHz | QPSK | 23095 | 3RB#1 | 23.58 | PASS |
| Band12 | 1.4MHz | 16QAM | 23095 | 3RB#1 | 22.63 | PASS |
| Band12 | 1.4MHz | QPSK | 23095 | 3RB#3 | 23.64 | PASS |
| Band12 | 1.4MHz | 16QAM | 23095 | 3RB#3 | 22.55 | PASS |
| Band12 | 1.4MHz | QPSK | 23095 | 6RB#0 | 22.72 | PASS |
| Band12 | 1.4MHz | 16QAM | 23095 | 6RB#0 | 21.74 | PASS |
| Band12 | 1.4MHz | QPSK | 23173 | 1RB#0 | 23.14 | PASS |
| Band12 | 1.4MHz | 16QAM | 23173 | 1RB#0 | 22.97 | PASS |
| Band12 | 1.4MHz | QPSK | 23173 | 1RB#2 | 23.40 | PASS |
| Band12 | 1.4MHz | 16QAM | 23173 | 1RB#2 | 23.00 | PASS |
| Band12 | 1.4MHz | QPSK | 23173 | 1RB#5 | 23.50 | PASS |
| Band12 | 1.4MHz | 16QAM | 23173 | 1RB#5 | 23.23 | PASS |
| Band12 | 1.4MHz | QPSK | 23173 | 3RB#0 | 23.52 | PASS |

| | | | | | | |
|---|---|---|---|---|---|---|
| Band12 | 1.4MHz | 16QAM | 23173 | 3RB#0 | 22.50 | PASS |
| Band12 | 1.4MHz | QPSK | 23173 | 3RB#1 | 23.52 | PASS |
| Band12 | 1.4MHz | 16QAM | 23173 | 3RB#1 | 22.50 | PASS |
| Band12 | 1.4MHz | QPSK | 23173 | 3RB#3 | 23.47 | PASS |
| Band12 | 1.4MHz | 16QAM | 23173 | 3RB#3 | 22.41 | PASS |
| Band12 | 1.4MHz | QPSK | 23173 | 6RB#0 | 22.71 | PASS |
| Band12 | 1.4MHz | 16QAM | 23173 | 6RB#0 | 21.89 | PASS |
| Band12 | 3MHz | QPSK | 23025 | 1RB#0 | 23.46 | PASS |
| Band12 | 3MHz | 16QAM | 23025 | 1RB#0 | 22.31 | PASS |
| Band12 | 3MHz | QPSK | 23025 | 1RB#8 | 23.40 | PASS |
| Band12 | 3MHz | 16QAM | 23025 | 1RB#8 | 22.50 | PASS |
| Band12 | 3MHz | QPSK | 23025 | 1RB#14 | 23.38 | PASS |
| Band12 | 3MHz | 16QAM | 23025 | 1RB#14 | 22.48 | PASS |
| Band12 | 3MHz | QPSK | 23025 | 8RB#0 | 22.67 | PASS |
| Band12 | 3MHz | 16QAM | 23025 | 8RB#0 | 21.95 | PASS |
| Band12 | 3MHz | QPSK | 23025 | 8RB#4 | 22.68 | PASS |
| Band12 | 3MHz | 16QAM | 23025 | 8RB#4 | 21.86 | PASS |
| Band12 | 3MHz | QPSK | 23025 | 8RB#7 | 22.59 | PASS |
| Band12 | 3MHz | 16QAM | 23025 | 8RB#7 | 21.88 | PASS |
| Band12 | 3MHz | QPSK | 23025 | 15RB#0 | 22.62 | PASS |
| Band12 | 3MHz | 16QAM | 23025 | 15RB#0 | 21.75 | PASS |
| Band12 | 3MHz | QPSK | 23095 | 1RB#0 | 23.55 | PASS |
| Band12 | 3MHz | 16QAM | 23095 | 1RB#0 | 22.18 | PASS |
| Band12 | 3MHz | QPSK | 23095 | 1RB#8 | 23.41 | PASS |
| Band12 | 3MHz | 16QAM | 23095 | 1RB#8 | 22.22 | PASS |
| Band12 | 3MHz | QPSK | 23095 | 1RB#14 | 23.19 | PASS |
| Band12 | 3MHz | 16QAM | 23095 | 1RB#14 | 22.30 | PASS |
| Band12 | 3MHz | QPSK | 23095 | 8RB#0 | 22.40 | PASS |
| Band12 | 3MHz | 16QAM | 23095 | 8RB#0 | 21.79 | PASS |
| Band12 | 3MHz | QPSK | 23095 | 8RB#4 | 22.41 | PASS |
| Band12 | 3MHz | 16QAM | 23095 | 8RB#4 | 21.79 | PASS |
| Band12 | 3MHz | QPSK | 23095 | 8RB#7 | 22.50 | PASS |
| Band12 | 3MHz | 16QAM | 23095 | 8RB#7 | 21.88 | PASS |
| Band12 | 3MHz | QPSK | 23095 | 15RB#0 | 22.46 | PASS |
| Band12 | 3MHz | 16QAM | 23095 | 15RB#0 | 21.53 | PASS |
| Band12 | 3MHz | QPSK | 23165 | 1RB#0 | 23.60 | PASS |
| Band12 | 3MHz | 16QAM | 23165 | 1RB#0 | 23.00 | PASS |
| Band12 | 3MHz | QPSK | 23165 | 1RB#8 | 23.46 | PASS |
| Band12 | 3MHz | 16QAM | 23165 | 1RB#8 | 22.85 | PASS |
| Band12 | 3MHz | QPSK | 23165 | 1RB#14 | 23.42 | PASS |

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|---|---|---|---|---|---|---|
| Band12 | 3MHz | 16QAM | 23165 | 1RB#14 | 22.81 | PASS |
| Band12 | 3MHz | QPSK | 23165 | 8RB#0 | 22.47 | PASS |
| Band12 | 3MHz | 16QAM | 23165 | 8RB#0 | 21.88 | PASS |
| Band12 | 3MHz | QPSK | 23165 | 8RB#4 | 22.48 | PASS |
| Band12 | 3MHz | 16QAM | 23165 | 8RB#4 | 21.86 | PASS |
| Band12 | 3MHz | QPSK | 23165 | 8RB#7 | 22.49 | PASS |
| Band12 | 3MHz | 16QAM | 23165 | 8RB#7 | 21.74 | PASS |
| Band12 | 3MHz | QPSK | 23165 | 15RB#0 | 22.54 | PASS |
| Band12 | 3MHz | 16QAM | 23165 | 15RB#0 | 21.66 | PASS |
| Band12 | 5MHz | QPSK | 23035 | 1RB#0 | 23.54 | PASS |
| Band12 | 5MHz | 16QAM | 23035 | 1RB#0 | 22.06 | PASS |
| Band12 | 5MHz | QPSK | 23035 | 1RB#12 | 23.62 | PASS |
| Band12 | 5MHz | 16QAM | 23035 | 1RB#12 | 22.17 | PASS |
| Band12 | 5MHz | QPSK | 23035 | 1RB#24 | 23.53 | PASS |
| Band12 | 5MHz | 16QAM | 23035 | 1RB#24 | 21.97 | PASS |
| Band12 | 5MHz | QPSK | 23035 | 12RB#0 | 22.55 | PASS |
| Band12 | 5MHz | 16QAM | 23035 | 12RB#0 | 21.74 | PASS |
| Band12 | 5MHz | QPSK | 23035 | 12RB#6 | 22.71 | PASS |
| Band12 | 5MHz | 16QAM | 23035 | 12RB#6 | 21.78 | PASS |
| Band12 | 5MHz | QPSK | 23035 | 12RB#13 | 22.55 | PASS |
| Band12 | 5MHz | 16QAM | 23035 | 12RB#13 | 21.76 | PASS |
| Band12 | 5MHz | QPSK | 23035 | 25RB#0 | 22.54 | PASS |
| Band12 | 5MHz | 16QAM | 23035 | 25RB#0 | 21.84 | PASS |
| Band12 | 5MHz | QPSK | 23095 | 1RB#0 | 23.31 | PASS |
| Band12 | 5MHz | 16QAM | 23095 | 1RB#0 | 22.89 | PASS |
| Band12 | 5MHz | QPSK | 23095 | 1RB#12 | 23.31 | PASS |
| Band12 | 5MHz | 16QAM | 23095 | 1RB#12 | 22.83 | PASS |
| Band12 | 5MHz | QPSK | 23095 | 1RB#24 | 23.38 | PASS |
| Band12 | 5MHz | 16QAM | 23095 | 1RB#24 | 22.83 | PASS |
| Band12 | 5MHz | QPSK | 23095 | 12RB#0 | 22.63 | PASS |
| Band12 | 5MHz | 16QAM | 23095 | 12RB#0 | 21.82 | PASS |
| Band12 | 5MHz | QPSK | 23095 | 12RB#6 | 22.48 | PASS |
| Band12 | 5MHz | 16QAM | 23095 | 12RB#6 | 21.92 | PASS |
| Band12 | 5MHz | QPSK | 23095 | 12RB#13 | 22.56 | PASS |
| Band12 | 5MHz | 16QAM | 23095 | 12RB#13 | 21.79 | PASS |
| Band12 | 5MHz | QPSK | 23095 | 25RB#0 | 22.56 | PASS |
| Band12 | 5MHz | 16QAM | 23095 | 25RB#0 | 21.80 | PASS |
| Band12 | 5MHz | QPSK | 23155 | 1RB#0 | 23.44 | PASS |
| Band12 | 5MHz | 16QAM | 23155 | 1RB#0 | 22.37 | PASS |
| Band12 | 5MHz | QPSK | 23155 | 1RB#12 | 23.35 | PASS |

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|---|---|---|---|---|---|---|
| Band12 | 5MHz | 16QAM | 23155 | 1RB#12 | 22.35 | PASS |
| Band12 | 5MHz | QPSK | 23155 | 1RB#24 | 23.34 | PASS |
| Band12 | 5MHz | 16QAM | 23155 | 1RB#24 | 22.31 | PASS |
| Band12 | 5MHz | QPSK | 23155 | 12RB#0 | 22.59 | PASS |
| Band12 | 5MHz | 16QAM | 23155 | 12RB#0 | 21.56 | PASS |
| Band12 | 5MHz | QPSK | 23155 | 12RB#6 | 22.59 | PASS |
| Band12 | 5MHz | 16QAM | 23155 | 12RB#6 | 21.64 | PASS |
| Band12 | 5MHz | QPSK | 23155 | 12RB#13 | 22.59 | PASS |
| Band12 | 5MHz | 16QAM | 23155 | 12RB#13 | 21.81 | PASS |
| Band12 | 5MHz | QPSK | 23155 | 25RB#0 | 22.61 | PASS |
| Band12 | 5MHz | 16QAM | 23155 | 25RB#0 | 21.82 | PASS |
| Band12 | 10MHz | QPSK | 23060 | 1RB#0 | 23.35 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 1RB#0 | 22.30 | PASS |
| Band12 | 10MHz | QPSK | 23060 | 1RB#24 | 23.24 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 1RB#24 | 22.39 | PASS |
| Band12 | 10MHz | QPSK | 23060 | 1RB#49 | 23.30 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 1RB#49 | 22.30 | PASS |
| Band12 | 10MHz | QPSK | 23060 | 25RB#0 | 22.49 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 25RB#0 | 21.67 | PASS |
| Band12 | 10MHz | QPSK | 23060 | 25RB#12 | 22.49 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 25RB#12 | 21.67 | PASS |
| Band12 | 10MHz | QPSK | 23060 | 25RB#25 | 22.60 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 25RB#25 | 21.61 | PASS |
| Band12 | 10MHz | QPSK | 23060 | 50RB#0 | 22.56 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 50RB#0 | 21.75 | PASS |
| Band12 | 10MHz | QPSK | 23095 | 1RB#0 | 23.68 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 1RB#0 | 22.55 | PASS |
| Band12 | 10MHz | QPSK | 23095 | 1RB#24 | 23.63 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 1RB#24 | 22.58 | PASS |
| Band12 | 10MHz | QPSK | 23095 | 1RB#49 | 23.52 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 1RB#49 | 21.97 | PASS |
| Band12 | 10MHz | QPSK | 23095 | 25RB#0 | 22.52 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 25RB#0 | 21.79 | PASS |
| Band12 | 10MHz | QPSK | 23095 | 25RB#12 | 22.52 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 25RB#12 | 21.79 | PASS |
| Band12 | 10MHz | QPSK | 23095 | 25RB#25 | 22.44 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 25RB#25 | 21.81 | PASS |
| Band12 | 10MHz | QPSK | 23095 | 50RB#0 | 22.54 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 50RB#0 | 21.74 | PASS |
| Band12 | 10MHz | QPSK | 23130 | 1RB#0 | 23.35 | PASS |

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|---|---|---|---|---|---|---|
| Band12 | 10MHz | 16QAM | 23130 | 1RB#0 | 23.23 | PASS |
| Band12 | 10MHz | QPSK | 23130 | 1RB#24 | 23.37 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 1RB#24 | 23.26 | PASS |
| Band12 | 10MHz | QPSK | 23130 | 1RB#49 | 23.24 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 1RB#49 | 23.24 | PASS |
| Band12 | 10MHz | QPSK | 23130 | 25RB#0 | 22.61 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 25RB#0 | 21.67 | PASS |
| Band12 | 10MHz | QPSK | 23130 | 25RB#12 | 22.59 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 25RB#12 | 21.67 | PASS |
| Band12 | 10MHz | QPSK | 23130 | 25RB#25 | 22.56 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 25RB#25 | 21.79 | PASS |
| Band12 | 10MHz | QPSK | 23130 | 50RB#0 | 22.36 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 50RB#0 | 21.64 | PASS |

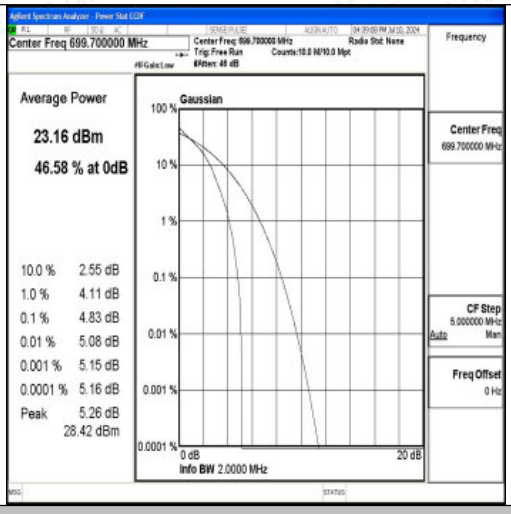
# I.2 Peak-to-Average Ratio(CCDF)

## Test Result

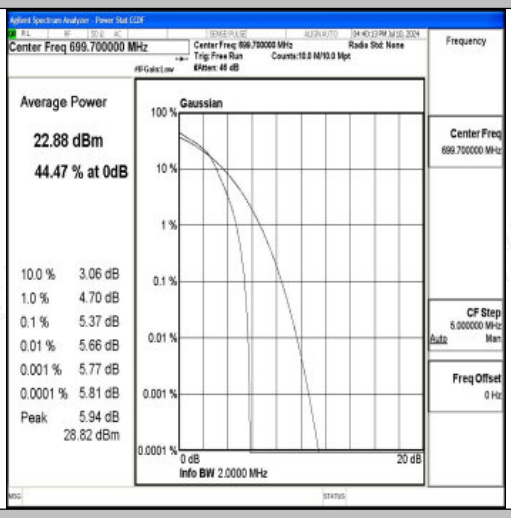
| Band | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|---|---|---|---|---|---|---|---|
| Band12 | 1.4MHz | QPSK | 23017 | 1RB#0 | 4.83 | 13 | PASS |
| Band12 | 1.4MHz | 16QAM | 23017 | 1RB#0 | 5.37 | 13 | PASS |
| Band12 | 1.4MHz | QPSK | 23017 | 6RB#0 | 5.50 | 13 | PASS |
| Band12 | 1.4MHz | 16QAM | 23017 | 6RB#0 | 6.25 | 13 | PASS |
| Band12 | 1.4MHz | QPSK | 23095 | 1RB#0 | 4.79 | 13 | PASS |
| Band12 | 1.4MHz | 16QAM | 23095 | 1RB#0 | 5.38 | 13 | PASS |
| Band12 | 1.4MHz | QPSK | 23095 | 6RB#0 | 5.50 | 13 | PASS |
| Band12 | 1.4MHz | 16QAM | 23095 | 6RB#0 | 6.22 | 13 | PASS |
| Band12 | 1.4MHz | QPSK | 23173 | 1RB#0 | 4.26 | 13 | PASS |
| Band12 | 1.4MHz | 16QAM | 23173 | 1RB#0 | 4.80 | 13 | PASS |
| Band12 | 1.4MHz | QPSK | 23173 | 6RB#0 | 4.98 | 13 | PASS |
| Band12 | 1.4MHz | 16QAM | 23173 | 6RB#0 | 5.70 | 13 | PASS |
| Band12 | 3MHz | QPSK | 23025 | 1RB#0 | 4.95 | 13 | PASS |
| Band12 | 3MHz | 16QAM | 23025 | 1RB#0 | 5.75 | 13 | PASS |
| Band12 | 3MHz | QPSK | 23025 | 15RB#0 | 5.52 | 13 | PASS |
| Band12 | 3MHz | 16QAM | 23025 | 15RB#0 | 6.30 | 13 | PASS |
| Band12 | 3MHz | QPSK | 23095 | 1RB#0 | 4.92 | 13 | PASS |
| Band12 | 3MHz | 16QAM | 23095 | 1RB#0 | 5.76 | 13 | PASS |
| Band12 | 3MHz | QPSK | 23095 | 15RB#0 | 5.53 | 13 | PASS |
| Band12 | 3MHz | 16QAM | 23095 | 15RB#0 | 6.31 | 13 | PASS |
| Band12 | 3MHz | QPSK | 23165 | 1RB#0 | 4.59 | 13 | PASS |
| Band12 | 3MHz | 16QAM | 23165 | 1RB#0 | 5.40 | 13 | PASS |
| Band12 | 3MHz | QPSK | 23165 | 15RB#0 | 5.17 | 13 | PASS |
| Band12 | 3MHz | 16QAM | 23165 | 15RB#0 | 5.90 | 13 | PASS |
| Band12 | 5MHz | QPSK | 23035 | 1RB#0 | 4.99 | 13 | PASS |
| Band12 | 5MHz | 16QAM | 23035 | 1RB#0 | 5.81 | 13 | PASS |
| Band12 | 5MHz | QPSK | 23035 | 25RB#0 | 5.65 | 13 | PASS |
| Band12 | 5MHz | 16QAM | 23035 | 25RB#0 | 6.29 | 13 | PASS |
| Band12 | 5MHz | QPSK | 23095 | 1RB#0 | 4.99 | 13 | PASS |
| Band12 | 5MHz | 16QAM | 23095 | 1RB#0 | 5.82 | 13 | PASS |
| Band12 | 5MHz | QPSK | 23095 | 25RB#0 | 5.60 | 13 | PASS |
| Band12 | 5MHz | 16QAM | 23095 | 25RB#0 | 6.27 | 13 | PASS |
| Band12 | 5MHz | QPSK | 23155 | 1RB#0 | 4.90 | 13 | PASS |
| Band12 | 5MHz | 16QAM | 23155 | 1RB#0 | 5.72 | 13 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Band12 | 5MHz | QPSK | 23155 | 25RB#0 | 5.40 | 13 | PASS |
| Band12 | 5MHz | 16QAM | 23155 | 25RB#0 | 6.07 | 13 | PASS |
| Band12 | 10MHz | QPSK | 23060 | 1RB#0 | 4.92 | 13 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 1RB#0 | 5.63 | 13 | PASS |
| Band12 | 10MHz | QPSK | 23060 | 50RB#0 | 5.62 | 13 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 50RB#0 | 6.33 | 13 | PASS |
| Band12 | 10MHz | QPSK | 23095 | 1RB#0 | 4.97 | 13 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 1RB#0 | 5.87 | 13 | PASS |
| Band12 | 10MHz | QPSK | 23095 | 50RB#0 | 5.63 | 13 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 50RB#0 | 6.31 | 13 | PASS |
| Band12 | 10MHz | QPSK | 23130 | 1RB#0 | 4.92 | 13 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 1RB#0 | 5.79 | 13 | PASS |
| Band12 | 10MHz | QPSK | 23130 | 50RB#0 | 5.53 | 13 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 50RB#0 | 6.23 | 13 | PASS |

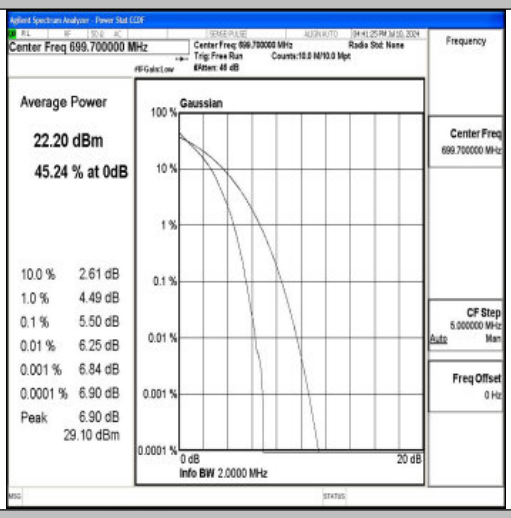
## Test Graphs



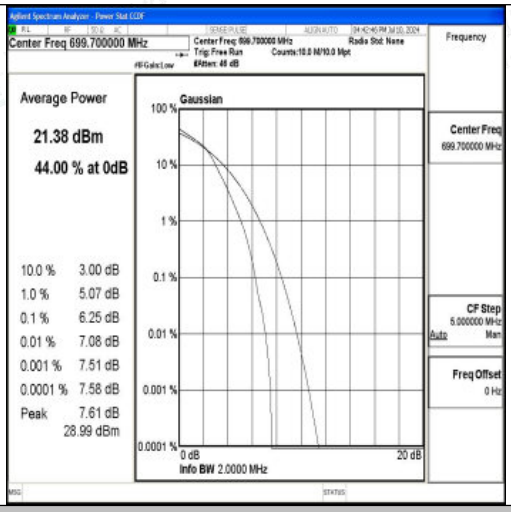

Band12-1.4MHz-QPSK-23017-1RB#0-PASS



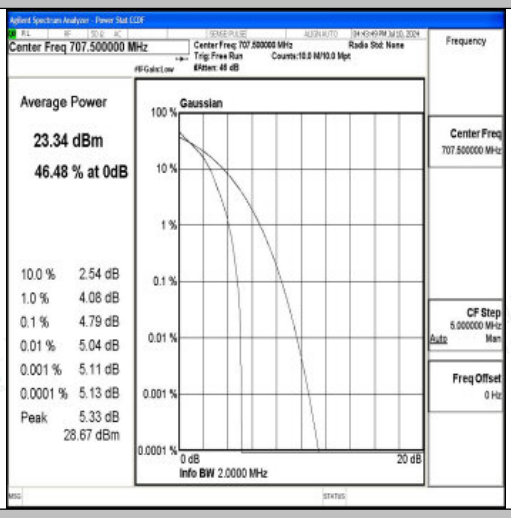

Band12-1.4MHz-16QAM-23017-1RB#0-PASS



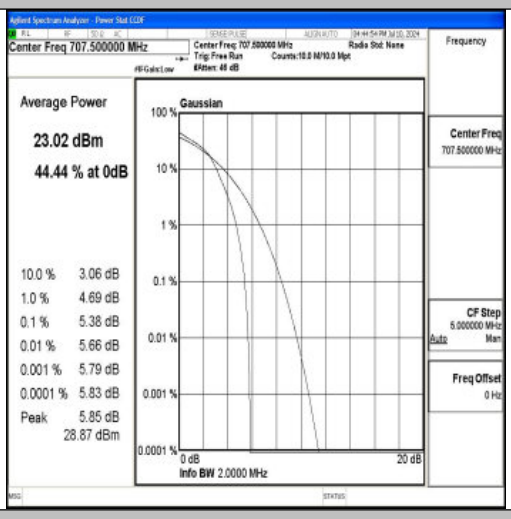

Band12-1.4MHz-QPSK-23017-6RB#0-PASS



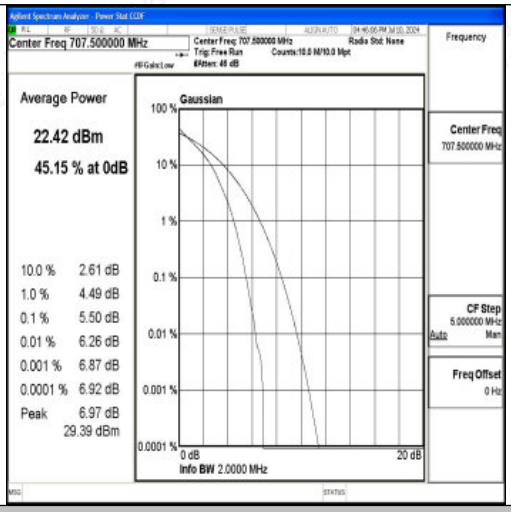

Band12-1.4MHz-16QAM-23017-6RB#0-PASS



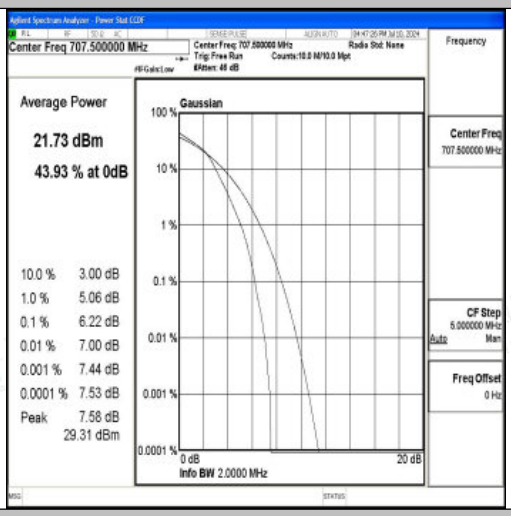

Band12-1.4MHz-QPSK-23095-1RB#0-PASS



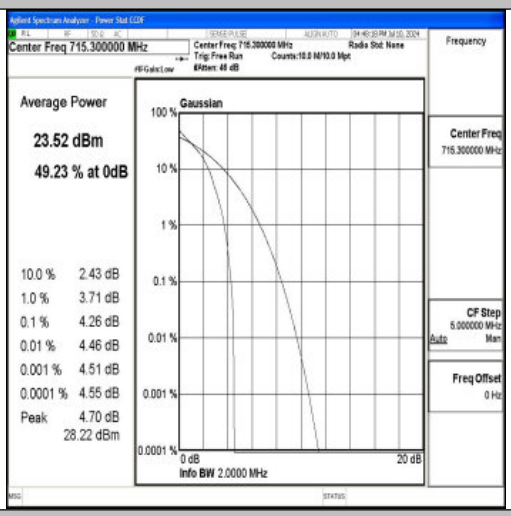

Band12-1.4MHz-16QAM-23095-1RB#0-PASS



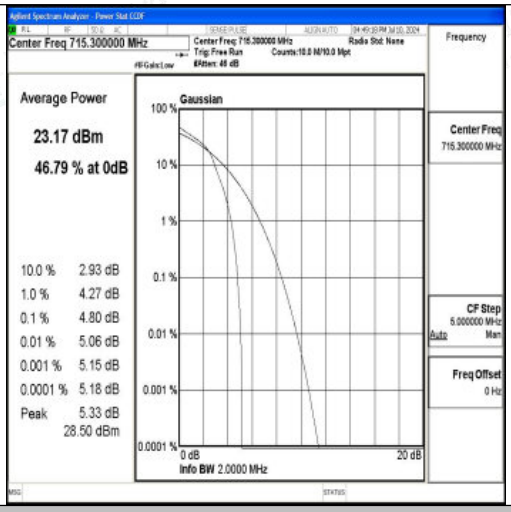

Band12-1.4MHz-QPSK-23095-6RB#0-PASS




Band12-1.4MHz-16QAM-23095-6RB#0-PASS




Band12-1.4MHz-QPSK-23173-1RB#0-PASS

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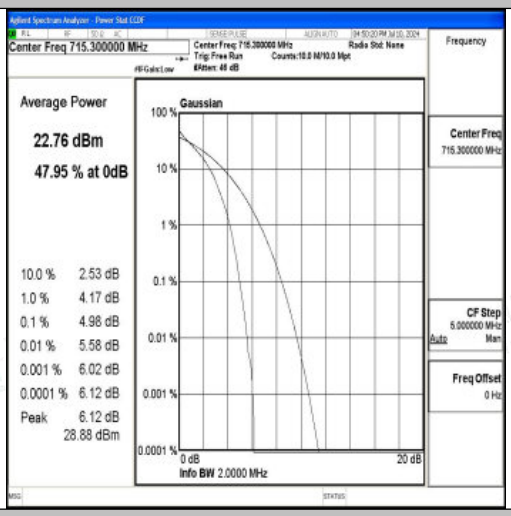


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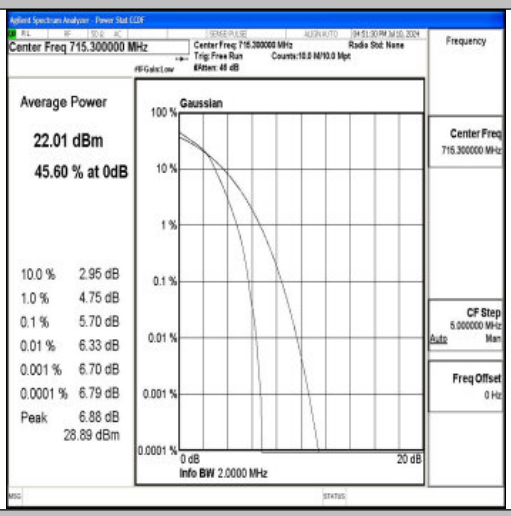


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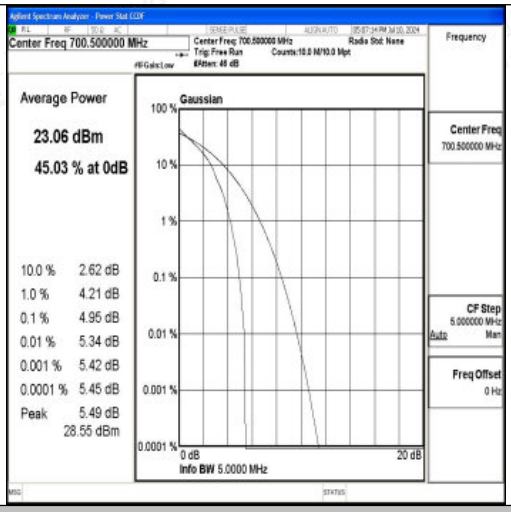


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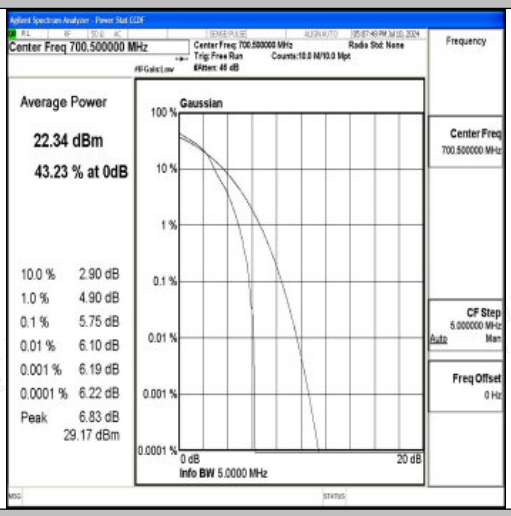


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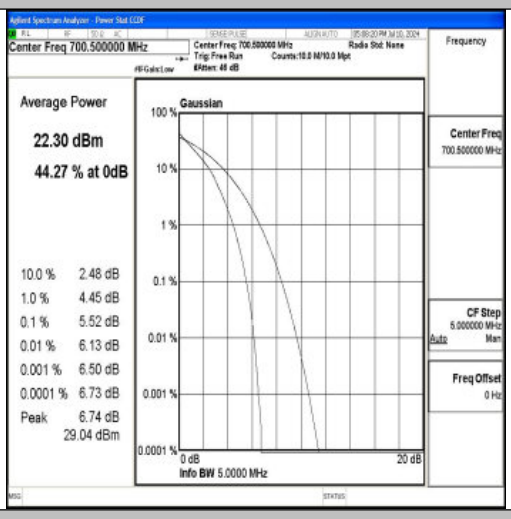


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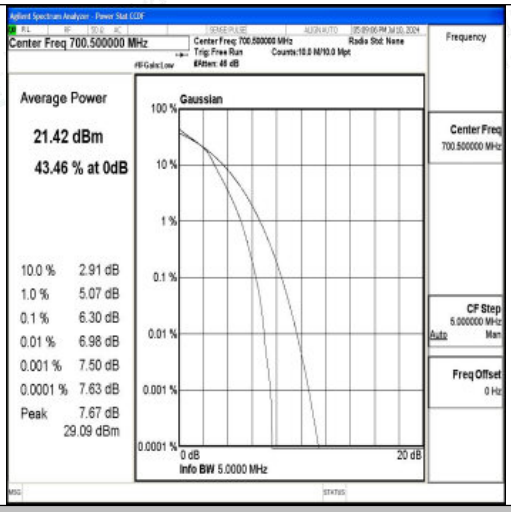


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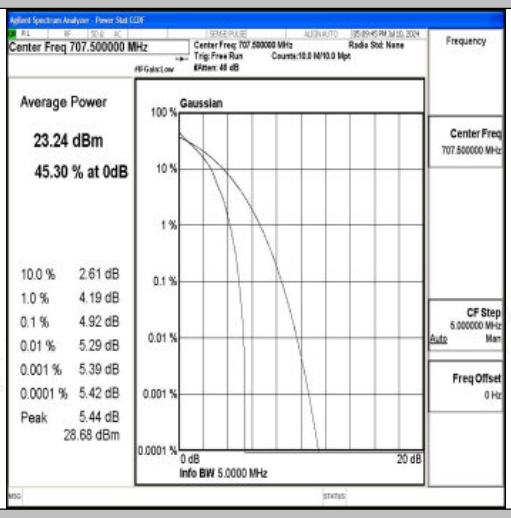


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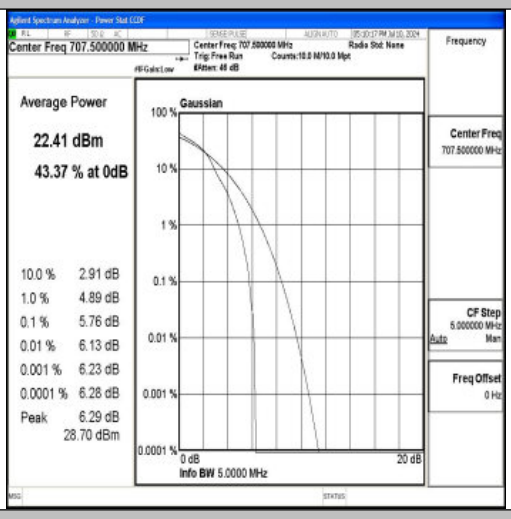


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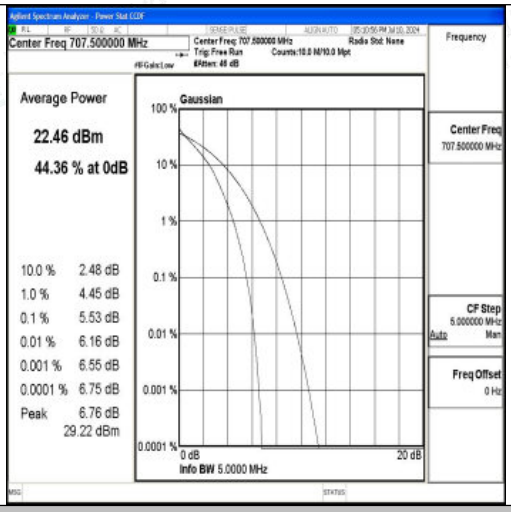


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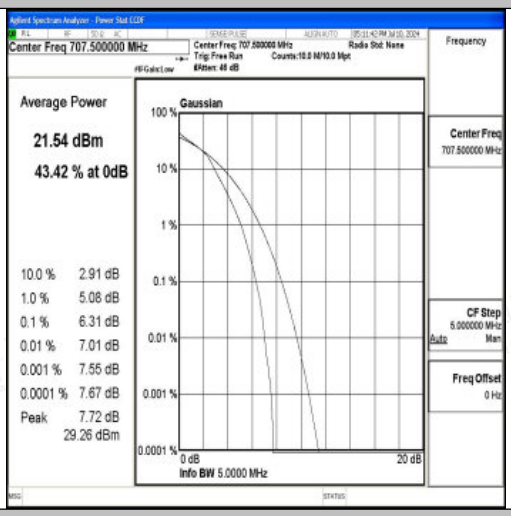


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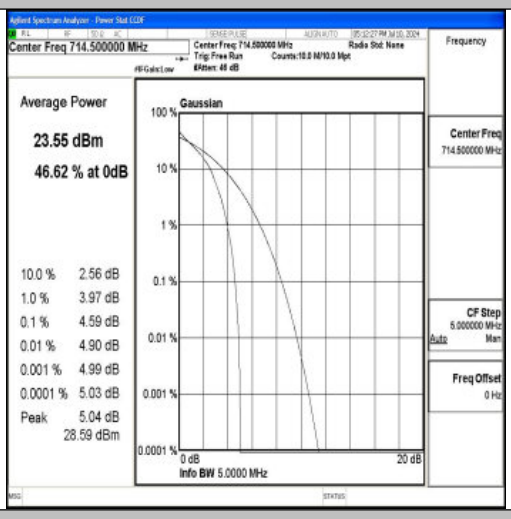


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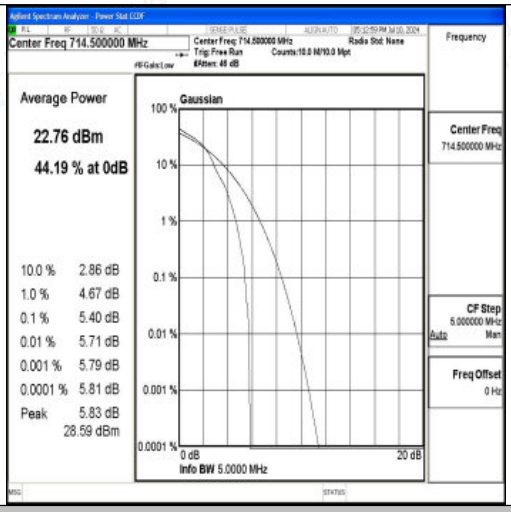


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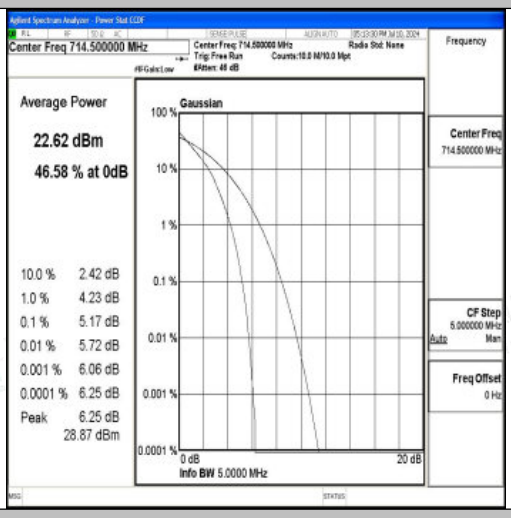


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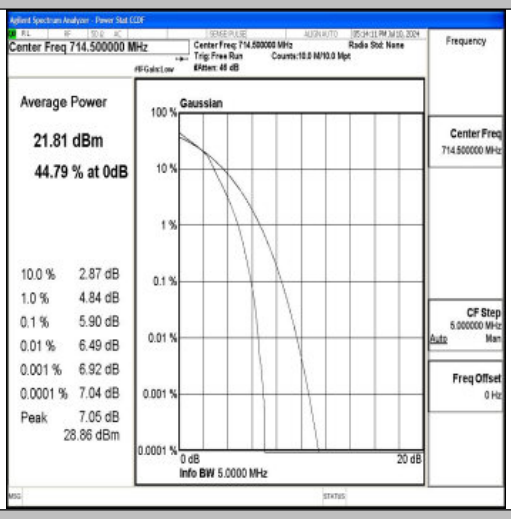


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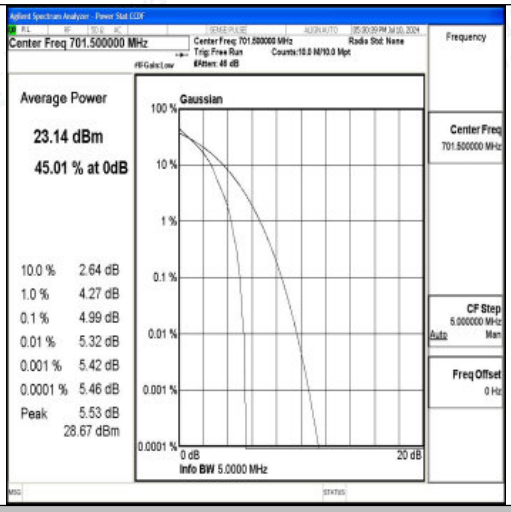


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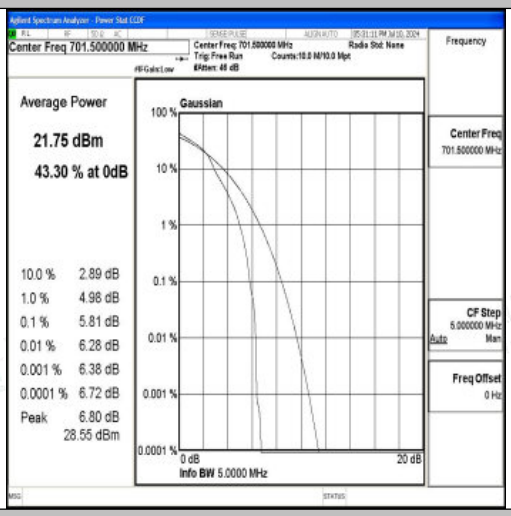


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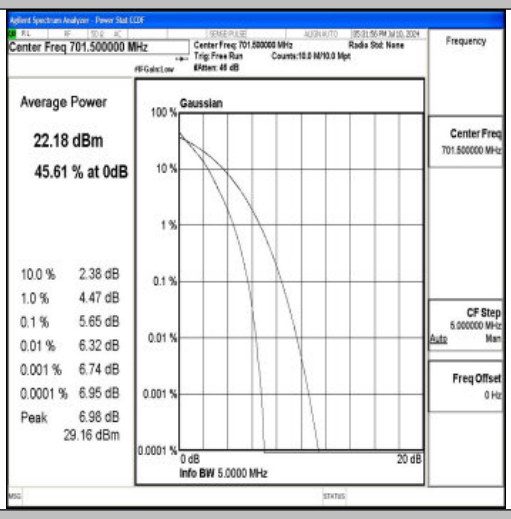


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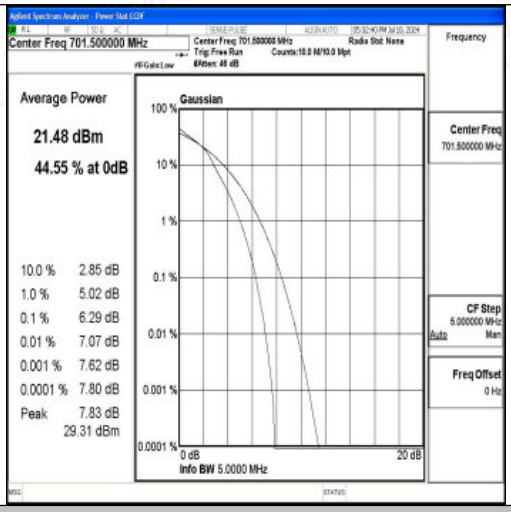


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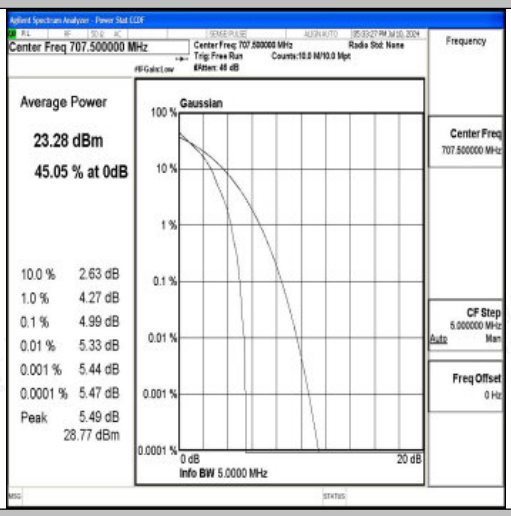


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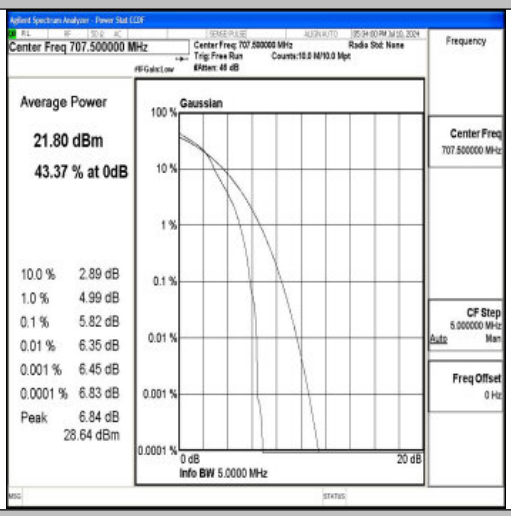


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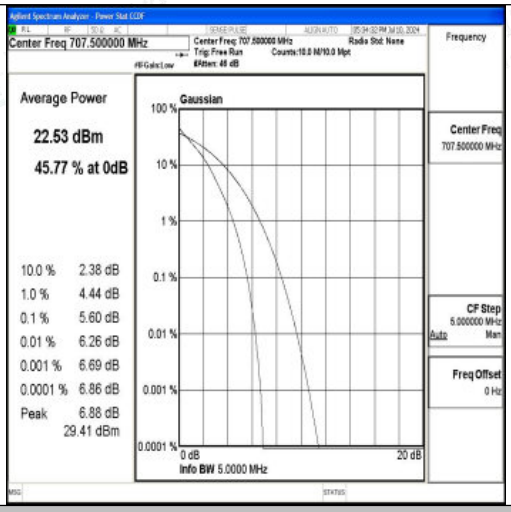


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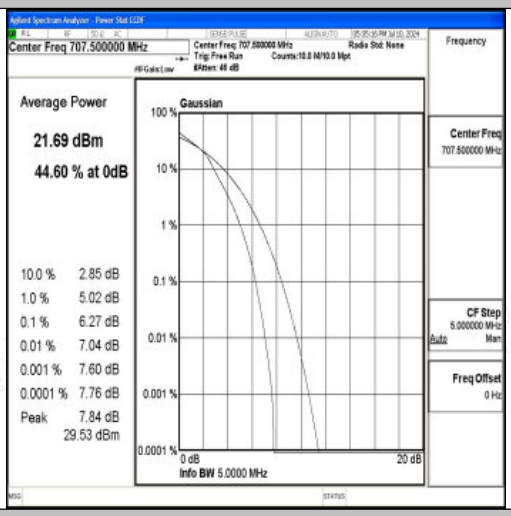


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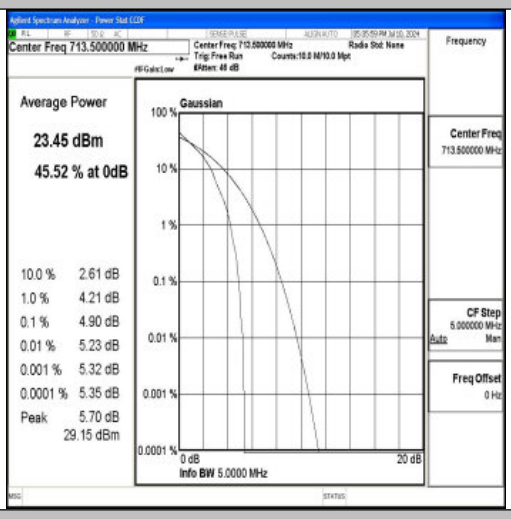


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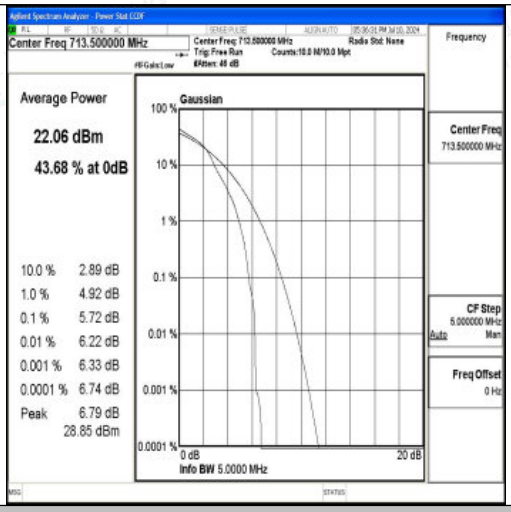


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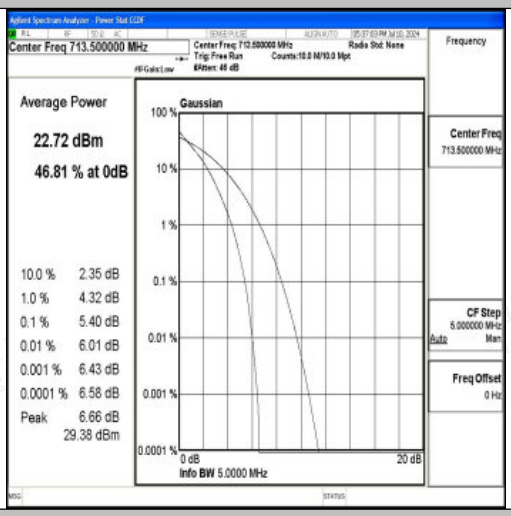


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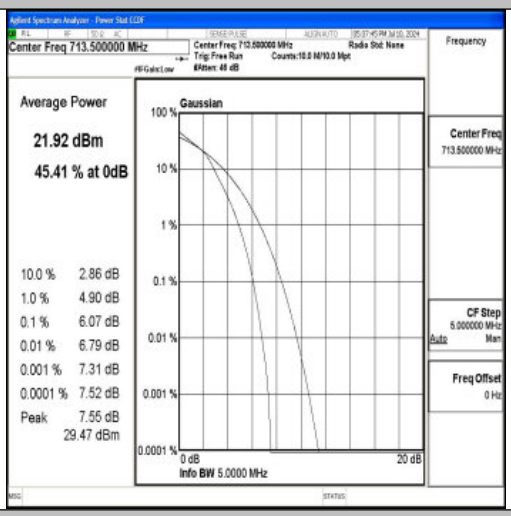


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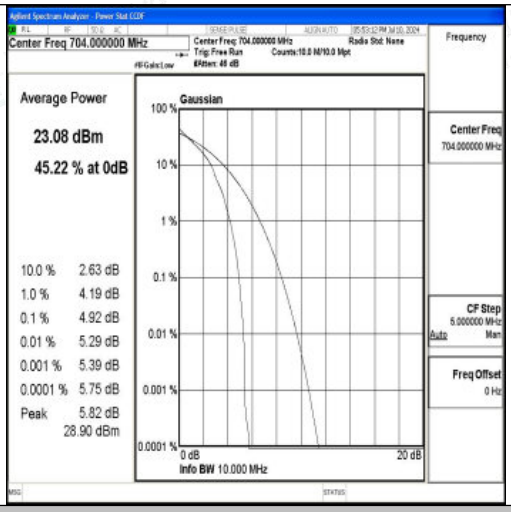


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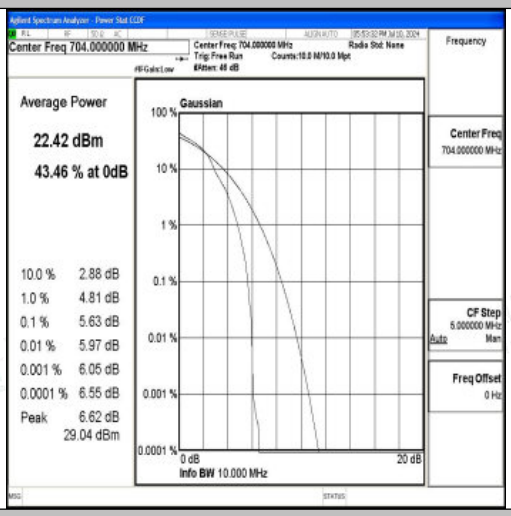


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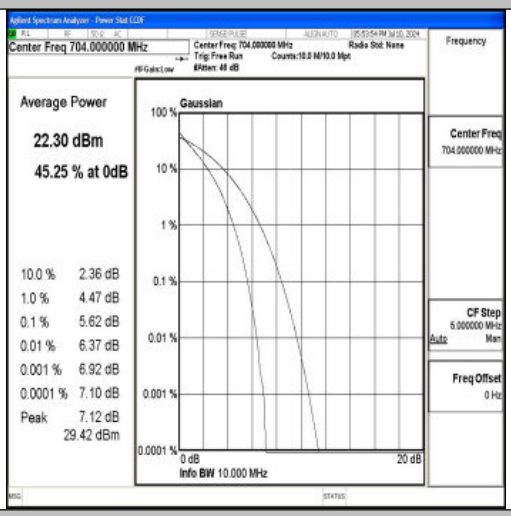


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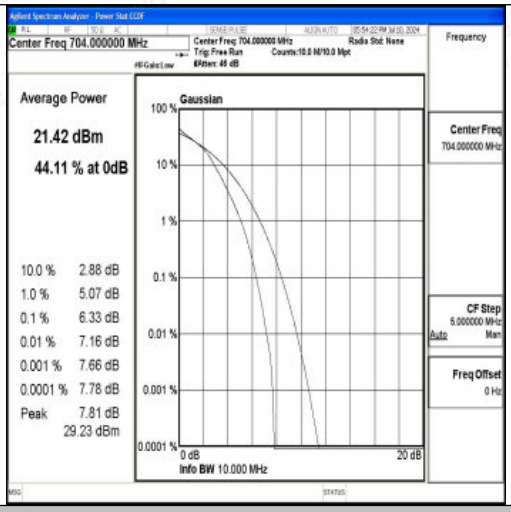


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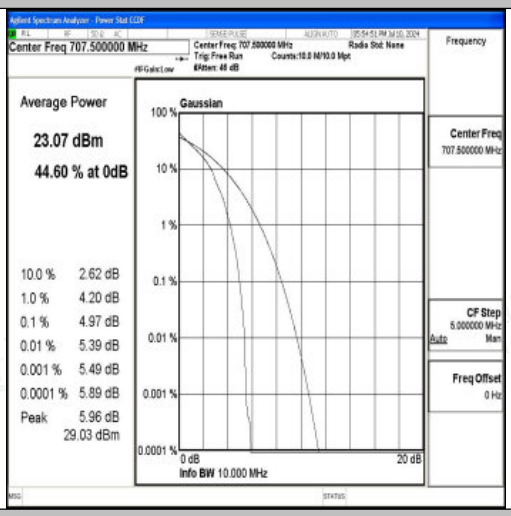


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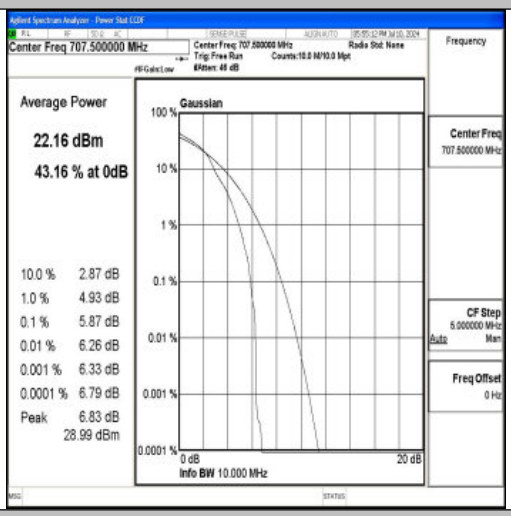


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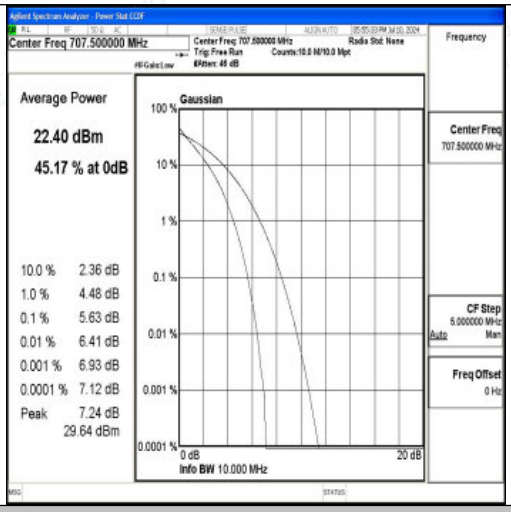


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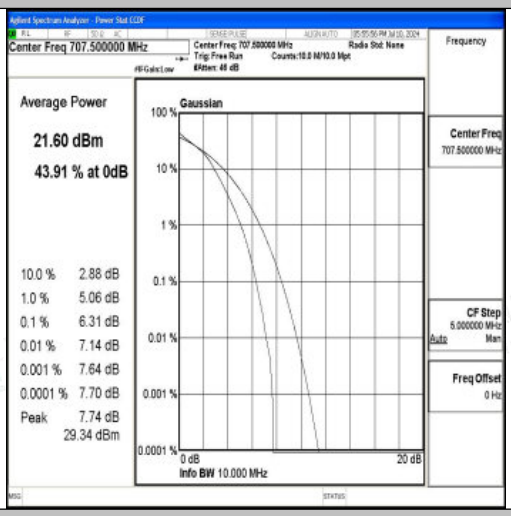


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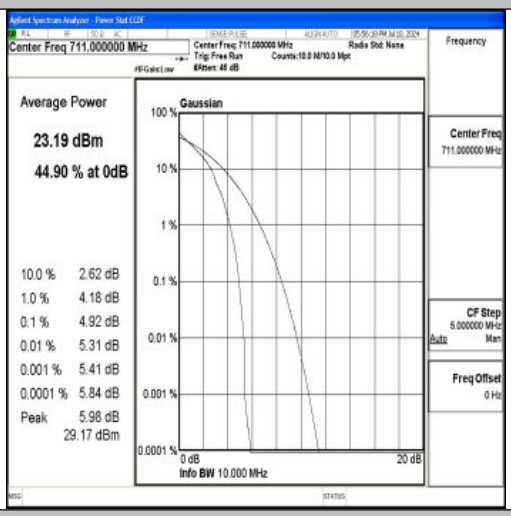


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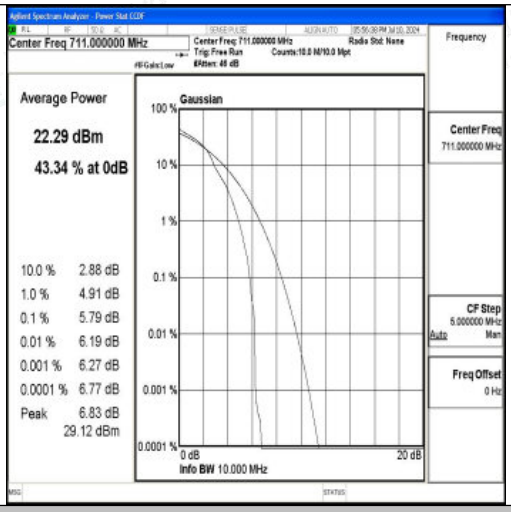


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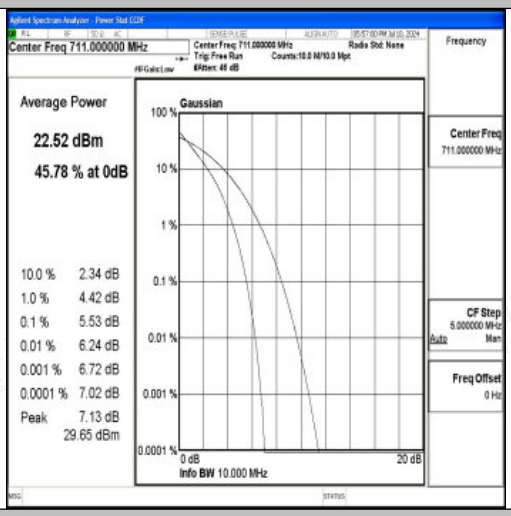


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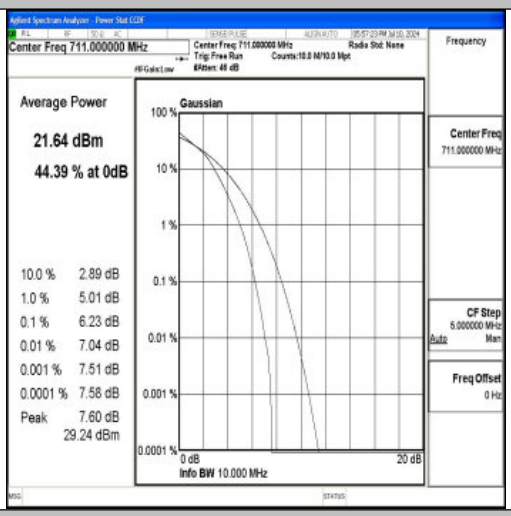


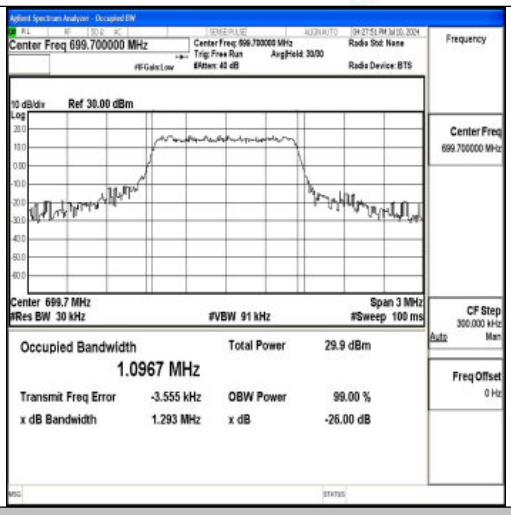

Band12-10MHz-16QAM-23130-50RB#0-PASS

# I.3 26dB Bandwidth and Occupied Bandwidth

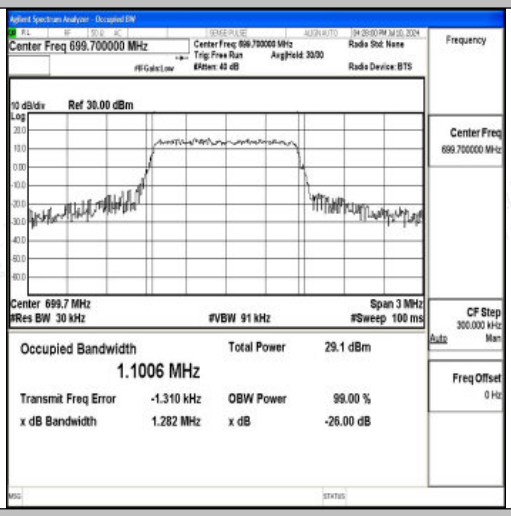
## Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|---|---|---|---|---|---|---|---|
| Band12 | 1.4MHz | QPSK | 23017 | 6RB#0 | 1.0967 | 1.293 | PASS |
| Band12 | 1.4MHz | 16QAM | 23017 | 6RB#0 | 1.1006 | 1.282 | PASS |
| Band12 | 1.4MHz | QPSK | 23095 | 6RB#0 | 1.0923 | 1.297 | PASS |
| Band12 | 1.4MHz | 16QAM | 23095 | 6RB#0 | 1.1055 | 1.327 | PASS |
| Band12 | 1.4MHz | QPSK | 23173 | 6RB#0 | 1.0947 | 1.287 | PASS |
| Band12 | 1.4MHz | 16QAM | 23173 | 6RB#0 | 1.1038 | 1.298 | PASS |
| Band12 | 3MHz | QPSK | 23025 | 15RB#0 | 2.7200 | 3.111 | PASS |
| Band12 | 3MHz | 16QAM | 23025 | 15RB#0 | 2.7010 | 3.099 | PASS |
| Band12 | 3MHz | QPSK | 23095 | 15RB#0 | 2.7139 | 3.207 | PASS |
| Band12 | 3MHz | 16QAM | 23095 | 15RB#0 | 2.6999 | 3.078 | PASS |
| Band12 | 3MHz | QPSK | 23165 | 15RB#0 | 2.7114 | 3.167 | PASS |
| Band12 | 3MHz | 16QAM | 23165 | 15RB#0 | 2.7034 | 3.066 | PASS |
| Band12 | 5MHz | QPSK | 23035 | 25RB#0 | 4.5117 | 5.281 | PASS |
| Band12 | 5MHz | 16QAM | 23035 | 25RB#0 | 4.5182 | 5.281 | PASS |
| Band12 | 5MHz | QPSK | 23095 | 25RB#0 | 4.5236 | 5.345 | PASS |
| Band12 | 5MHz | 16QAM | 23095 | 25RB#0 | 4.5141 | 5.352 | PASS |
| Band12 | 5MHz | QPSK | 23155 | 25RB#0 | 4.5191 | 5.294 | PASS |
| Band12 | 5MHz | 16QAM | 23155 | 25RB#0 | 4.5105 | 4.966 | PASS |
| Band12 | 10MHz | QPSK | 23060 | 50RB#0 | 8.9965 | 10.01 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 50RB#0 | 8.9841 | 10.19 | PASS |
| Band12 | 10MHz | QPSK | 23095 | 50RB#0 | 8.9963 | 10.08 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 50RB#0 | 9.0004 | 10.10 | PASS |
| Band12 | 10MHz | QPSK | 23130 | 50RB#0 | 9.0052 | 9.993 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 50RB#0 | 8.9951 | 10.10 | PASS |

## Test Graphs




Band12-1.4MHz-QPSK-23017-6RB#0-PASS

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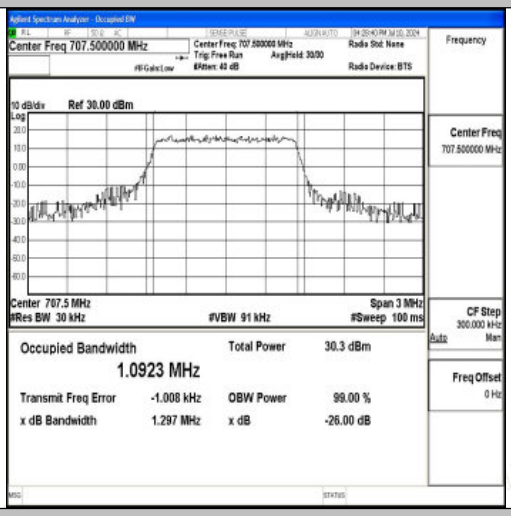
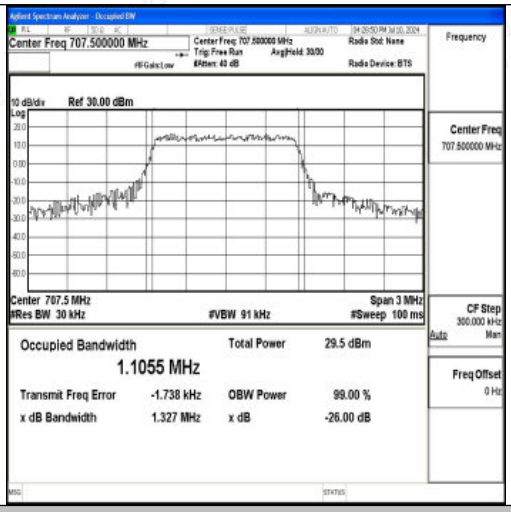
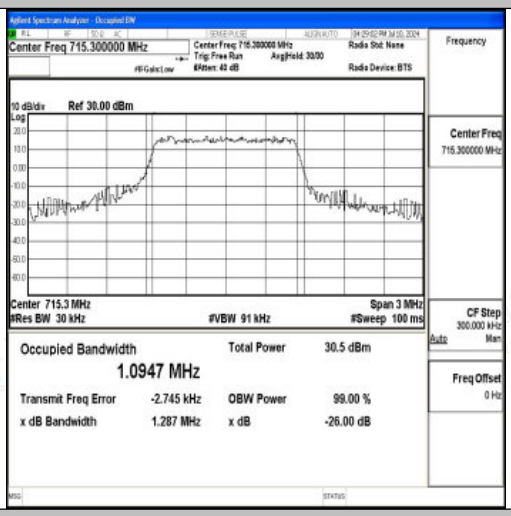


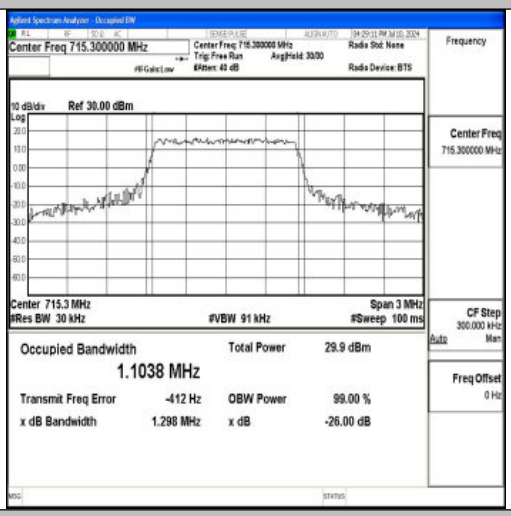

Band12-1.4MHz-QPSK-23095-6RB#0-PASS



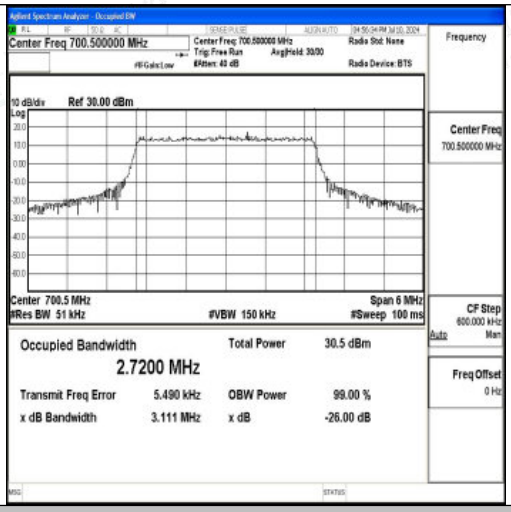

Band12-1.4MHz-16QAM-23095-6RB#0-PASS



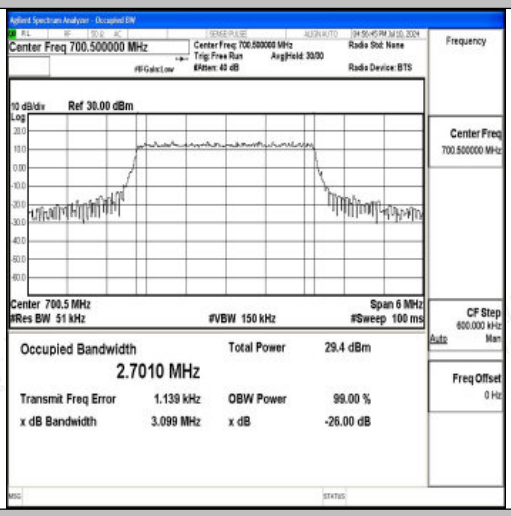

Band12-1.4MHz-QPSK-23173-6RB#0-PASS



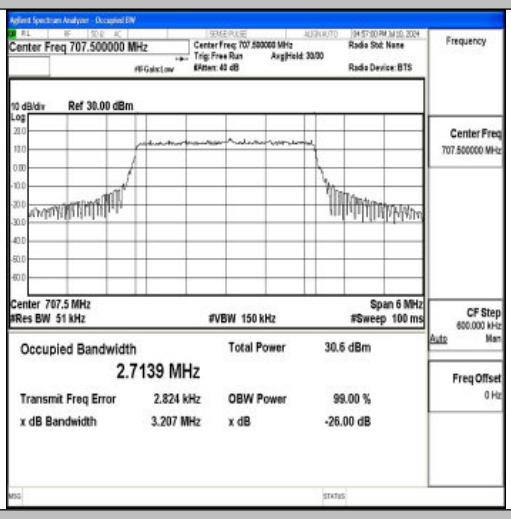

Band12-1.4MHz-16QAM-23173-6RB#0-PASS



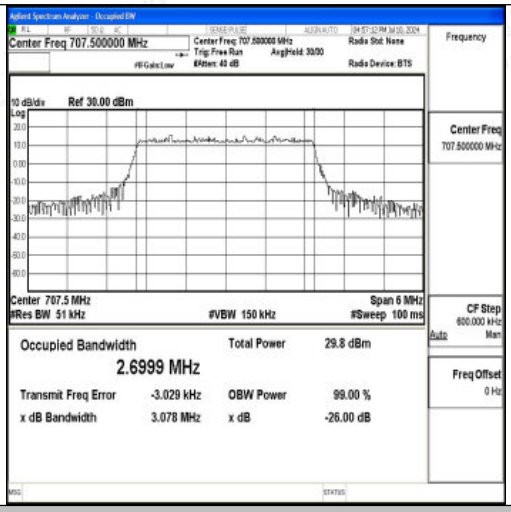

Band12-3MHz-QPSK-23025-15RB#0-PASS



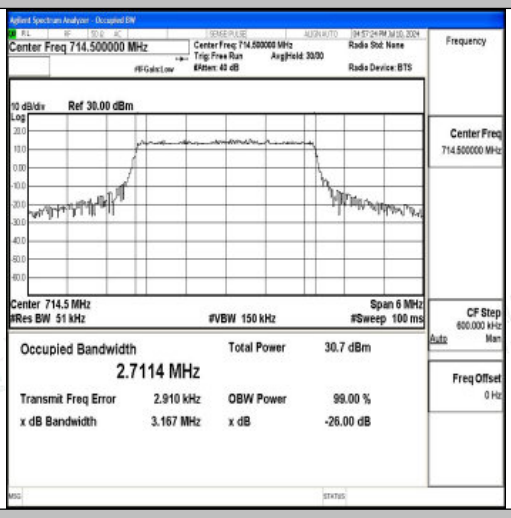

Band12-3MHz-16QAM-23025-15RB#0-PASS



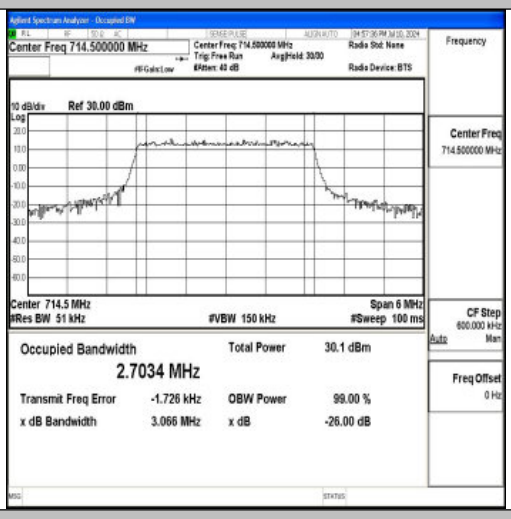

Band12-3MHz-QPSK-23095-15RB#0-PASS



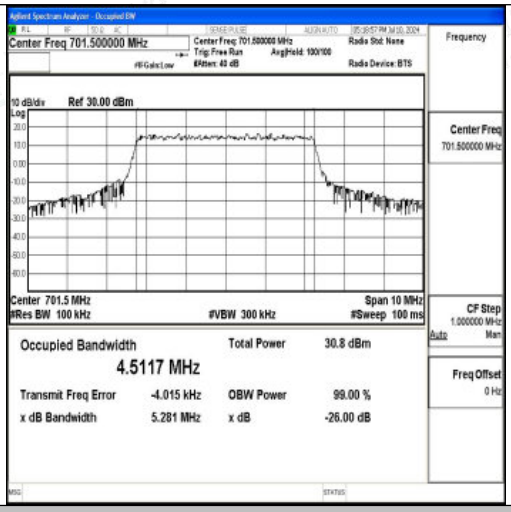

Band12-3MHz-16QAM-23095-15RB#0-PASS



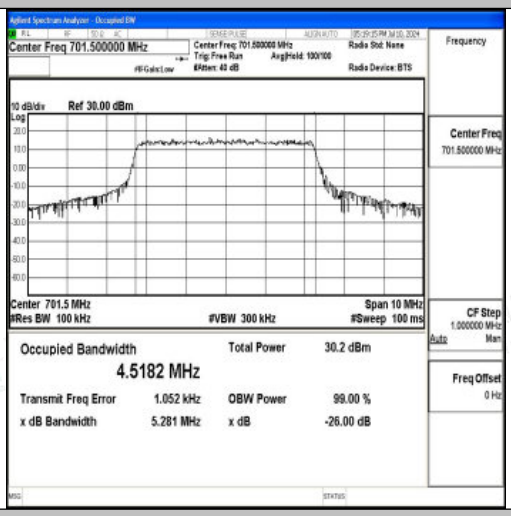

Band12-3MHz-QPSK-23165-15RB#0-PASS



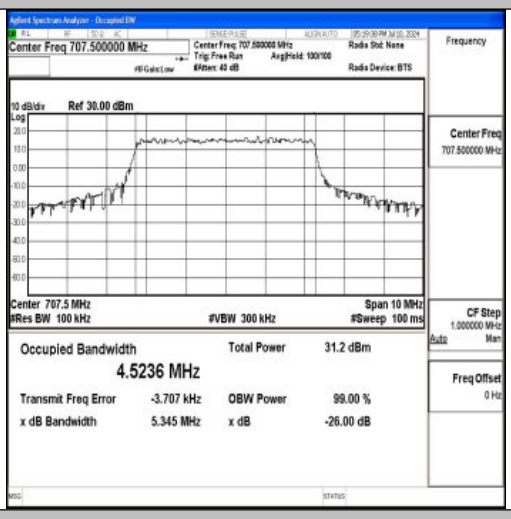

Band12-3MHz-16QAM-23165-15RB#0-PASS



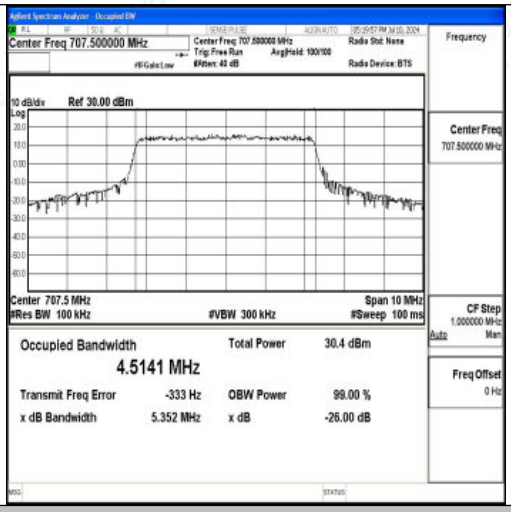

Band12-5MHz-QPSK-23035-25RB#0-PASS



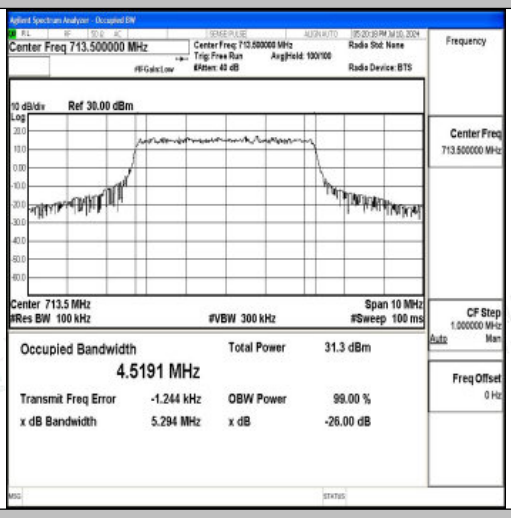

Band12-5MHz-16QAM-23035-25RB#0-PASS



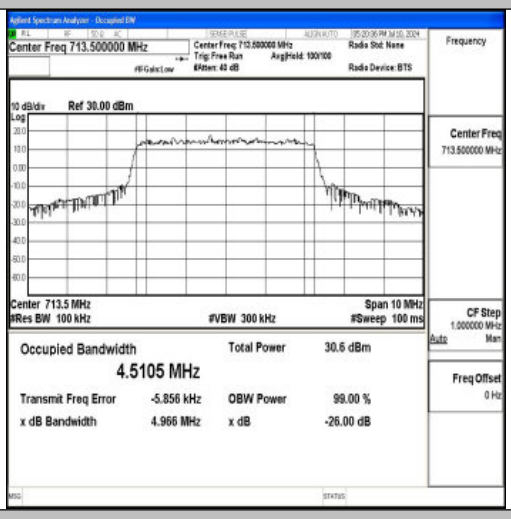

Band12-5MHz-QPSK-23095-25RB#0-PASS



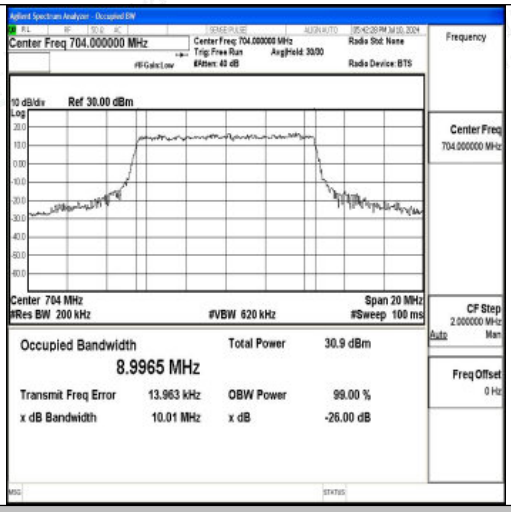

Band12-5MHz-16QAM-23095-25RB#0-PASS



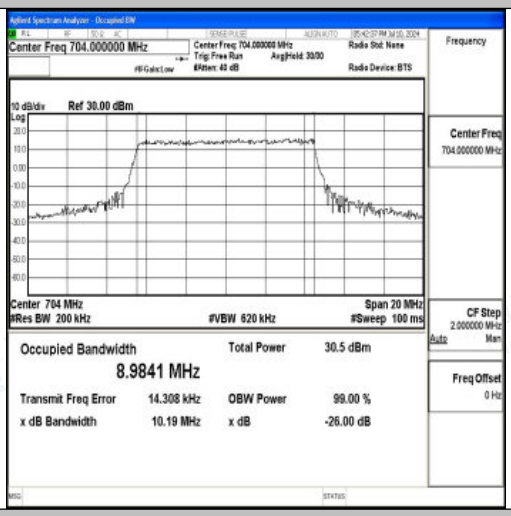

Band12-5MHz-QPSK-23155-25RB#0-PASS



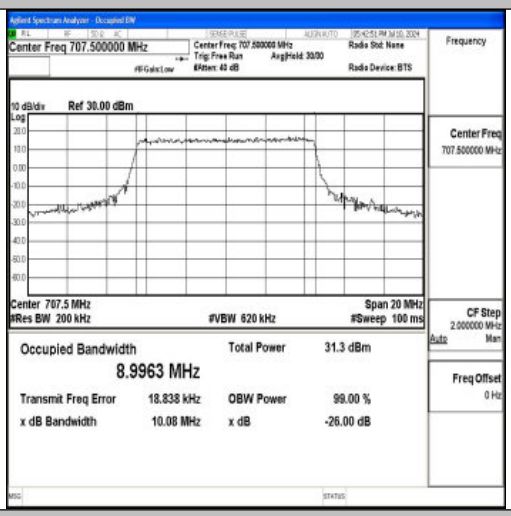

Band12-5MHz-16QAM-23155-25RB#0-PASS



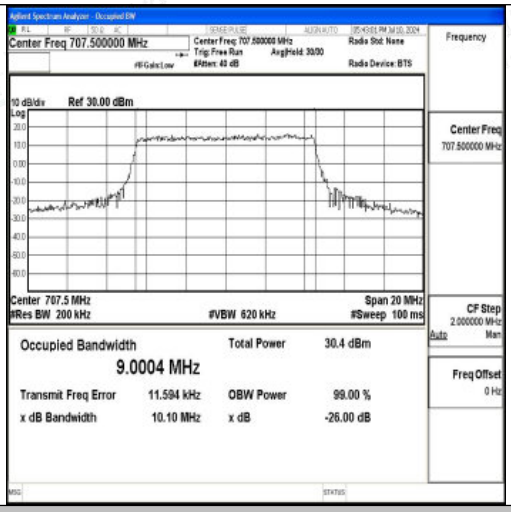

Band12-10MHz-QPSK-23060-50RB#0-PASS



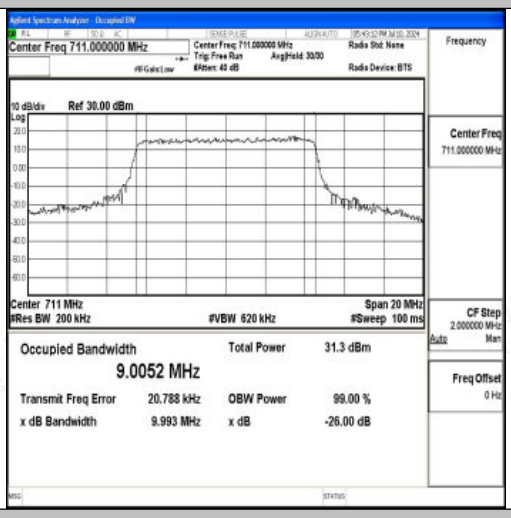

Band12-10MHz-16QAM-23060-50RB#0-PASS



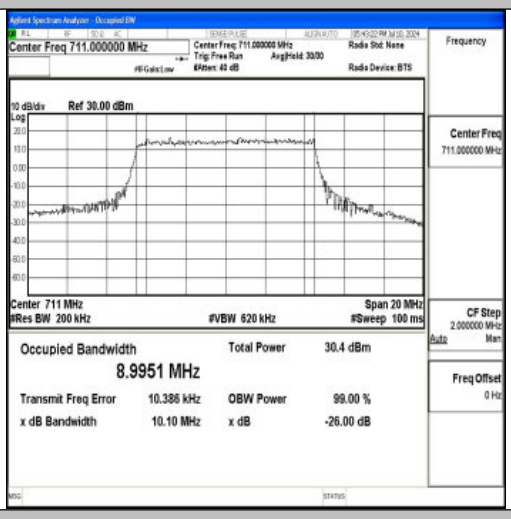

Band12-10MHz-QPSK-23095-50RB#0-PASS




Band12-10MHz-16QAM-23095-50RB#0-PASS




Band12-10MHz-QPSK-23130-50RB#0-PASS



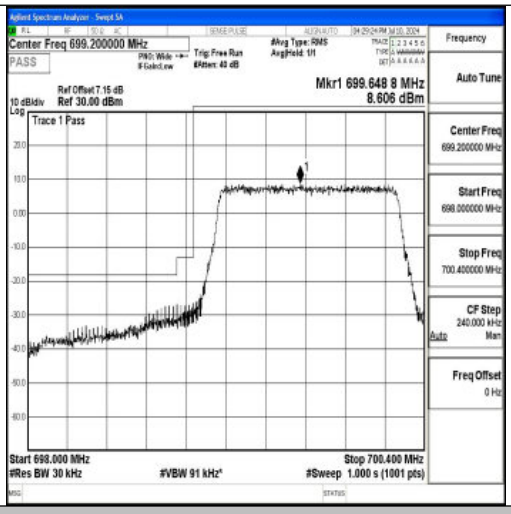

Band12-10MHz-16QAM-23130-50RB#0-PASS

# I.4 Band Edge

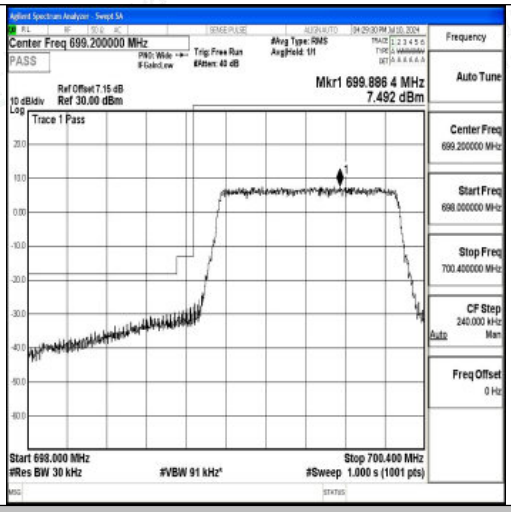
## Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Peak Frenquency | Result(dBm) | Verdict |
|---|---|---|---|---|---|---|---|
| Band12 | 1.4MHz | QPSK | 23017 | 6RB#0 | 698.86 | -27.31 | PASS |
| Band12 | 1.4MHz | 16QAM | 23017 | 6RB#0 | 698.89 | -29.67 | PASS |
| Band12 | 1.4MHz | QPSK | 23173 | 6RB#0 | 716.13 | -27.68 | PASS |
| Band12 | 1.4MHz | 16QAM | 23173 | 6RB#0 | 716.13 | -28.91 | PASS |
| Band12 | 3MHz | QPSK | 23025 | 15RB#0 | 699.00 | -24.87 | PASS |
| Band12 | 3MHz | 16QAM | 23025 | 15RB#0 | 698.99 | -25.93 | PASS |
| Band12 | 3MHz | QPSK | 23165 | 15RB#0 | 716.00 | -24.43 | PASS |
| Band12 | 3MHz | 16QAM | 23165 | 15RB#0 | 716.00 | -24.45 | PASS |
| Band12 | 5MHz | QPSK | 23035 | 25RB#0 | 698.84 | -34.50 | PASS |
| Band12 | 5MHz | 16QAM | 23035 | 25RB#0 | 698.87 | -34.48 | PASS |
| Band12 | 5MHz | QPSK | 23155 | 25RB#0 | 716.11 | -36.21 | PASS |
| Band12 | 5MHz | 16QAM | 23155 | 25RB#0 | 716.11 | -33.93 | PASS |
| Band12 | 10MHz | QPSK | 23060 | 50RB#0 | 698.57 | -37.66 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 50RB#0 | 698.86 | -39.00 | PASS |
| Band12 | 10MHz | QPSK | 23130 | 50RB#0 | 716.11 | -40.70 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 50RB#0 | 716.13 | -41.28 | PASS |

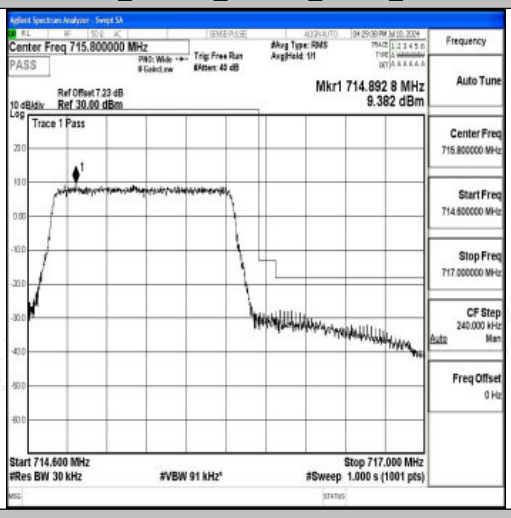
## Test Graphs



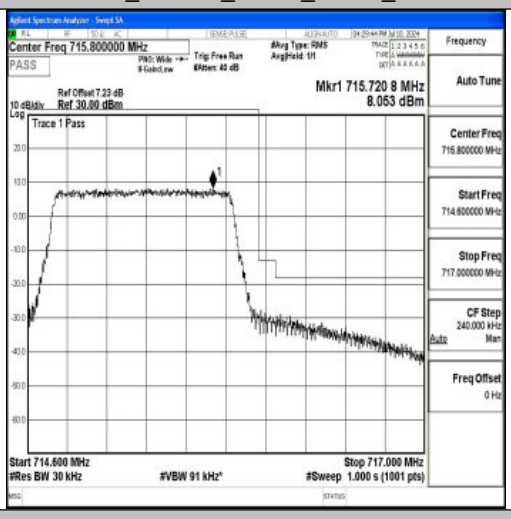

Band12_1.4MHz_QPSK_23017_6RB#0



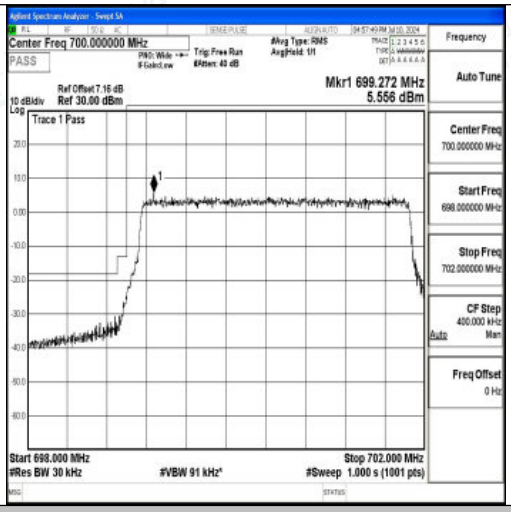

Band12_1.4MHz_16QAM_23017_6RB#0



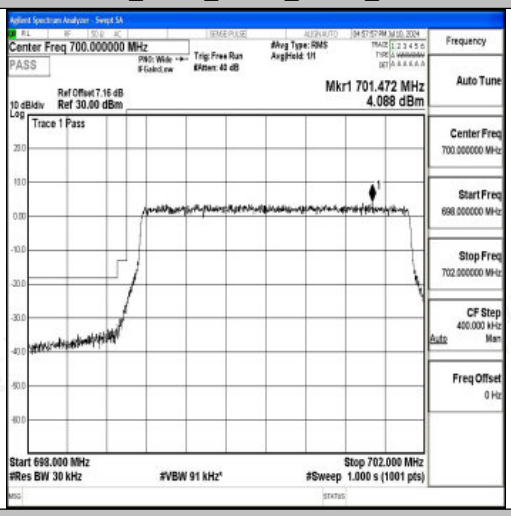

Band12_1.4MHz_QPSK_23173_6RB#0



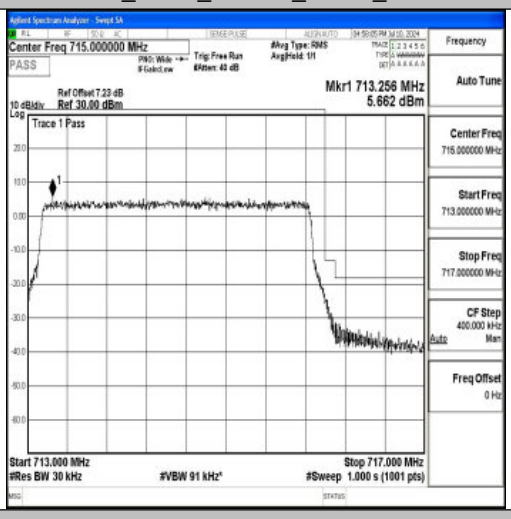

Band12_1.4MHz_16QAM_23173_6RB#0



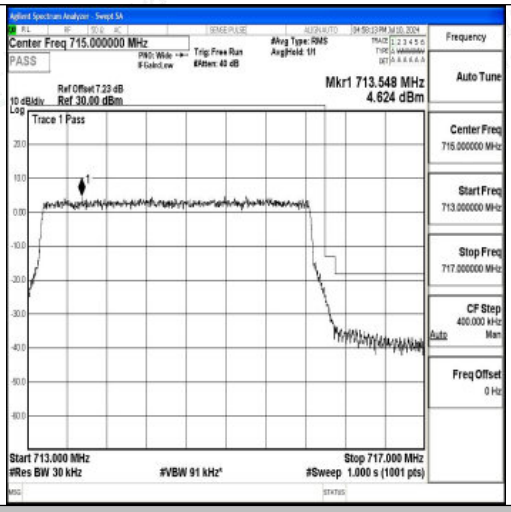

Band12_3MHz_QPSK_23025_15RB#0



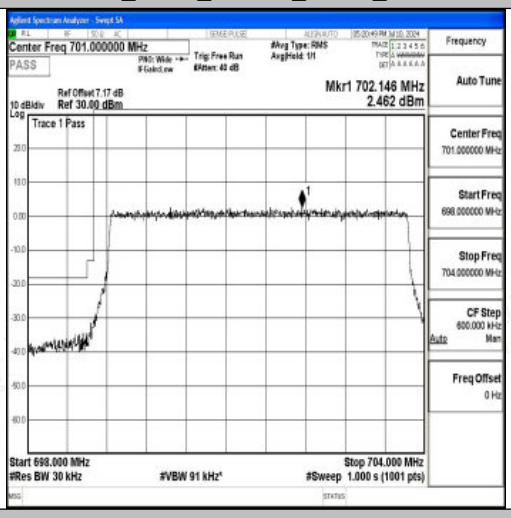

Band12_3MHz_16QAM_23025_15RB#0



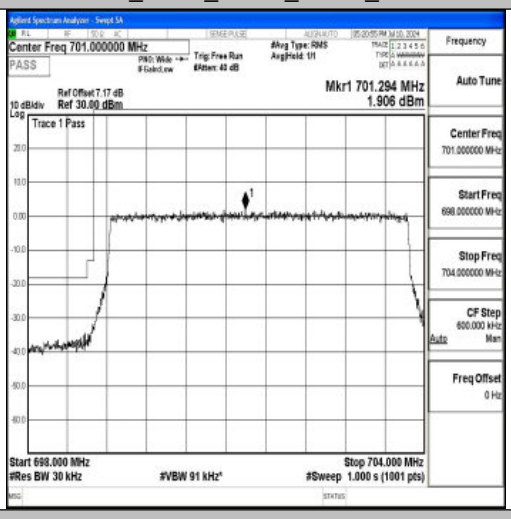

Band12_3MHz_QPSK_23165_15RB#0



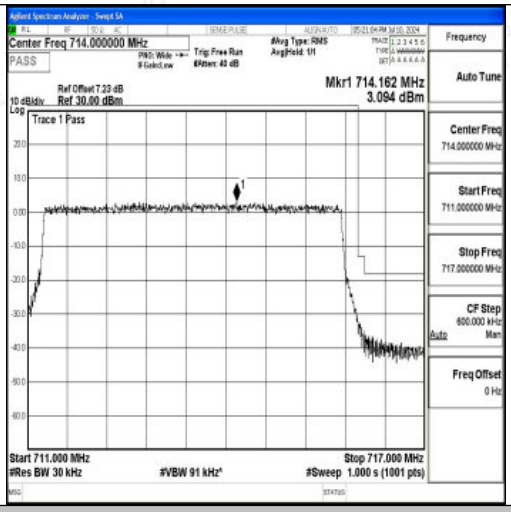

Band12_3MHz_16QAM_23165_15RB#0



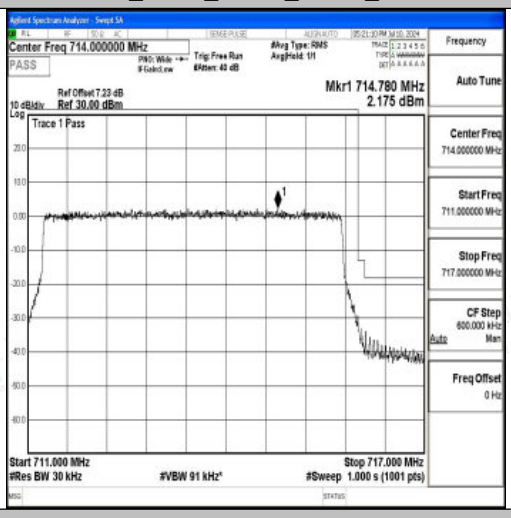

Band12_5MHz_QPSK_23035_25RB#0



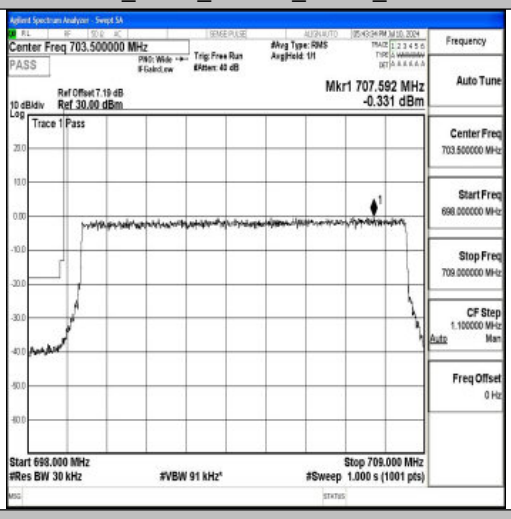

Band12_5MHz_16QAM_23035_25RB#0



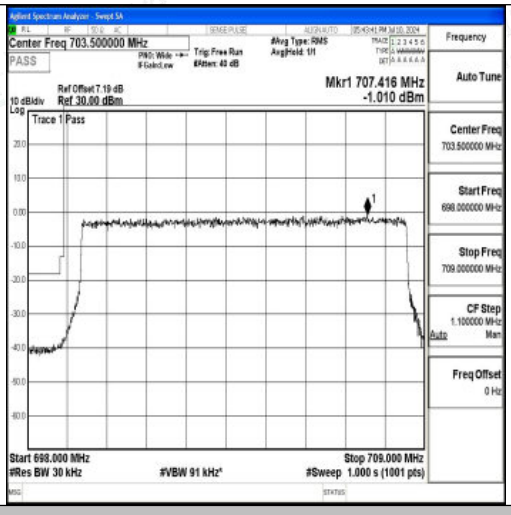

Band12_5MHz_QPSK_23155_25RB#0



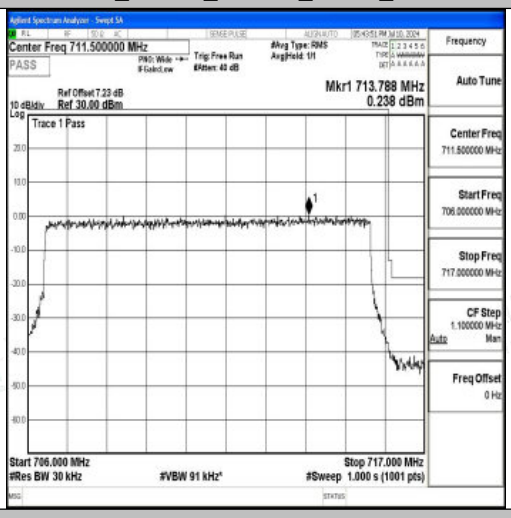

Band12_5MHz_16QAM_23155_25RB#0



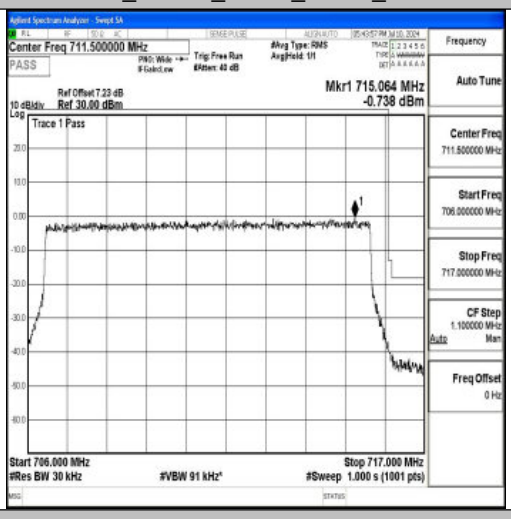

Band12_10MHz_QPSK_23060_50RB#0




Band12_10MHz_16QAM_23060_50RB#0




Band12_10MHz_QPSK_23130_50RB#0




Band12_10MHz_16QAM_23130_50RB#0

# I.5 Conducted Spurious Emission

## Test Result

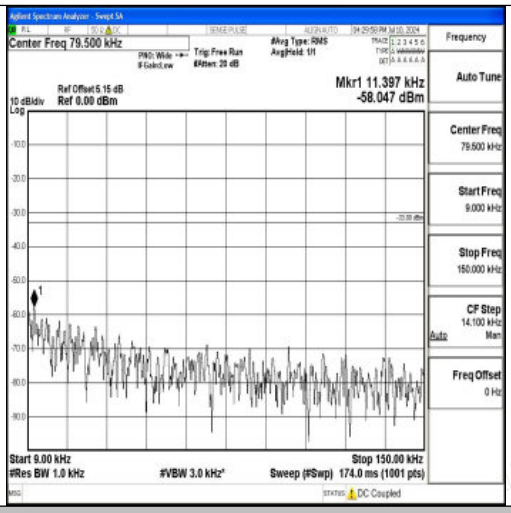
| Band | Bandwidth | Modulation | Channel | RB Configuration | Frequency Range | Result (dBm) | Verdict |
|---|---|---|---|---|---|---|---|
| Band12 | 1.4MHz | QPSK | 23017 | 1RB#0 | 0.009~0.15 | -58.05 | PASS |
| Band12 | 1.4MHz | QPSK | 23017 | 1RB#0 | 0.15~30 | -51.72 | PASS |
| Band12 | 1.4MHz | QPSK | 23017 | 1RB#0 | 30~1000 | -47.27 | PASS |
| Band12 | 1.4MHz | QPSK | 23017 | 1RB#0 | 1000~3000 | -45.05 | PASS |
| Band12 | 1.4MHz | QPSK | 23017 | 1RB#0 | 3000~10000 | -44.23 | PASS |
| Band12 | 1.4MHz | 16QAM | 23017 | 1RB#0 | 0.009~0.15 | -57.33 | PASS |
| Band12 | 1.4MHz | 16QAM | 23017 | 1RB#0 | 0.15~30 | -53.08 | PASS |
| Band12 | 1.4MHz | 16QAM | 23017 | 1RB#0 | 30~1000 | -47.35 | PASS |
| Band12 | 1.4MHz | 16QAM | 23017 | 1RB#0 | 1000~3000 | -42.80 | PASS |
| Band12 | 1.4MHz | 16QAM | 23017 | 1RB#0 | 3000~10000 | -44.02 | PASS |
| Band12 | 1.4MHz | QPSK | 23095 | 1RB#0 | 0.009~0.15 | -57.81 | PASS |
| Band12 | 1.4MHz | QPSK | 23095 | 1RB#0 | 0.15~30 | -51.90 | PASS |
| Band12 | 1.4MHz | QPSK | 23095 | 1RB#0 | 30~1000 | -43.57 | PASS |
| Band12 | 1.4MHz | QPSK | 23095 | 1RB#0 | 1000~3000 | -44.64 | PASS |
| Band12 | 1.4MHz | QPSK | 23095 | 1RB#0 | 3000~10000 | -44.13 | PASS |
| Band12 | 1.4MHz | 16QAM | 23095 | 1RB#0 | 0.009~0.15 | -57.81 | PASS |
| Band12 | 1.4MHz | 16QAM | 23095 | 1RB#0 | 0.15~30 | -51.84 | PASS |
| Band12 | 1.4MHz | 16QAM | 23095 | 1RB#0 | 30~1000 | -43.13 | PASS |
| Band12 | 1.4MHz | 16QAM | 23095 | 1RB#0 | 1000~3000 | -43.98 | PASS |
| Band12 | 1.4MHz | 16QAM | 23095 | 1RB#0 | 3000~10000 | -44.21 | PASS |
| Band12 | 1.4MHz | QPSK | 23173 | 1RB#0 | 0.009~0.15 | -57.37 | PASS |
| Band12 | 1.4MHz | QPSK | 23173 | 1RB#0 | 0.15~30 | -53.39 | PASS |
| Band12 | 1.4MHz | QPSK | 23173 | 1RB#0 | 30~1000 | -44.91 | PASS |
| Band12 | 1.4MHz | QPSK | 23173 | 1RB#0 | 1000~3000 | -44.45 | PASS |
| Band12 | 1.4MHz | QPSK | 23173 | 1RB#0 | 3000~10000 | -44.01 | PASS |
| Band12 | 1.4MHz | 16QAM | 23173 | 1RB#0 | 0.009~0.15 | -58.35 | PASS |
| Band12 | 1.4MHz | 16QAM | 23173 | 1RB#0 | 0.15~30 | -51.31 | PASS |
| Band12 | 1.4MHz | 16QAM | 23173 | 1RB#0 | 30~1000 | -45.30 | PASS |
| Band12 | 1.4MHz | 16QAM | 23173 | 1RB#0 | 1000~3000 | -43.63 | PASS |
| Band12 | 1.4MHz | 16QAM | 23173 | 1RB#0 | 3000~10000 | -44.03 | PASS |
| Band12 | 3MHz | QPSK | 23025 | 1RB#0 | 0.009~0.15 | -56.45 | PASS |
| Band12 | 3MHz | QPSK | 23025 | 1RB#0 | 0.15~30 | -54.45 | PASS |
| Band12 | 3MHz | QPSK | 23025 | 1RB#0 | 30~1000 | -46.99 | PASS |
| Band12 | 3MHz | QPSK | 23025 | 1RB#0 | 1000~3000 | -44.99 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Band12 | 3MHz | QPSK | 23025 | 1RB#0 | 3000~10000 | -43.88 | PASS |
| Band12 | 3MHz | 16QAM | 23025 | 1RB#0 | 0.009~0.15 | -57.26 | PASS |
| Band12 | 3MHz | 16QAM | 23025 | 1RB#0 | 0.15~30 | -50.87 | PASS |
| Band12 | 3MHz | 16QAM | 23025 | 1RB#0 | 30~1000 | -46.92 | PASS |
| Band12 | 3MHz | 16QAM | 23025 | 1RB#0 | 1000~3000 | -44.42 | PASS |
| Band12 | 3MHz | 16QAM | 23025 | 1RB#0 | 3000~10000 | -44.20 | PASS |
| Band12 | 3MHz | QPSK | 23095 | 1RB#0 | 0.009~0.15 | -57.39 | PASS |
| Band12 | 3MHz | QPSK | 23095 | 1RB#0 | 0.15~30 | -50.49 | PASS |
| Band12 | 3MHz | QPSK | 23095 | 1RB#0 | 30~1000 | -48.38 | PASS |
| Band12 | 3MHz | QPSK | 23095 | 1RB#0 | 1000~3000 | -45.27 | PASS |
| Band12 | 3MHz | QPSK | 23095 | 1RB#0 | 3000~10000 | -44.03 | PASS |
| Band12 | 3MHz | 16QAM | 23095 | 1RB#0 | 0.009~0.15 | -57.48 | PASS |
| Band12 | 3MHz | 16QAM | 23095 | 1RB#0 | 0.15~30 | -53.73 | PASS |
| Band12 | 3MHz | 16QAM | 23095 | 1RB#0 | 30~1000 | -50.99 | PASS |
| Band12 | 3MHz | 16QAM | 23095 | 1RB#0 | 1000~3000 | -45.83 | PASS |
| Band12 | 3MHz | 16QAM | 23095 | 1RB#0 | 3000~10000 | -44.07 | PASS |
| Band12 | 3MHz | QPSK | 23165 | 1RB#0 | 0.009~0.15 | -58.90 | PASS |
| Band12 | 3MHz | QPSK | 23165 | 1RB#0 | 0.15~30 | -55.47 | PASS |
| Band12 | 3MHz | QPSK | 23165 | 1RB#0 | 30~1000 | -50.29 | PASS |
| Band12 | 3MHz | QPSK | 23165 | 1RB#0 | 1000~3000 | -44.78 | PASS |
| Band12 | 3MHz | QPSK | 23165 | 1RB#0 | 3000~10000 | -44.06 | PASS |
| Band12 | 3MHz | 16QAM | 23165 | 1RB#0 | 0.009~0.15 | -56.09 | PASS |
| Band12 | 3MHz | 16QAM | 23165 | 1RB#0 | 0.15~30 | -48.70 | PASS |
| Band12 | 3MHz | 16QAM | 23165 | 1RB#0 | 30~1000 | -49.16 | PASS |
| Band12 | 3MHz | 16QAM | 23165 | 1RB#0 | 1000~3000 | -44.37 | PASS |
| Band12 | 3MHz | 16QAM | 23165 | 1RB#0 | 3000~10000 | -43.93 | PASS |
| Band12 | 5MHz | QPSK | 23035 | 1RB#0 | 0.009~0.15 | -56.41 | PASS |
| Band12 | 5MHz | QPSK | 23035 | 1RB#0 | 0.15~30 | -50.91 | PASS |
| Band12 | 5MHz | QPSK | 23035 | 1RB#0 | 30~1000 | -57.92 | PASS |
| Band12 | 5MHz | QPSK | 23035 | 1RB#0 | 1000~3000 | -44.43 | PASS |
| Band12 | 5MHz | QPSK | 23035 | 1RB#0 | 3000~10000 | -44.04 | PASS |
| Band12 | 5MHz | 16QAM | 23035 | 1RB#0 | 0.009~0.15 | -57.17 | PASS |
| Band12 | 5MHz | 16QAM | 23035 | 1RB#0 | 0.15~30 | -55.22 | PASS |
| Band12 | 5MHz | 16QAM | 23035 | 1RB#0 | 30~1000 | -58.12 | PASS |
| Band12 | 5MHz | 16QAM | 23035 | 1RB#0 | 1000~3000 | -44.88 | PASS |
| Band12 | 5MHz | 16QAM | 23035 | 1RB#0 | 3000~10000 | -44.15 | PASS |
| Band12 | 5MHz | QPSK | 23095 | 1RB#0 | 0.009~0.15 | -58.25 | PASS |
| Band12 | 5MHz | QPSK | 23095 | 1RB#0 | 0.15~30 | -53.62 | PASS |
| Band12 | 5MHz | QPSK | 23095 | 1RB#0 | 30~1000 | -59.57 | PASS |
| Band12 | 5MHz | QPSK | 23095 | 1RB#0 | 1000~3000 | -45.23 | PASS |

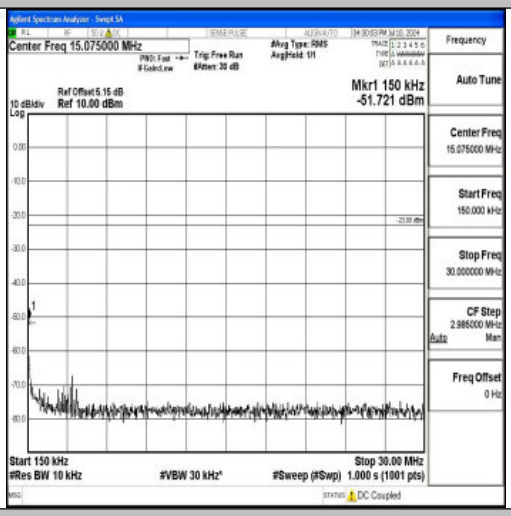
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Band12 | 5MHz | QPSK | 23095 | 1RB#0 | 3000~10000 | -43.57 | PASS |
| Band12 | 5MHz | 16QAM | 23095 | 1RB#0 | 0.009~0.15 | -56.30 | PASS |
| Band12 | 5MHz | 16QAM | 23095 | 1RB#0 | 0.15~30 | -53.69 | PASS |
| Band12 | 5MHz | 16QAM | 23095 | 1RB#0 | 30~1000 | -59.54 | PASS |
| Band12 | 5MHz | 16QAM | 23095 | 1RB#0 | 1000~3000 | -46.06 | PASS |
| Band12 | 5MHz | 16QAM | 23095 | 1RB#0 | 3000~10000 | -43.68 | PASS |
| Band12 | 5MHz | QPSK | 23155 | 1RB#0 | 0.009~0.15 | -59.75 | PASS |
| Band12 | 5MHz | QPSK | 23155 | 1RB#0 | 0.15~30 | -50.52 | PASS |
| Band12 | 5MHz | QPSK | 23155 | 1RB#0 | 30~1000 | -58.72 | PASS |
| Band12 | 5MHz | QPSK | 23155 | 1RB#0 | 1000~3000 | -43.95 | PASS |
| Band12 | 5MHz | QPSK | 23155 | 1RB#0 | 3000~10000 | -44.33 | PASS |
| Band12 | 5MHz | 16QAM | 23155 | 1RB#0 | 0.009~0.15 | -59.77 | PASS |
| Band12 | 5MHz | 16QAM | 23155 | 1RB#0 | 0.15~30 | -53.11 | PASS |
| Band12 | 5MHz | 16QAM | 23155 | 1RB#0 | 30~1000 | -60.12 | PASS |
| Band12 | 5MHz | 16QAM | 23155 | 1RB#0 | 1000~3000 | -44.89 | PASS |
| Band12 | 5MHz | 16QAM | 23155 | 1RB#0 | 3000~10000 | -43.83 | PASS |
| Band12 | 10MHz | QPSK | 23060 | 1RB#0 | 0.009~0.15 | -57.90 | PASS |
| Band12 | 10MHz | QPSK | 23060 | 1RB#0 | 0.15~30 | -53.59 | PASS |
| Band12 | 10MHz | QPSK | 23060 | 1RB#0 | 30~1000 | -62.32 | PASS |
| Band12 | 10MHz | QPSK | 23060 | 1RB#0 | 1000~3000 | -44.07 | PASS |
| Band12 | 10MHz | QPSK | 23060 | 1RB#0 | 3000~10000 | -44.07 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 1RB#0 | 0.009~0.15 | -58.02 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 1RB#0 | 0.15~30 | -51.51 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 1RB#0 | 30~1000 | -61.85 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 1RB#0 | 1000~3000 | -44.18 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 1RB#0 | 3000~10000 | -44.21 | PASS |
| Band12 | 10MHz | QPSK | 23095 | 1RB#0 | 0.009~0.15 | -59.95 | PASS |
| Band12 | 10MHz | QPSK | 23095 | 1RB#0 | 0.15~30 | -51.71 | PASS |
| Band12 | 10MHz | QPSK | 23095 | 1RB#0 | 30~1000 | -62.31 | PASS |
| Band12 | 10MHz | QPSK | 23095 | 1RB#0 | 1000~3000 | -44.87 | PASS |
| Band12 | 10MHz | QPSK | 23095 | 1RB#0 | 3000~10000 | -44.28 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 1RB#0 | 0.009~0.15 | -56.00 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 1RB#0 | 0.15~30 | -51.33 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 1RB#0 | 30~1000 | -62.21 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 1RB#0 | 1000~3000 | -44.55 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 1RB#0 | 3000~10000 | -44.28 | PASS |
| Band12 | 10MHz | QPSK | 23130 | 1RB#0 | 0.009~0.15 | -56.12 | PASS |
| Band12 | 10MHz | QPSK | 23130 | 1RB#0 | 0.15~30 | -51.49 | PASS |
| Band12 | 10MHz | QPSK | 23130 | 1RB#0 | 30~1000 | -61.71 | PASS |
| Band12 | 10MHz | QPSK | 23130 | 1RB#0 | 1000~3000 | -41.44 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Band12 | 10MHz | QPSK | 23130 | 1RB#0 | 3000~10000 | -44.26 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 1RB#0 | 0.009~0.15 | -57.04 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 1RB#0 | 0.15~30 | -53.40 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 1RB#0 | 30~1000 | -62.00 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 1RB#0 | 1000~3000 | -45.21 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 1RB#0 | 3000~10000 | -43.47 | PASS |

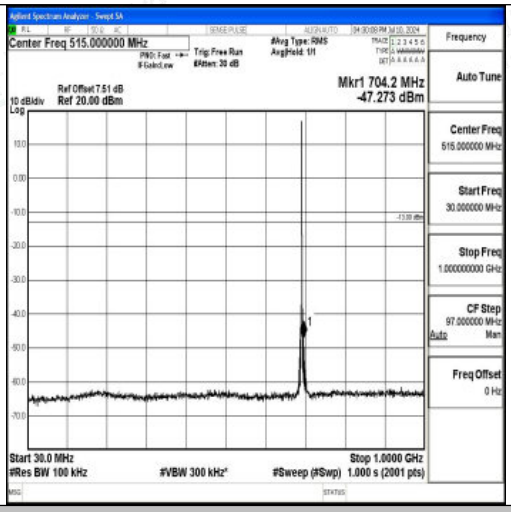
## Test Graphs



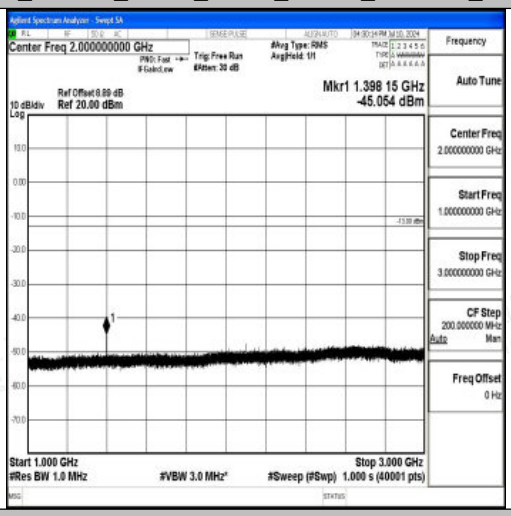

Band12_1.4MHz_QPSK_23017_1RB#0_0.009~0.15_0.009~0.15



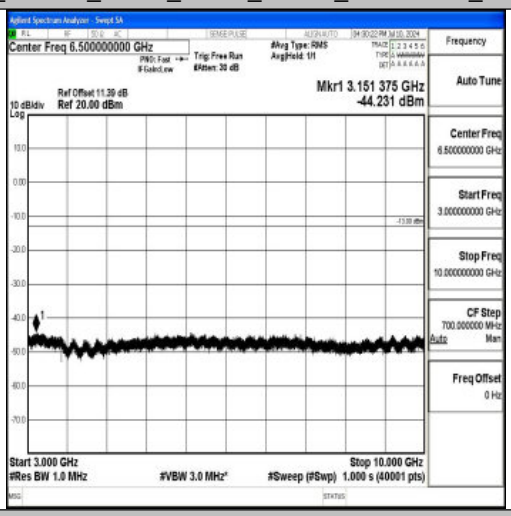

Band12_1.4MHz_QPSK_23017_1RB#0_0.15~30_0.15~30



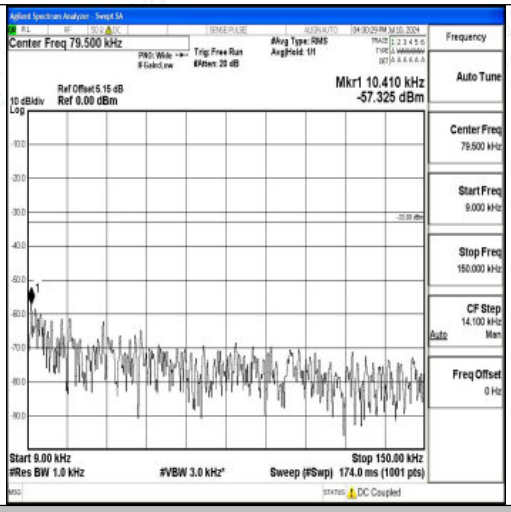

Band12_1.4MHz_QPSK_23017_1RB#0_30~1000_30~1000



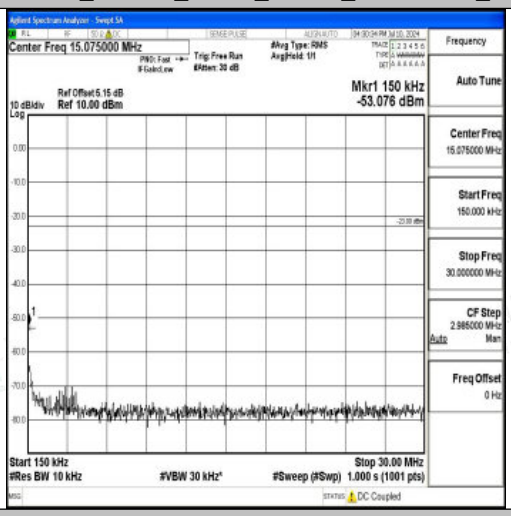

Band12_1.4MHz_QPSK_23017_1RB#0_1000~3000_1000~3000



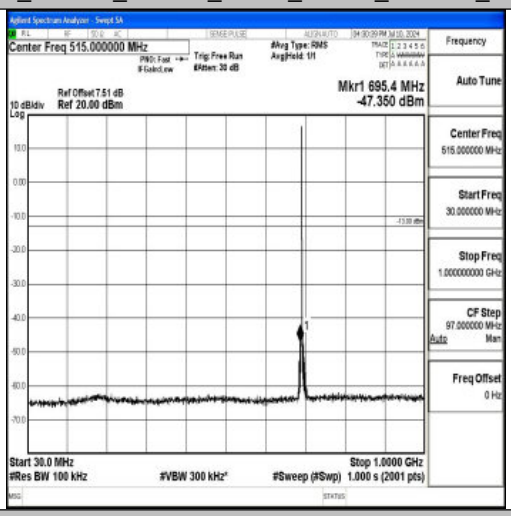

Band12_1.4MHz_QPSK_23017_1RB#0_3000~10000_3000~10000



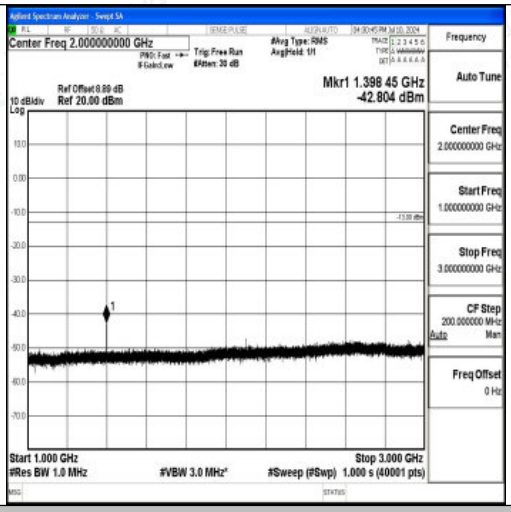

Band12_1.4MHz_16QAM_23017_1RB#0_0.009~0.15_0.009~0.15



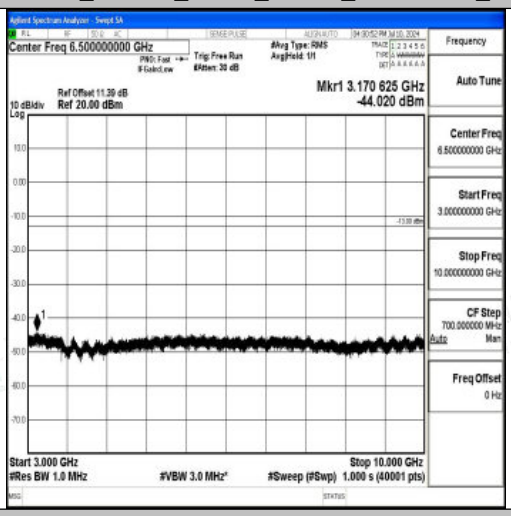

Band12_1.4MHz_16QAM_23017_1RB#0_0.15~30_0.15~30



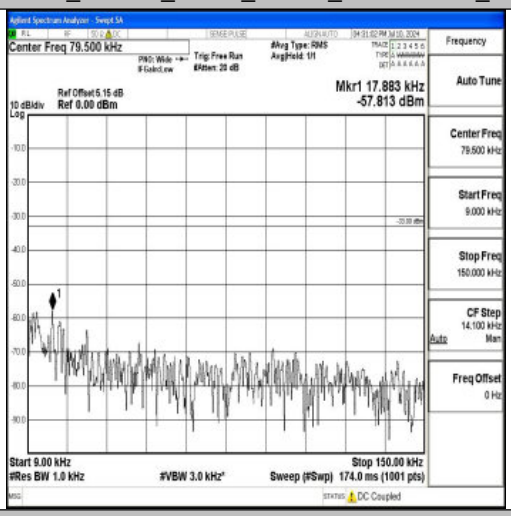

Band12_1.4MHz_16QAM_23017_1RB#0_30~1000_30~1000



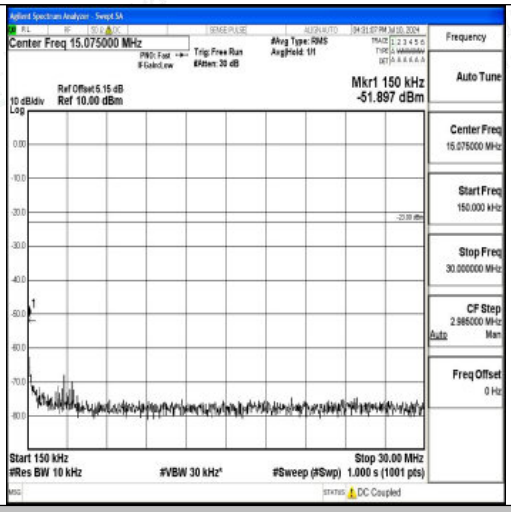

Band12_1.4MHz_16QAM_23017_1RB#0_1000~3000_1000~3000



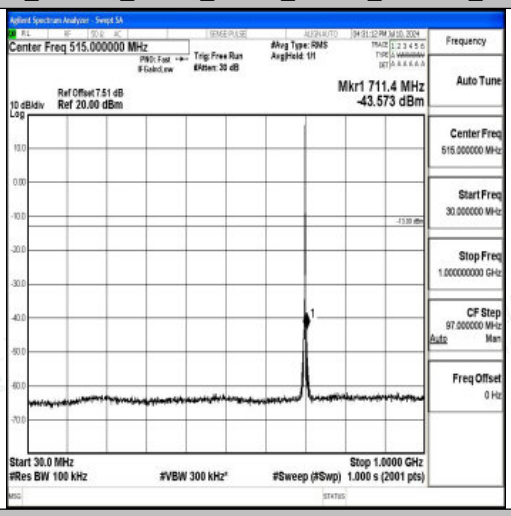

Band12_1.4MHz_16QAM_23017_1RB#0_3000~10000_3000~10000



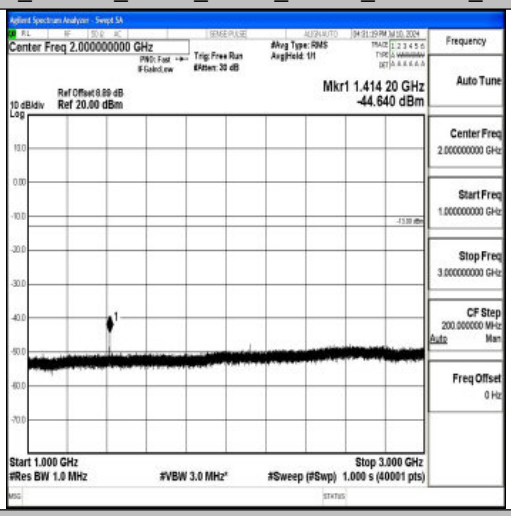

Band12_1.4MHz_QPSK_23095_1RB#0_0.009~0.15_0.009~0.15



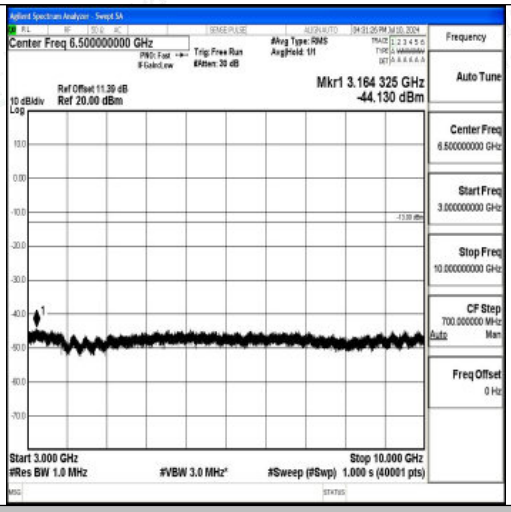

Band12_1.4MHz_QPSK_23095_1RB#0_0.15~30_0.15~30



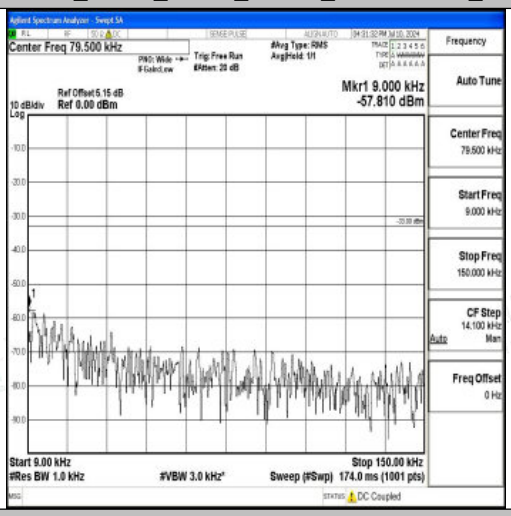

Band12_1.4MHz_QPSK_23095_1RB#0_30~1000_30~1000



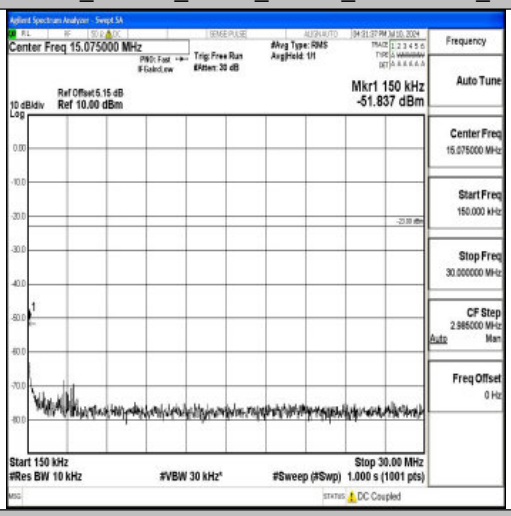

Band12_1.4MHz_QPSK_23095_1RB#0_1000~3000_1000~3000



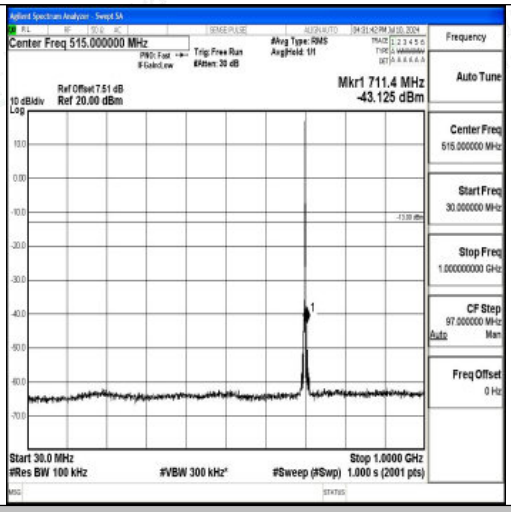

Band12_1.4MHz_QPSK_23095_1RB#0_3000~10000_3000~10000



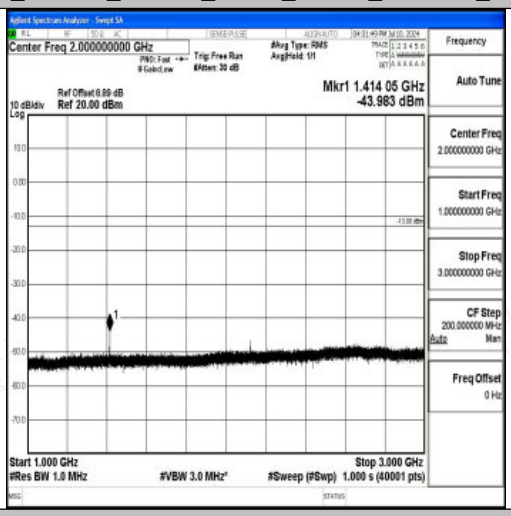

Band12_1.4MHz_16QAM_23095_1RB#0_0.009~0.15_0.009~0.15



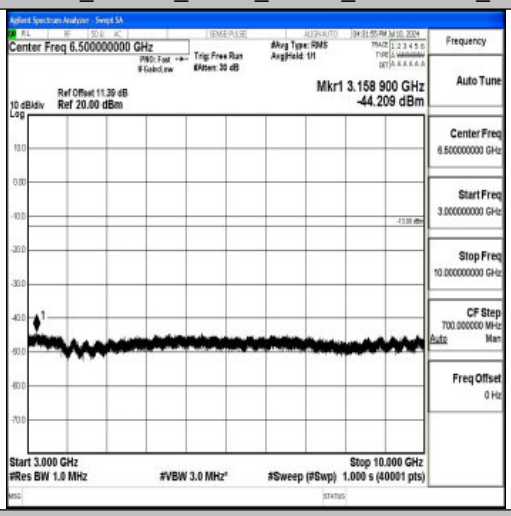

Band12_1.4MHz_16QAM_23095_1RB#0_0.15~30_0.15~30



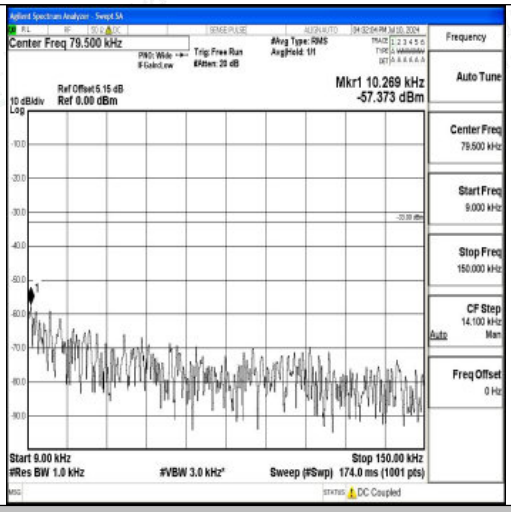

Band12_1.4MHz_16QAM_23095_1RB#0_30~1000_30~1000



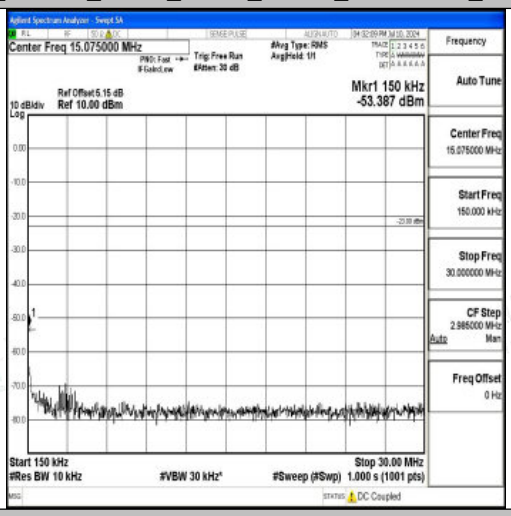

Band12_1.4MHz_16QAM_23095_1RB#0_1000~3000_1000~3000



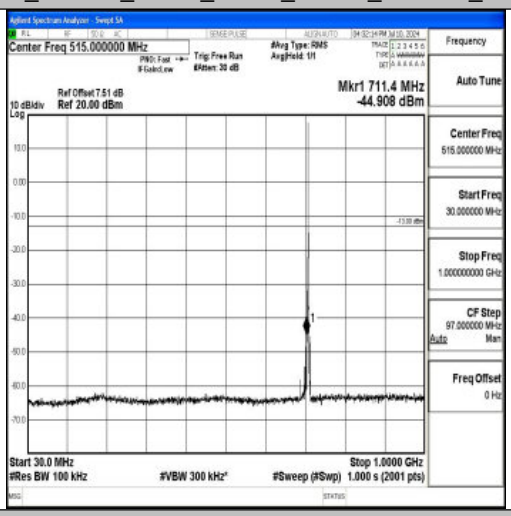

Band12_1.4MHz_16QAM_23095_1RB#0_3000~10000_3000~10000




Band12_1.4MHz_QPSK_23173_1RB#0_0.009~0.15_0.009~0.15




Band12_1.4MHz_QPSK_23173_1RB#0_0.15~30_0.15~30




Band12_1.4MHz_QPSK_23173_1RB#0_30~1000_30~1000