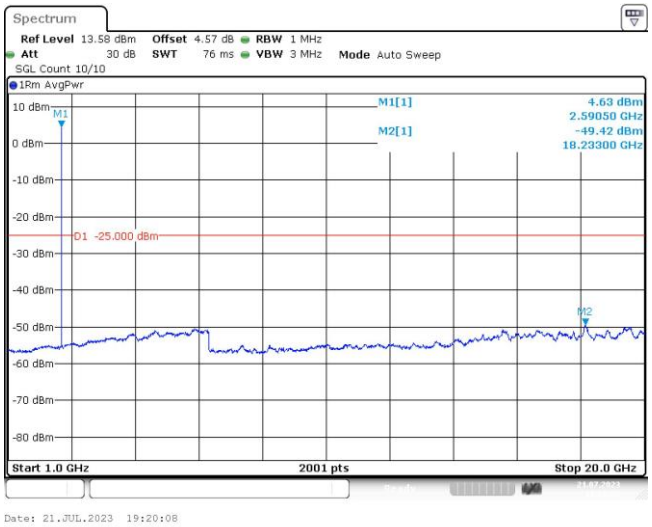
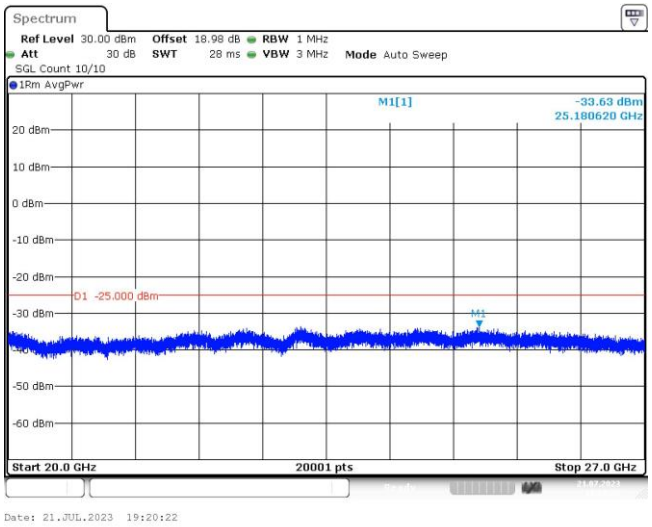
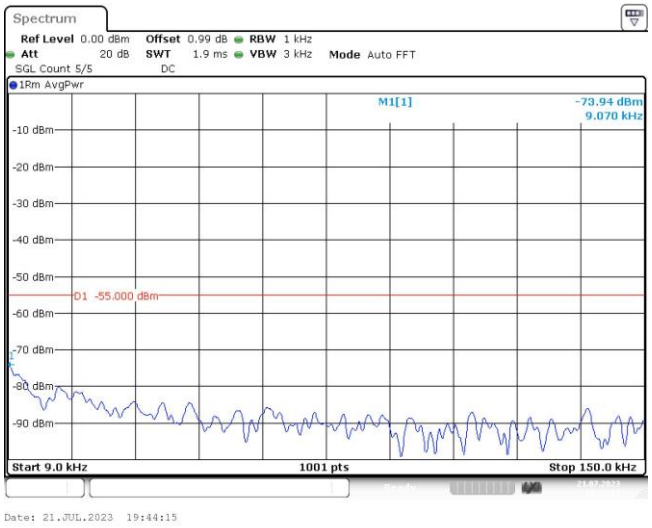


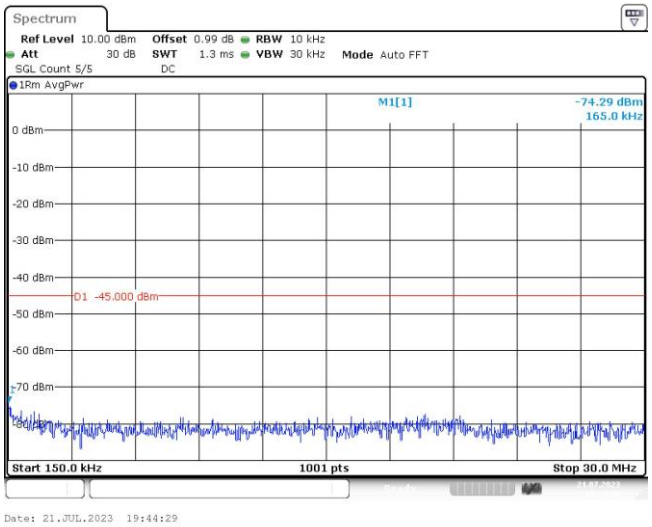

38-38-20MHz-20MHz-64QAM-64QAM-37901-38099-1RB#99-0RB#0-20000~27000MHz



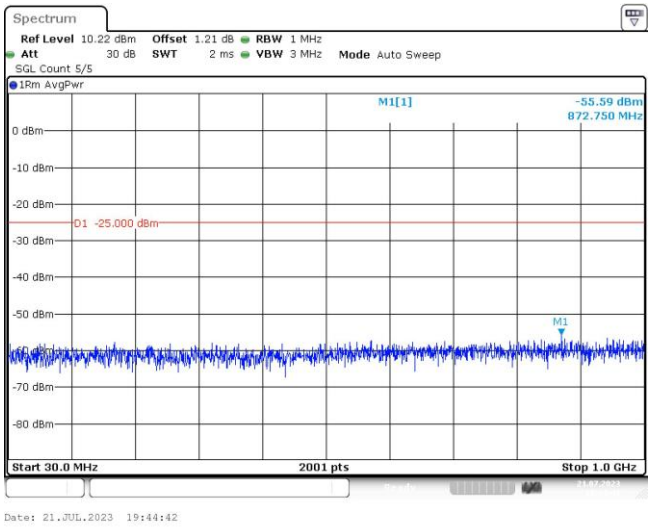

38-38-20MHz-20MHz-64QAM-64QAM-37952-38150-100RB#0-100RB#0-0.009~0.15MHz



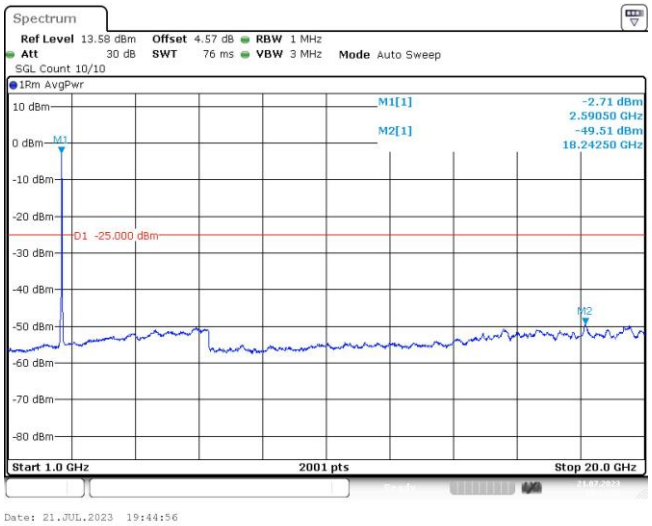

38-38-20MHz-20MHz-64QAM-64QAM-37952-38150-100RB#0-100RB#0-0.15~30MHz



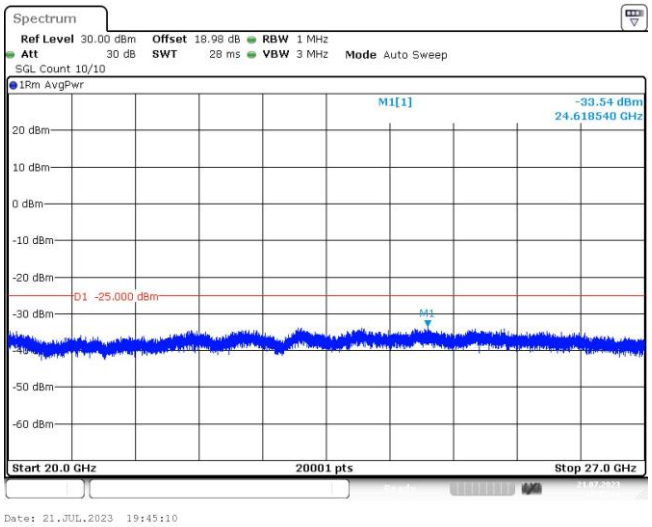

38-38-20MHz-20MHz-64QAM-64QAM-37952-38150-100RB#0-100RB#0-30~1000MHz



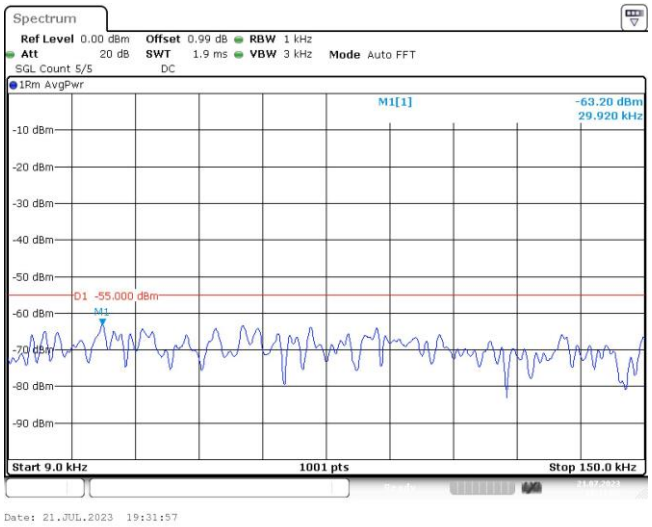

38-38-20MHz-20MHz-64QAM-64QAM-37952-38150-100RB#0-100RB#0-1000~20000MHz



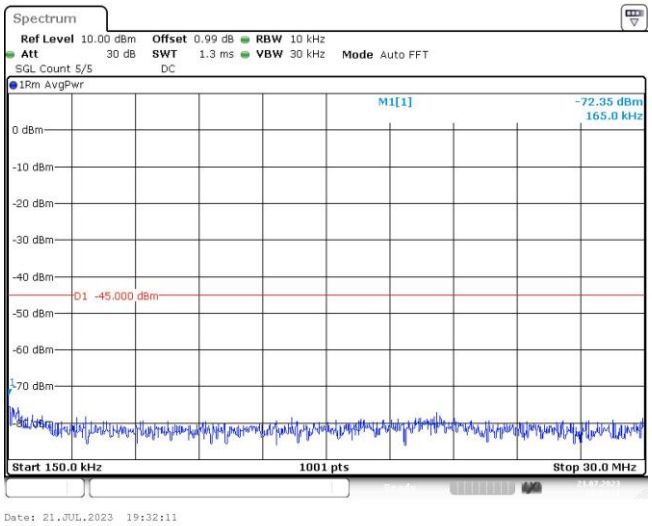

38-38-20MHz-20MHz-64QAM-64QAM-37952-38150-100RB#0-100RB#0-20000~27000MHz



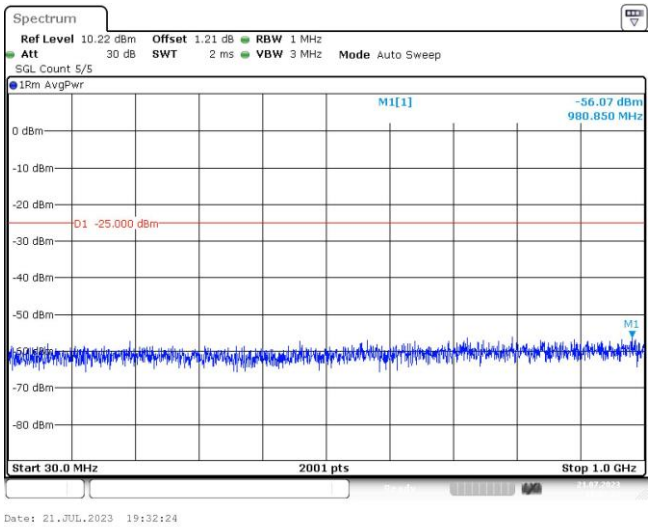

38-38-20MHz-20MHz-64QAM-64QAM-37952-38150-1RB#0-0RB#0-0.009~0.15MHz



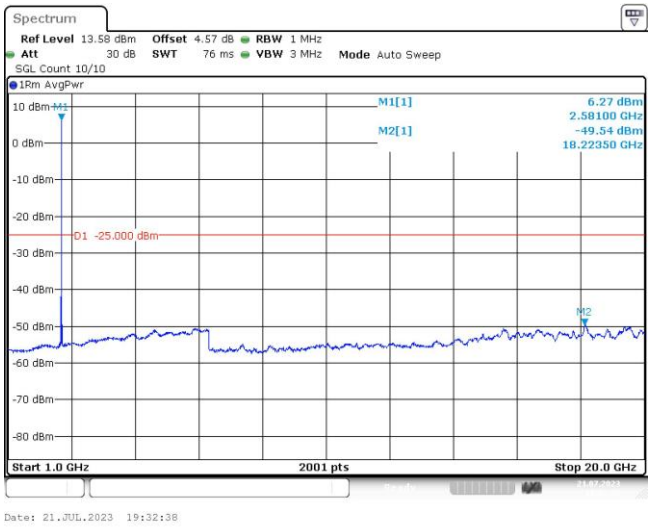

38-38-20MHz-20MHz-64QAM-64QAM-37952-38150-1RB#0-0RB#0-0.15~30MHz



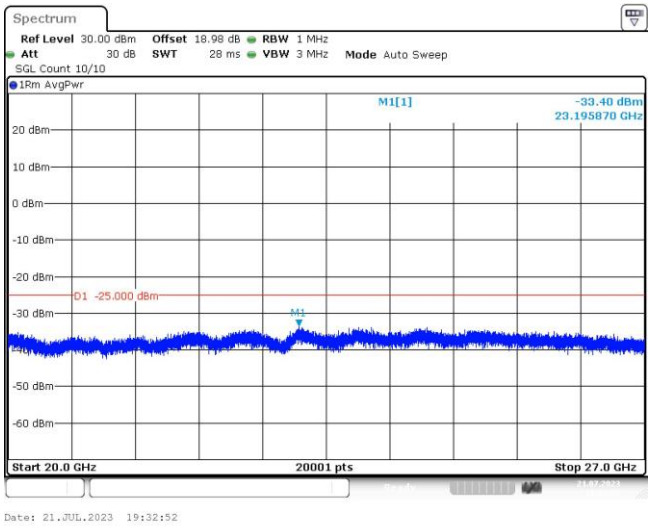

38-38-20MHz-20MHz-64QAM-64QAM-37952-38150-1RB#0-0RB#0-30~1000MHz



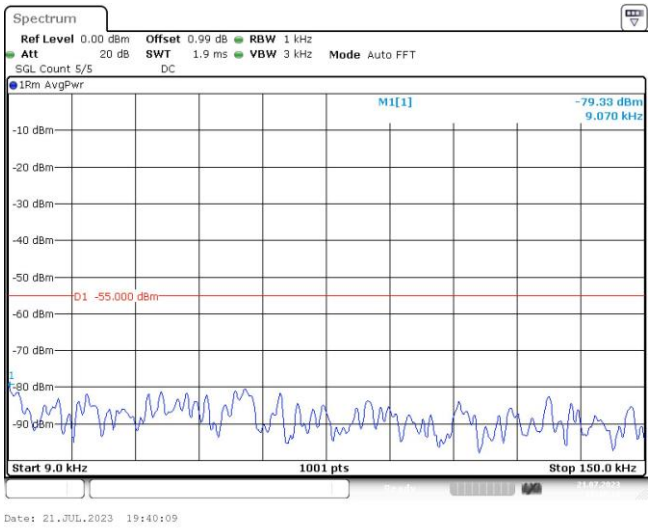

38-38-20MHz-20MHz-64QAM-64QAM-37952-38150-1RB#0-0RB#0-1000~20000MHz



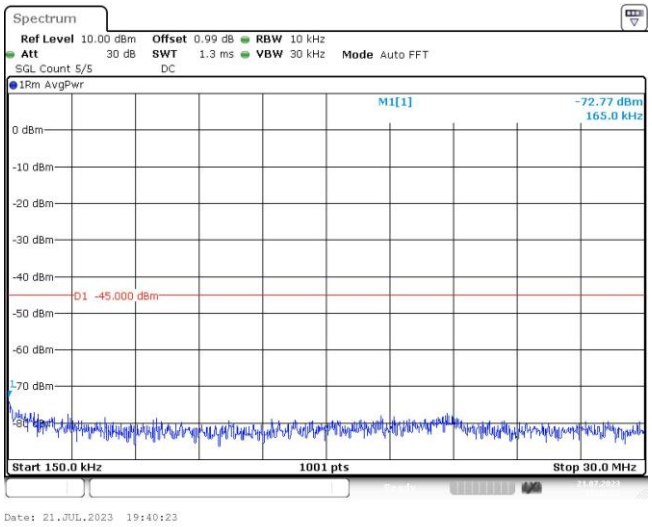

38-38-20MHz-20MHz-64QAM-64QAM-37952-38150-1RB#0-0RB#0-20000~27000MHz



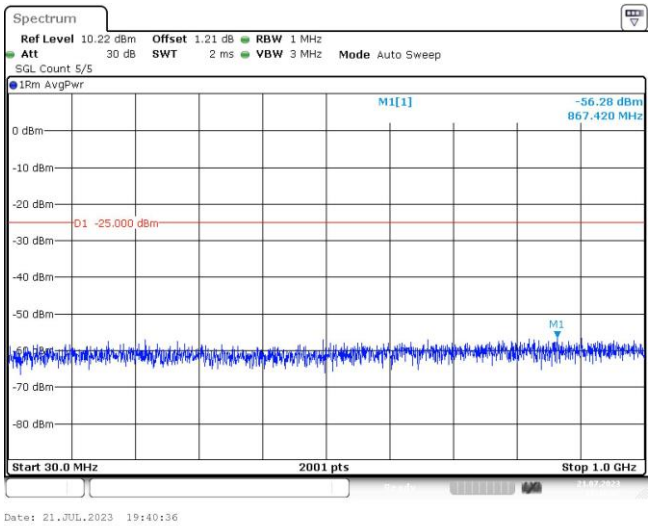

38-38-20MHz-20MHz-64QAM-64QAM-37952-38150-1RB#0-1RB#99-0.009~0.15MHz



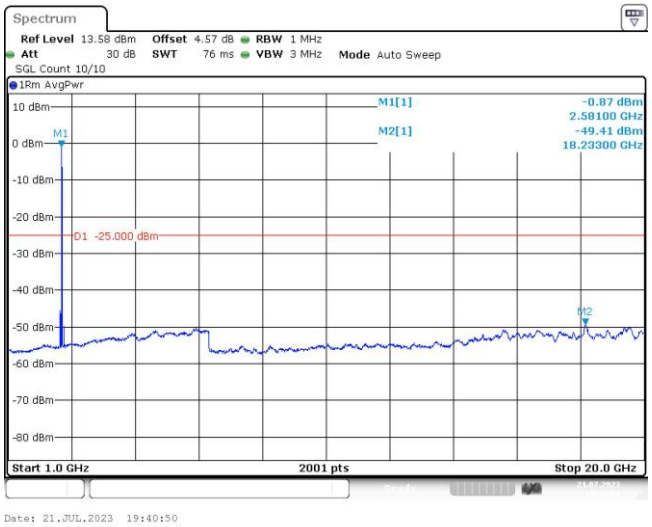

38-38-20MHz-20MHz-64QAM-64QAM-37952-38150-1RB#0-1RB#99-0.15~30MHz



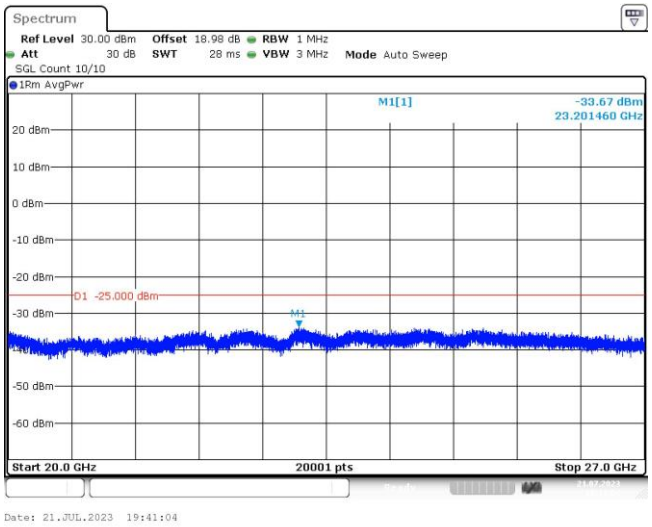

38-38-20MHz-20MHz-64QAM-64QAM-37952-38150-1RB#0-1RB#99-30~1000MHz



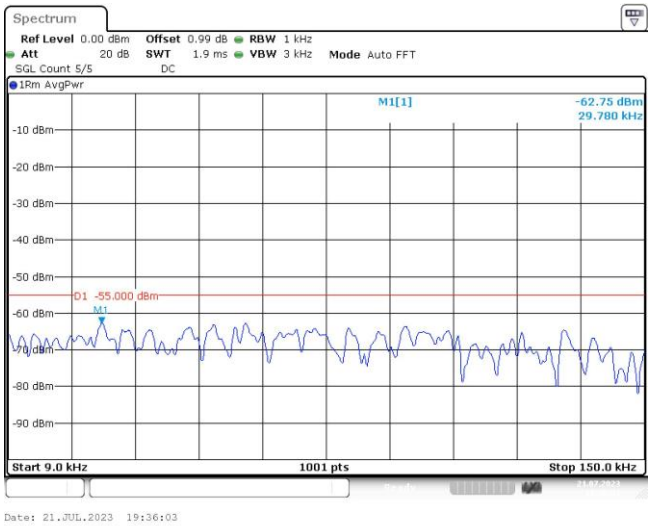

38-38-20MHz-20MHz-64QAM-64QAM-37952-38150-1RB#0-1RB#99-1000~20000MHz



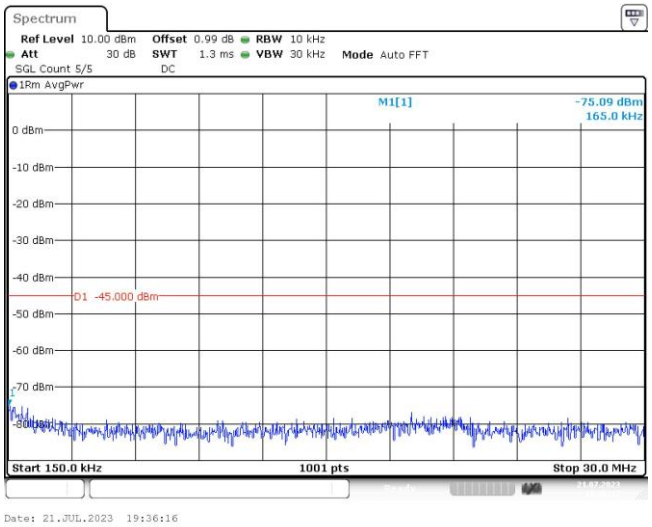

38-38-20MHz-20MHz-64QAM-64QAM-37952-38150-1RB#0-1RB#99-20000~27000MHz



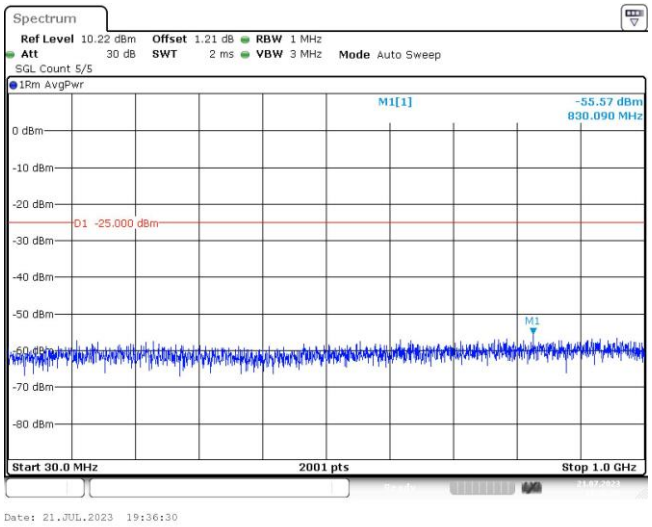

38-38-20MHz-20MHz-64QAM-64QAM-37952-38150-1RB#99-0RB#0-0.009~0.15MHz



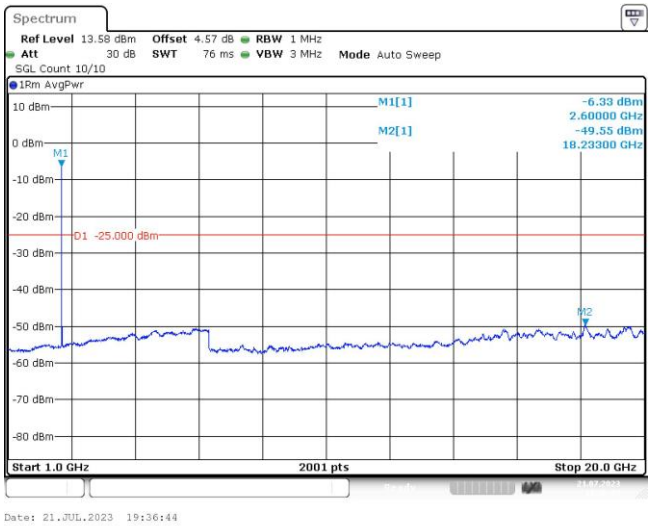

38-38-20MHz-20MHz-64QAM-64QAM-37952-38150-1RB#99-0RB#0-0.15~30MHz



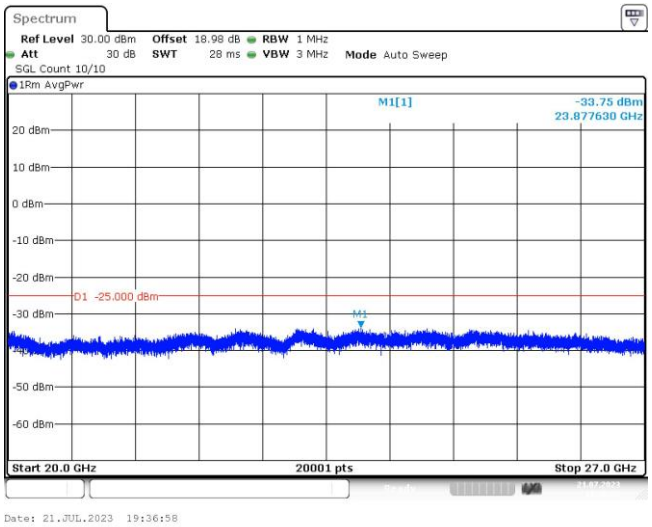

38-38-20MHz-20MHz-64QAM-64QAM-37952-38150-1RB#99-0RB#0-30~1000MHz




38-38-20MHz-20MHz-64QAM-64QAM-37952-38150-1RB#99-0RB#0-1000~20000MHz




38-38-20MHz-20MHz-64QAM-64QAM-37952-38150-1RB#99-0RB#0-20000~27000MHz


Spectrum
Ref Level 30.00 dBm Offset 18.98 dB RBW 1 MHz
Att 30 dB SWT 28 ms VBW 3 MHz Mode Auto Sweep
SGL Count 10/10
1Rm AvgPwr
M1[1] -33.75 dBm
23.877630 GHz
20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
D1 -25.000 dBm
-30 dBm
M1
-50 dBm
-60 dBm
Start 20.0 GHz
20001 pts
Stop 27.0 GHz
Date: 21.JUL.2023 19:36:58

# Appendix F: Frequency Stability

## Test Result

| Voltage | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Band | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| 38-38 | 15MHz-15MHz | QPSK-QPSK | 37825-37975 | 75RB#0-75RB#0 | VL | NT | 19.54 | 0.007581 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | QPSK-QPSK | 37825-37975 | 75RB#0-75RB#0 | VH | NT | 21.04 | 0.008163 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | QPSK-QPSK | 37825-37975 | 75RB#0-75RB#0 | VN | NT | 19.94 | 0.007736 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | QPSK-QPSK | 37925-38075 | 75RB#0-75RB#0 | VN | NT | 18.78 | 0.007258 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | QPSK-QPSK | 37925-38075 | 75RB#0-75RB#0 | VL | NT | 15.74 | 0.006083 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | QPSK-QPSK | 37925-38075 | 75RB#0-75RB#0 | VH | NT | 20.50 | 0.007923 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | QPSK-QPSK | 38025-38175 | 75RB#0-75RB#0 | VH | NT | 21.07 | 0.008112 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | QPSK-QPSK | 38025-38175 | 75RB#0-75RB#0 | VL | NT | 17.54 | 0.006753 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | QPSK-QPSK | 38025-38175 | 75RB#0-75RB#0 | VN | NT | 19.17 | 0.007380 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | 16QAM-16QAM | 37825-37975 | 75RB#0-75RB#0 | VN | NT | 17.41 | 0.006755 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | 16QAM-16QAM | 37825-37975 | 75RB#0-75RB#0 | VL | NT | 16.55 | 0.006421 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | 16QAM-16QA | 37825-3797 | 75RB#0-75RB#0 | VH | NT | 19.63 | 0.007616 | ±2.5 | PASS |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | M | 5 | | | | | | | |
| 38-38 | 15MHz-15MHz | 16QAM-16QAM | 37925-38075 | 75RB#0-75RB#0 | VN | NT | 19.33 | 0.007471 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | 16QAM-16QAM | 37925-38075 | 75RB#0-75RB#0 | VL | NT | 21.49 | 0.008305 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | 16QAM-16QAM | 37925-38075 | 75RB#0-75RB#0 | VH | NT | 19.80 | 0.007652 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | 16QAM-16QAM | 38025-38175 | 75RB#0-75RB#0 | VN | NT | 18.68 | 0.007192 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | 16QAM-16QAM | 38025-38175 | 75RB#0-75RB#0 | VL | NT | 16.28 | 0.006268 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | 16QAM-16QAM | 38025-38175 | 75RB#0-75RB#0 | VH | NT | 21.84 | 0.008408 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | 64QAM-64QAM | 37825-37975 | 75RB#0-75RB#0 | VH | NT | 17.08 | 0.006627 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | 64QAM-64QAM | 37825-37975 | 75RB#0-75RB#0 | VL | NT | 18.32 | 0.007108 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | 64QAM-64QAM | 37825-37975 | 75RB#0-75RB#0 | VN | NT | 14.22 | 0.005517 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | 64QAM-64QAM | 37925-38075 | 75RB#0-75RB#0 | VN | NT | 18.38 | 0.007103 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | 64QAM-64QAM | 37925-38075 | 75RB#0-75RB#0 | VL | NT | 17.92 | 0.006926 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | 64QAM-64QAM | 37925-38075 | 75RB#0-75RB#0 | VH | NT | 18.28 | 0.007065 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | 64QAM-64QAM | 38025-38175 | 75RB#0-75RB#0 | VL | NT | 19.40 | 0.007469 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | 64QAM-64QAM | 38025-38175 | 75RB#0-75RB#0 | VH | NT | 20.14 | 0.007754 | ±2.5 | PASS |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 38-38 | 15MHz-15MHz | 64QAM-64QAM | 38025-38175 | 75RB#0-75RB#0 | VN | NT | 15.92 | 0.006129 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | QPSK-QPSK | 37850-38048 | 100RB#0-100RB#0 | VL | NT | 20.61 | 0.007988 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | QPSK-QPSK | 37850-38048 | 100RB#0-100RB#0 | VH | NT | 22.80 | 0.008837 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | QPSK-QPSK | 37850-38048 | 100RB#0-100RB#0 | VN | NT | 20.90 | 0.008101 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | QPSK-QPSK | 37901-38099 | 100RB#0-100RB#0 | VN | NT | 21.93 | 0.008483 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | QPSK-QPSK | 37901-38099 | 100RB#0-100RB#0 | VL | NT | 20.47 | 0.007918 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | QPSK-QPSK | 37901-38099 | 100RB#0-100RB#0 | VH | NT | 21.46 | 0.008301 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | QPSK-QPSK | 37952-38150 | 100RB#0-100RB#0 | VH | NT | 21.74 | 0.008393 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | QPSK-QPSK | 37952-38150 | 100RB#0-100RB#0 | VL | NT | 26.55 | 0.010250 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | QPSK-QPSK | 37952-38150 | 100RB#0-100RB#0 | VN | NT | 22.96 | 0.008864 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 16QAM-16QAM | 37850-38048 | 100RB#0-100RB#0 | VN | NT | 20.10 | 0.007791 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 16QAM-16QAM | 37850-38048 | 100RB#0-100RB#0 | VL | NT | 22.97 | 0.008903 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 16QAM-16QAM | 37850-38048 | 100RB#0-100RB#0 | VH | NT | 21.01 | 0.008143 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 16QAM-16QAM | 37901-38099 | 100RB#0-100RB#0 | VN | NT | 20.84 | 0.008062 | ±2.5 | PASS |
| 38-38 | 20MHz- | 16QAM | 37901 | 100RB#0 | VL | NT | 24.33 | 0.009412 | ±2.5 | PASS |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 20MHz | -16QAM | -38099 | -100RB#0 | | | | | | |
| 38-38 | 20MHz-20MHz | 16QAM-16QAM | 37901-38099 | 100RB#0-100RB#0 | VH | NT | 22.40 | 0.008665 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 16QAM-16QAM | 37952-38150 | 100RB#0-100RB#0 | VN | NT | 20.89 | 0.008065 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 16QAM-16QAM | 37952-38150 | 100RB#0-100RB#0 | VL | NT | 25.23 | 0.009741 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 16QAM-16QAM | 37952-38150 | 100RB#0-100RB#0 | VH | NT | 22.87 | 0.008829 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 64QAM-64QAM | 37850-38048 | 100RB#0-100RB#0 | VH | NT | 22.72 | 0.008806 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 64QAM-64QAM | 37850-38048 | 100RB#0-100RB#0 | VL | NT | 22.70 | 0.008798 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 64QAM-64QAM | 37850-38048 | 100RB#0-100RB#0 | VN | NT | 20.81 | 0.008066 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 64QAM-64QAM | 37901-38099 | 100RB#0-100RB#0 | VN | NT | 20.51 | 0.007934 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 64QAM-64QAM | 37901-38099 | 100RB#0-100RB#0 | VL | NT | 24.98 | 0.009663 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 64QAM-64QAM | 37901-38099 | 100RB#0-100RB#0 | VH | NT | 20.38 | 0.007884 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 64QAM-64QAM | 37952-38150 | 100RB#0-100RB#0 | VH | NT | 23.59 | 0.009107 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 64QAM-64QAM | 37952-38150 | 100RB#0-100RB#0 | VN | NT | 21.76 | 0.008401 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 64QAM-64QAM | 37952-38150 | 100RB#0-100RB#0 | VL | NT | 22.39 | 0.008644 | ±2.5 | PASS |

| Temperature | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Band | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| 38-38 | 15MHz-15MHz | QPSK-QPSK | 37825-37975 | 75RB#0-75RB#0 | NV | -30 | 17.34 | 0.006727 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | QPSK-QPSK | 37825-37975 | 75RB#0-75RB#0 | NV | -20 | 21.51 | 0.008345 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | QPSK-QPSK | 37825-37975 | 75RB#0-75RB#0 | NV | -10 | 21.82 | 0.008466 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | QPSK-QPSK | 37825-37975 | 75RB#0-75RB#0 | NV | 0 | 20.13 | 0.007810 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | QPSK-QPSK | 37825-37975 | 75RB#0-75RB#0 | NV | 10 | 17.97 | 0.006972 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | QPSK-QPSK | 37825-37975 | 75RB#0-75RB#0 | NV | 20 | 19.37 | 0.007515 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | QPSK-QPSK | 37825-37975 | 75RB#0-75RB#0 | NV | 30 | 20.34 | 0.007891 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | QPSK-QPSK | 37825-37975 | 75RB#0-75RB#0 | NV | -50 | 18.58 | 0.007209 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | QPSK-QPSK | 37925-38075 | 75RB#0-75RB#0 | NV | 30 | 17.90 | 0.006918 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | QPSK-QPSK | 37925-38075 | 75RB#0-75RB#0 | NV | -50 | 19.84 | 0.007668 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | QPSK-QPSK | 37925-38075 | 75RB#0-75RB#0 | NV | -30 | 24.39 | 0.009426 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | QPSK-QPSK | 37925-38075 | 75RB#0-75RB#0 | NV | -20 | 21.00 | 0.008116 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | QPSK-QPSK | 37925-38075 | 75RB#0-75RB#0 | NV | -10 | 17.28 | 0.006678 | ±2.5 | PASS |
| 38-38 | 15MHz- | QPSK- | 37925 | 75RB#0- | NV | 0 | 16.42 | 0.006346 | ±2.5 | PASS |

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|---|---|---|---|---|---|---|---|---|---|---|
| | 15MHz | QPSK | -3807<br>5 | 75RB#0 | | | | | | |
| 38-38 | 15MHz-<br>15MHz | QPSK-<br>QPSK | 37925<br>-3807<br>5 | 75RB#0-<br>75RB#0 | NV | 20 | 18.87 | 0.007293 | ±2.5 | PASS |
| 38-38 | 15MHz-<br>15MHz | QPSK-<br>QPSK | 37925<br>-3807<br>5 | 75RB#0-<br>75RB#0 | NV | 10 | 21.77 | 0.008414 | ±2.5 | PASS |
| 38-38 | 15MHz-<br>15MHz | QPSK-<br>QPSK | 38025<br>-3817<br>5 | 75RB#0-<br>75RB#0 | NV | -10 | 21.50 | 0.008277 | ±2.5 | PASS |
| 38-38 | 15MHz-<br>15MHz | QPSK-<br>QPSK | 38025<br>-3817<br>5 | 75RB#0-<br>75RB#0 | NV | 30 | 18.45 | 0.007103 | ±2.5 | PASS |
| 38-38 | 15MHz-<br>15MHz | QPSK-<br>QPSK | 38025<br>-3817<br>5 | 75RB#0-<br>75RB#0 | NV | -50 | 20.46 | 0.007877 | ±2.5 | PASS |
| 38-38 | 15MHz-<br>15MHz | QPSK-<br>QPSK | 38025<br>-3817<br>5 | 75RB#0-<br>75RB#0 | NV | -30 | 20.51 | 0.007896 | ±2.5 | PASS |
| 38-38 | 15MHz-<br>15MHz | QPSK-<br>QPSK | 38025<br>-3817<br>5 | 75RB#0-<br>75RB#0 | NV | -20 | 19.88 | 0.007654 | ±2.5 | PASS |
| 38-38 | 15MHz-<br>15MHz | QPSK-<br>QPSK | 38025<br>-3817<br>5 | 75RB#0-<br>75RB#0 | NV | 0 | 20.37 | 0.007842 | ±2.5 | PASS |
| 38-38 | 15MHz-<br>15MHz | QPSK-<br>QPSK | 38025<br>-3817<br>5 | 75RB#0-<br>75RB#0 | NV | 20 | 19.61 | 0.007550 | ±2.5 | PASS |
| 38-38 | 15MHz-<br>15MHz | QPSK-<br>QPSK | 38025<br>-3817<br>5 | 75RB#0-<br>75RB#0 | NV | 10 | 17.58 | 0.006768 | ±2.5 | PASS |
| 38-38 | 15MHz-<br>15MHz | 16QAM<br>-16QA<br>M | 37825<br>-3797<br>5 | 75RB#0-<br>75RB#0 | NV | 30 | 17.58 | 0.006821 | ±2.5 | PASS |
| 38-38 | 15MHz-<br>15MHz | 16QAM<br>-16QA<br>M | 37825<br>-3797<br>5 | 75RB#0-<br>75RB#0 | NV | 20 | 21.24 | 0.008241 | ±2.5 | PASS |
| 38-38 | 15MHz-<br>15MHz | 16QAM<br>-16QA<br>M | 37825<br>-3797<br>5 | 75RB#0-<br>75RB#0 | NV | 10 | 18.42 | 0.007146 | ±2.5 | PASS |
| 38-38 | 15MHz-<br>15MHz | 16QAM<br>-16QA | 37825<br>-3797 | 75RB#0-<br>75RB#0 | NV | 0 | 17.64 | 0.006844 | ±2.5 | PASS |

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|---|---|---|---|---|---|---|---|---|---|---|
| | | M | 5 | | | | | | | |
| 38-38 | 15MHz-15MHz | 16QAM-16QAM | 37825-37975 | 75RB#0-75RB#0 | NV | -10 | 19.40 | 0.007527 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | 16QAM-16QAM | 37825-37975 | 75RB#0-75RB#0 | NV | -20 | 19.08 | 0.007403 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | 16QAM-16QAM | 37825-37975 | 75RB#0-75RB#0 | NV | -30 | 21.66 | 0.008403 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | 16QAM-16QAM | 37825-37975 | 75RB#0-75RB#0 | NV | -50 | 18.15 | 0.007042 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | 16QAM-16QAM | 37925-38075 | 75RB#0-75RB#0 | NV | 0 | 16.99 | 0.006566 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | 16QAM-16QAM | 37925-38075 | 75RB#0-75RB#0 | NV | -10 | 19.58 | 0.007567 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | 16QAM-16QAM | 37925-38075 | 75RB#0-75RB#0 | NV | 30 | 23.05 | 0.008908 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | 16QAM-16QAM | 37925-38075 | 75RB#0-75RB#0 | NV | 20 | 18.91 | 0.007308 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | 16QAM-16QAM | 37925-38075 | 75RB#0-75RB#0 | NV | 10 | 24.73 | 0.009557 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | 16QAM-16QAM | 37925-38075 | 75RB#0-75RB#0 | NV | -20 | 23.42 | 0.009051 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | 16QAM-16QAM | 37925-38075 | 75RB#0-75RB#0 | NV | -30 | 22.09 | 0.008537 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | 16QAM-16QAM | 37925-38075 | 75RB#0-75RB#0 | NV | -50 | 18.60 | 0.007188 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | 16QAM-16QAM | 38025-38175 | 75RB#0-75RB#0 | NV | 0 | 20.47 | 0.007881 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | 16QAM-16QAM | 38025-38175 | 75RB#0-75RB#0 | NV | -50 | 18.73 | 0.007211 | ±2.5 | PASS |

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|---|---|---|---|---|---|---|---|---|---|---|
| 38-38 | 15MHz-15MHz | 16QAM-16QAM | 38025-38175 | 75RB#0-75RB#0 | NV | -30 | 17.91 | 0.006895 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | 16QAM-16QAM | 38025-38175 | 75RB#0-75RB#0 | NV | -10 | 24.25 | 0.009336 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | 16QAM-16QAM | 38025-38175 | 75RB#0-75RB#0 | NV | 10 | 22.04 | 0.008485 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | 16QAM-16QAM | 38025-38175 | 75RB#0-75RB#0 | NV | 20 | 19.40 | 0.007469 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | 16QAM-16QAM | 38025-38175 | 75RB#0-75RB#0 | NV | 30 | 22.03 | 0.008481 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | 16QAM-16QAM | 38025-38175 | 75RB#0-75RB#0 | NV | -20 | 17.94 | 0.006907 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | 64QAM-64QAM | 37825-37975 | 75RB#0-75RB#0 | NV | -10 | 21.36 | 0.008287 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | 64QAM-64QAM | 37825-37975 | 75RB#0-75RB#0 | NV | 0 | 20.91 | 0.008113 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | 64QAM-64QAM | 37825-37975 | 75RB#0-75RB#0 | NV | -50 | 19.21 | 0.007453 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | 64QAM-64QAM | 37825-37975 | 75RB#0-75RB#0 | NV | -20 | 21.60 | 0.008380 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | 64QAM-64QAM | 37825-37975 | 75RB#0-75RB#0 | NV | -30 | 16.18 | 0.006277 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | 64QAM-64QAM | 37825-37975 | 75RB#0-75RB#0 | NV | 20 | 20.30 | 0.007876 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | 64QAM-64QAM | 37825-37975 | 75RB#0-75RB#0 | NV | 30 | 18.65 | 0.007236 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | 64QAM-64QAM | 37825-37975 | 75RB#0-75RB#0 | NV | 10 | 21.17 | 0.008213 | ±2.5 | PASS |
| 38-38 | 15MHz- | 64QAM | 37925 | 75RB#0- | NV | -20 | 19.64 | 0.007590 | ±2.5 | PASS |

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|---|---|---|---|---|---|---|---|---|---|---|
| | 15MHz | -64QAM | -38075 | 75RB#0 | | | | | | |
| 38-38 | 15MHz-15MHz | 64QAM-64QAM | 37925-38075 | 75RB#0-75RB#0 | NV | -30 | 18.51 | 0.007154 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | 64QAM-64QAM | 37925-38075 | 75RB#0-75RB#0 | NV | -10 | 22.23 | 0.008591 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | 64QAM-64QAM | 37925-38075 | 75RB#0-75RB#0 | NV | 0 | 20.77 | 0.008027 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | 64QAM-64QAM | 37925-38075 | 75RB#0-75RB#0 | NV | 10 | 23.03 | 0.008900 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | 64QAM-64QAM | 37925-38075 | 75RB#0-75RB#0 | NV | 20 | 21.23 | 0.008205 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | 64QAM-64QAM | 37925-38075 | 75RB#0-75RB#0 | NV | 30 | 17.78 | 0.006871 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | 64QAM-64QAM | 37925-38075 | 75RB#0-75RB#0 | NV | -50 | 17.98 | 0.006949 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | 64QAM-64QAM | 38025-38175 | 75RB#0-75RB#0 | NV | 30 | 17.47 | 0.006726 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | 64QAM-64QAM | 38025-38175 | 75RB#0-75RB#0 | NV | -50 | 19.04 | 0.007330 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | 64QAM-64QAM | 38025-38175 | 75RB#0-75RB#0 | NV | -30 | 20.51 | 0.007896 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | 64QAM-64QAM | 38025-38175 | 75RB#0-75RB#0 | NV | -20 | 17.95 | 0.006910 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | 64QAM-64QAM | 38025-38175 | 75RB#0-75RB#0 | NV | -10 | 21.84 | 0.008408 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | 64QAM-64QAM | 38025-38175 | 75RB#0-75RB#0 | NV | 0 | 19.18 | 0.007384 | ±2.5 | PASS |
| 38-38 | 15MHz-15MHz | 64QAM-64QA | 38025-3817 | 75RB#0-75RB#0 | NV | 10 | 19.74 | 0.007600 | ±2.5 | PASS |

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| | | M | 5 | | | | | | | |
| 38-38 | 15MHz-15MHz | 64QAM-64QAM | 38025-38175 | 75RB#0-75RB#0 | NV | 20 | 17.85 | 0.006872 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | QPSK-QPSK | 37850-38048 | 100RB#0-100RB#0 | NV | -30 | 20.79 | 0.008058 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | QPSK-QPSK | 37850-38048 | 100RB#0-100RB#0 | NV | -20 | 20.79 | 0.008058 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | QPSK-QPSK | 37850-38048 | 100RB#0-100RB#0 | NV | -10 | 24.60 | 0.009535 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | QPSK-QPSK | 37850-38048 | 100RB#0-100RB#0 | NV | 0 | 23.17 | 0.008981 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | QPSK-QPSK | 37850-38048 | 100RB#0-100RB#0 | NV | 10 | 21.26 | 0.008240 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | QPSK-QPSK | 37850-38048 | 100RB#0-100RB#0 | NV | 20 | 24.10 | 0.009341 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | QPSK-QPSK | 37850-38048 | 100RB#0-100RB#0 | NV | 30 | 21.90 | 0.008488 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | QPSK-QPSK | 37850-38048 | 100RB#0-100RB#0 | NV | -50 | 19.86 | 0.007698 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | QPSK-QPSK | 37901-38099 | 100RB#0-100RB#0 | NV | 30 | 22.66 | 0.008766 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | QPSK-QPSK | 37901-38099 | 100RB#0-100RB#0 | NV | -50 | 20.96 | 0.008108 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | QPSK-QPSK | 37901-38099 | 100RB#0-100RB#0 | NV | -30 | 20.93 | 0.008096 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | QPSK-QPSK | 37901-38099 | 100RB#0-100RB#0 | NV | -20 | 23.89 | 0.009241 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | QPSK-QPSK | 37901-38099 | 100RB#0-100RB#0 | NV | -10 | 20.89 | 0.008081 | ±2.5 | PASS |

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|---|---|---|---|---|---|---|---|---|---|---|
| 38-38 | 20MHz-20MHz | QPSK-QPSK | 37901-38099 | 100RB#0-100RB#0 | NV | 0 | 26.51 | 0.010255 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | QPSK-QPSK | 37901-38099 | 100RB#0-100RB#0 | NV | 20 | 22.34 | 0.008642 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | QPSK-QPSK | 37901-38099 | 100RB#0-100RB#0 | NV | 10 | 26.45 | 0.010232 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | QPSK-QPSK | 37952-38150 | 100RB#0-100RB#0 | NV | -20 | 25.26 | 0.009752 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | QPSK-QPSK | 37952-38150 | 100RB#0-100RB#0 | NV | 20 | 25.81 | 0.009964 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | QPSK-QPSK | 37952-38150 | 100RB#0-100RB#0 | NV | -50 | 23.06 | 0.008903 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | QPSK-QPSK | 37952-38150 | 100RB#0-100RB#0 | NV | -30 | 22.24 | 0.008586 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | QPSK-QPSK | 37952-38150 | 100RB#0-100RB#0 | NV | 10 | 25.18 | 0.009721 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | QPSK-QPSK | 37952-38150 | 100RB#0-100RB#0 | NV | 30 | 23.86 | 0.009212 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | QPSK-QPSK | 37952-38150 | 100RB#0-100RB#0 | NV | 0 | 21.60 | 0.008339 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | QPSK-QPSK | 37952-38150 | 100RB#0-100RB#0 | NV | -10 | 24.22 | 0.009351 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 16QAM-16QAM | 37850-38048 | 100RB#0-100RB#0 | NV | 10 | 22.76 | 0.008822 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 16QAM-16QAM | 37850-38048 | 100RB#0-100RB#0 | NV | -50 | 21.21 | 0.008221 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 16QAM-16QAM | 37850-38048 | 100RB#0-100RB#0 | NV | -30 | 25.15 | 0.009748 | ±2.5 | PASS |
| 38-38 | 20MHz- | 16QAM | 37850 | 100RB#0 | NV | -20 | 22.23 | 0.008616 | ±2.5 | PASS |

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|---|---|---|---|---|---|---|---|---|---|---|
| | 20MHz | -16QAM | -38048 | -100RB#0 | | | | | | |
| 38-38 | 20MHz-20MHz | 16QAM-16QAM | 37850-38048 | 100RB#0-100RB#0 | NV | 0 | 21.50 | 0.008333 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 16QAM-16QAM | 37850-38048 | 100RB#0-100RB#0 | NV | 20 | 23.07 | 0.008942 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 16QAM-16QAM | 37850-38048 | 100RB#0-100RB#0 | NV | 30 | 21.83 | 0.008461 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 16QAM-16QAM | 37850-38048 | 100RB#0-100RB#0 | NV | -10 | 22.96 | 0.008899 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 16QAM-16QAM | 37901-38099 | 100RB#0-100RB#0 | NV | -10 | 22.33 | 0.008638 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 16QAM-16QAM | 37901-38099 | 100RB#0-100RB#0 | NV | 30 | 26.12 | 0.010104 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 16QAM-16QAM | 37901-38099 | 100RB#0-100RB#0 | NV | 20 | 20.11 | 0.007779 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 16QAM-16QAM | 37901-38099 | 100RB#0-100RB#0 | NV | 0 | 22.42 | 0.008673 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 16QAM-16QAM | 37901-38099 | 100RB#0-100RB#0 | NV | -20 | 18.25 | 0.007060 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 16QAM-16QAM | 37901-38099 | 100RB#0-100RB#0 | NV | -30 | 24.22 | 0.009369 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 16QAM-16QAM | 37901-38099 | 100RB#0-100RB#0 | NV | -50 | 22.27 | 0.008615 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 16QAM-16QAM | 37901-38099 | 100RB#0-100RB#0 | NV | 10 | 20.76 | 0.008031 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 16QAM-16QAM | 37952-38150 | 100RB#0-100RB#0 | NV | 30 | 20.69 | 0.007988 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 16QAM-16QA | 37952-3815 | 100RB#0-100RB# | NV | 20 | 22.03 | 0.008505 | ±2.5 | PASS |

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|---|---|---|---|---|---|---|---|---|---|---|
| | | M | 0 | 0 | | | | | | |
| 38-38 | 20MHz-20MHz | 16QAM-16QAM | 37952-38150 | 100RB#0-100RB#0 | NV | 10 | 21.21 | 0.008189 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 16QAM-16QAM | 37952-38150 | 100RB#0-100RB#0 | NV | 0 | 26.36 | 0.010177 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 16QAM-16QAM | 37952-38150 | 100RB#0-100RB#0 | NV | -10 | 22.73 | 0.008775 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 16QAM-16QAM | 37952-38150 | 100RB#0-100RB#0 | NV | -20 | 21.47 | 0.008289 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 16QAM-16QAM | 37952-38150 | 100RB#0-100RB#0 | NV | -30 | 23.88 | 0.009219 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 16QAM-16QAM | 37952-38150 | 100RB#0-100RB#0 | NV | -50 | 25.65 | 0.009903 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 64QAM-64QAM | 37850-38048 | 100RB#0-100RB#0 | NV | -20 | 20.14 | 0.007806 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 64QAM-64QAM | 37850-38048 | 100RB#0-100RB#0 | NV | -30 | 22.22 | 0.008612 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 64QAM-64QAM | 37850-38048 | 100RB#0-100RB#0 | NV | -10 | 22.93 | 0.008888 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 64QAM-64QAM | 37850-38048 | 100RB#0-100RB#0 | NV | 10 | 22.12 | 0.008574 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 64QAM-64QAM | 37850-38048 | 100RB#0-100RB#0 | NV | 20 | 22.75 | 0.008818 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 64QAM-64QAM | 37850-38048 | 100RB#0-100RB#0 | NV | 30 | 21.37 | 0.008283 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 64QAM-64QAM | 37850-38048 | 100RB#0-100RB#0 | NV | -50 | 26.46 | 0.010256 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 64QAM-64QAM | 37850-38048 | 100RB#0-100RB#0 | NV | 0 | 22.52 | 0.008729 | ±2.5 | PASS |

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|---|---|---|---|---|---|---|---|---|---|---|
| 38-38 | 20MHz-20MHz | 64QAM-64QAM | 37901-38099 | 100RB#0-100RB#0 | NV | -10 | 22.17 | 0.008576 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 64QAM-64QAM | 37901-38099 | 100RB#0-100RB#0 | NV | -50 | 21.59 | 0.008352 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 64QAM-64QAM | 37901-38099 | 100RB#0-100RB#0 | NV | -20 | 23.23 | 0.008986 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 64QAM-64QAM | 37901-38099 | 100RB#0-100RB#0 | NV | 0 | 20.96 | 0.008108 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 64QAM-64QAM | 37901-38099 | 100RB#0-100RB#0 | NV | 10 | 23.66 | 0.009152 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 64QAM-64QAM | 37901-38099 | 100RB#0-100RB#0 | NV | 20 | 20.93 | 0.008096 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 64QAM-64QAM | 37901-38099 | 100RB#0-100RB#0 | NV | 30 | 21.84 | 0.008448 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 64QAM-64QAM | 37901-38099 | 100RB#0-100RB#0 | NV | -30 | 20.40 | 0.007891 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 64QAM-64QAM | 37952-38150 | 100RB#0-100RB#0 | NV | 30 | 19.57 | 0.007555 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 64QAM-64QAM | 37952-38150 | 100RB#0-100RB#0 | NV | -50 | 19.18 | 0.007405 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 64QAM-64QAM | 37952-38150 | 100RB#0-100RB#0 | NV | -30 | 24.33 | 0.009393 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 64QAM-64QAM | 37952-38150 | 100RB#0-100RB#0 | NV | -20 | 20.56 | 0.007938 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 64QAM-64QAM | 37952-38150 | 100RB#0-100RB#0 | NV | -10 | 20.60 | 0.007953 | ±2.5 | PASS |
| 38-38 | 20MHz-20MHz | 64QAM-64QAM | 37952-38150 | 100RB#0-100RB#0 | NV | 0 | 22.79 | 0.008799 | ±2.5 | PASS |
| 38-38 | 20MHz- | 64QAM | 37952 | 100RB#0 | NV | 10 | 26.65 | 0.010289 | ±2.5 | PASS |

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|---|---|---|---|---|---|---|---|---|---|---|
| | 20MHz | -64QAM | -38150 | -100RB#0 | | | | | | |
| 38-38 | 20MHz-20MHz | 64QAM-64QAM | 37952-38150 | 100RB#0-100RB#0 | NV | 20 | 25.08 | 0.009683 | ±2.5 | PASS |