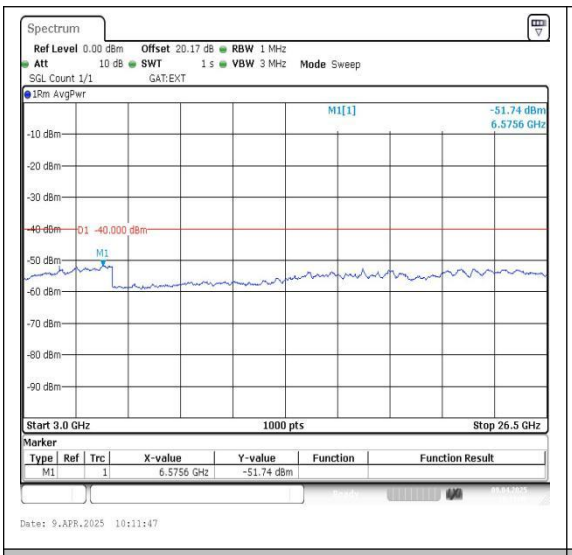
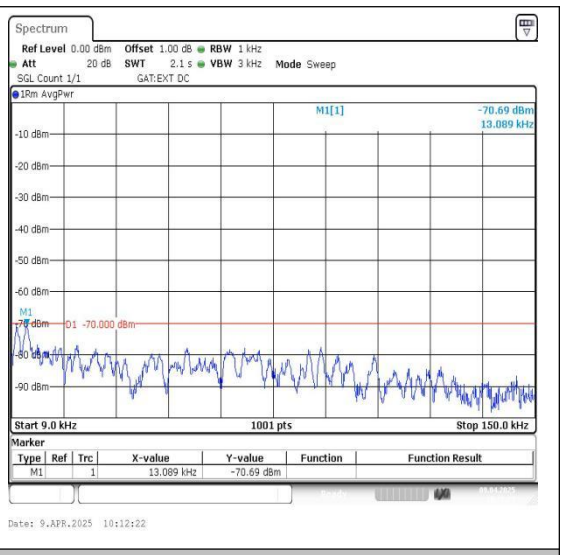
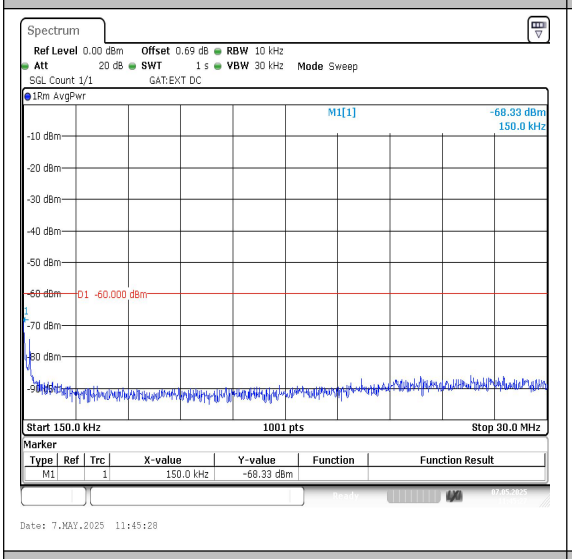


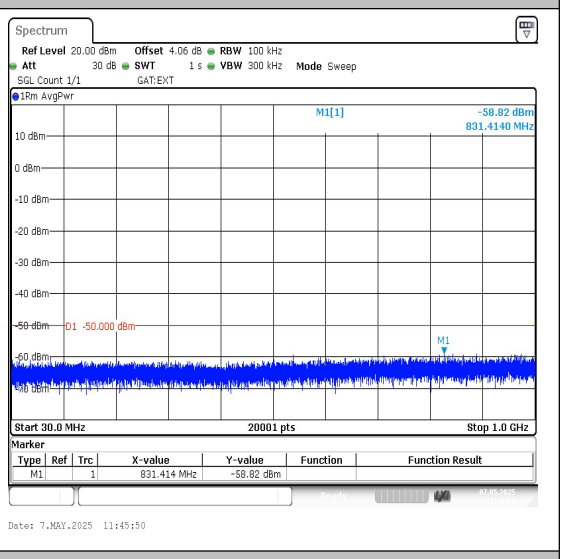

40(2305-2315)-5MHz-QPSK-38775-1RB#0-3000~26500-PASS



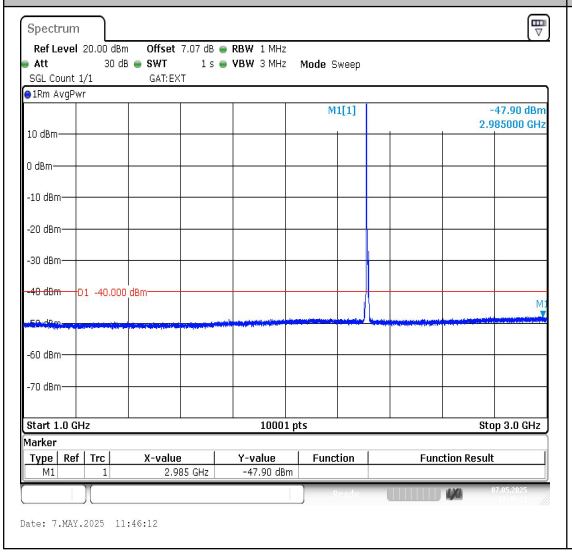

40(2305-2315)-5MHz-16QAM-38775-1RB#0-0.009~0.15-PASS

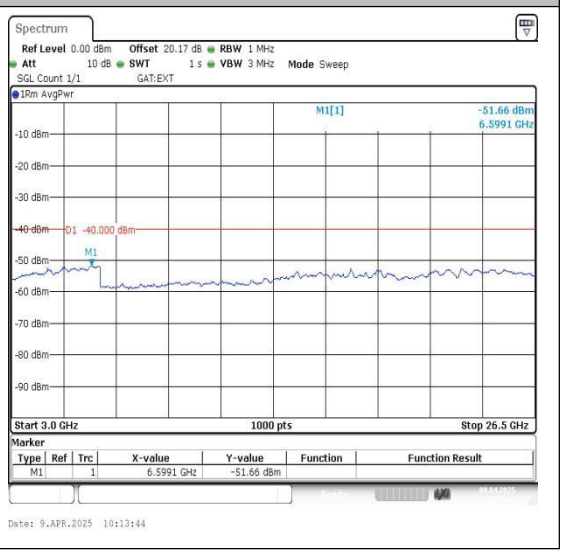


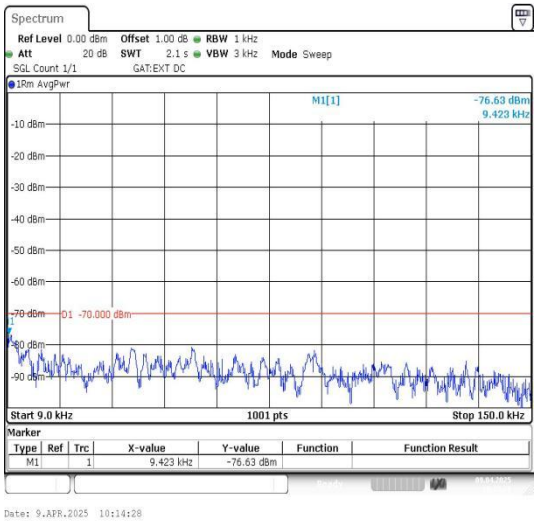
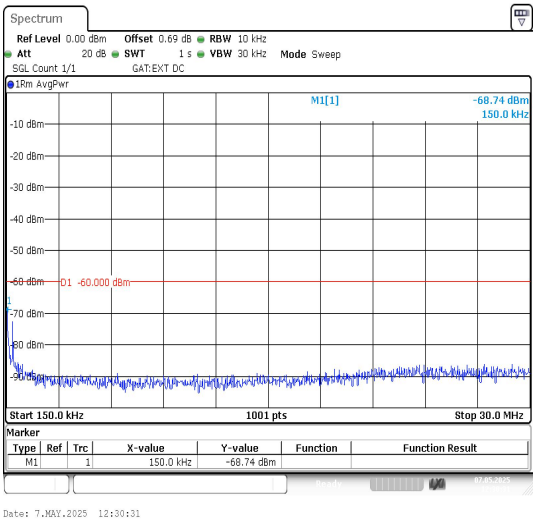
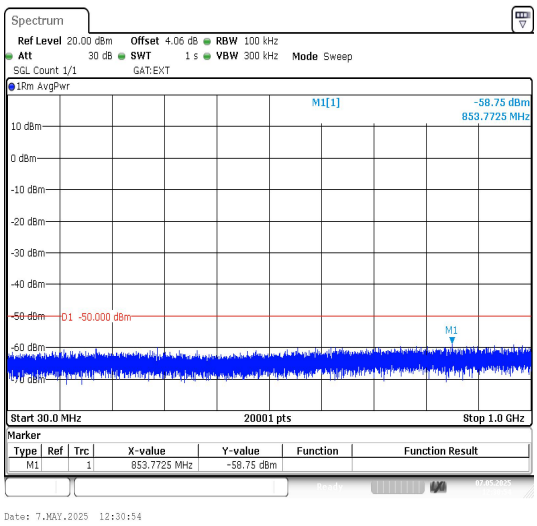
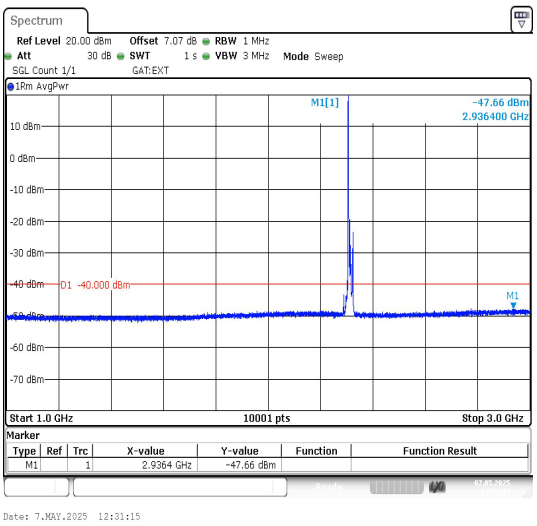

40(2305-2315)-5MHz-16QAM-38775-1RB#0-0.15~30-PASS

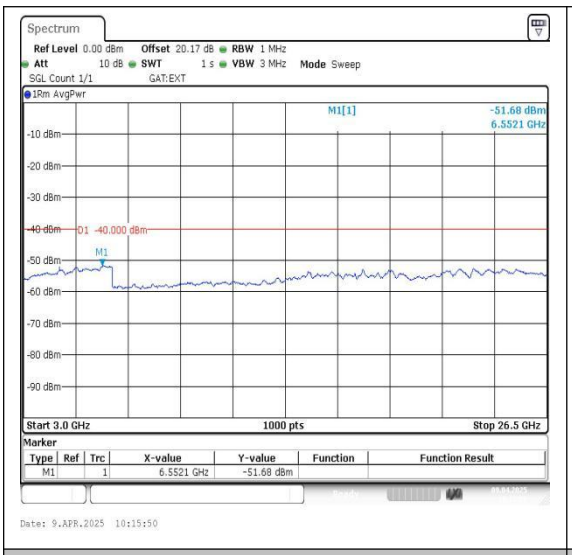



40(2305-2315)-5MHz-16QAM-38775-1RB#0-30~1000-PASS

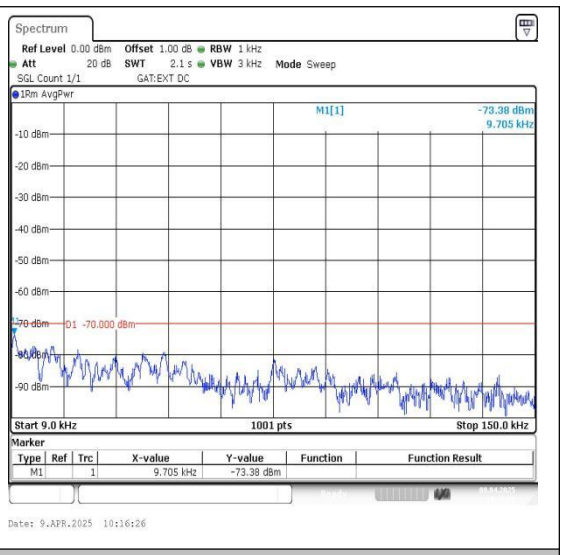


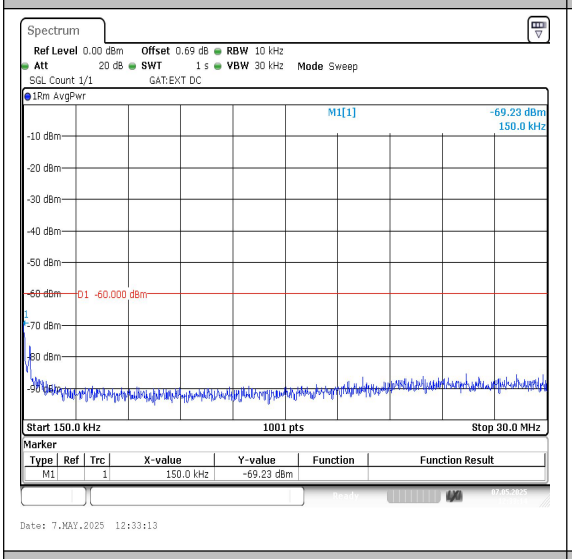
| 40(2305-2315)-5MHz-16QAM-38775-1RB#0-1000~3000-PASS | 40(2305-2315)-5MHz-16QAM-38775-1RB#0-3000~26500-PASS |
|---|---|
|   |   |
| 40(2305-2315)-10MHz-QPSK-38750-1RB#0-0.009~0.15-PASS | 40(2305-2315)-10MHz-QPSK-38750-1RB#0-0.15~30-PASS |
|   |   |
| 40(2305-2315)-10MHz-QPSK-38750-1RB#0-30~1000-PASS | 40(2305-2315)-10MHz-QPSK-38750-1RB#0-1000~3000-PASS |



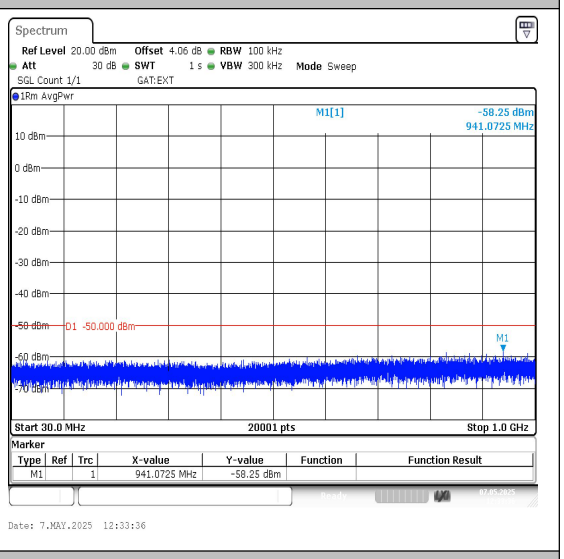

40(2305-2315)-10MHz-QPSK-38750-1RB#0-3000~26500-PASS



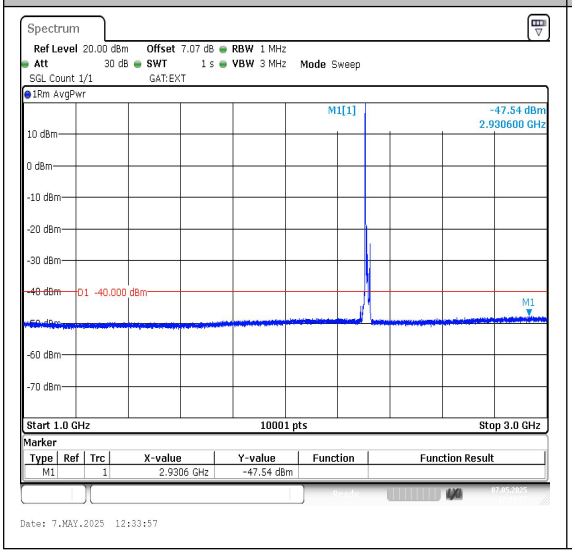

40(2305-2315)-10MHz-16QAM-38750-1RB#0-0.009~0.15-PASS

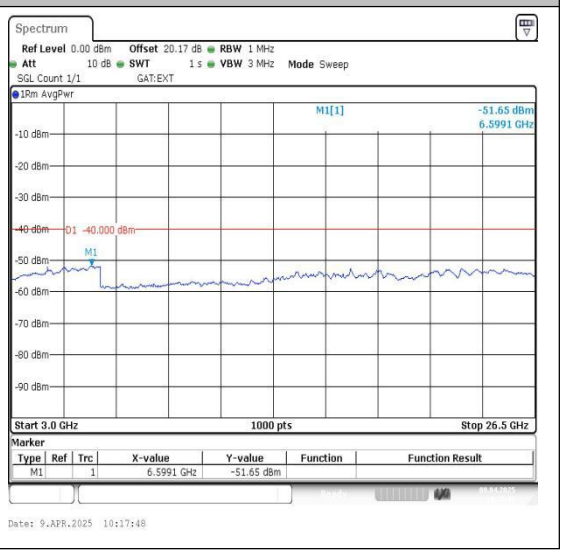



40(2305-2315)-10MHz-16QAM-38750-1RB#0-0.15~30-PASS




40(2305-2315)-10MHz-16QAM-38750-1RB#0-30~1000-PASS



| | |
|---|---|
| 40(2305-2315)-10MHz-16QAM-38750-1RB#0-1000~3000-PASS | 40(2305-2315)-10MHz-16QAM-38750-1RB#0-3000~26500-PASS |

# Appendix F: Frequency Stability

## Test Result

| Temperature | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Band | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| 40(2305-2315) | 5MHz | QPSK | 38725 | 25RB#0 | NV | -30 | -8.00 | -0.003467 | ±2.5 | PASS |
| 40(2305-2315) | 5MHz | QPSK | 38725 | 25RB#0 | NV | -20 | -6.15 | -0.002665 | ±2.5 | PASS |
| 40(2305-2315) | 5MHz | QPSK | 38725 | 25RB#0 | NV | -10 | -13.52 | -0.005859 | ±2.5 | PASS |
| 40(2305-2315) | 5MHz | QPSK | 38725 | 25RB#0 | NV | 0 | -9.06 | -0.003926 | ±2.5 | PASS |
| 40(2305-2315) | 5MHz | QPSK | 38725 | 25RB#0 | NV | 10 | -12.17 | -0.005274 | ±2.5 | PASS |
| 40(2305-2315) | 5MHz | QPSK | 38725 | 25RB#0 | NV | 20 | -2.68 | -0.001161 | ±2.5 | PASS |
| 40(2305-2315) | 5MHz | QPSK | 38725 | 25RB#0 | NV | 30 | -10.07 | -0.004364 | ±2.5 | PASS |
| 40(2305-2315) | 5MHz | QPSK | 38725 | 25RB#0 | NV | 40 | -16.28 | -0.007055 | ±2.5 | PASS |
| 40(2305-2315) | 5MHz | QPSK | 38725 | 25RB#0 | NV | 50 | -6.85 | -0.002969 | ±2.5 | PASS |
| 40(2305-2315) | 5MHz | 16QAM | 38725 | 25RB#0 | NV | -30 | -13.25 | -0.005742 | ±2.5 | PASS |
| 40(2305-2315) | 5MHz | 16QAM | 38725 | 25RB#0 | NV | -20 | -12.95 | -0.005612 | ±2.5 | PASS |
| 40(2305-2315) | 5MHz | 16QAM | 38725 | 25RB#0 | NV | -10 | -11.76 | -0.005096 | ±2.5 | PASS |
| 40(2305-2315) | 5MHz | 16QAM | 38725 | 25RB#0 | NV | 0 | -10.41 | -0.004511 | ±2.5 | PASS |
| 40(2305-2315) | 5MHz | 16QAM | 38725 | 25RB#0 | NV | 10 | 3.00 | 0.001300 | ±2.5 | PASS |
| 40(2305-2315) | 5MHz | 16QAM | 38725 | 25RB#0 | NV | 20 | -13.80 | -0.005980 | ±2.5 | PASS |
| 40(2305-2315) | 5MHz | 16QAM | 38725 | 25RB#0 | NV | 30 | -10.69 | -0.004633 | ±2.5 | PASS |
| 40(2305-2315) | 5MHz | 16QAM | 38725 | 25RB#0 | NV | 40 | 10.73 | 0.004650 | ±2.5 | PASS |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 40(2305 -2315) | 5MHz | 16QAM | 38725 | 25RB#0 | NV | 50 | -7.50 | -0.003250 | ±2.5 | PASS |
| 40(2305 -2315) | 5MHz | QPSK | 38750 | 25RB#0 | NV | -30 | -13.42 | -0.005810 | ±2.5 | PASS |
| 40(2305 -2315) | 5MHz | QPSK | 38750 | 25RB#0 | NV | -20 | -15.32 | -0.006632 | ±2.5 | PASS |
| 40(2305 -2315) | 5MHz | QPSK | 38750 | 25RB#0 | NV | -10 | -15.56 | -0.006736 | ±2.5 | PASS |
| 40(2305 -2315) | 5MHz | QPSK | 38750 | 25RB#0 | NV | 0 | -20.50 | -0.008874 | ±2.5 | PASS |
| 40(2305 -2315) | 5MHz | QPSK | 38750 | 25RB#0 | NV | 10 | -17.92 | -0.007758 | ±2.5 | PASS |
| 40(2305 -2315) | 5MHz | QPSK | 38750 | 25RB#0 | NV | 20 | -3.35 | -0.001450 | ±2.5 | PASS |
| 40(2305 -2315) | 5MHz | QPSK | 38750 | 25RB#0 | NV | 30 | -18.85 | -0.008160 | ±2.5 | PASS |
| 40(2305 -2315) | 5MHz | QPSK | 38750 | 25RB#0 | NV | 40 | -17.12 | -0.007411 | ±2.5 | PASS |
| 40(2305 -2315) | 5MHz | QPSK | 38750 | 25RB#0 | NV | 50 | -18.45 | -0.007987 | ±2.5 | PASS |
| 40(2305 -2315) | 5MHz | 16QAM | 38750 | 25RB#0 | NV | -30 | -16.54 | -0.007160 | ±2.5 | PASS |
| 40(2305 -2315) | 5MHz | 16QAM | 38750 | 25RB#0 | NV | -20 | -11.67 | -0.005052 | ±2.5 | PASS |
| 40(2305 -2315) | 5MHz | 16QAM | 38750 | 25RB#0 | NV | -10 | -14.32 | -0.006199 | ±2.5 | PASS |
| 40(2305 -2315) | 5MHz | 16QAM | 38750 | 25RB#0 | NV | 0 | -17.61 | -0.007623 | ±2.5 | PASS |
| 40(2305 -2315) | 5MHz | 16QAM | 38750 | 25RB#0 | NV | 10 | -13.49 | -0.005840 | ±2.5 | PASS |
| 40(2305 -2315) | 5MHz | 16QAM | 38750 | 25RB#0 | NV | 20 | -9.50 | -0.004113 | ±2.5 | PASS |
| 40(2305 -2315) | 5MHz | 16QAM | 38750 | 25RB#0 | NV | 30 | -17.55 | -0.007597 | ±2.5 | PASS |
| 40(2305 -2315) | 5MHz | 16QAM | 38750 | 25RB#0 | NV | 40 | -16.37 | -0.007087 | ±2.5 | PASS |
| 40(2305 -2315) | 5MHz | 16QAM | 38750 | 25RB#0 | NV | 50 | -14.62 | -0.006329 | ±2.5 | PASS |
| 40(2305 -2315) | 5MHz | QPSK | 38775 | 25RB#0 | NV | -30 | -17.24 | -0.007455 | ±2.5 | PASS |
| 40(2305 -2315) | 5MHz | QPSK | 38775 | 25RB#0 | NV | -20 | -16.39 | -0.007088 | ±2.5 | PASS |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 40(2305-2315) | 5MHz | QPSK | 38775 | 25RB#0 | NV | -10 | -7.22 | -0.003122 | ±2.5 | PASS |
| 40(2305-2315) | 5MHz | QPSK | 38775 | 25RB#0 | NV | 0 | -11.79 | -0.005098 | ±2.5 | PASS |
| 40(2305-2315) | 5MHz | QPSK | 38775 | 25RB#0 | NV | 10 | -15.62 | -0.006755 | ±2.5 | PASS |
| 40(2305-2315) | 5MHz | QPSK | 38775 | 25RB#0 | NV | 20 | 7.08 | 0.003062 | ±2.5 | PASS |
| 40(2305-2315) | 5MHz | QPSK | 38775 | 25RB#0 | NV | 30 | -4.39 | -0.001898 | ±2.5 | PASS |
| 40(2305-2315) | 5MHz | QPSK | 38775 | 25RB#0 | NV | 40 | -7.74 | -0.003347 | ±2.5 | PASS |
| 40(2305-2315) | 5MHz | QPSK | 38775 | 25RB#0 | NV | 50 | 7.32 | 0.003165 | ±2.5 | PASS |
| 40(2305-2315) | 5MHz | 16QAM | 38775 | 25RB#0 | NV | -30 | -20.36 | -0.008804 | ±2.5 | PASS |
| 40(2305-2315) | 5MHz | 16QAM | 38775 | 25RB#0 | NV | -20 | -11.37 | -0.004917 | ±2.5 | PASS |
| 40(2305-2315) | 5MHz | 16QAM | 38775 | 25RB#0 | NV | -10 | -14.19 | -0.006136 | ±2.5 | PASS |
| 40(2305-2315) | 5MHz | 16QAM | 38775 | 25RB#0 | NV | 0 | 3.08 | 0.001332 | ±2.5 | PASS |
| 40(2305-2315) | 5MHz | 16QAM | 38775 | 25RB#0 | NV | 10 | -13.90 | -0.006011 | ±2.5 | PASS |
| 40(2305-2315) | 5MHz | 16QAM | 38775 | 25RB#0 | NV | 20 | -14.23 | -0.006154 | ±2.5 | PASS |
| 40(2305-2315) | 5MHz | 16QAM | 38775 | 25RB#0 | NV | 30 | -12.60 | -0.005449 | ±2.5 | PASS |
| 40(2305-2315) | 5MHz | 16QAM | 38775 | 25RB#0 | NV | 40 | -6.67 | -0.002884 | ±2.5 | PASS |
| 40(2305-2315) | 5MHz | 16QAM | 38775 | 25RB#0 | NV | 50 | -14.69 | -0.006352 | ±2.5 | PASS |
| 40(2305-2315) | 10MHz | QPSK | 38750 | 50RB#0 | NV | -30 | -14.20 | -0.006147 | ±2.5 | PASS |
| 40(2305-2315) | 10MHz | QPSK | 38750 | 50RB#0 | NV | -20 | -4.94 | -0.002139 | ±2.5 | PASS |
| 40(2305-2315) | 10MHz | QPSK | 38750 | 50RB#0 | NV | -10 | -2.92 | -0.001264 | ±2.5 | PASS |
| 40(2305-2315) | 10MHz | QPSK | 38750 | 50RB#0 | NV | 0 | 6.41 | 0.002775 | ±2.5 | PASS |
| 40(2305-2315) | 10MHz | QPSK | 38750 | 50RB#0 | NV | 10 | -17.98 | -0.007784 | ±2.5 | PASS |

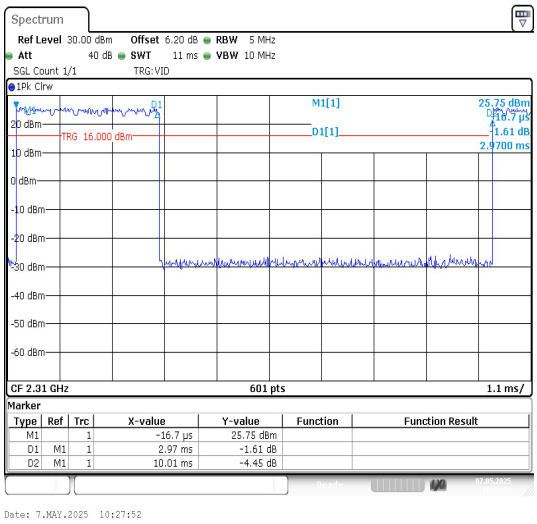
| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 40(2305-2315) | 10MHz | QPSK | 38750 | 50RB#0 | NV | 20 | -12.83 | -0.005554 | ±2.5 | PASS |
| 40(2305-2315) | 10MHz | QPSK | 38750 | 50RB#0 | NV | 30 | -10.53 | -0.004558 | ±2.5 | PASS |
| 40(2305-2315) | 10MHz | QPSK | 38750 | 50RB#0 | NV | 40 | -3.82 | -0.001654 | ±2.5 | PASS |
| 40(2305-2315) | 10MHz | QPSK | 38750 | 50RB#0 | NV | 50 | -15.92 | -0.006892 | ±2.5 | PASS |
| 40(2305-2315) | 10MHz | 16QAM | 38750 | 50RB#0 | NV | -30 | -18.34 | -0.007939 | ±2.5 | PASS |
| 40(2305-2315) | 10MHz | 16QAM | 38750 | 50RB#0 | NV | -20 | -12.56 | -0.005437 | ±2.5 | PASS |
| 40(2305-2315) | 10MHz | 16QAM | 38750 | 50RB#0 | NV | -10 | -11.99 | -0.005190 | ±2.5 | PASS |
| 40(2305-2315) | 10MHz | 16QAM | 38750 | 50RB#0 | NV | 0 | -14.61 | -0.006325 | ±2.5 | PASS |
| 40(2305-2315) | 10MHz | 16QAM | 38750 | 50RB#0 | NV | 10 | -11.20 | -0.004848 | ±2.5 | PASS |
| 40(2305-2315) | 10MHz | 16QAM | 38750 | 50RB#0 | NV | 20 | -14.02 | -0.006069 | ±2.5 | PASS |
| 40(2305-2315) | 10MHz | 16QAM | 38750 | 50RB#0 | NV | 30 | -19.30 | -0.008355 | ±2.5 | PASS |
| 40(2305-2315) | 10MHz | 16QAM | 38750 | 50RB#0 | NV | 40 | -7.87 | -0.003407 | ±2.5 | PASS |
| 40(2305-2315) | 10MHz | 16QAM | 38750 | 50RB#0 | NV | 50 | -14.58 | -0.006312 | ±2.5 | PASS |

# Appendix G: Duty Cycle

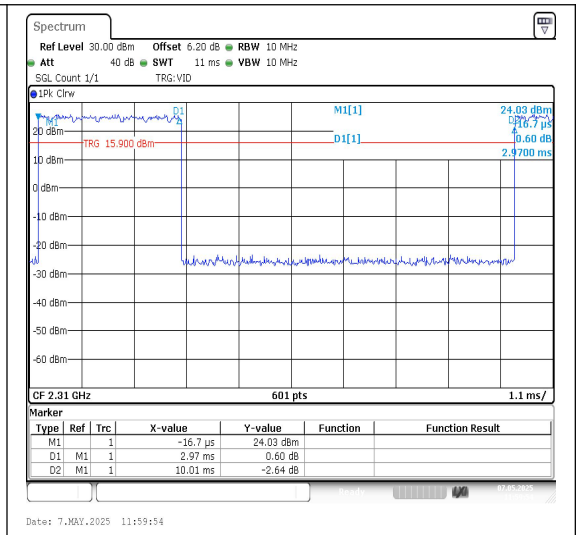
## Test Result

| Band | Bandwidth | Channel | Transmission Duration [ms] | Transmission Period [ms] | Duty Cycle [%] | Limit[%] | Verdict |
|---|---|---|---|---|---|---|---|
| 40(2305-2315) | 5MHz | 38750 | 2.97 | 10.01 | 29.67 | <38 | PASS |
| 40(2305-2315) | 10MHz | 38750 | 2.97 | 10.01 | 29.67 | <38 | PASS |

## Test Graphs




40(2305-2315)-5MHz-QPSK-38750-25RB#0-PASS




40(2305-2315)-10MHz-QPSK-38750-50RB#0-PASS