# Appendix H: Test Data for E-UTRA Band 5

**Product Name: Smartphone**

**Test Model: NET ALPHA**

**Environmental Conditions**

| | |
|---|---|
| Temperature: | 23.8° C |
| Relative Humidity: | 52.1% |
| ATM Pressure: | 100.0 kPa |
| Test Engineer: | Taylor Hu |
| Supervised by: | Ling Zhu |

# H.1 Conducted Power Output Data

## Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | Verdict |
|---|---|---|---|---|---|---|
| Band5 | 1.4MHz | QPSK | 20407 | 1RB#0 | 23.04 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 1RB#0 | 22.71 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 1RB#2 | 23.10 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 1RB#2 | 22.32 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 1RB#5 | 23.06 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 1RB#5 | 22.24 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 3RB#0 | 23.09 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 3RB#0 | 21.66 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 3RB#1 | 23.11 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 3RB#1 | 21.66 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 3RB#3 | 23.06 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 3RB#3 | 21.79 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 6RB#0 | 22.44 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 6RB#0 | 21.20 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 1RB#0 | 22.82 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 1RB#0 | 21.71 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 1RB#2 | 22.70 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 1RB#2 | 21.83 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 1RB#5 | 22.86 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 1RB#5 | 21.70 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 3RB#0 | 22.86 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 3RB#0 | 21.85 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 3RB#1 | 22.86 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 3RB#1 | 21.84 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 3RB#3 | 22.86 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 3RB#3 | 21.44 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 6RB#0 | 22.38 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 6RB#0 | 21.12 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 1RB#0 | 22.98 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 1RB#0 | 22.59 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 1RB#2 | 23.05 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 1RB#2 | 22.54 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 1RB#5 | 23.04 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 1RB#5 | 22.55 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 3RB#0 | 23.04 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 3RB#0 | 21.63 | PASS |

| | | | | | | |
|---|---|---|---|---|---|---|
| Band5 | 1.4MHz | QPSK | 20643 | 3RB#1 | 23.05 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 3RB#1 | 21.63 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 3RB#3 | 22.99 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 3RB#3 | 21.57 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 6RB#0 | 22.52 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0 | 21.32 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 1RB#0 | 23.02 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 1RB#0 | 21.91 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 1RB#8 | 22.95 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 1RB#8 | 21.73 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 1RB#14 | 23.00 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 1RB#14 | 21.69 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 8RB#0 | 22.49 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 8RB#0 | 21.14 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 8RB#4 | 22.50 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 8RB#4 | 21.14 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 8RB#7 | 22.67 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 8RB#7 | 21.16 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 15RB#0 | 22.52 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 15RB#0 | 20.97 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 1RB#0 | 22.88 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 1RB#0 | 21.75 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 1RB#8 | 22.84 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 1RB#8 | 21.63 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 1RB#14 | 22.76 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 1RB#14 | 21.67 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 8RB#0 | 22.35 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 8RB#0 | 21.19 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 8RB#4 | 22.25 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 8RB#4 | 21.05 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 8RB#7 | 22.43 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 8RB#7 | 21.43 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 15RB#0 | 22.45 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 15RB#0 | 21.23 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 1RB#0 | 23.03 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#0 | 22.03 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 1RB#8 | 22.98 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#8 | 22.02 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 1RB#14 | 23.03 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#14 | 22.06 | PASS |

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|---|---|---|---|---|---|---|
| Band5 | 3MHz | QPSK | 20635 | 8RB#0 | 22.37 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 8RB#0 | 20.93 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 8RB#4 | 22.39 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 8RB#4 | 20.93 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 8RB#7 | 22.48 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 8RB#7 | 21.36 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 15RB#0 | 22.28 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0 | 20.90 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 1RB#0 | 23.13 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#0 | 21.40 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 1RB#12 | 23.10 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#12 | 21.36 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 1RB#24 | 22.99 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#24 | 21.33 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 12RB#0 | 22.49 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 12RB#0 | 21.08 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 12RB#6 | 22.49 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 12RB#6 | 21.08 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 12RB#13 | 22.30 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 12RB#13 | 21.03 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 25RB#0 | 22.64 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 25RB#0 | 21.15 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 1RB#0 | 22.78 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#0 | 21.83 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 1RB#12 | 22.92 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#12 | 21.70 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 1RB#24 | 22.86 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#24 | 21.80 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 12RB#0 | 22.37 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 12RB#0 | 20.94 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 12RB#6 | 22.39 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 12RB#6 | 20.94 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 12RB#13 | 22.26 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 12RB#13 | 21.25 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 25RB#0 | 22.44 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 25RB#0 | 21.13 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 1RB#0 | 23.05 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 1RB#0 | 21.87 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 1RB#12 | 22.97 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 1RB#12 | 21.91 | PASS |

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|---|---|---|---|---|---|---|
| Band5 | 5MHz | QPSK | 20625 | 1RB#24 | 23.00 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 1RB#24 | 21.93 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 12RB#0 | 22.38 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 12RB#0 | 21.31 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 12RB#6 | 22.39 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 12RB#6 | 21.31 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 12RB#13 | 22.49 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 12RB#13 | 21.01 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 25RB#0 | 22.48 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 25RB#0 | 20.98 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 1RB#0 | 23.01 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#0 | 21.83 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 1RB#24 | 22.96 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#24 | 21.79 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 1RB#49 | 22.90 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#49 | 21.66 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 25RB#0 | 22.71 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 25RB#0 | 21.03 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 25RB#12 | 22.55 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 25RB#12 | 21.02 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 25RB#25 | 22.40 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 25RB#25 | 21.01 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | 22.60 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | 21.44 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 1RB#0 | 22.97 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#0 | 21.67 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 1RB#24 | 22.87 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#24 | 21.60 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 1RB#49 | 22.90 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#49 | 21.67 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 25RB#0 | 22.41 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 25RB#0 | 21.20 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 25RB#12 | 22.41 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 25RB#12 | 21.22 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 25RB#25 | 22.40 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 25RB#25 | 21.15 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | 22.55 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | 21.33 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 1RB#0 | 23.08 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#0 | 21.77 | PASS |

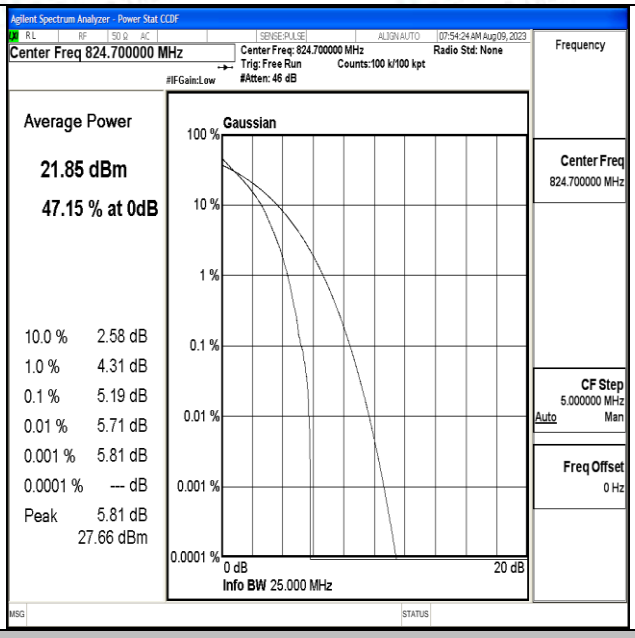
| | | | | | | |
|---|---|---|---|---|---|---|
| Band5 | 10MHz | QPSK | 20600 | 1RB#24 | 23.13 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#24 | 21.78 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 1RB#49 | 23.17 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#49 | 21.77 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 25RB#0 | 22.50 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 25RB#0 | 21.07 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 25RB#12 | 22.50 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 25RB#12 | 21.07 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 25RB#25 | 22.38 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 25RB#25 | 21.13 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | 22.27 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | 21.15 | PASS |

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

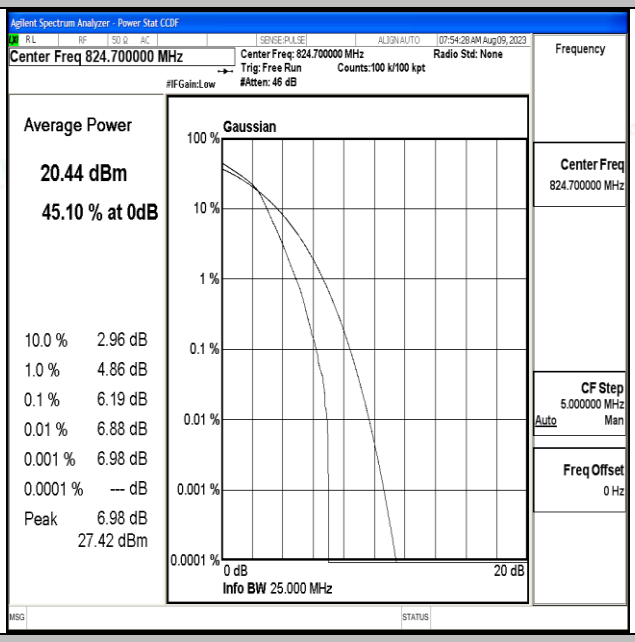
## Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|---|---|---|---|---|---|---|---|
| Band5 | 1.4MHz | QPSK | 20407 | 6RB#0 | 5.19 | 13 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 6RB#0 | 6.19 | 13 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 6RB#0 | 5.63 | 13 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 6RB#0 | 6.30 | 13 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 6RB#0 | 5.31 | 13 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0 | 6.29 | 13 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 15RB#0 | 5.37 | 13 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 15RB#0 | 6.29 | 13 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 15RB#0 | 5.52 | 13 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 15RB#0 | 6.45 | 13 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 15RB#0 | 5.30 | 13 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0 | 6.33 | 13 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 25RB#0 | 5.32 | 13 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 25RB#0 | 6.17 | 13 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 25RB#0 | 5.64 | 13 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 25RB#0 | 6.32 | 13 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 25RB#0 | 5.43 | 13 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 25RB#0 | 6.42 | 13 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | 5.36 | 13 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | 6.16 | 13 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | 5.57 | 13 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | 6.39 | 13 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | 5.52 | 13 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | 6.36 | 13 | PASS |

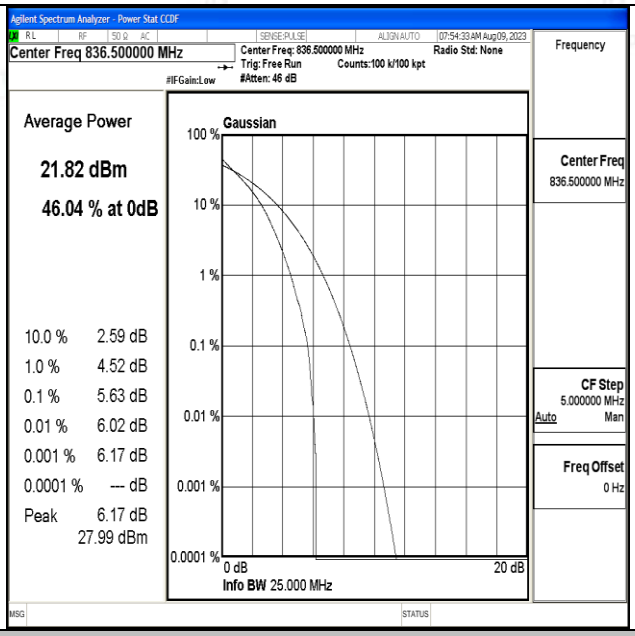
## Test Graphs



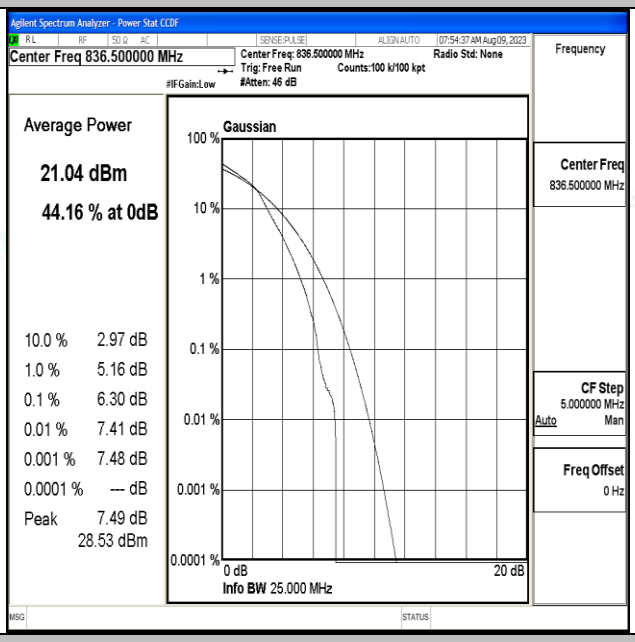

1.4MHz-20407



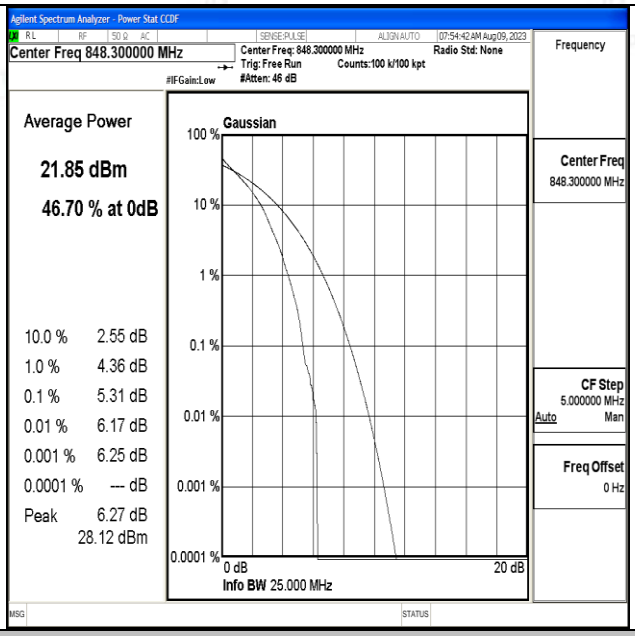

1.4MHz-20407



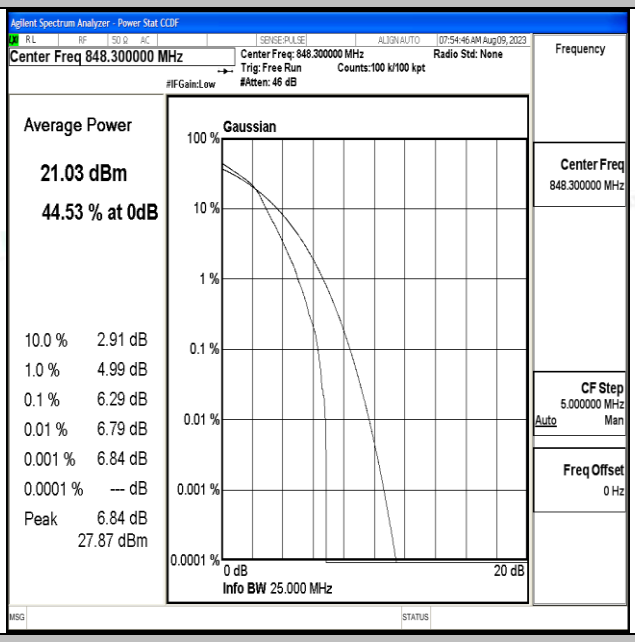

1.4MHz-20525



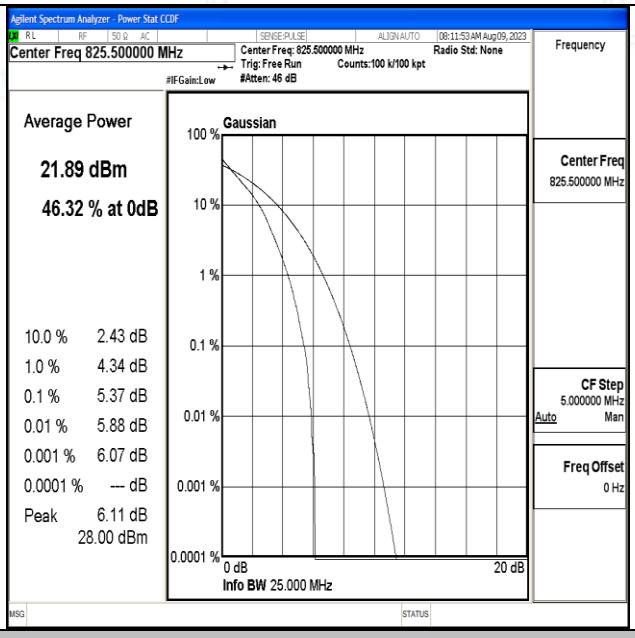

1.4MHz-20525



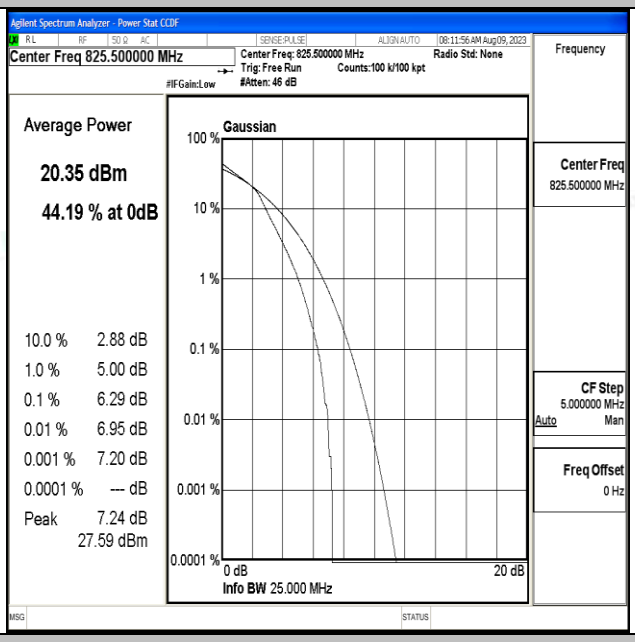

1.4MHz-20643



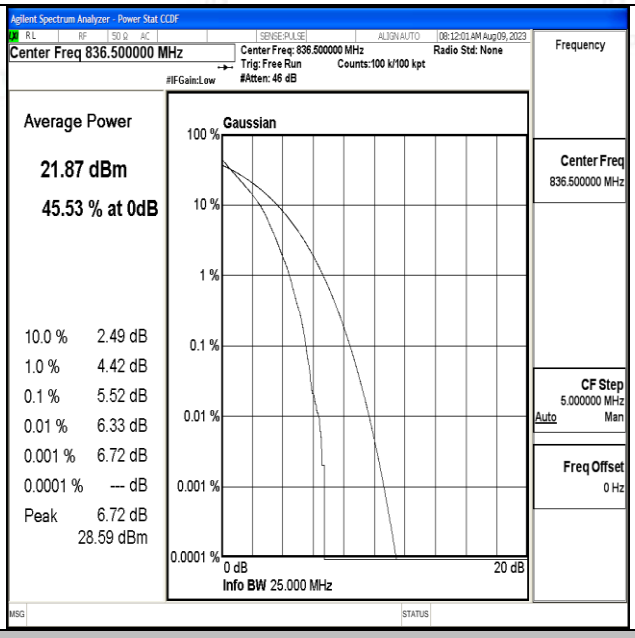

1.4MHz-20643



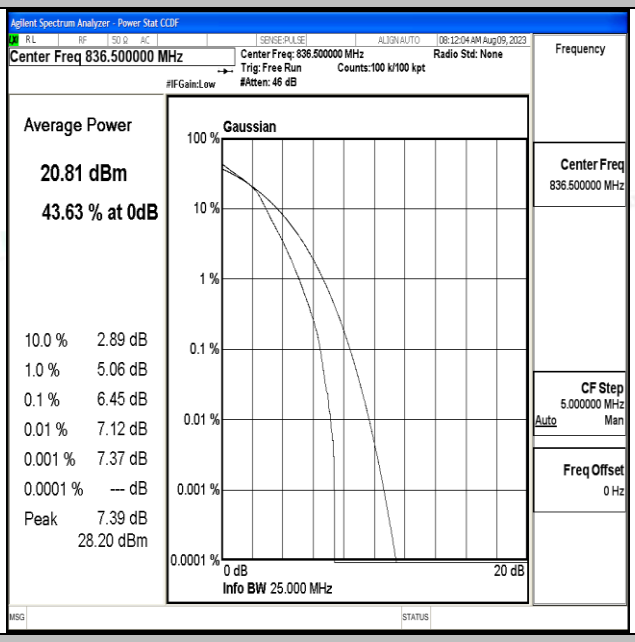

3MHz-20415



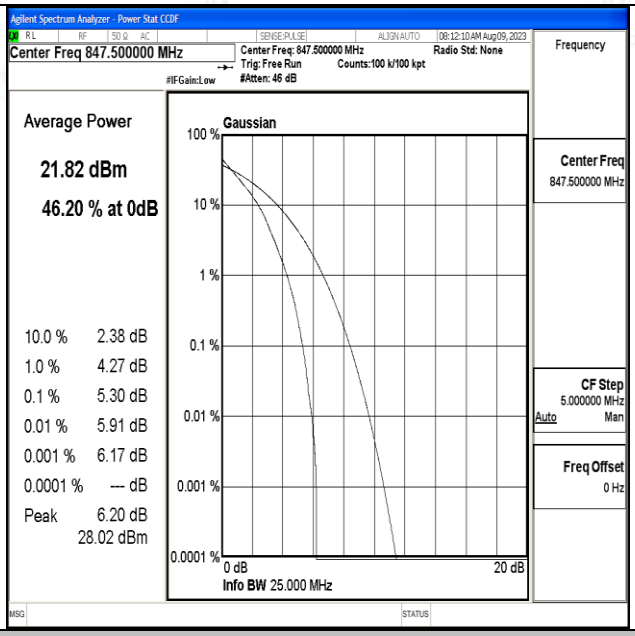

3MHz-20415



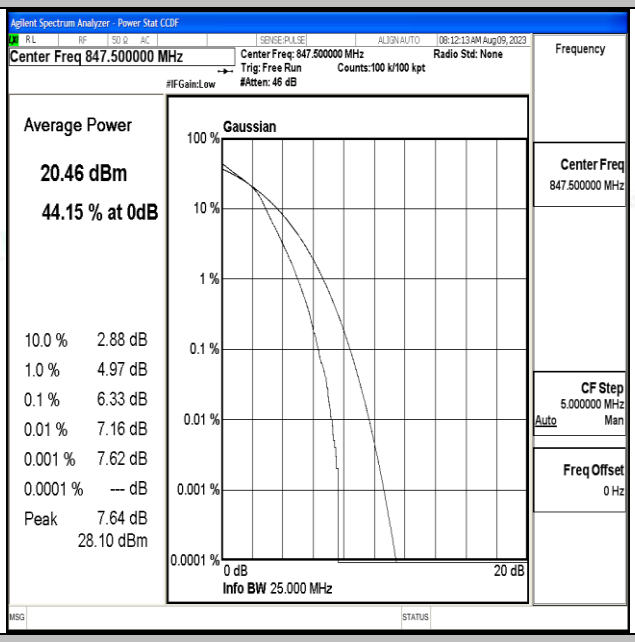

3MHz-20525



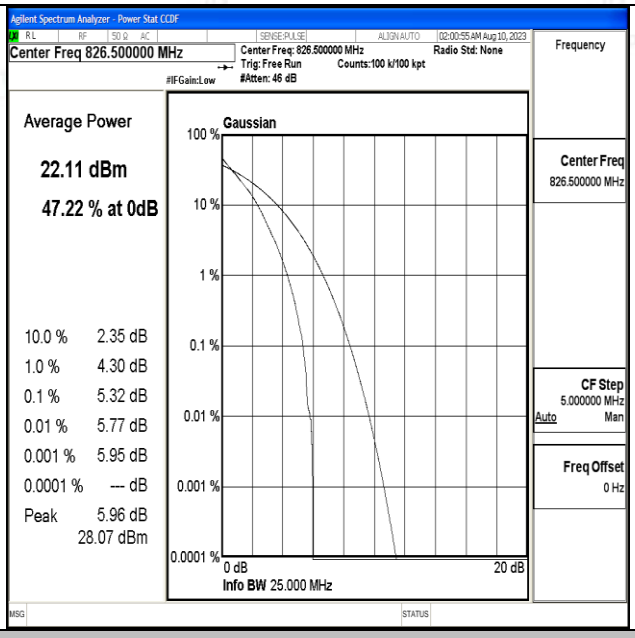

3MHz-20525



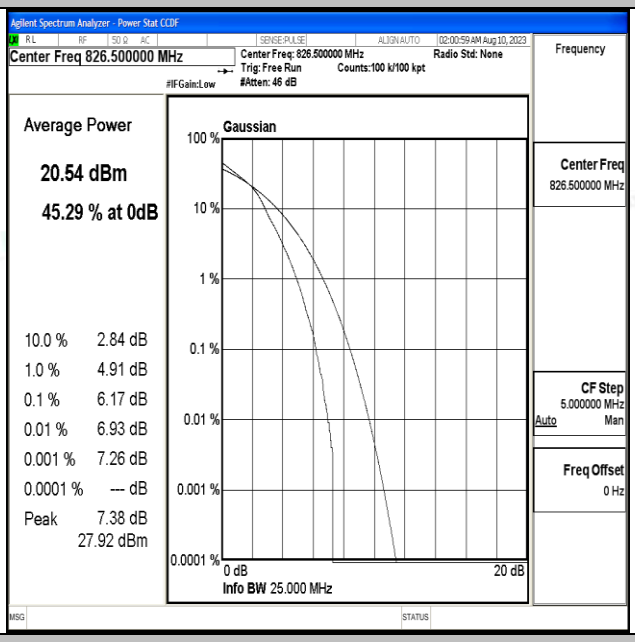

3MHz-20635



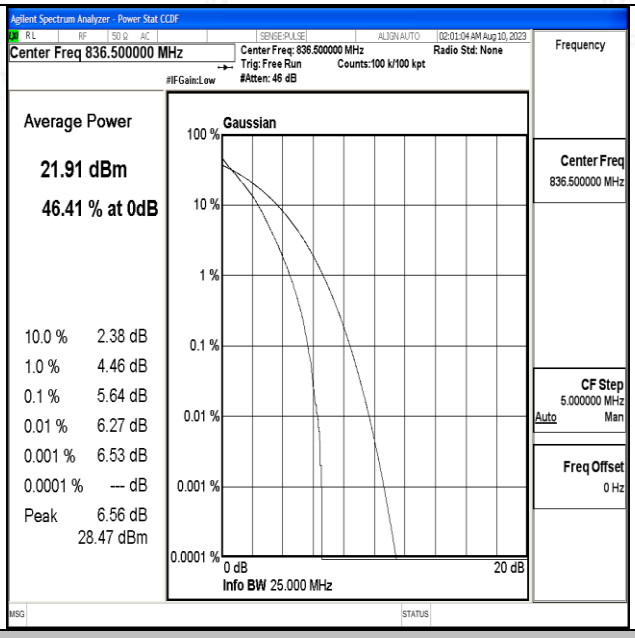

3MHz-20635



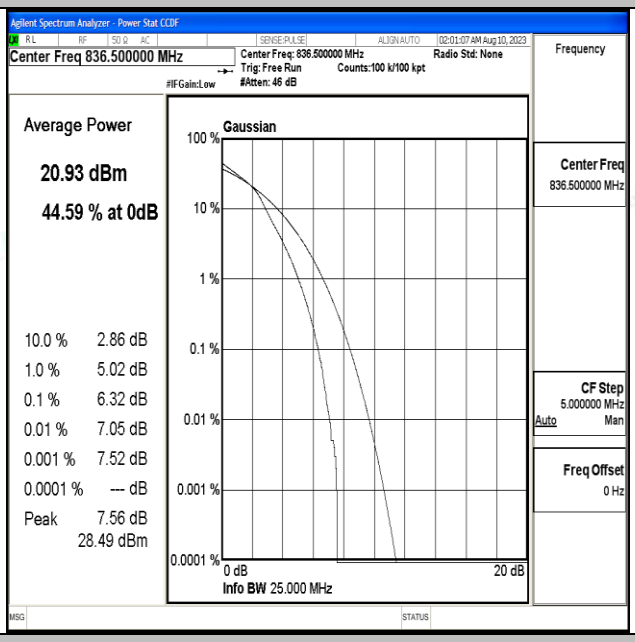

5MHz-20425



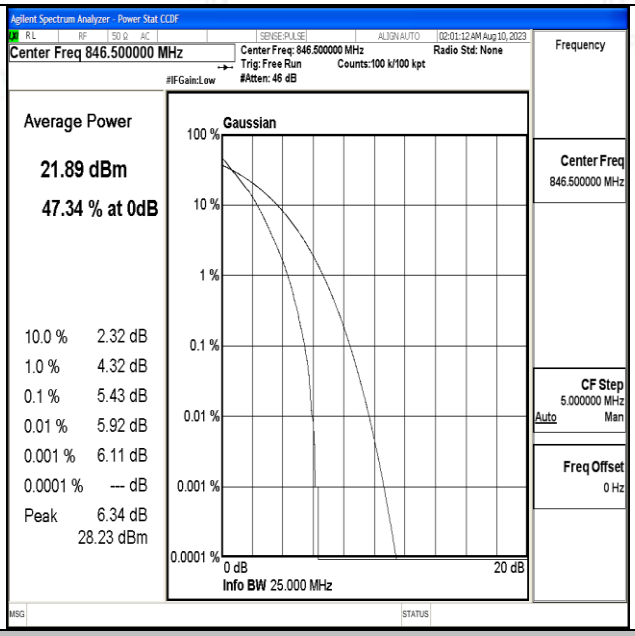

5MHz-20425



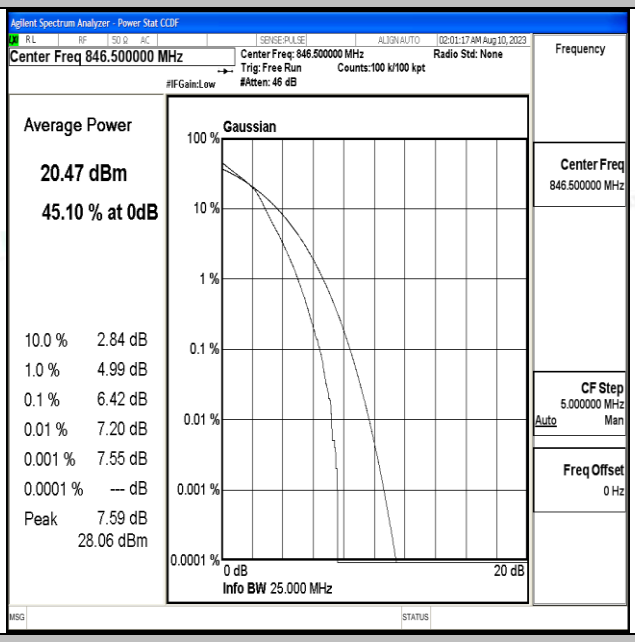

5MHz-20525



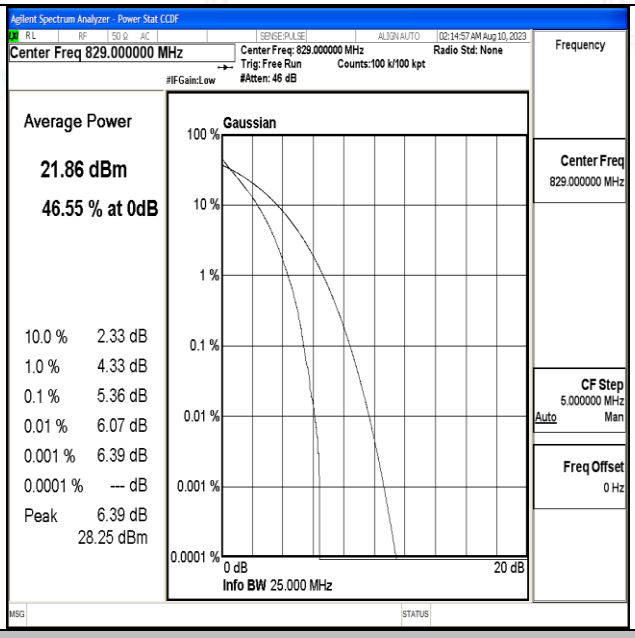

5MHz-20525



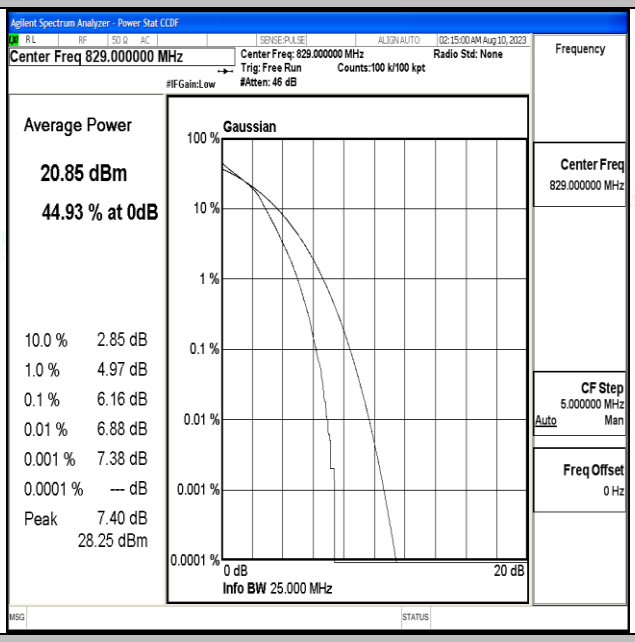

5MHz-20625



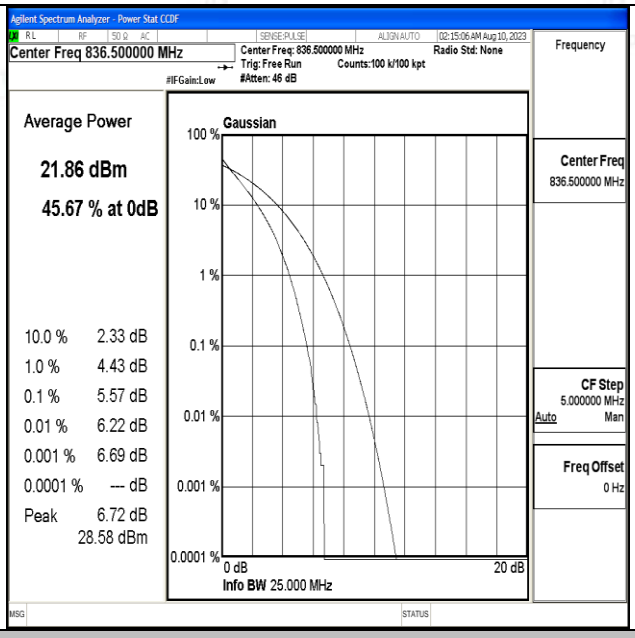

5MHz-20625



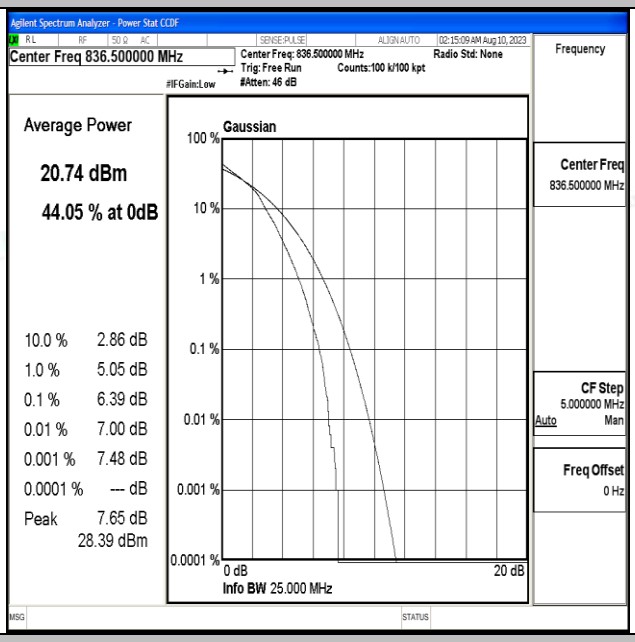

10MHz-20450



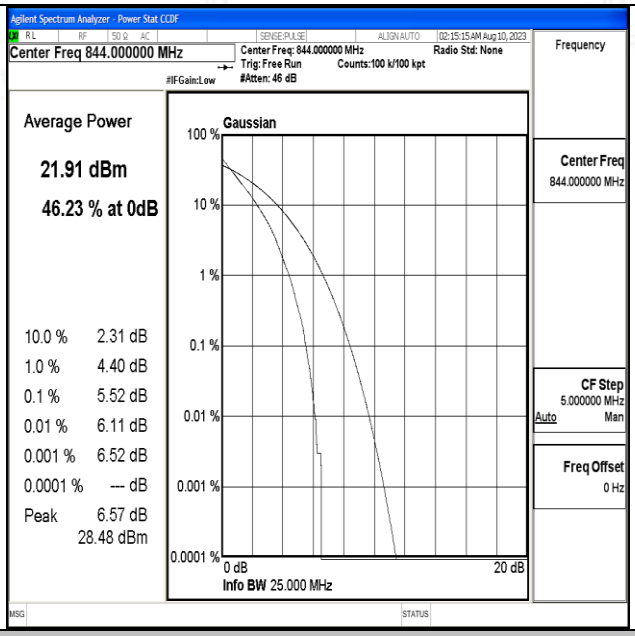

10MHz-20450



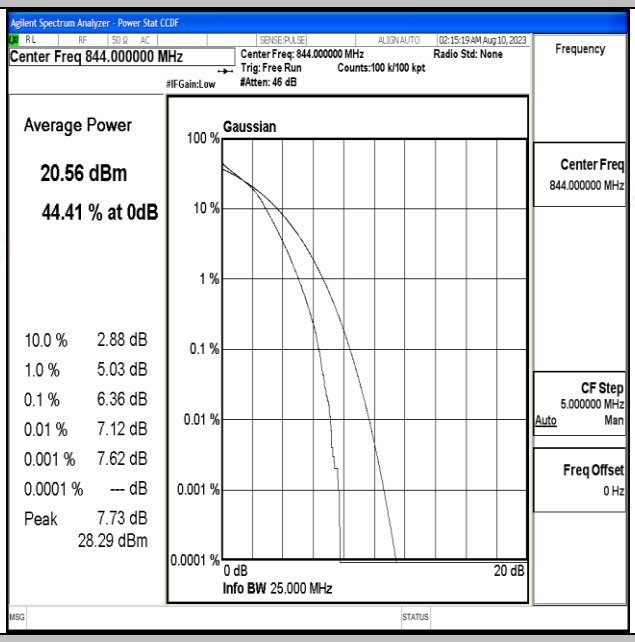

10MHz-20525




10MHz-20525




10MHz-20600



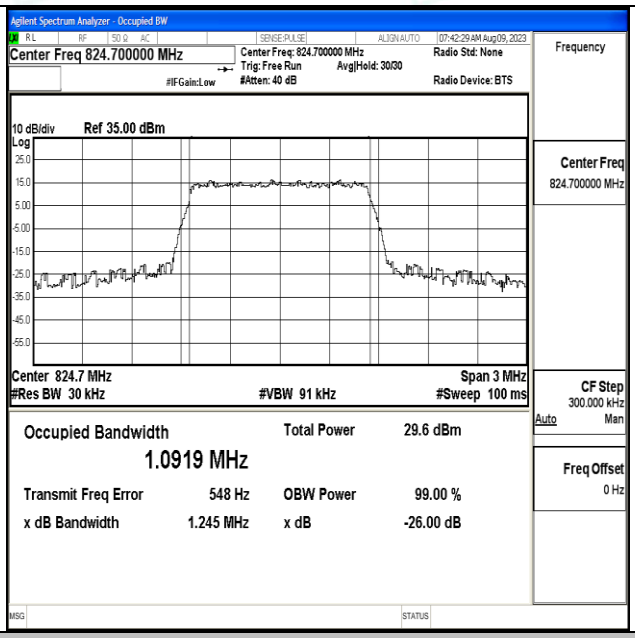

10MHz-20600

# H.3 26dB Bandwidth and Occupied Bandwidth

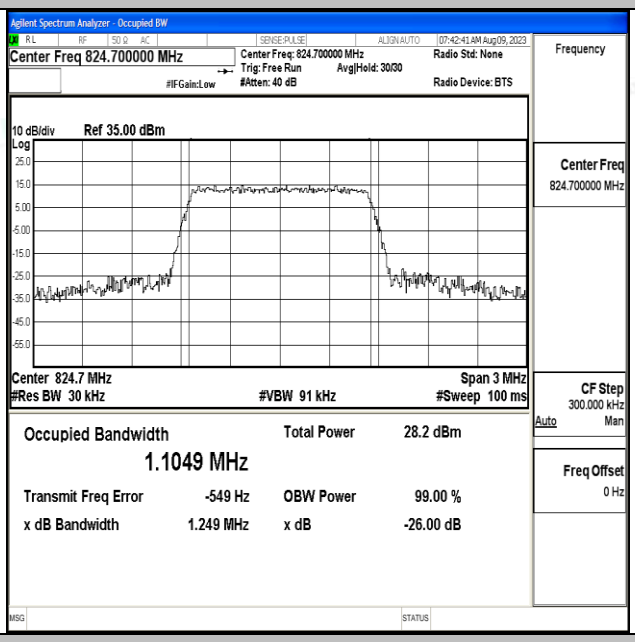
## Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|---|---|---|---|---|---|---|---|
| Band5 | 1.4MHz | QPSK | 20407 | 6RB#0 | 1.0919 | 1.245 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 6RB#0 | 1.1049 | 1.249 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 6RB#0 | 1.0910 | 1.244 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 6RB#0 | 1.1024 | 1.242 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 6RB#0 | 1.0922 | 1.239 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0 | 1.0876 | 1.237 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 15RB#0 | 2.7045 | 3.030 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 15RB#0 | 2.7055 | 3.025 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 15RB#0 | 2.7053 | 3.017 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 15RB#0 | 2.7069 | 3.028 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 15RB#0 | 2.6965 | 3.017 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0 | 2.7041 | 3.040 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 25RB#0 | 4.5163 | 4.987 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 25RB#0 | 4.5057 | 4.971 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 25RB#0 | 4.5038 | 4.958 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 25RB#0 | 4.5300 | 5.000 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 25RB#0 | 4.5055 | 4.985 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 25RB#0 | 4.5203 | 4.996 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | 8.9829 | 9.899 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | 8.9937 | 9.922 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | 9.0091 | 9.894 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | 9.0043 | 9.962 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | 8.9813 | 9.867 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | 9.0006 | 9.946 | PASS |

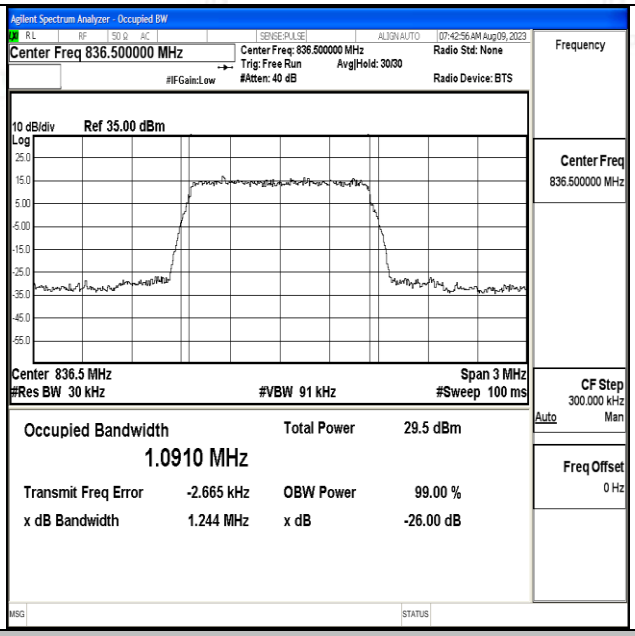
## Test Graphs



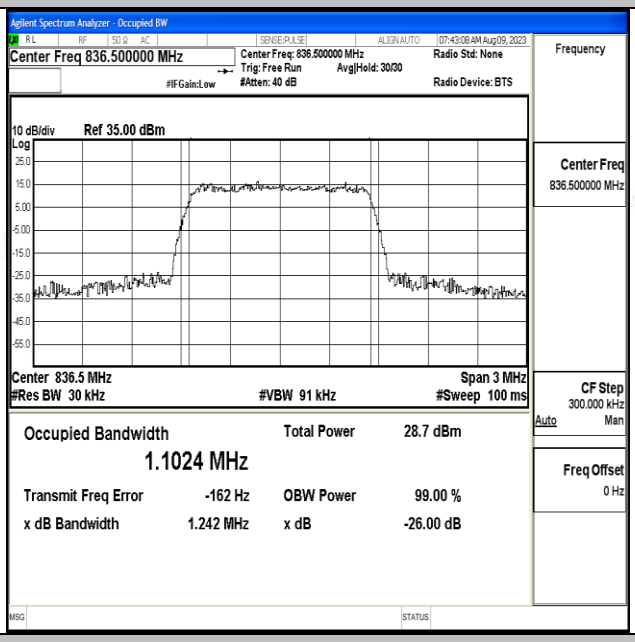

1.4MHz-20407



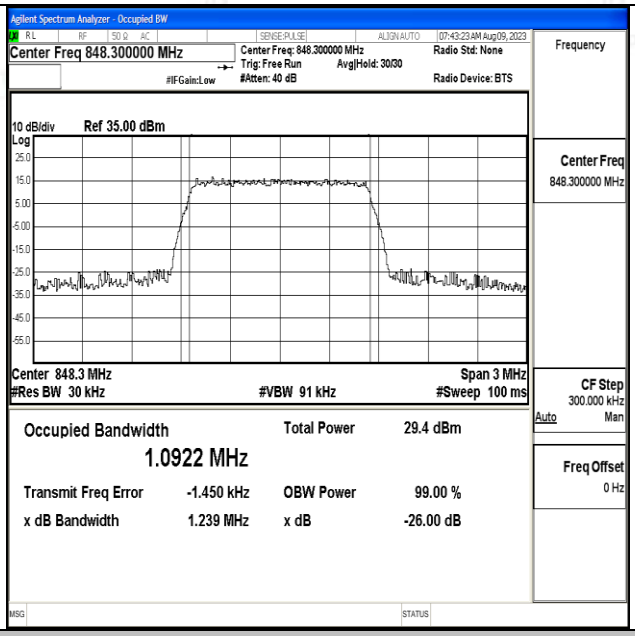

1.4MHz-20407



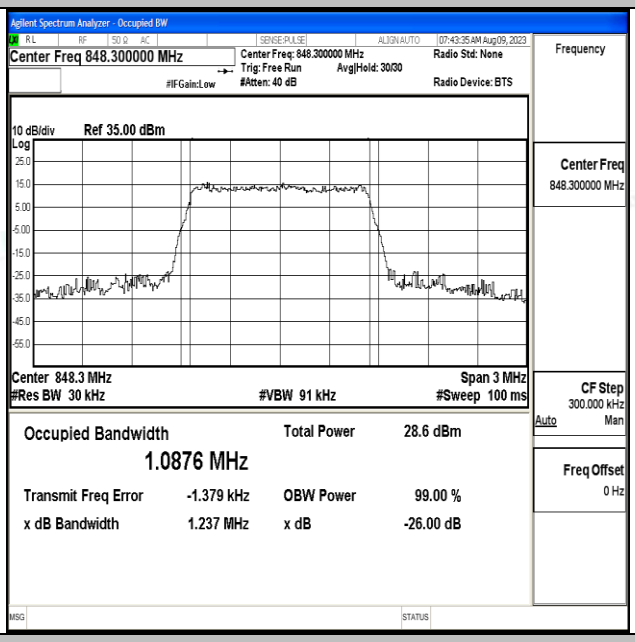

1.4MHz-20525



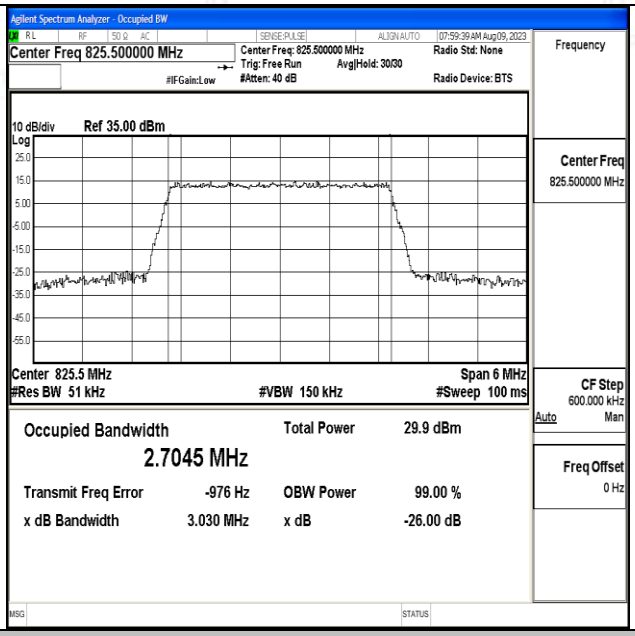

1.4MHz-20525



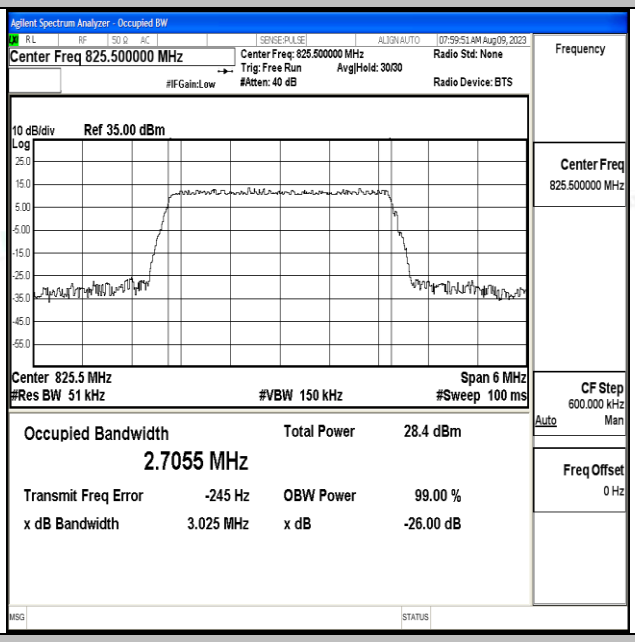

1.4MHz-20643



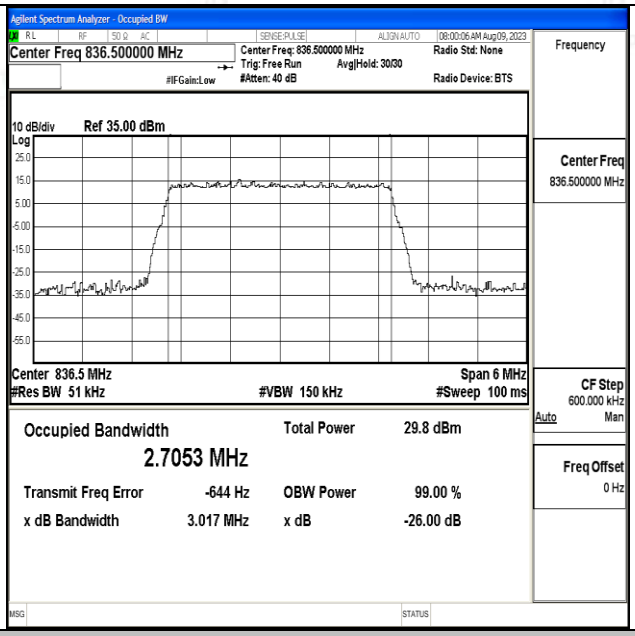

1.4MHz-20643



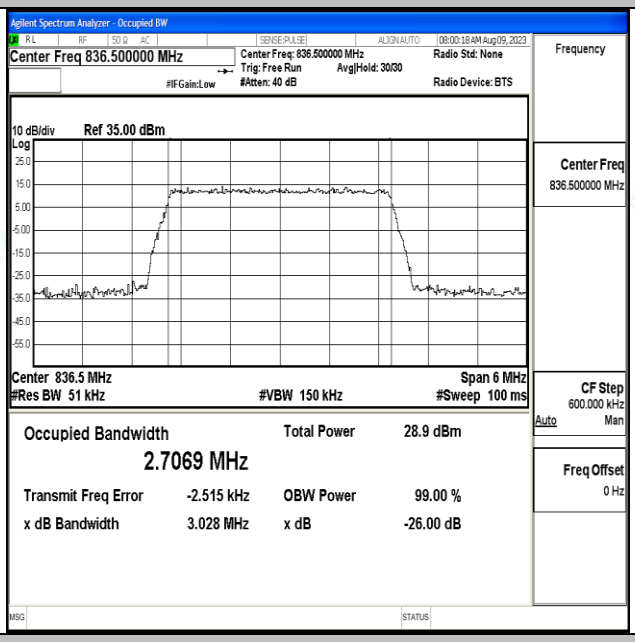

3MHz-20415



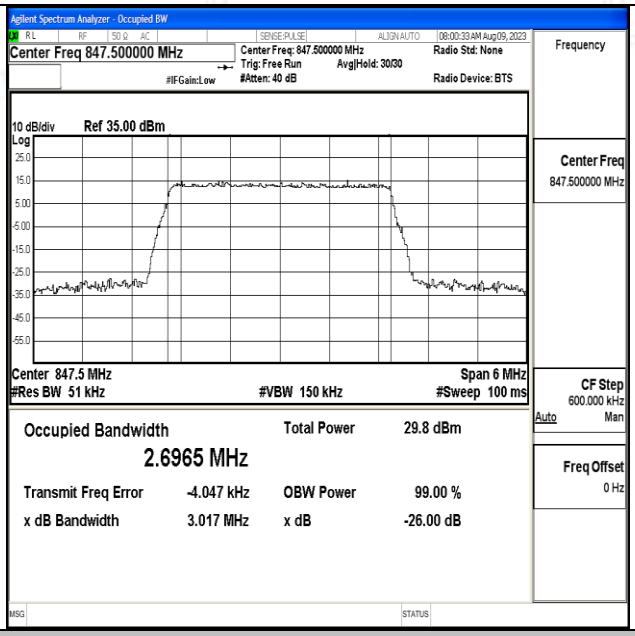

3MHz-20415



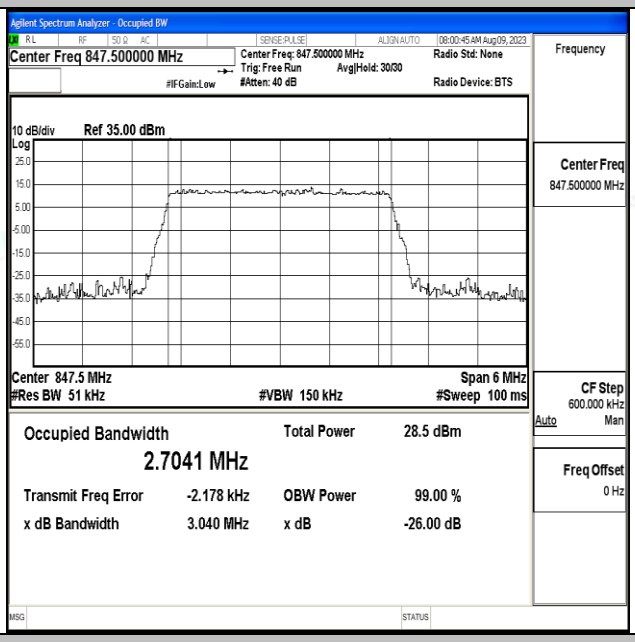

3MHz-20525



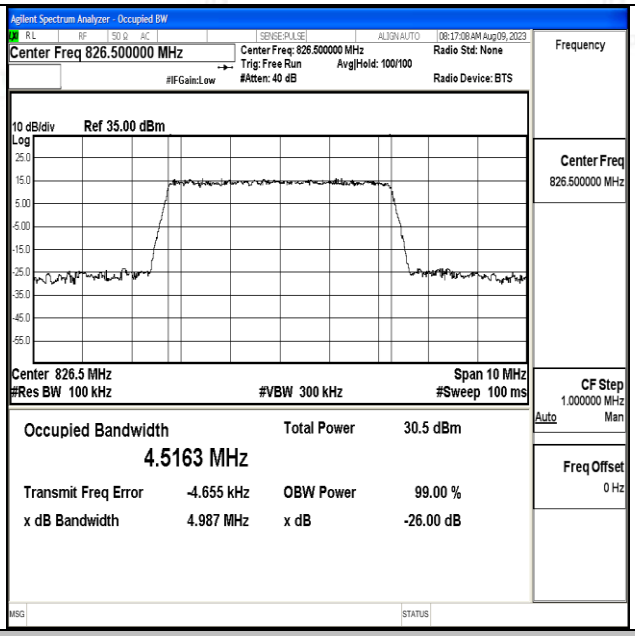

3MHz-20525



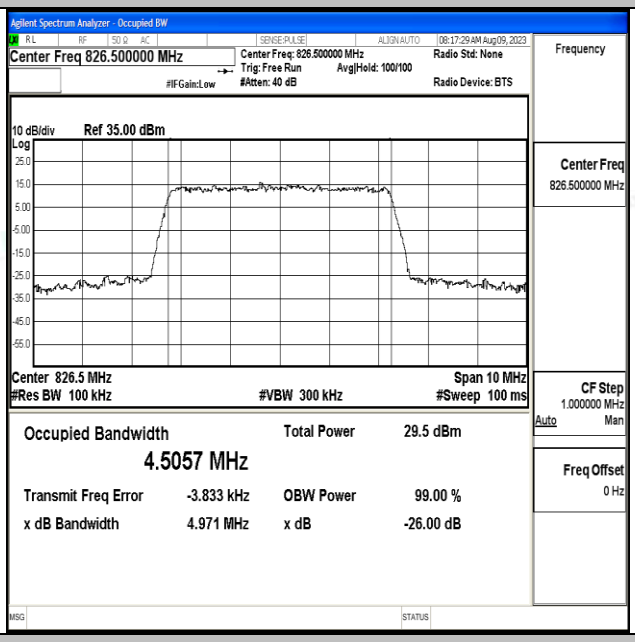

3MHz-20635



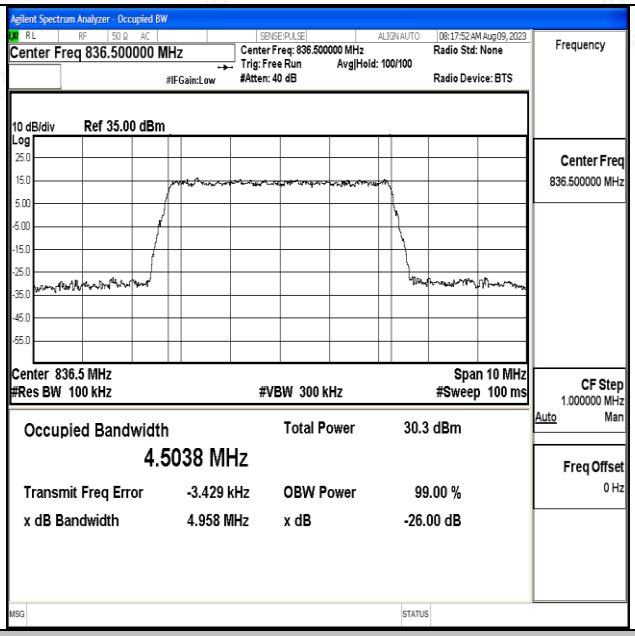

3MHz-20635



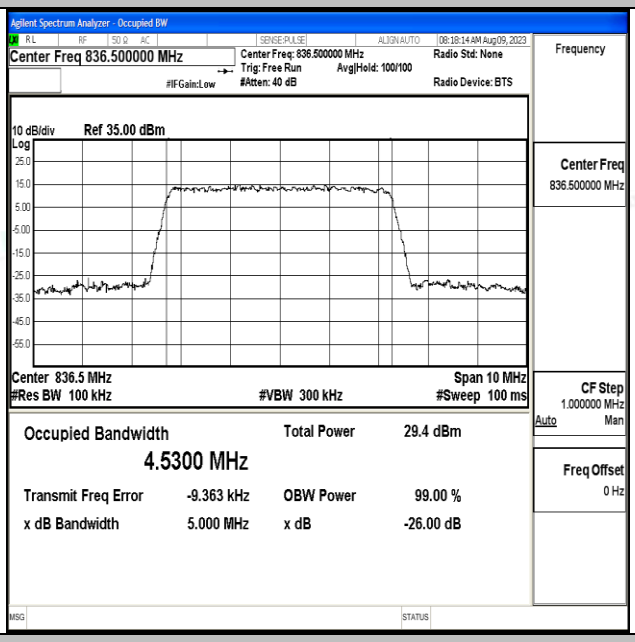

5MHz-20425



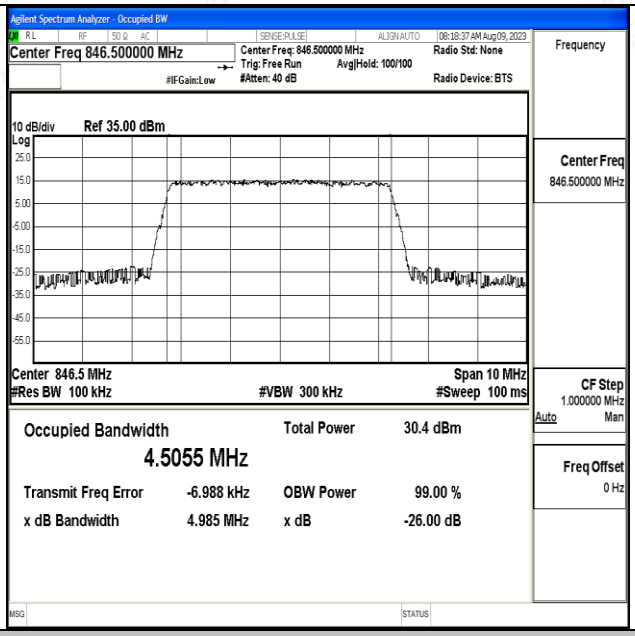

5MHz-20425



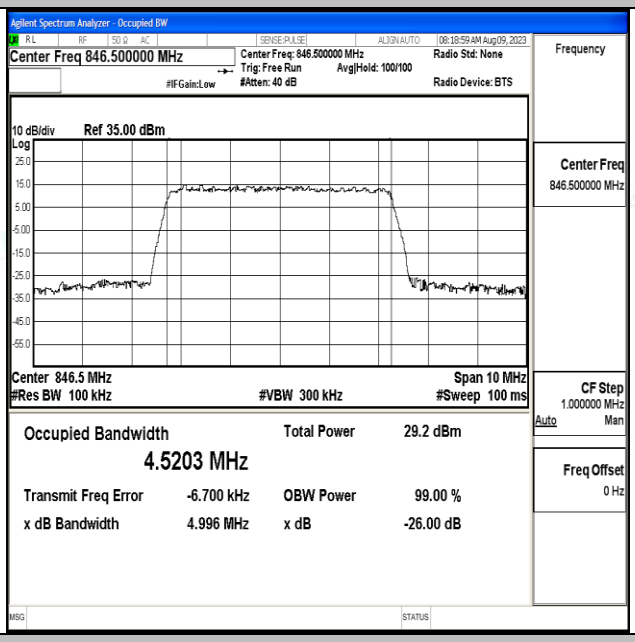

5MHz-20525



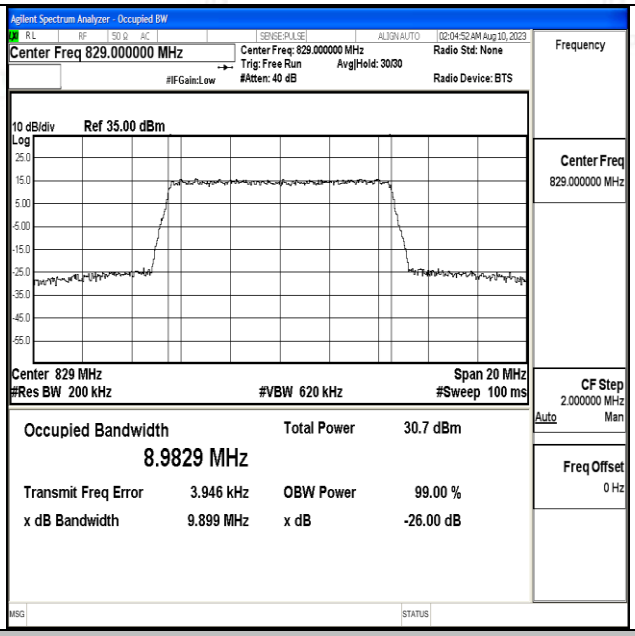

5MHz-20525



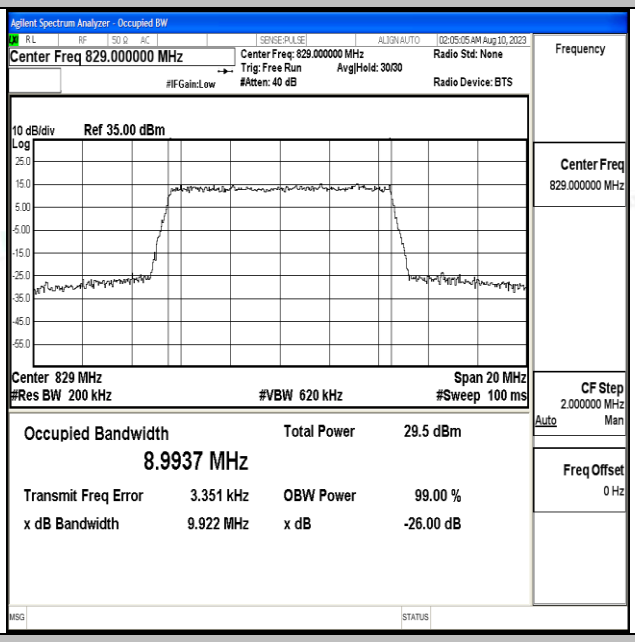

5MHz-20625



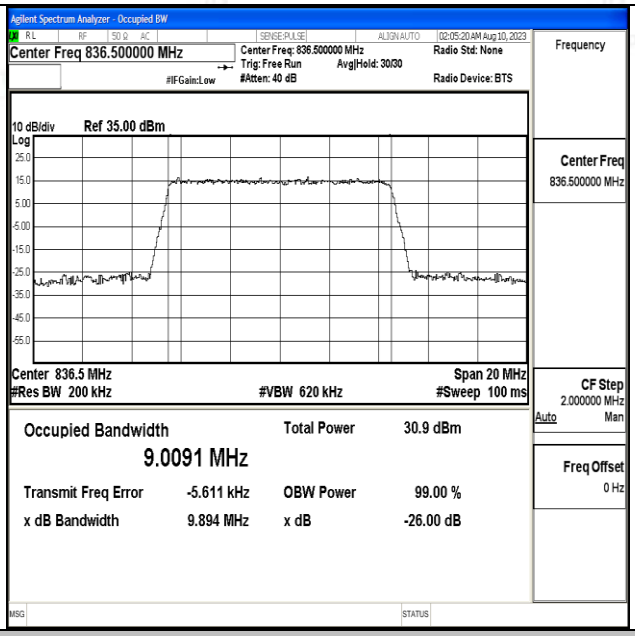

5MHz-20625



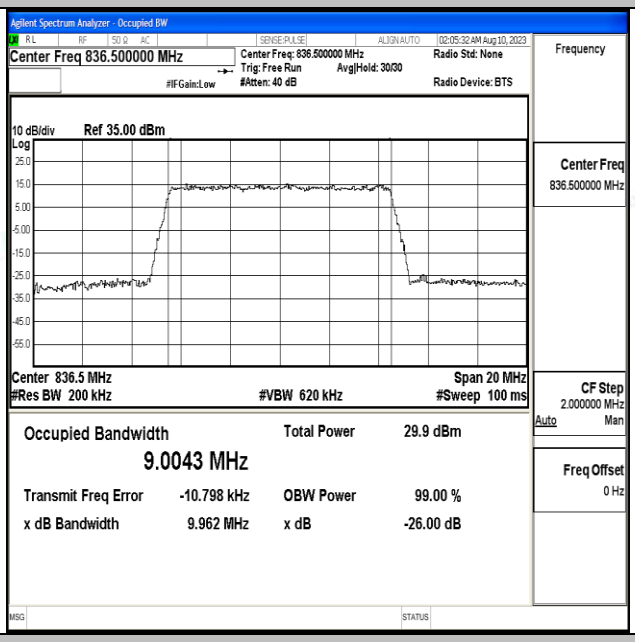

10MHz-20450



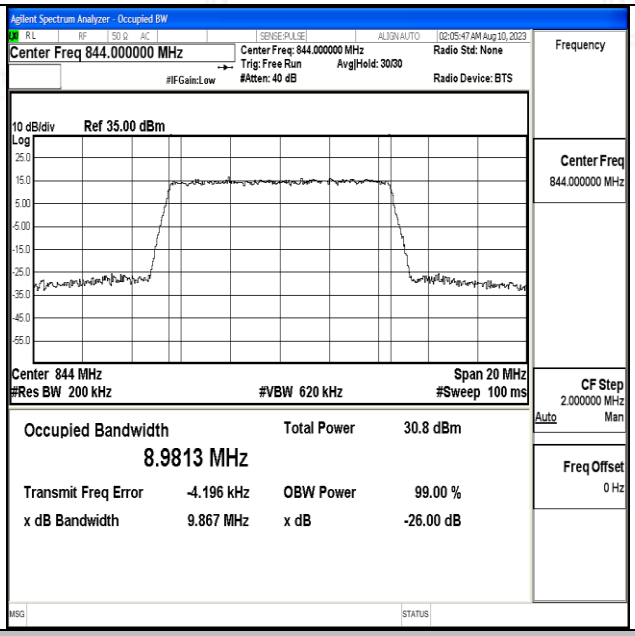

10MHz-20450



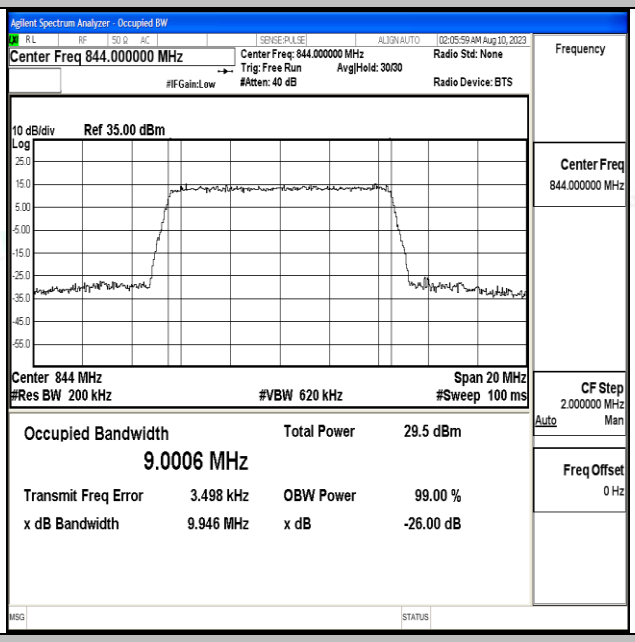

10MHz-20525




10MHz-20525




10MHz-20600



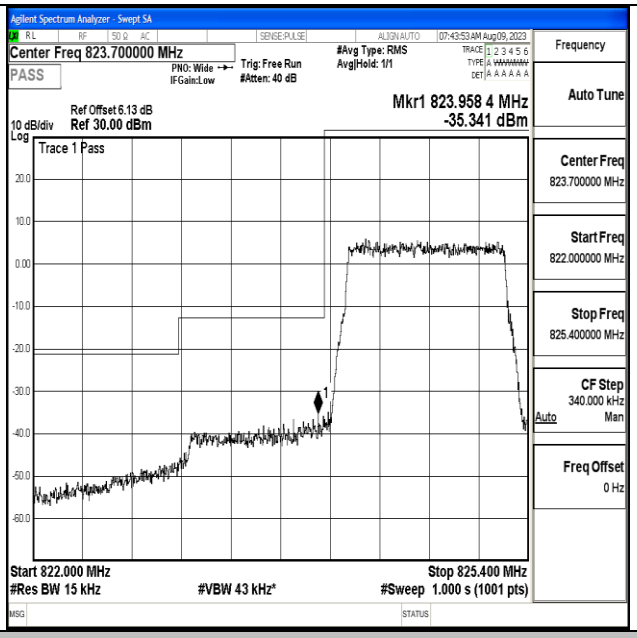

10MHz-20600

# H.4 Band Edge

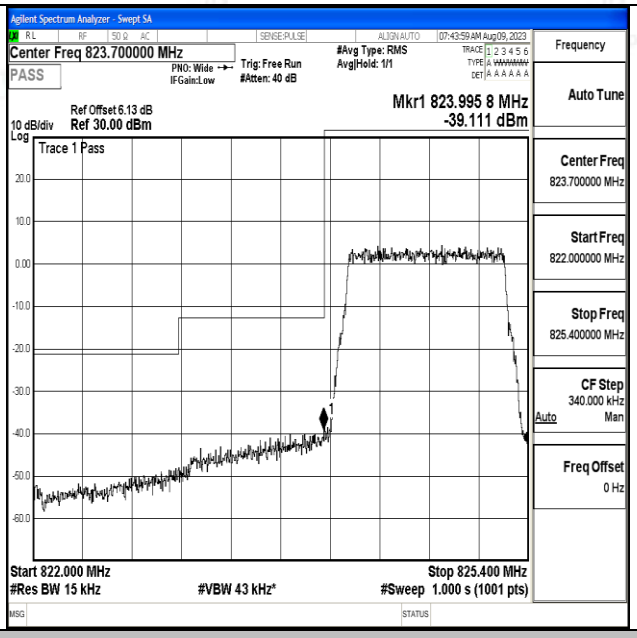
## Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Peak Frenquency | Result(dBm) | Verdict |
|---|---|---|---|---|---|---|---|
| Band5 | 1.4MHz | QPSK | 20407 | 6RB#0 | 823.96 | -35.34 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 6RB#0 | 824.00 | -39.11 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 6RB#0 | 849.05 | -38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0 | 849.07 | -38.08 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 15RB#0 | 824.00 | -24.88 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 15RB#0 | 823.99 | -27.80 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 15RB#0 | 849.00 | -25.86 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0 | 849.01 | -25.39 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 25RB#0 | 823.99 | -31.84 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 25RB#0 | 824.00 | -34.52 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 25RB#0 | 849.01 | -32.91 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 25RB#0 | 849.01 | -34.69 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | 823.98 | -34.57 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | 823.99 | -36.47 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | 849.01 | -34.45 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | 849.03 | -35.93 | PASS |

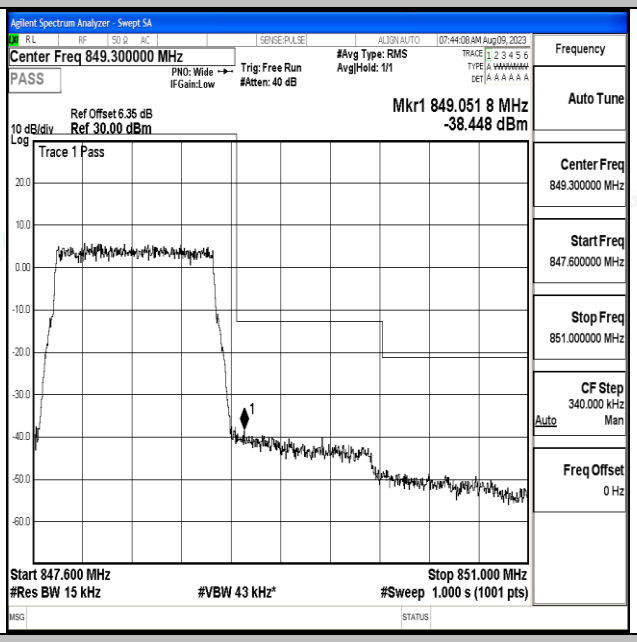
## Test Graphs



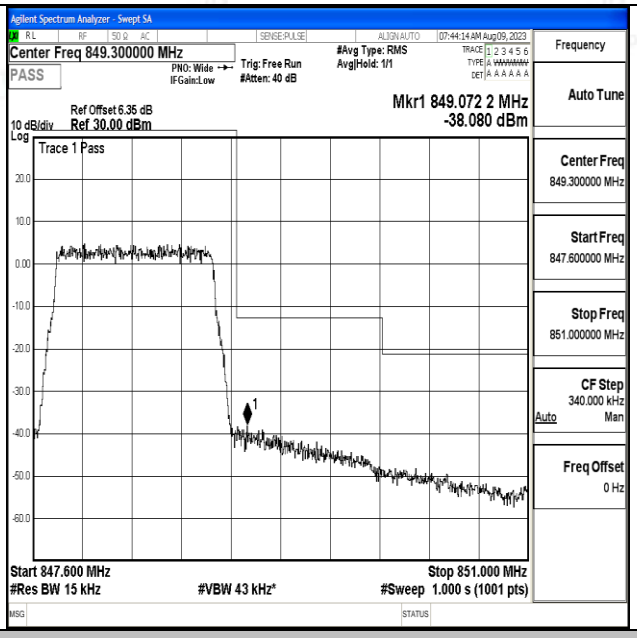

Band5_1.4MHz_QPSK_20407_6RB#0



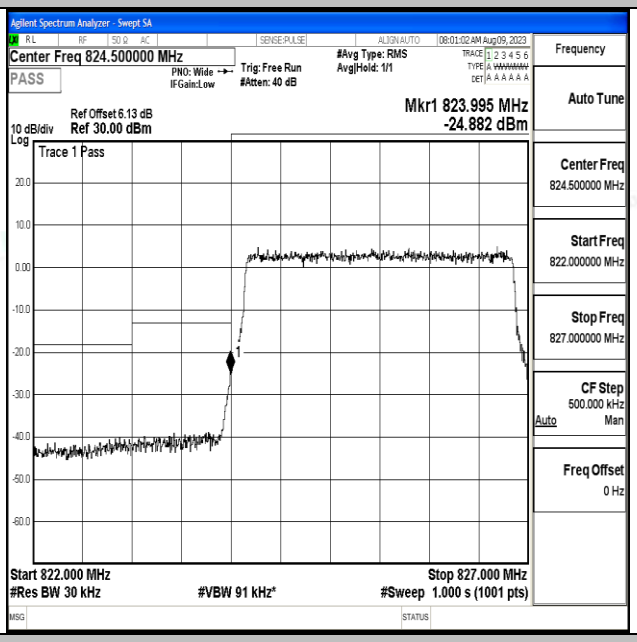

Band5_1.4MHz_16QAM_20407_6RB#0



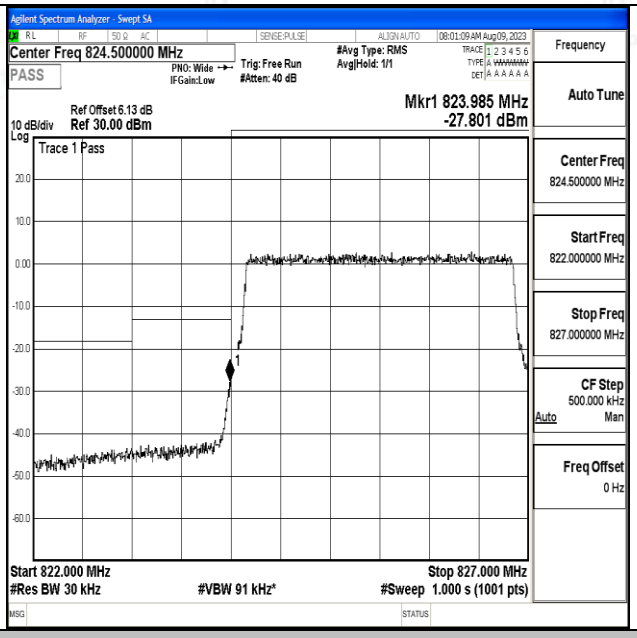

Band5_1.4MHz_QPSK_20643_6RB#0



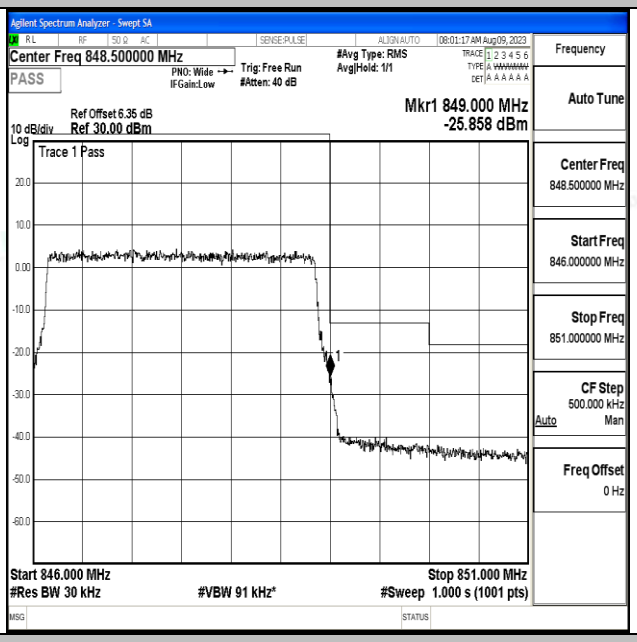

Band5_1.4MHz_16QAM_20643_6RB#0



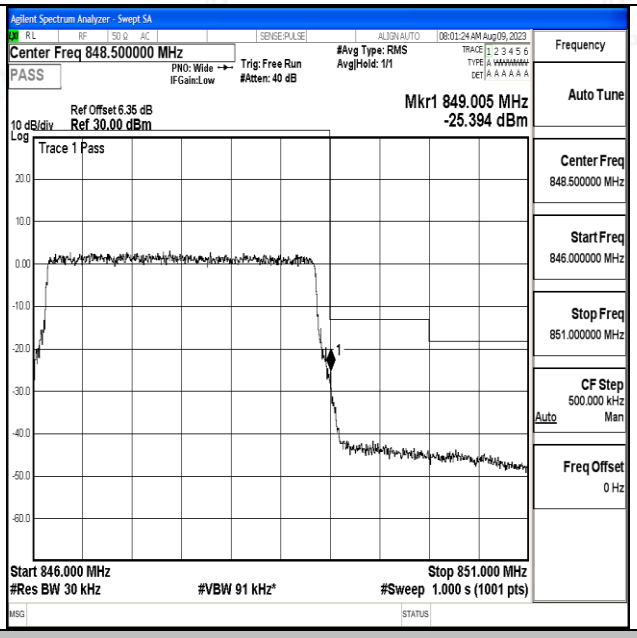

Band5_3MHz_QPSK_20415_15RB#0



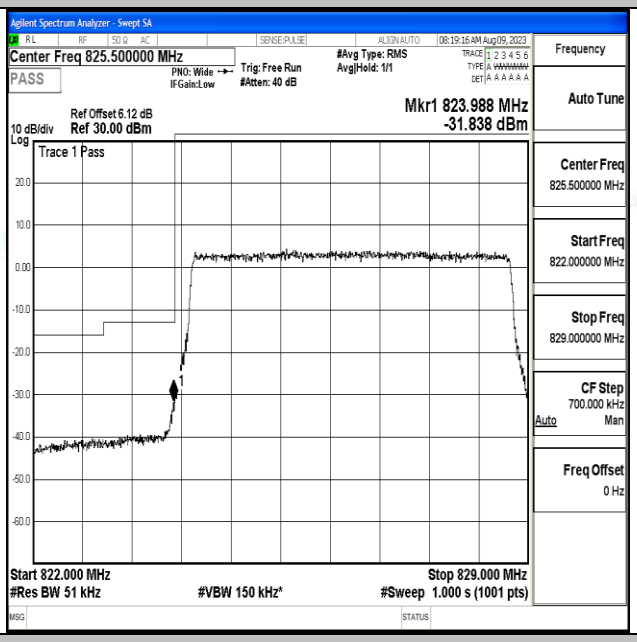

Band5_3MHz_16QAM_20415_15RB#0



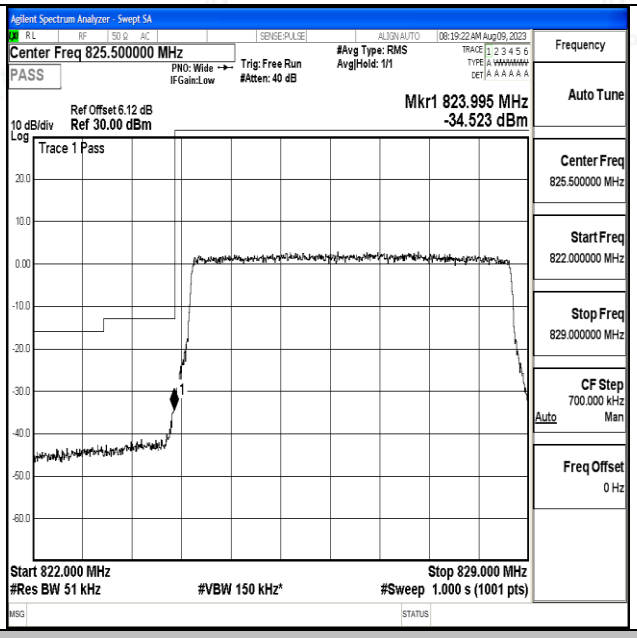

Band5_3MHz_QPSK_20635_15RB#0



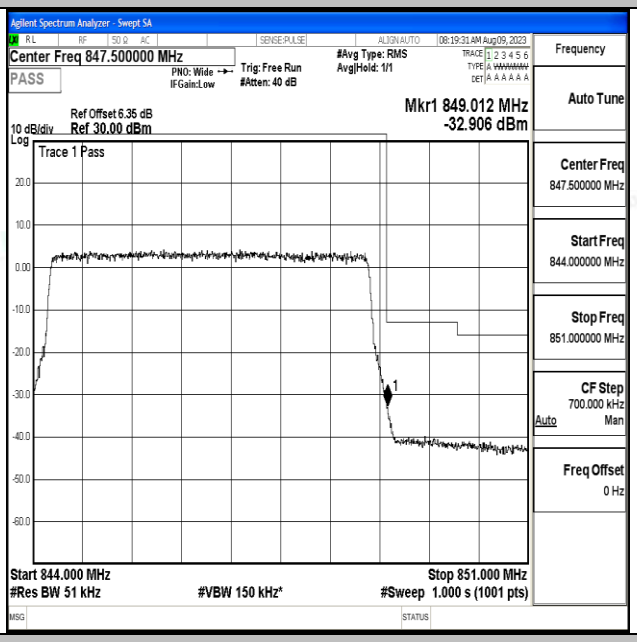

Band5_3MHz_16QAM_20635_15RB#0



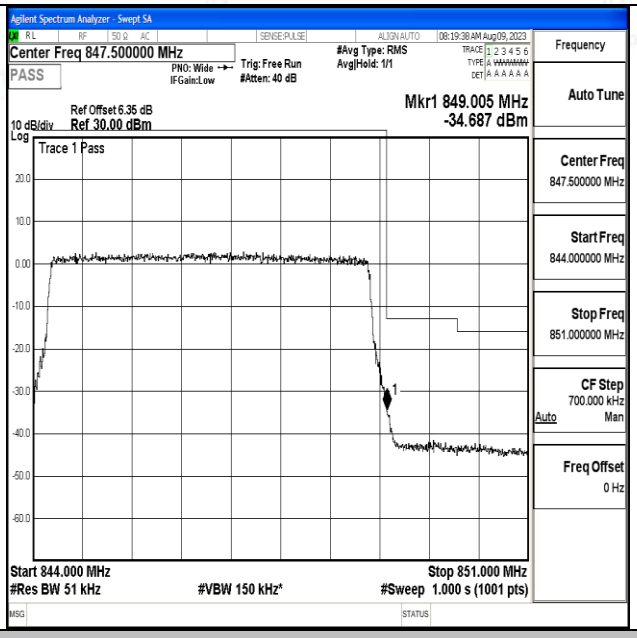

Band5_5MHz_QPSK_20425_25RB#0



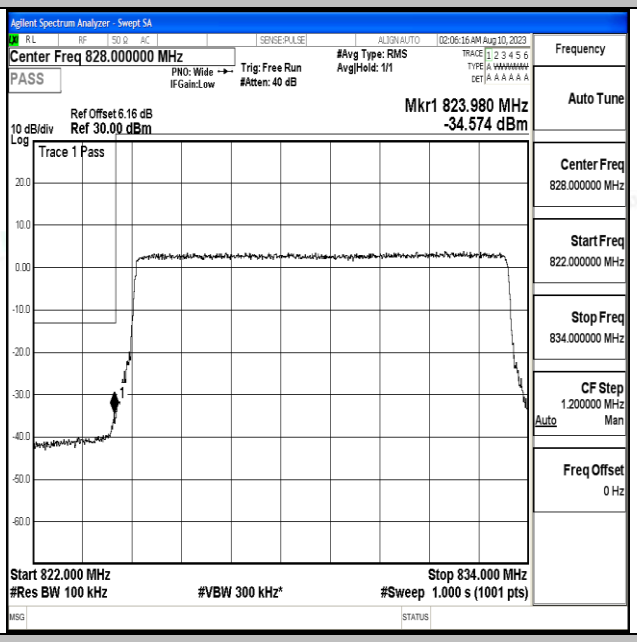

Band5_5MHz_16QAM_20425_25RB#0



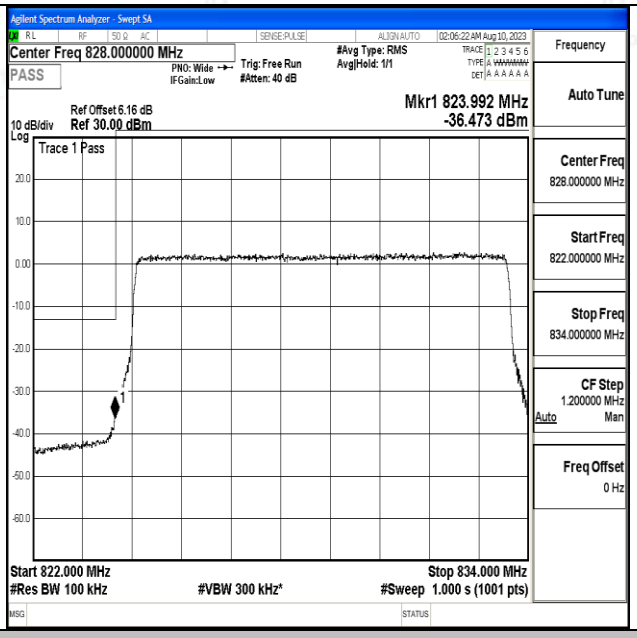

Band5_5MHz_QPSK_20625_25RB#0



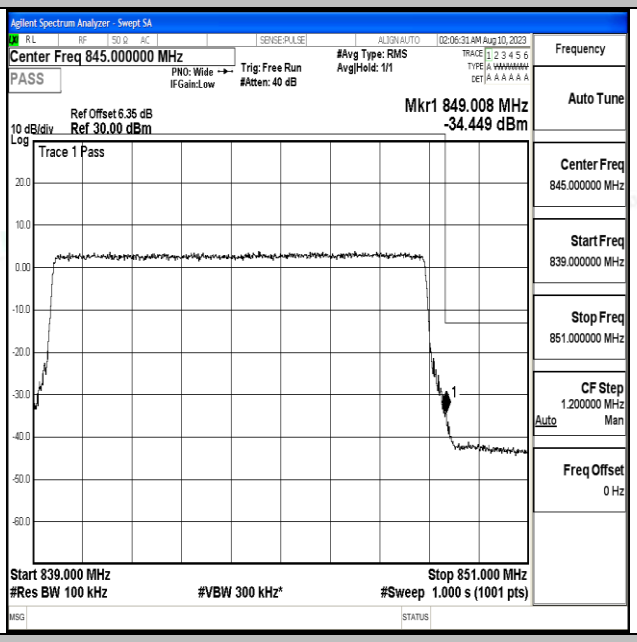

Band5_5MHz_16QAM_20625_25RB#0



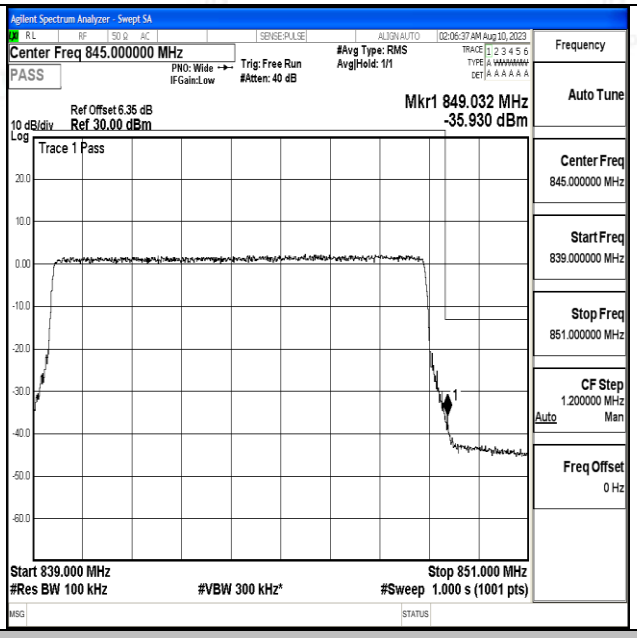

Band5_10MHz_QPSK_20450_50RB#0




Band5_10MHz_16QAM_20450_50RB#0




Band5_10MHz_QPSK_20600_50RB#0




Band5_10MHz_16QAM_20600_50RB#0

# H.5 Conducted Spurious Emission

## Test Result

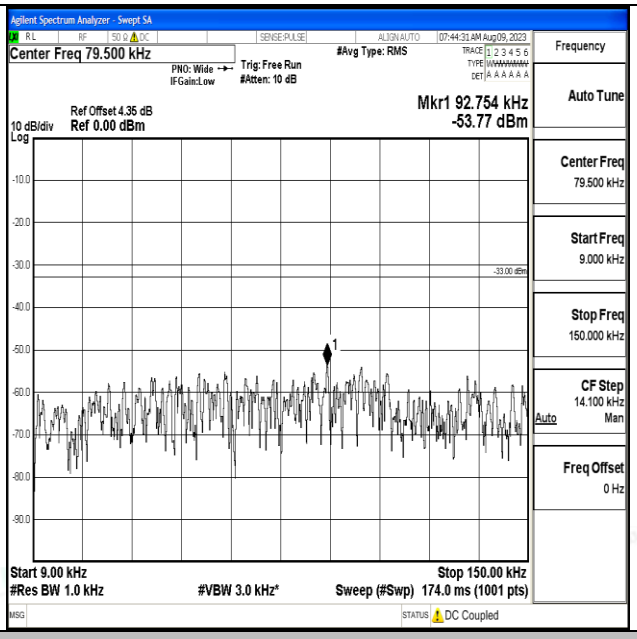
| Band | Bandwidth | Modulation | Channel | RB Configuration | Frequency Range | Result (dBm) | Verdict |
|---|---|---|---|---|---|---|---|
| Band5 | 1.4MHz | QPSK | 20407 | 1RB#0 | 0.009~0.15 | -53.77 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 1RB#0 | 0.15~30 | -53.68 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 1RB#0 | 30~1000 | -58.95 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 1RB#0 | 1000~3000 | -40.87 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 1RB#0 | 3000~10000 | -43.98 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 1RB#0 | 0.009~0.15 | -52.81 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 1RB#0 | 0.15~30 | -53.61 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 1RB#0 | 30~1000 | -59.19 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 1RB#0 | 1000~3000 | -41.36 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 1RB#0 | 3000~10000 | -43.05 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 1RB#0 | 0.009~0.15 | -54.28 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 1RB#0 | 0.15~30 | -56.64 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 1RB#0 | 30~1000 | -58.95 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 1RB#0 | 1000~3000 | -43.99 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 1RB#0 | 3000~10000 | -44.50 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 1RB#0 | 0.009~0.15 | -54.63 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 1RB#0 | 0.15~30 | -52.58 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 1RB#0 | 30~1000 | -50.15 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 1RB#0 | 1000~3000 | -44.27 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 1RB#0 | 3000~10000 | -44.26 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 1RB#0 | 0.009~0.15 | -58.40 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 1RB#0 | 0.15~30 | -53.85 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 1RB#0 | 30~1000 | -59.74 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 1RB#0 | 1000~3000 | -43.61 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 1RB#0 | 3000~10000 | -44.27 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 1RB#0 | 0.009~0.15 | -59.15 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 1RB#0 | 0.15~30 | -51.15 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 1RB#0 | 30~1000 | -59.63 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 1RB#0 | 1000~3000 | -44.71 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 1RB#0 | 3000~10000 | -44.25 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 1RB#0 | 0.009~0.15 | -53.68 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 1RB#0 | 0.15~30 | -53.28 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 1RB#0 | 30~1000 | -60.52 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 1RB#0 | 1000~3000 | -40.94 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 1RB#0 | 3000~10000 | -43.75 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Band5 | 3MHz | 16QAM | 20415 | 1RB#0 | 0.009~0.15 | -54.83 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 1RB#0 | 0.15~30 | -51.46 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 1RB#0 | 30~1000 | -61.09 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 1RB#0 | 1000~3000 | -43.06 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 1RB#0 | 3000~10000 | -44.17 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 1RB#0 | 0.009~0.15 | -54.69 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 1RB#0 | 0.15~30 | -54.71 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 1RB#0 | 30~1000 | -60.17 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 1RB#0 | 1000~3000 | -42.74 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 1RB#0 | 3000~10000 | -43.83 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 1RB#0 | 0.009~0.15 | -56.21 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 1RB#0 | 0.15~30 | -53.14 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 1RB#0 | 30~1000 | -61.16 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 1RB#0 | 1000~3000 | -43.85 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 1RB#0 | 3000~10000 | -44.17 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 1RB#0 | 0.009~0.15 | -57.43 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 1RB#0 | 0.15~30 | -53.22 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 1RB#0 | 30~1000 | -59.77 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 1RB#0 | 1000~3000 | -41.60 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 1RB#0 | 3000~10000 | -44.35 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#0 | 0.009~0.15 | -60.75 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#0 | 0.15~30 | -53.03 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#0 | 30~1000 | -61.08 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#0 | 1000~3000 | -41.88 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#0 | 3000~10000 | -44.41 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 1RB#0 | 0.009~0.15 | -54.30 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 1RB#0 | 0.15~30 | -52.48 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 1RB#0 | 30~1000 | -62.33 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 1RB#0 | 1000~3000 | -41.63 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 1RB#0 | 3000~10000 | -43.18 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#0 | 0.009~0.15 | -56.20 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#0 | 0.15~30 | -54.30 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#0 | 30~1000 | -62.19 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#0 | 1000~3000 | -42.37 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#0 | 3000~10000 | -43.75 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 1RB#0 | 0.009~0.15 | -54.86 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 1RB#0 | 0.15~30 | -52.11 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 1RB#0 | 30~1000 | -61.40 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 1RB#0 | 1000~3000 | -42.48 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 1RB#0 | 3000~10000 | -43.98 | PASS |

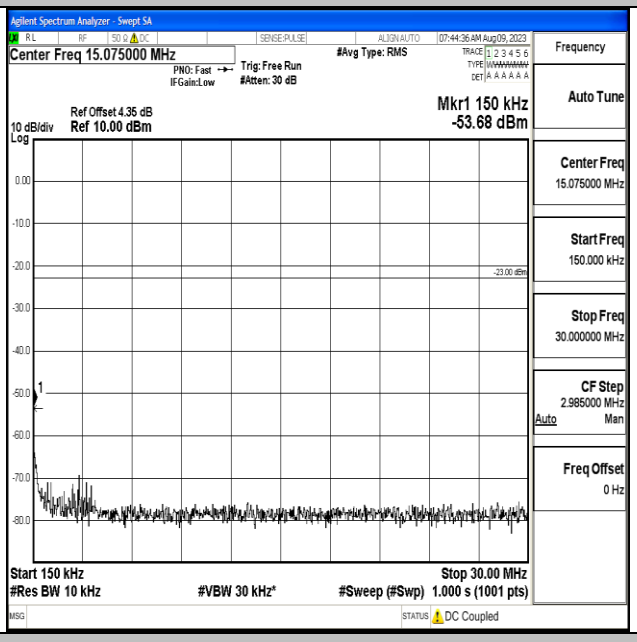
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Band5 | 5MHz | 16QAM | 20525 | 1RB#0 | 0.009~0.15 | -57.52 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#0 | 0.15~30 | -54.51 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#0 | 30~1000 | -62.24 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#0 | 1000~3000 | -45.53 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#0 | 3000~10000 | -44.39 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 1RB#0 | 0.009~0.15 | -56.51 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 1RB#0 | 0.15~30 | -54.64 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 1RB#0 | 30~1000 | -62.20 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 1RB#0 | 1000~3000 | -41.79 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 1RB#0 | 3000~10000 | -44.38 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 1RB#0 | 0.009~0.15 | -59.42 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 1RB#0 | 0.15~30 | -52.42 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 1RB#0 | 30~1000 | -62.06 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 1RB#0 | 1000~3000 | -43.06 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 1RB#0 | 3000~10000 | -44.17 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 1RB#0 | 0.009~0.15 | -51.80 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 1RB#0 | 0.15~30 | -52.90 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 1RB#0 | 30~1000 | -62.61 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 1RB#0 | 1000~3000 | -41.41 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 1RB#0 | 3000~10000 | -43.44 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#0 | 0.009~0.15 | -54.21 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#0 | 0.15~30 | -52.56 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#0 | 30~1000 | -62.97 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#0 | 1000~3000 | -41.73 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#0 | 3000~10000 | -43.92 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 1RB#0 | 0.009~0.15 | -51.66 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 1RB#0 | 0.15~30 | -52.89 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 1RB#0 | 30~1000 | -63.06 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 1RB#0 | 1000~3000 | -41.84 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 1RB#0 | 3000~10000 | -44.32 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#0 | 0.009~0.15 | -55.40 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#0 | 0.15~30 | -55.07 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#0 | 30~1000 | -62.72 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#0 | 1000~3000 | -42.79 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#0 | 3000~10000 | -44.27 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 1RB#0 | 0.009~0.15 | -54.11 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 1RB#0 | 0.15~30 | -52.99 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 1RB#0 | 30~1000 | -62.94 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 1RB#0 | 1000~3000 | -42.43 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 1RB#0 | 3000~10000 | -44.38 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Band5 | 10MHz | 16QAM | 20600 | 1RB#0 | 0.009~0.15 | -59.54 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#0 | 0.15~30 | -53.57 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#0 | 30~1000 | -63.11 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#0 | 1000~3000 | -45.51 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#0 | 3000~10000 | -44.01 | PASS |

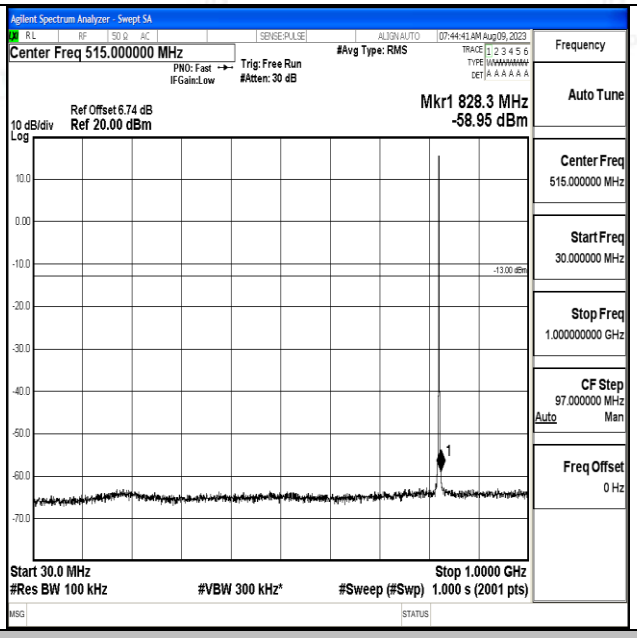
## Test Graphs



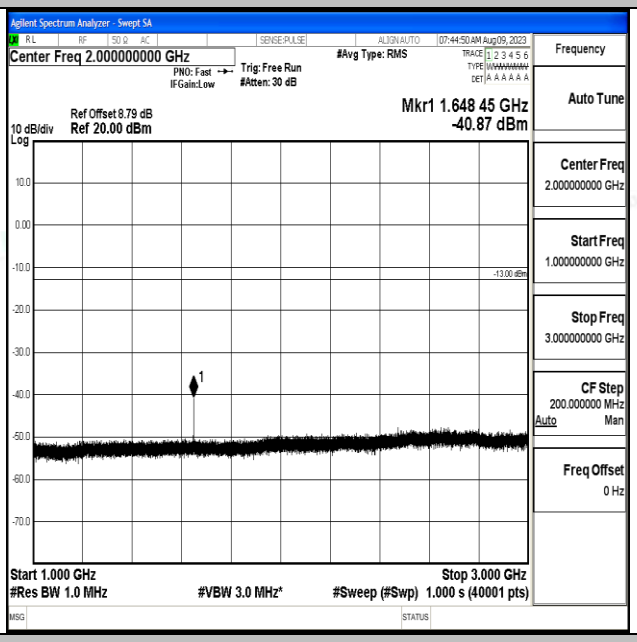

Band5_1.4MHz_QPSK_20407_1RB#0_0.009~0.15_0.009~0.15



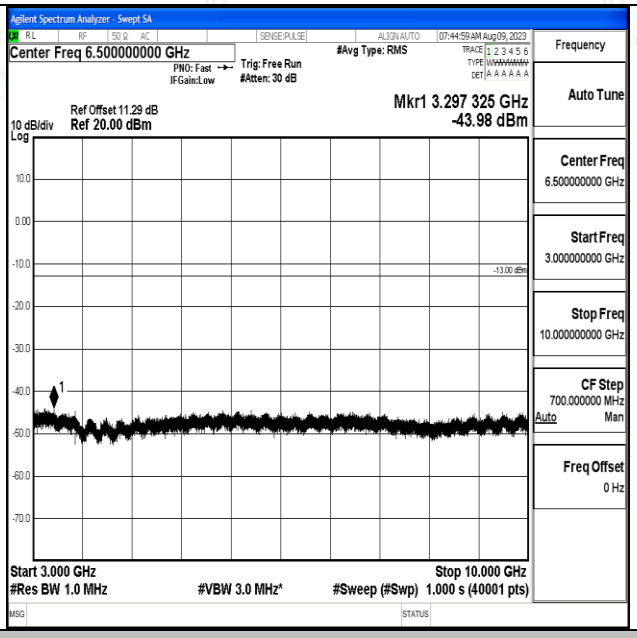

Band5_1.4MHz_QPSK_20407_1RB#0_0.15~30_0.15~30



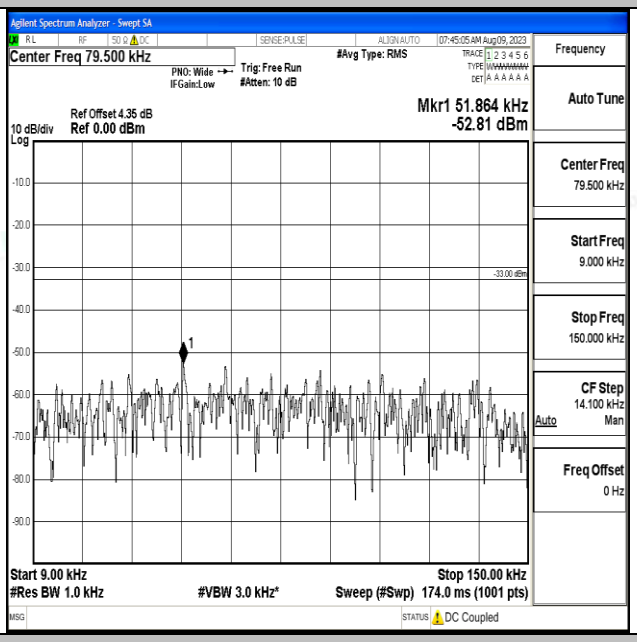

Band5_1.4MHz_QPSK_20407_1RB#0_30~1000_30~1000



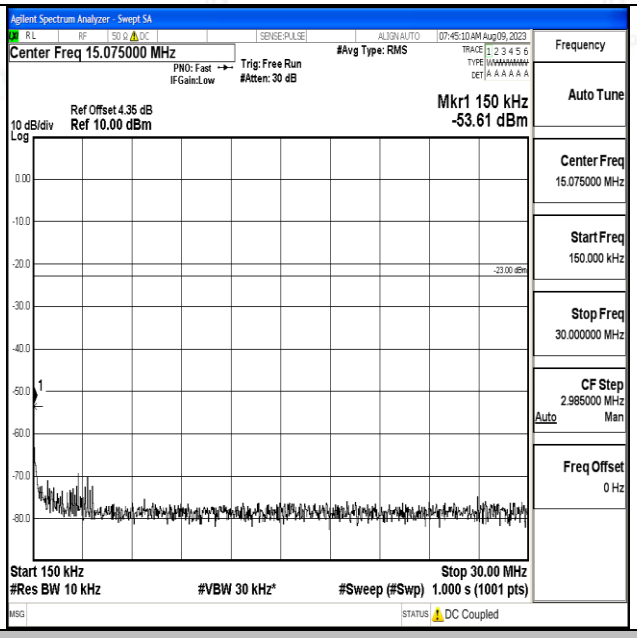

Band5_1.4MHz_QPSK_20407_1RB#0_1000~3000_1000~3000



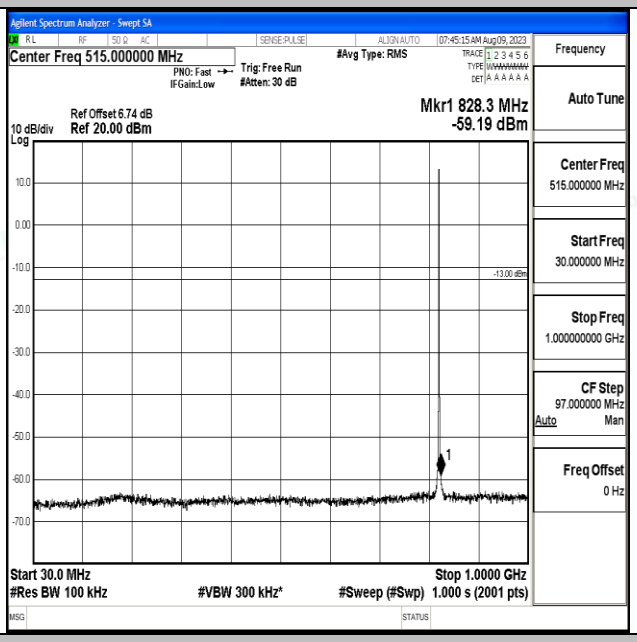

Band5_1.4MHz_QPSK_20407_1RB#0_3000~10000_3000~10000



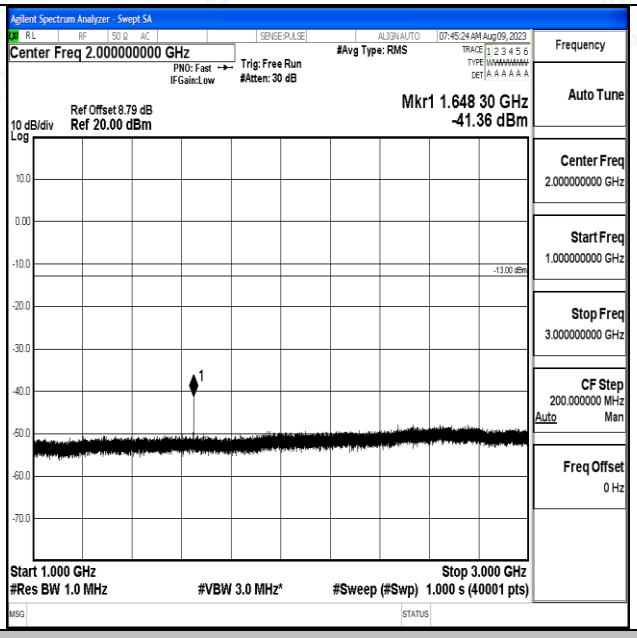

Band5_1.4MHz_16QAM_20407_1RB#0_0.009~0.15_0.009~0.15



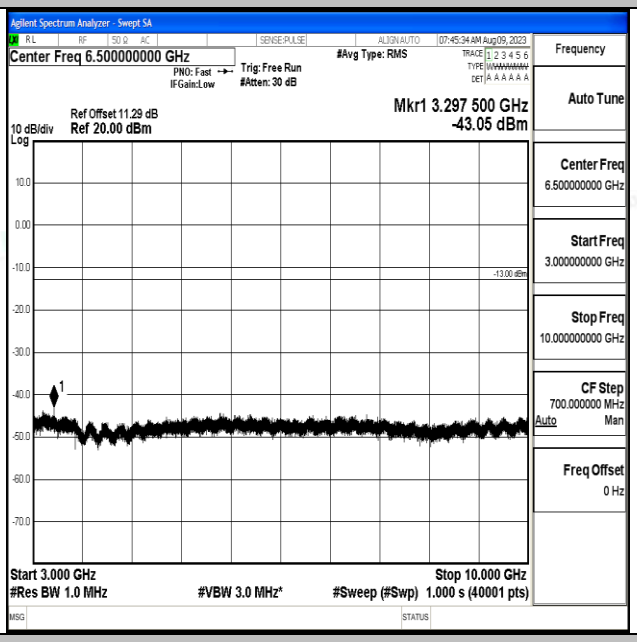

Band5_1.4MHz_16QAM_20407_1RB#0_0.15~30_0.15~30



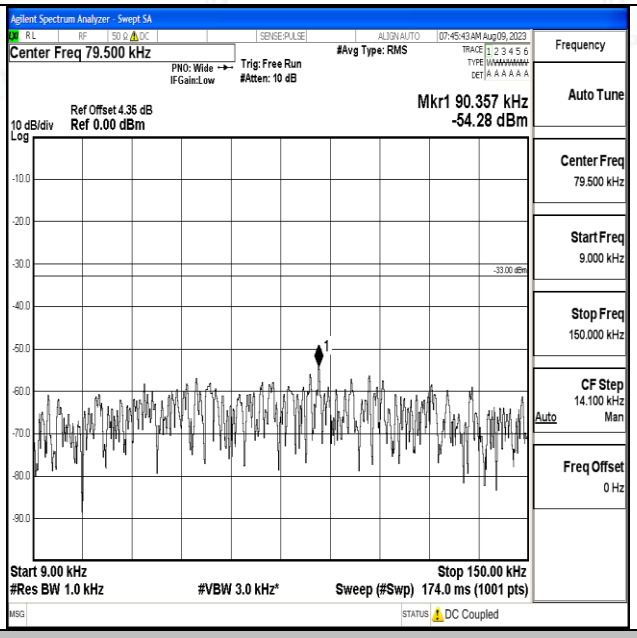

Band5_1.4MHz_16QAM_20407_1RB#0_30~1000_30~1000



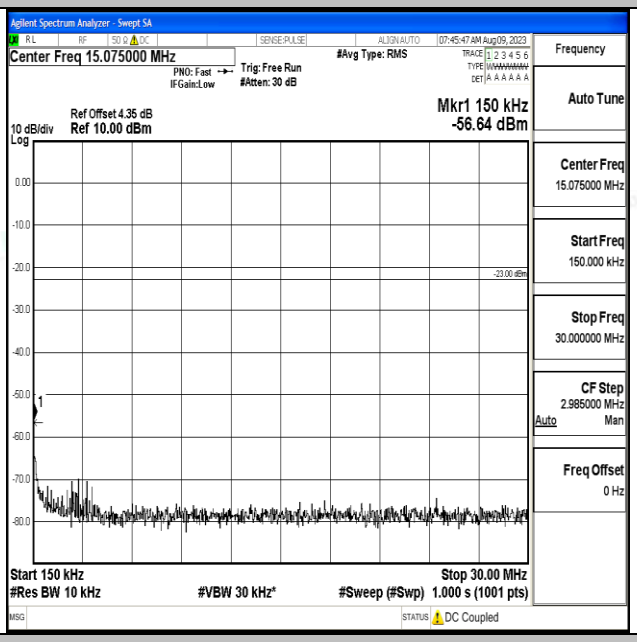

Band5_1.4MHz_16QAM_20407_1RB#0_1000~3000_1000~3000



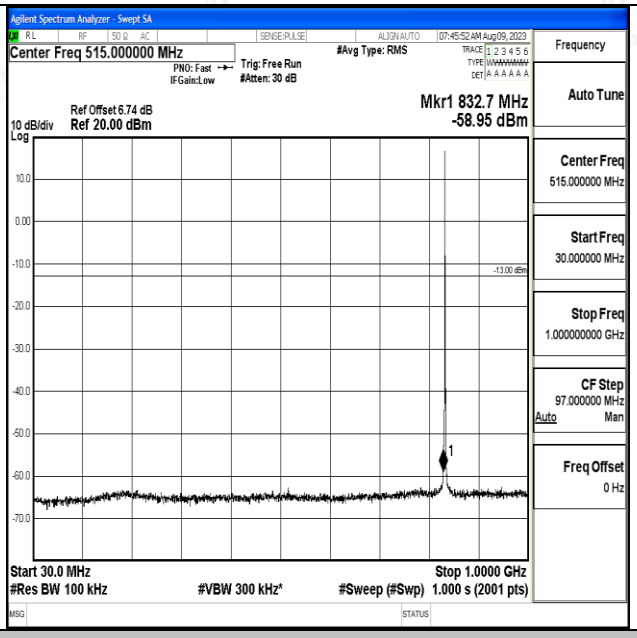

Band5_1.4MHz_16QAM_20407_1RB#0_3000~10000_3000~10000



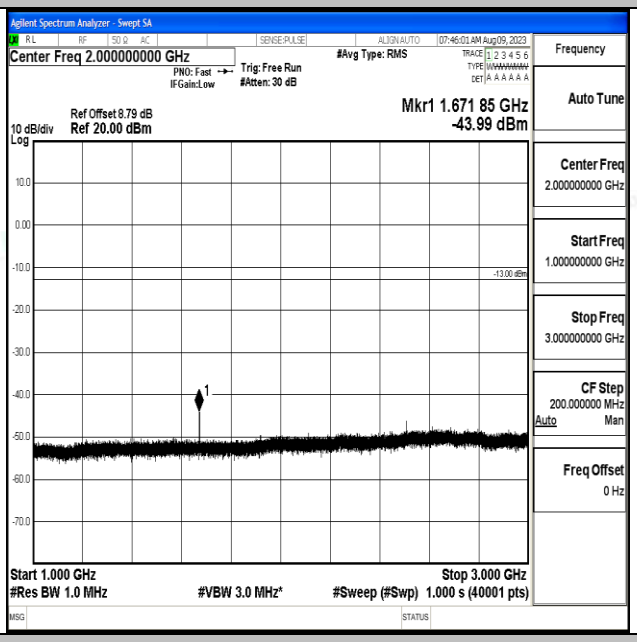

Band5_1.4MHz_QPSK_20525_1RB#0_0.009~0.15_0.009~0.15



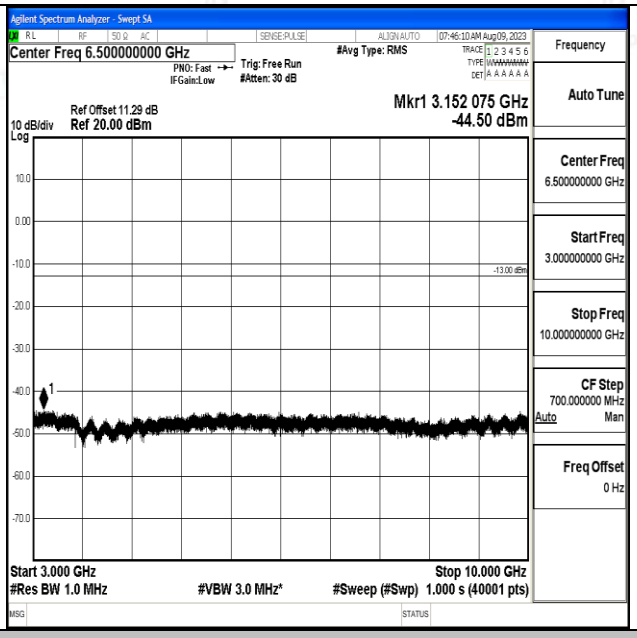

Band5_1.4MHz_QPSK_20525_1RB#0_0.15~30_0.15~30



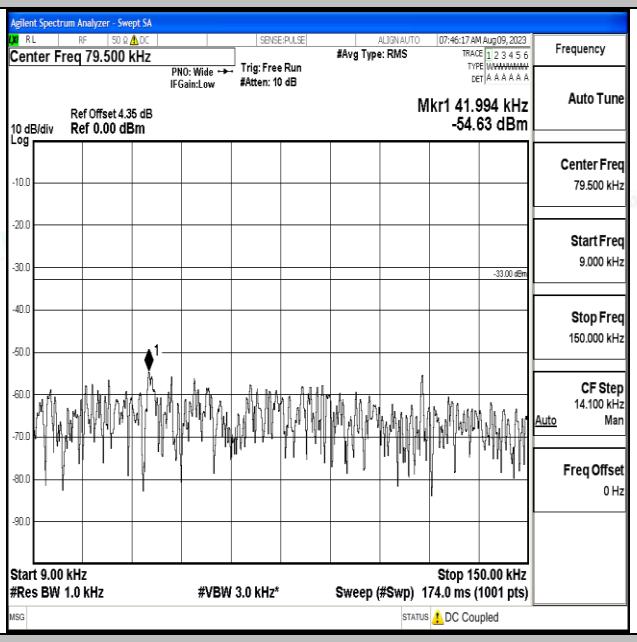

Band5_1.4MHz_QPSK_20525_1RB#0_30~1000_30~1000



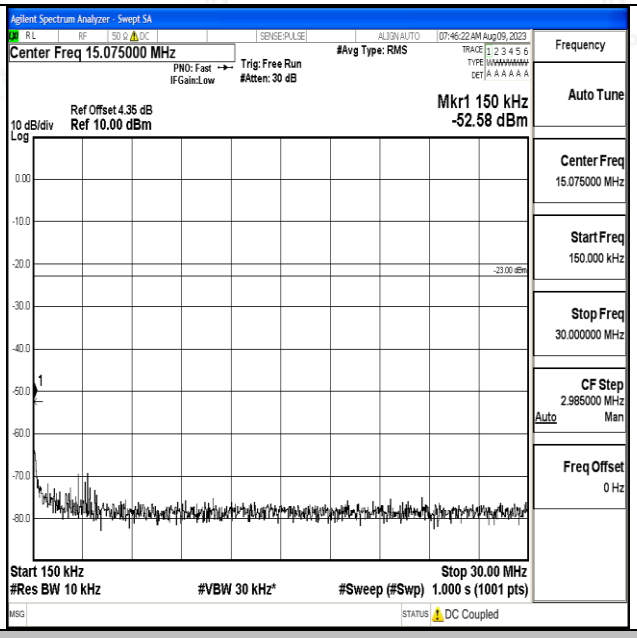

Band5_1.4MHz_QPSK_20525_1RB#0_1000~3000_1000~3000



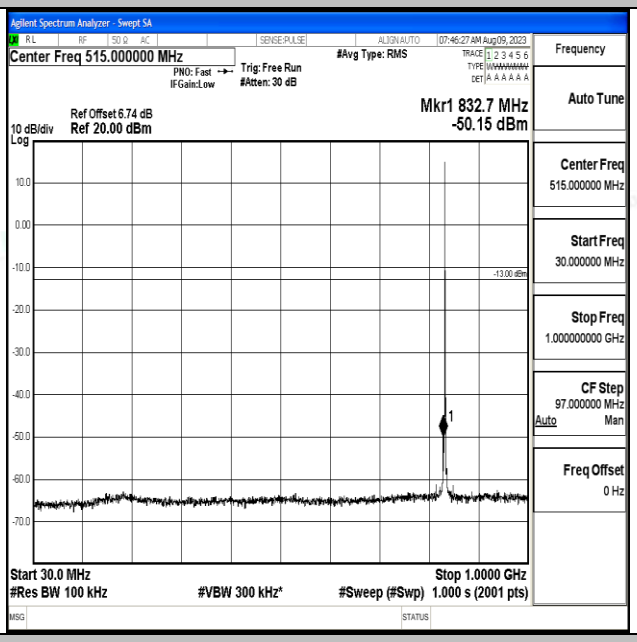

Band5_1.4MHz_QPSK_20525_1RB#0_3000~10000_3000~10000



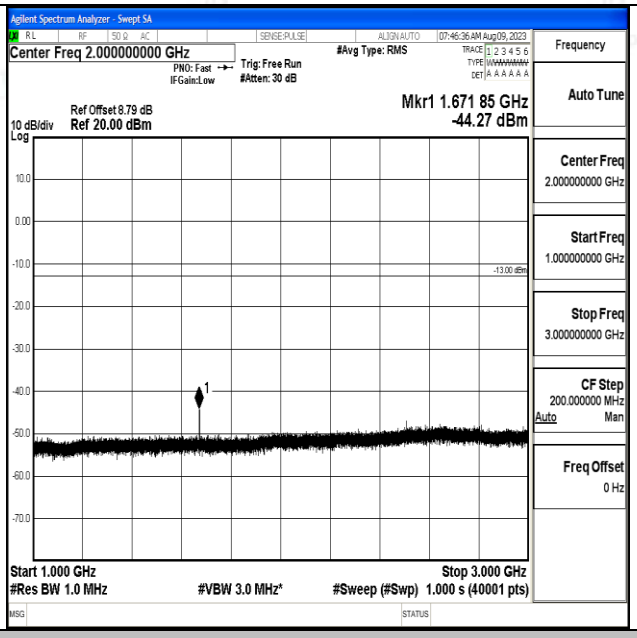

Band5_1.4MHz_16QAM_20525_1RB#0_0.009~0.15_0.009~0.15



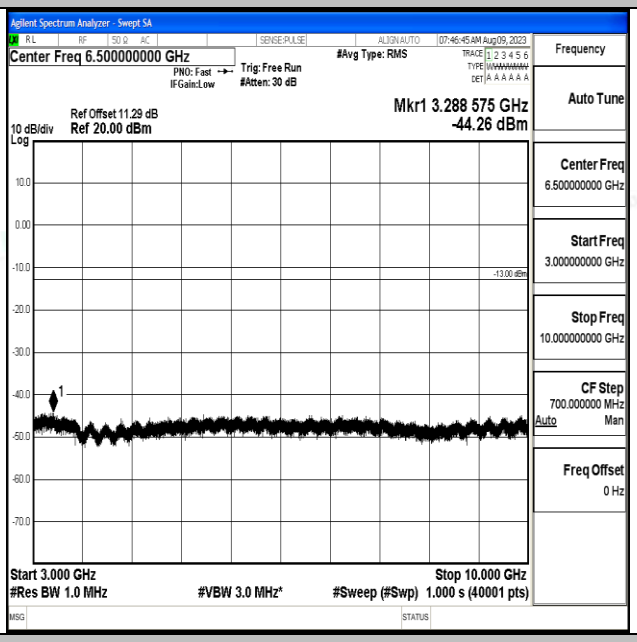

Band5_1.4MHz_16QAM_20525_1RB#0_0.15~30_0.15~30



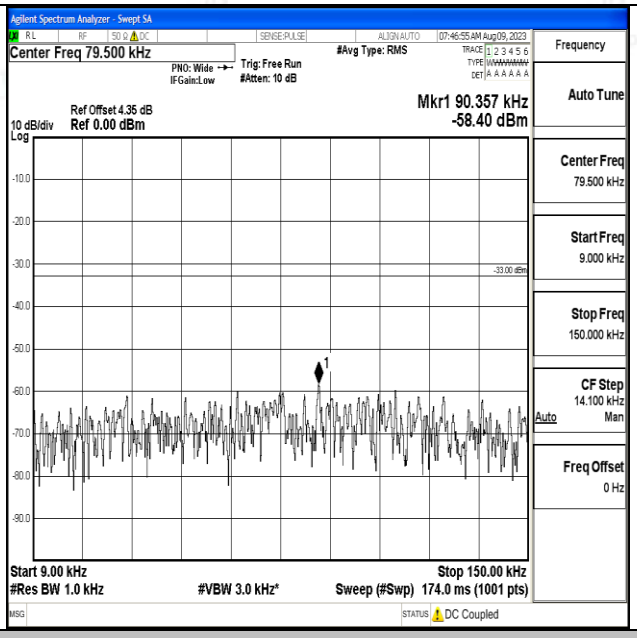

Band5_1.4MHz_16QAM_20525_1RB#0_30~1000_30~1000



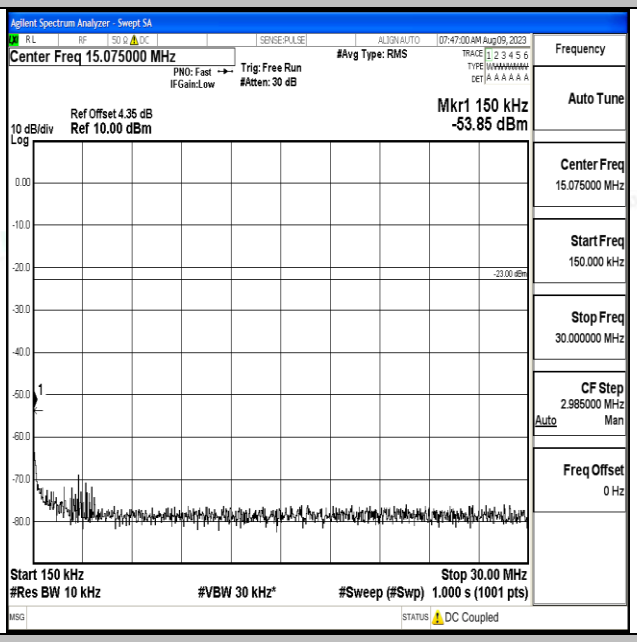

Band5_1.4MHz_16QAM_20525_1RB#0_1000~3000_1000~3000



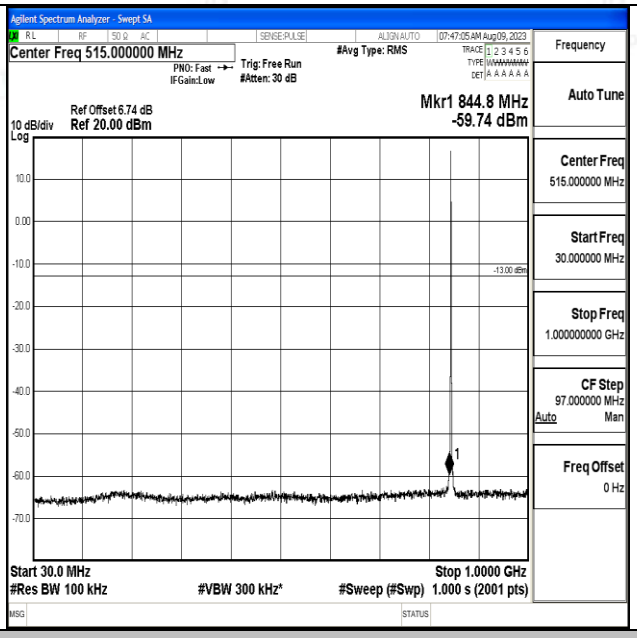

Band5_1.4MHz_16QAM_20525_1RB#0_3000~10000_3000~10000



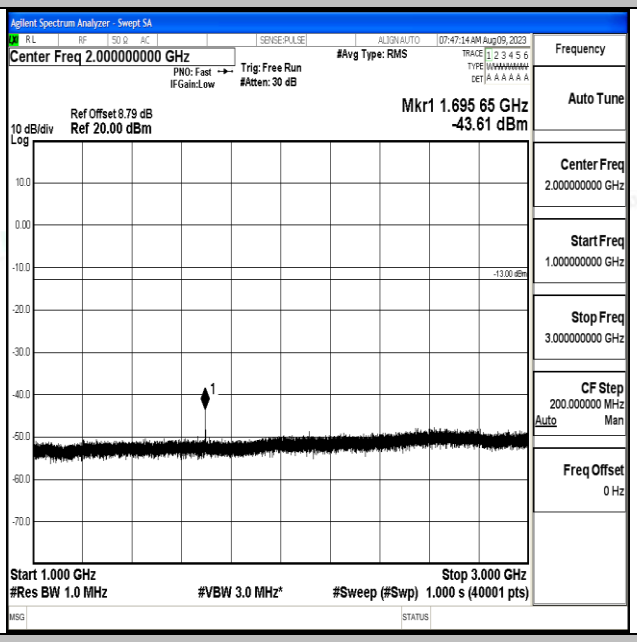

Band5_1.4MHz_QPSK_20643_1RB#0_0.009~0.15_0.009~0.15



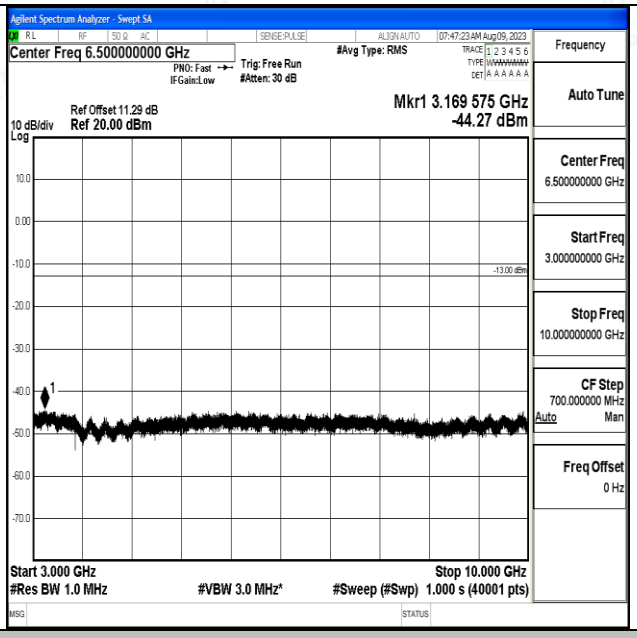

Band5_1.4MHz_QPSK_20643_1RB#0_0.15~30_0.15~30



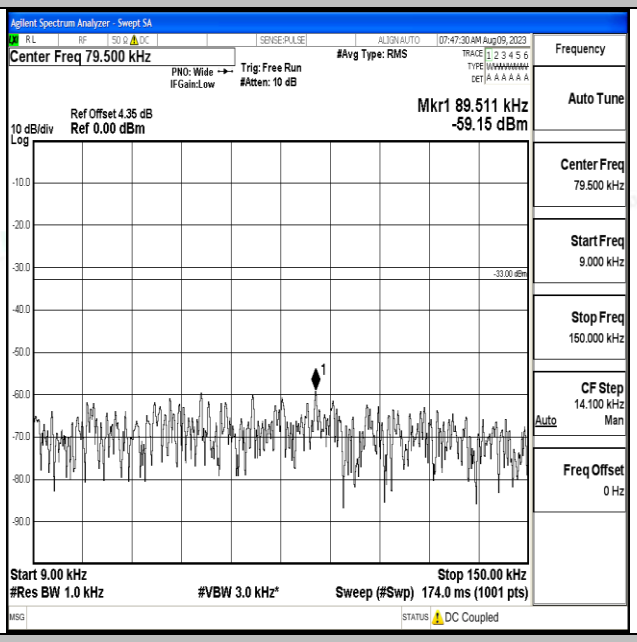

Band5_1.4MHz_QPSK_20643_1RB#0_30~1000_30~1000



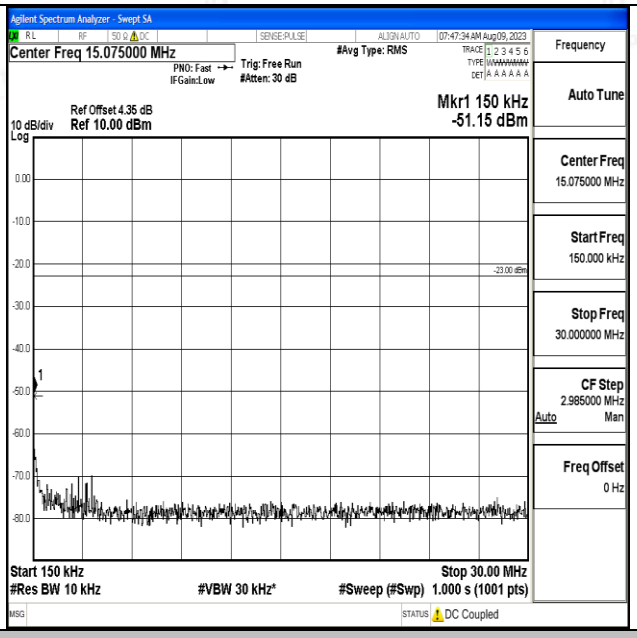

Band5_1.4MHz_QPSK_20643_1RB#0_1000~3000_1000~3000



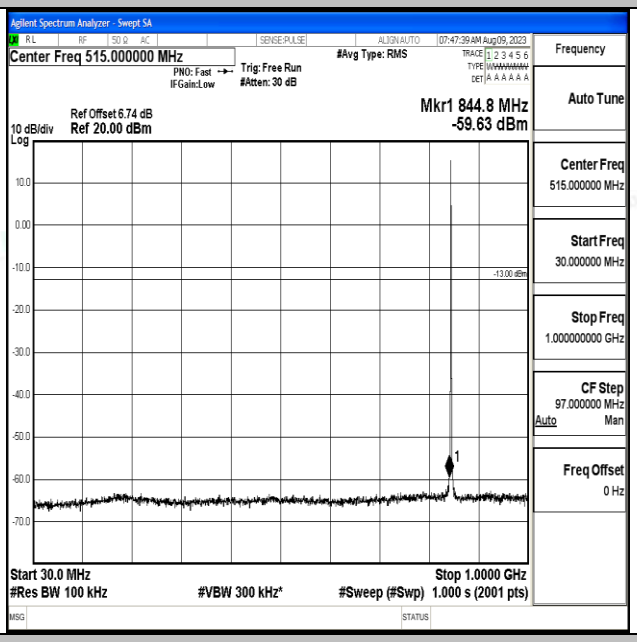

Band5_1.4MHz_QPSK_20643_1RB#0_3000~10000_3000~10000



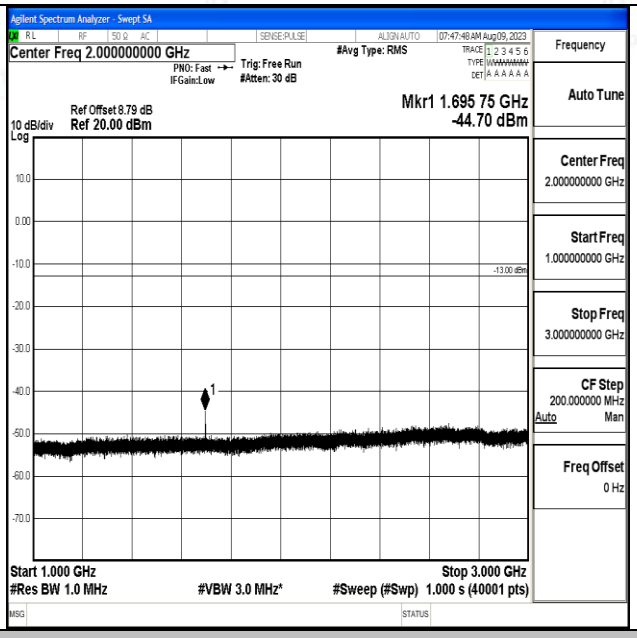

Band5_1.4MHz_16QAM_20643_1RB#0_0.009~0.15_0.009~0.15



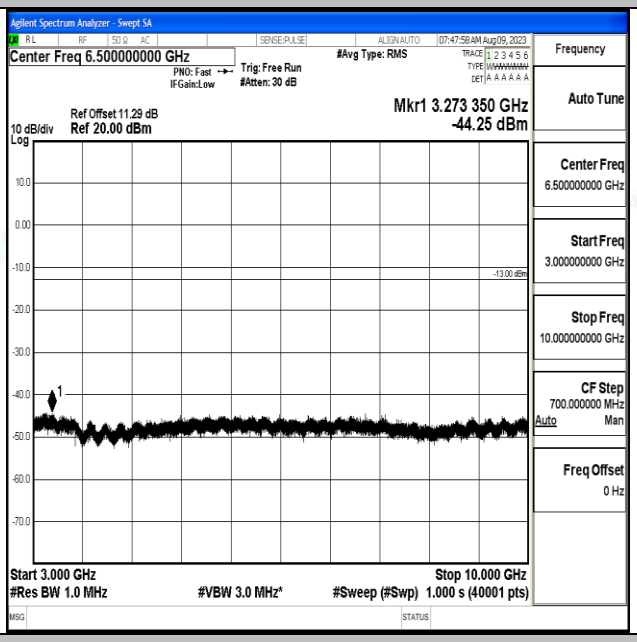

Band5_1.4MHz_16QAM_20643_1RB#0_0.15~30_0.15~30



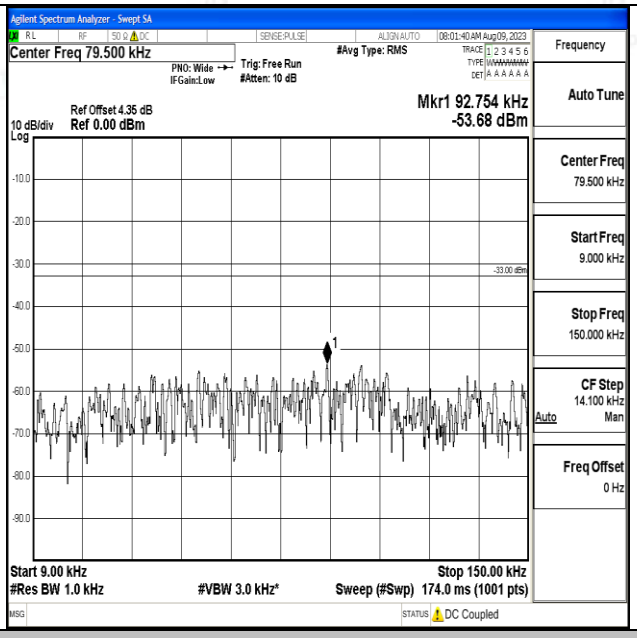

Band5_1.4MHz_16QAM_20643_1RB#0_30~1000_30~1000



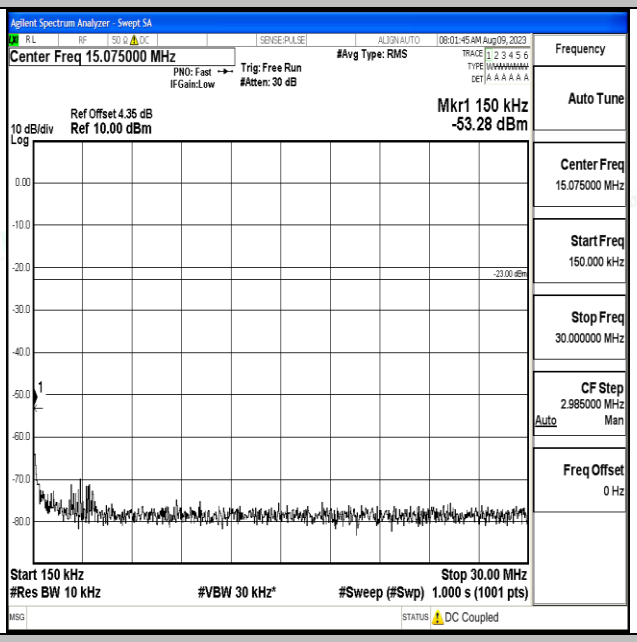

Band5_1.4MHz_16QAM_20643_1RB#0_1000~3000_1000~3000



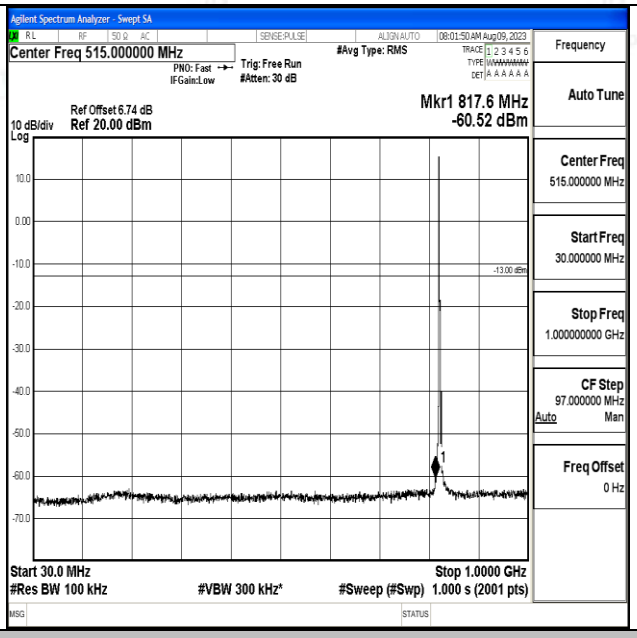

Band5_1.4MHz_16QAM_20643_1RB#0_3000~10000_3000~10000



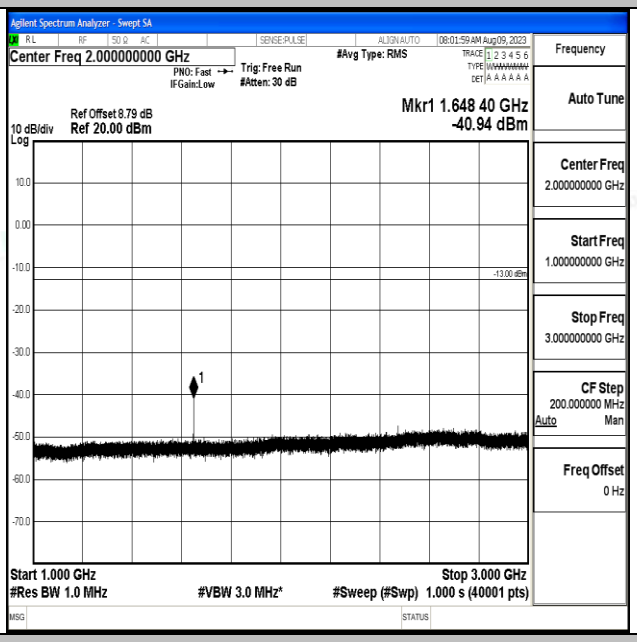

Band5_3MHz_QPSK_20415_1RB#0_0.009~0.15_0.009~0.15



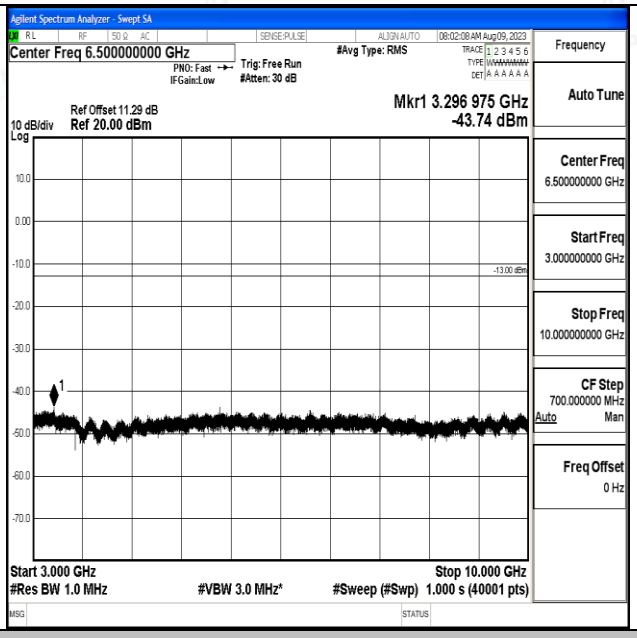

Band5_3MHz_QPSK_20415_1RB#0_0.15~30_0.15~30



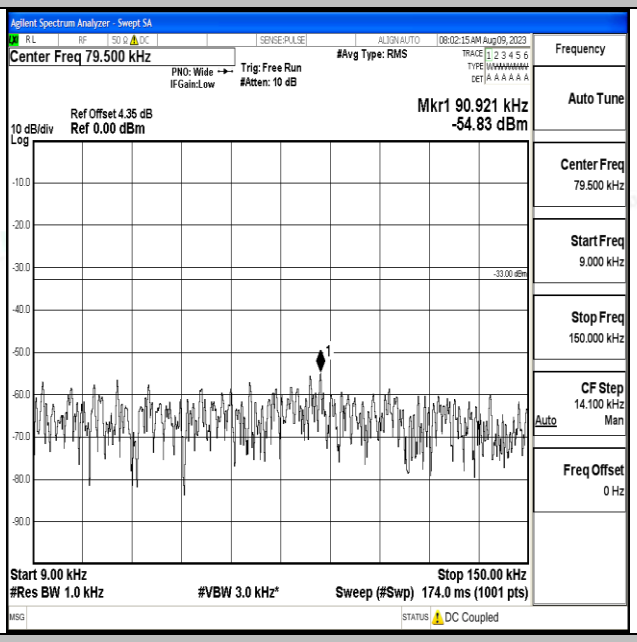

Band5_3MHz_QPSK_20415_1RB#0_30~1000_30~1000



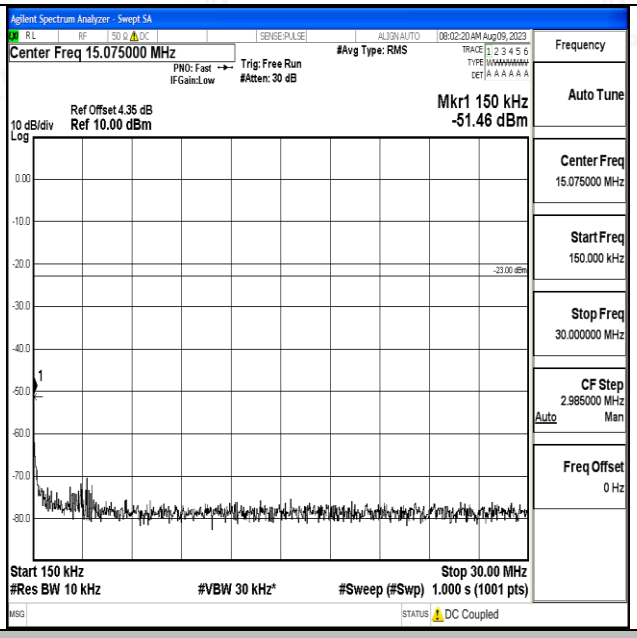

Band5_3MHz_QPSK_20415_1RB#0_1000~3000_1000~3000



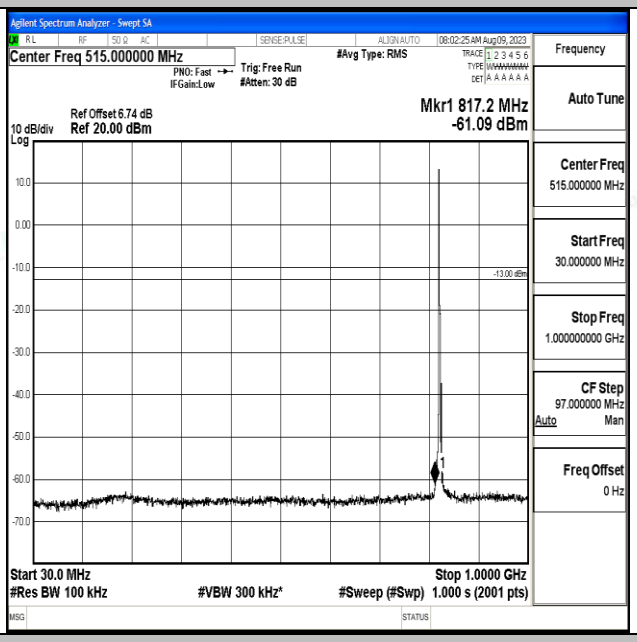

Band5_3MHz_QPSK_20415_1RB#0_3000~10000_3000~10000



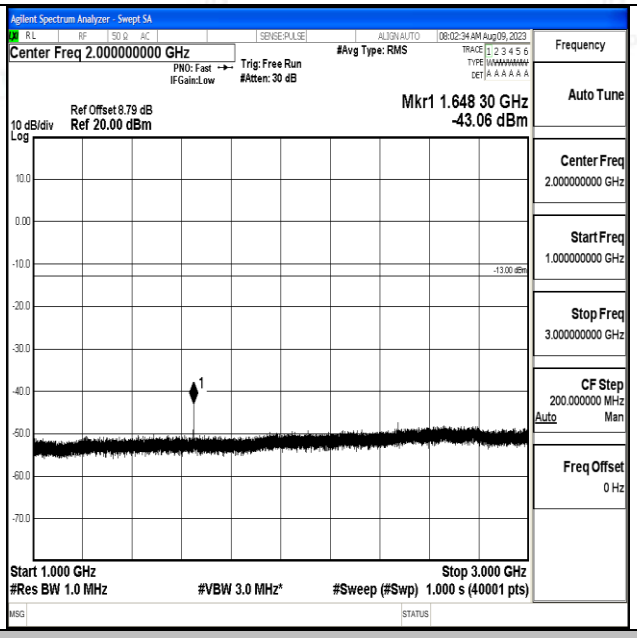

Band5_3MHz_16QAM_20415_1RB#0_0.009~0.15_0.009~0.15



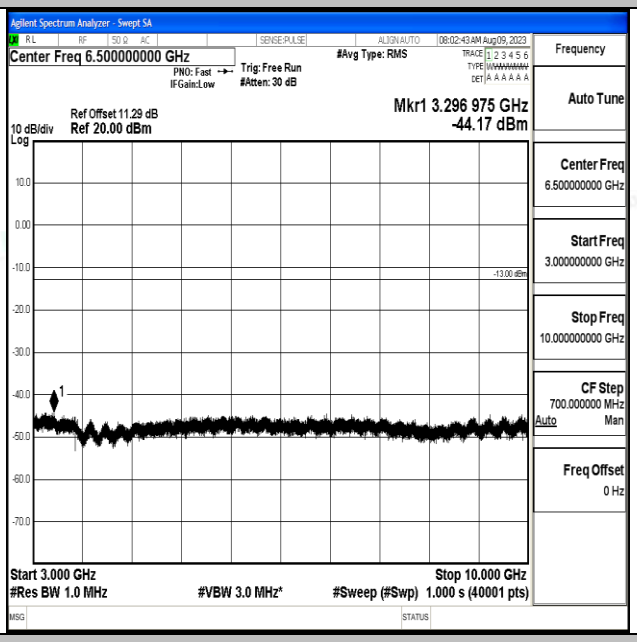

Band5_3MHz_16QAM_20415_1RB#0_0.15~30_0.15~30



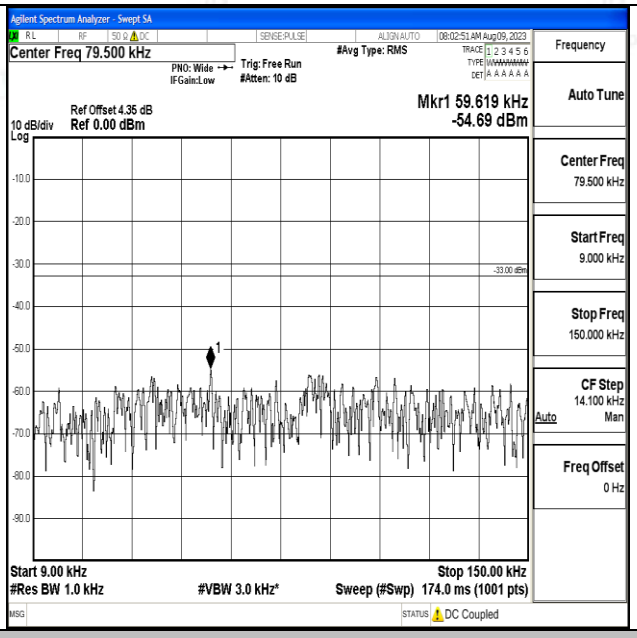

Band5_3MHz_16QAM_20415_1RB#0_30~1000_30~1000



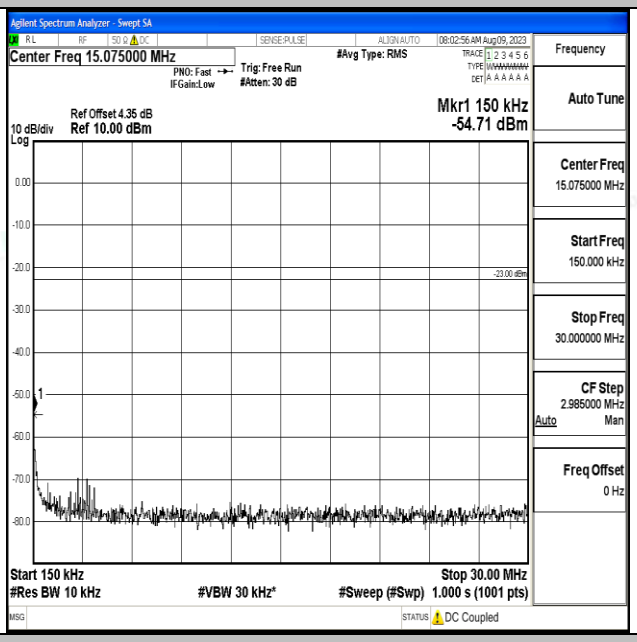

Band5_3MHz_16QAM_20415_1RB#0_1000~3000_1000~3000




Band5_3MHz_16QAM_20415_1RB#0_3000~10000_3000~10000




Band5_3MHz_QPSK_20525_1RB#0_0.009~0.15_0.009~0.15




Band5_3MHz_QPSK_20525_1RB#0_0.15~30_0.15~30