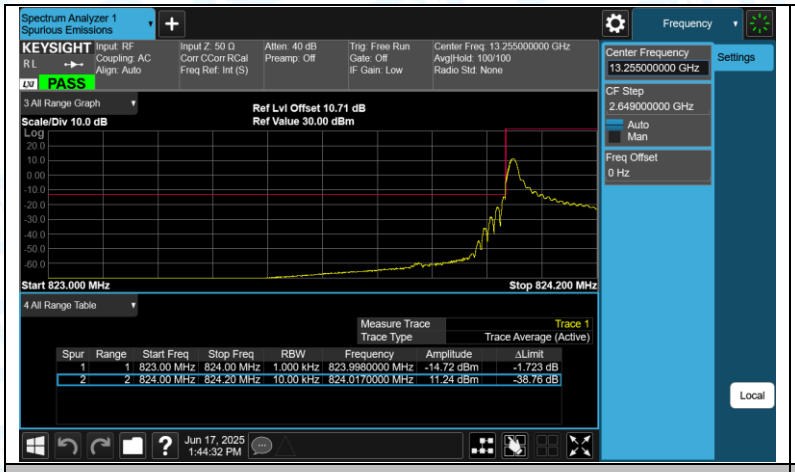
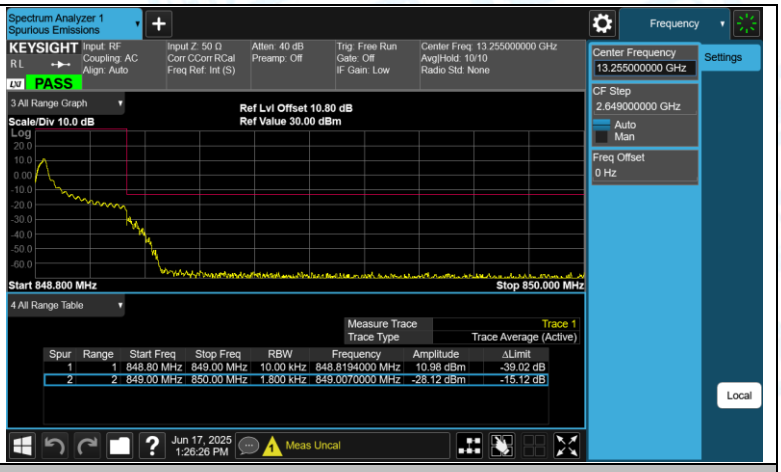
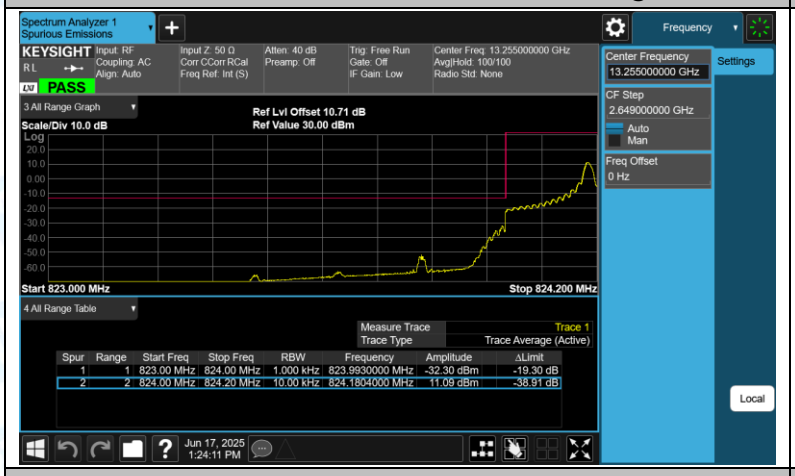


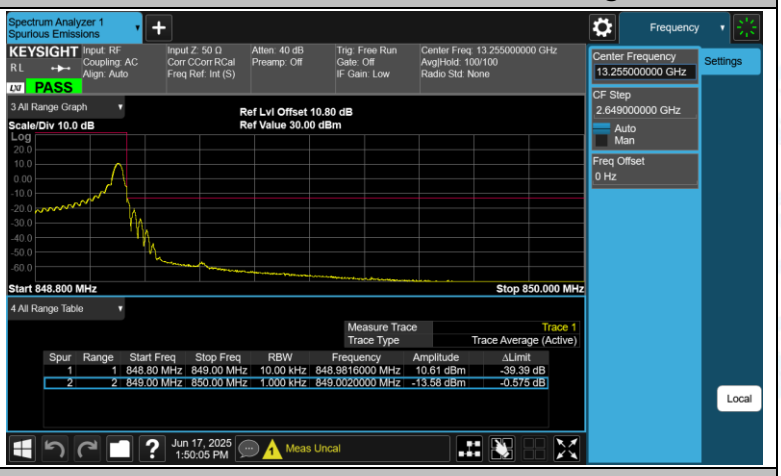

Band5_Stand-Alone_0.18_QPSK_20401_1@0_15kHz




Band5_Stand-Alone_0.18_QPSK_20649_1@10_15kHz




Band5_Stand-Alone_0.18_QPSK_20401_1@11_15kHz




Band5_Stand-Alone_0.18_QPSK_20649_1@11_15kHz

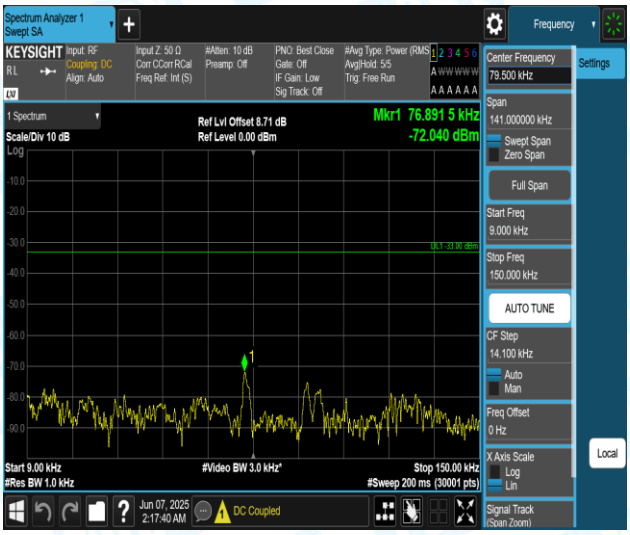
# 5: Conducted Spurious Emission for NB1

## Test Result

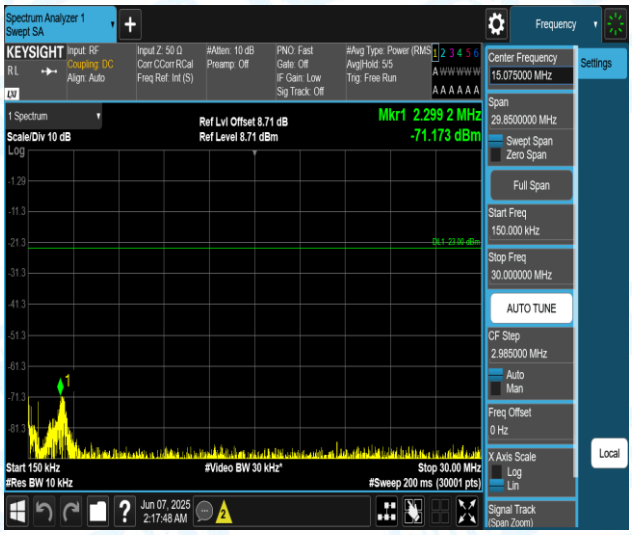
| Band | OpMode | SCS | BW | Modu | Channel | Tones | Freq Start [MHz] | Freq Stop [MHz] | Result (dBm) | Limit (dBm) | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Band5 | Stand-Alone | 3.75kHz | 0.18 | QPSK | 20401 | 1@0 | 0.009 | 0.15 | -72.04 | -33 | PASS |
| Band5 | Stand-Alone | 3.75kHz | 0.18 | QPSK | 20401 | 1@0 | 0.15 | 30 | -71.17 | -23 | PASS |
| Band5 | Stand-Alone | 3.75kHz | 0.18 | QPSK | 20401 | 1@0 | 30 | 1000 | -59.46 | -13 | PASS |
| Band5 | Stand-Alone | 3.75kHz | 0.18 | QPSK | 20401 | 1@0 | 1000 | 10000 | -47.99 | -13 | PASS |
| Band5 | Stand-Alone | 3.75kHz | 0.18 | QPSK | 20401 | 1@47 | 0.009 | 0.15 | -72.44 | -33 | PASS |
| Band5 | Stand-Alone | 3.75kHz | 0.18 | QPSK | 20401 | 1@47 | 0.15 | 30 | -69.2 | -23 | PASS |
| Band5 | Stand-Alone | 3.75kHz | 0.18 | QPSK | 20401 | 1@47 | 30 | 1000 | -60.26 | -13 | PASS |
| Band5 | Stand-Alone | 3.75kHz | 0.18 | QPSK | 20401 | 1@47 | 1000 | 10000 | -47.54 | -13 | PASS |
| Band5 | Stand-Alone | 3.75kHz | 0.18 | QPSK | 20525 | 1@0 | 0.009 | 0.15 | -71.11 | -33 | PASS |
| Band5 | Stand-Alone | 3.75kHz | 0.18 | QPSK | 20525 | 1@0 | 0.15 | 30 | -68.39 | -23 | PASS |
| Band5 | Stand-Alone | 3.75kHz | 0.18 | QPSK | 20525 | 1@0 | 30 | 1000 | -60.04 | -13 | PASS |
| Band5 | Stand-Alone | 3.75kHz | 0.18 | QPSK | 20525 | 1@0 | 1000 | 10000 | -47.84 | -13 | PASS |
| Band5 | Stand-Alone | 3.75kHz | 0.18 | QPSK | 20525 | 1@47 | 0.009 | 0.15 | -71.26 | -33 | PASS |
| Band5 | Stand-Alone | 3.75kHz | 0.18 | QPSK | 20525 | 1@47 | 0.15 | 30 | -68.05 | -23 | PASS |
| Band5 | Stand-Alone | 3.75kHz | 0.18 | QPSK | 20525 | 1@47 | 30 | 1000 | -59.61 | -13 | PASS |
| Band5 | Stand-Alone | 3.75kHz | 0.18 | QPSK | 20525 | 1@47 | 1000 | 10000 | -47.84 | -13 | PASS |
| Band5 | Stand-Alone | 3.75kHz | 0.18 | QPSK | 20649 | 1@0 | 0.009 | 0.15 | -71.68 | -33 | PASS |
| Band5 | Stand-Alone | 3.75kHz | 0.18 | QPSK | 20649 | 1@0 | 0.15 | 30 | -67.64 | -23 | PASS |
| Band5 | Stand-Alone | 3.75kHz | 0.18 | QPSK | 20649 | 1@0 | 30 | 1000 | -59.53 | -13 | PASS |
| Band5 | Stand-Alone | 3.75kHz | 0.18 | QPSK | 20649 | 1@0 | 1000 | 10000 | -47.64 | -13 | PASS |
| Band5 | Stand-Alone | 3.75kHz | 0.18 | QPSK | 20649 | 1@47 | 0.009 | 0.15 | -72.15 | -33 | PASS |
| Band5 | Stand-Alone | 3.75kHz | 0.18 | QPSK | 20649 | 1@47 | 0.15 | 30 | -69.09 | -23 | PASS |
| Band5 | Stand-Alone | 3.75kHz | 0.18 | QPSK | 20649 | 1@47 | 30 | 1000 | -59.73 | -13 | PASS |
| Band5 | Stand-Alone | 3.75kHz | 0.18 | QPSK | 20649 | 1@47 | 1000 | 10000 | -47.85 | -13 | PASS |
| Band5 | Stand-Alone | 15kHz | 0.18 | QPSK | 20401 | 12@0 | 0.009 | 0.15 | -71.59 | -33 | PASS |
| Band5 | Stand-Alone | 15kHz | 0.18 | QPSK | 20401 | 12@0 | 0.15 | 30 | -72.19 | -23 | PASS |
| Band5 | Stand-Alone | 15kHz | 0.18 | QPSK | 20401 | 12@0 | 30 | 1000 | -60.24 | -13 | PASS |
| Band5 | Stand-Alone | 15kHz | 0.18 | QPSK | 20401 | 12@0 | 1000 | 10000 | -47.68 | -13 | PASS |
| Band5 | Stand-Alone | 15kHz | 0.18 | QPSK | 20525 | 12@0 | 0.009 | 0.15 | -70.38 | -33 | PASS |
| Band5 | Stand-Alone | 15kHz | 0.18 | QPSK | 20525 | 12@0 | 0.15 | 30 | -70.81 | -23 | PASS |
| Band5 | Stand-Alone | 15kHz | 0.18 | QPSK | 20525 | 12@0 | 30 | 1000 | -60.04 | -13 | PASS |
| Band5 | Stand-Alone | 15kHz | 0.18 | QPSK | 20525 | 12@0 | 1000 | 10000 | -47.71 | -13 | PASS |
| Band5 | Stand-Alone | 15kHz | 0.18 | QPSK | 20649 | 12@0 | 0.009 | 0.15 | -70.95 | -33 | PASS |
| Band5 | Stand-Alone | 15kHz | 0.18 | QPSK | 20649 | 12@0 | 0.15 | 30 | -64.77 | -23 | PASS |
| Band5 | Stand-Alone | 15kHz | 0.18 | QPSK | 20649 | 12@0 | 30 | 1000 | -60.59 | -13 | PASS |
| Band5 | Stand-Alone | 15kHz | 0.18 | QPSK | 20649 | 12@0 | 1000 | 10000 | -47.46 | -13 | PASS |
| Band5 | Stand-Alone | 15kHz | 0.18 | BPSK | 20401 | 1@0 | 0.009 | 0.15 | -72.7 | -33 | PASS |
| Band5 | Stand-Alone | 15kHz | 0.18 | BPSK | 20401 | 1@0 | 0.15 | 30 | -68.24 | -23 | PASS |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Band5 | Stand-Alone | 15kHz | 0.18 | BPSK | 20401 | 1@0 | 30 | 1000 | -59.84 | -13 | PASS |
| Band5 | Stand-Alone | 15kHz | 0.18 | BPSK | 20401 | 1@0 | 1000 | 10000 | -47.58 | -13 | PASS |
| Band5 | Stand-Alone | 15kHz | 0.18 | BPSK | 20401 | 1@11 | 0.009 | 0.15 | -71.26 | -33 | PASS |
| Band5 | Stand-Alone | 15kHz | 0.18 | BPSK | 20401 | 1@11 | 0.15 | 30 | -71.08 | -23 | PASS |
| Band5 | Stand-Alone | 15kHz | 0.18 | BPSK | 20401 | 1@11 | 30 | 1000 | -57.7 | -13 | PASS |
| Band5 | Stand-Alone | 15kHz | 0.18 | BPSK | 20401 | 1@11 | 1000 | 10000 | -47.96 | -13 | PASS |
| Band5 | Stand-Alone | 15kHz | 0.18 | BPSK | 20525 | 1@0 | 0.009 | 0.15 | -70.52 | -33 | PASS |
| Band5 | Stand-Alone | 15kHz | 0.18 | BPSK | 20525 | 1@0 | 0.15 | 30 | -71.08 | -23 | PASS |
| Band5 | Stand-Alone | 15kHz | 0.18 | BPSK | 20525 | 1@0 | 30 | 1000 | -60.46 | -13 | PASS |
| Band5 | Stand-Alone | 15kHz | 0.18 | BPSK | 20525 | 1@0 | 1000 | 10000 | -47.85 | -13 | PASS |
| Band5 | Stand-Alone | 15kHz | 0.18 | BPSK | 20525 | 1@11 | 0.009 | 0.15 | -72.22 | -33 | PASS |
| Band5 | Stand-Alone | 15kHz | 0.18 | BPSK | 20525 | 1@11 | 0.15 | 30 | -69.45 | -23 | PASS |
| Band5 | Stand-Alone | 15kHz | 0.18 | BPSK | 20525 | 1@11 | 30 | 1000 | -55.32 | -13 | PASS |
| Band5 | Stand-Alone | 15kHz | 0.18 | BPSK | 20525 | 1@11 | 1000 | 10000 | -47.84 | -13 | PASS |
| Band5 | Stand-Alone | 15kHz | 0.18 | BPSK | 20649 | 1@0 | 0.009 | 0.15 | -70.63 | -33 | PASS |
| Band5 | Stand-Alone | 15kHz | 0.18 | BPSK | 20649 | 1@0 | 0.15 | 30 | -68.79 | -23 | PASS |
| Band5 | Stand-Alone | 15kHz | 0.18 | BPSK | 20649 | 1@0 | 30 | 1000 | -59.91 | -13 | PASS |
| Band5 | Stand-Alone | 15kHz | 0.18 | BPSK | 20649 | 1@0 | 1000 | 10000 | -47.75 | -13 | PASS |
| Band5 | Stand-Alone | 15kHz | 0.18 | BPSK | 20649 | 1@11 | 0.009 | 0.15 | -70.23 | -33 | PASS |
| Band5 | Stand-Alone | 15kHz | 0.18 | BPSK | 20649 | 1@11 | 0.15 | 30 | -68.91 | -23 | PASS |
| Band5 | Stand-Alone | 15kHz | 0.18 | BPSK | 20649 | 1@11 | 30 | 1000 | -58.06 | -13 | PASS |
| Band5 | Stand-Alone | 15kHz | 0.18 | BPSK | 20649 | 1@11 | 1000 | 10000 | -47.91 | -13 | PASS |

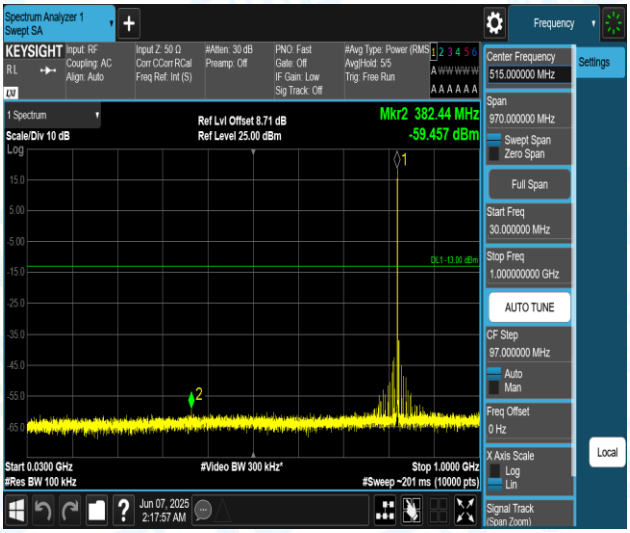
## Test Graphs



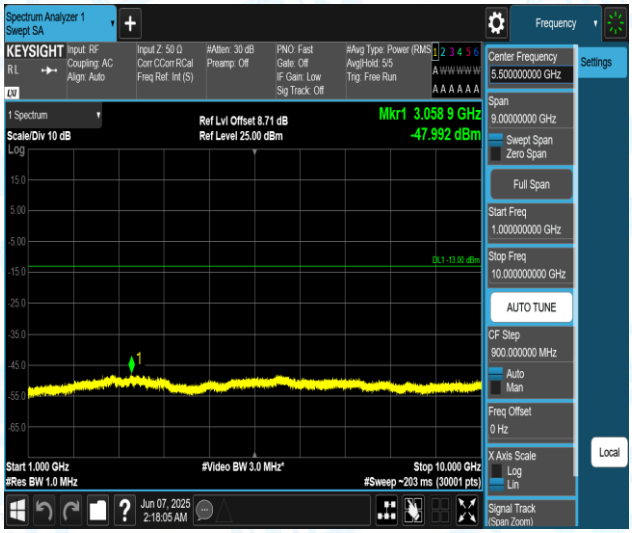

B a n d 5 - 0 . 1 8 - Q P S K - 2 0 4 0 1 - P A S S




B a n d 5 - 0 . 1 8 - Q P S K - 2 0 4 0 1 - P A S S

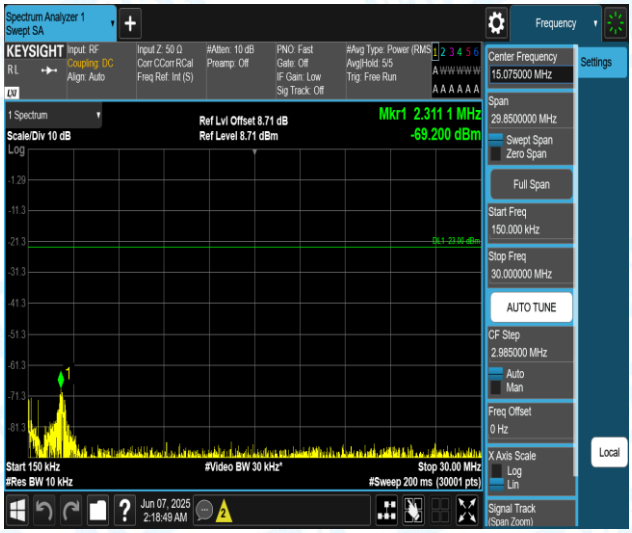



B a n d 5 - 0 . 1 8 - Q P S K - 2 0 4 0 1 - P A S S

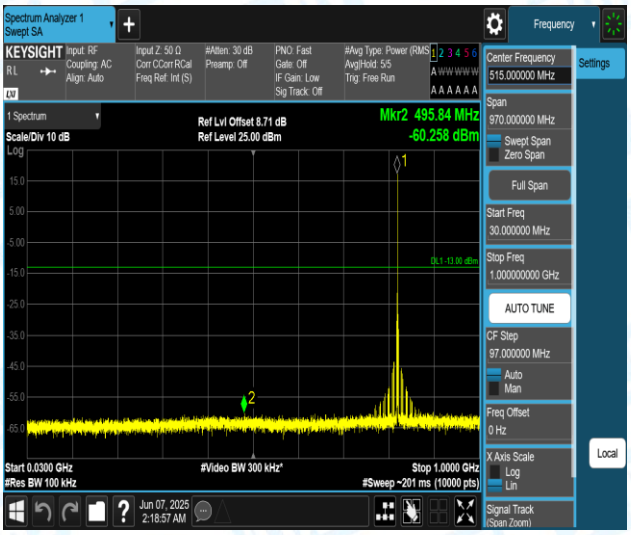



B a n d 5 - 0 . 1 8 - Q P S K - 2 0 4 0 1 - P A S S

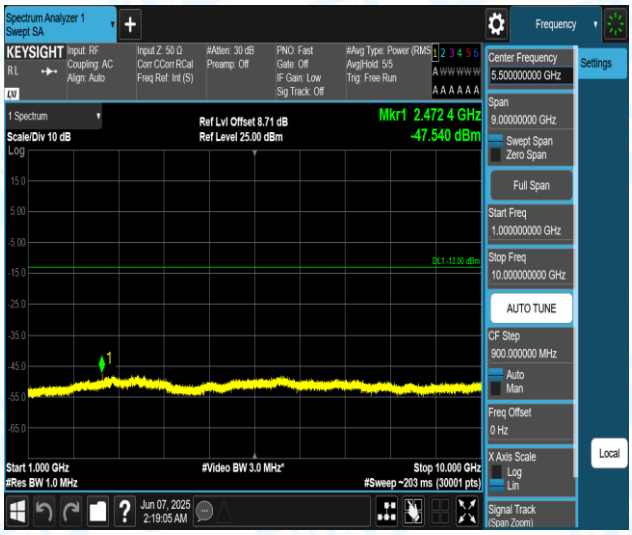
B a n d 5 - 0 . 1 8 - Q P S K - 2 0 4 0 1 - P A S S



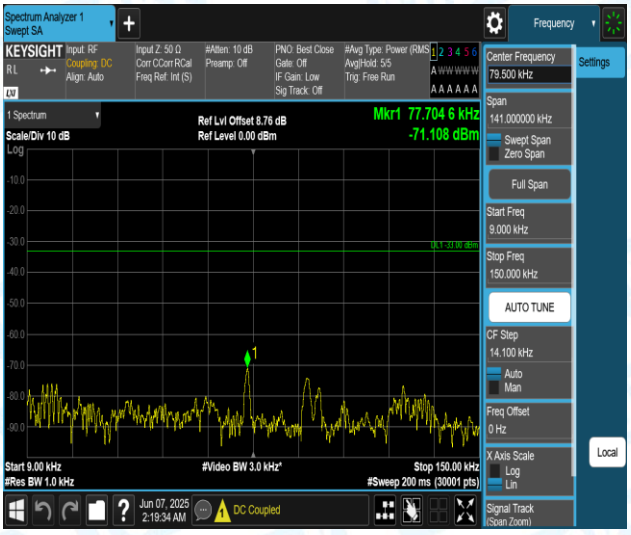

B a n d 5 - 0 . 1 8 - Q P S K - 2 0 4 0 1 - P A S S



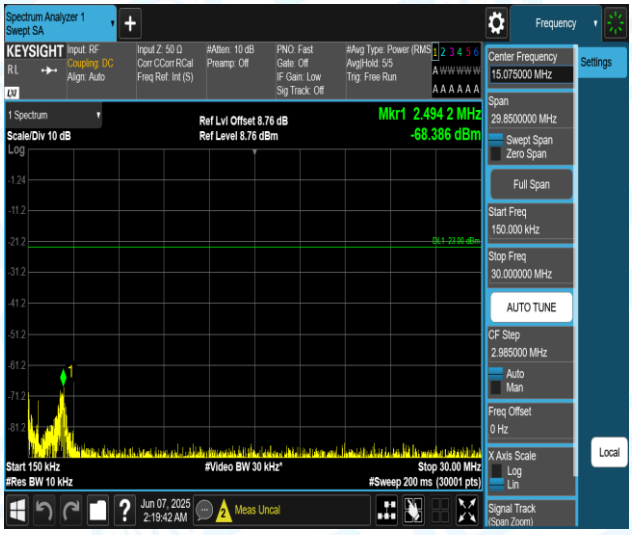

B a n d 5 - 0 . 1 8 - Q P S K - 2 0 4 0 1 - P A S S



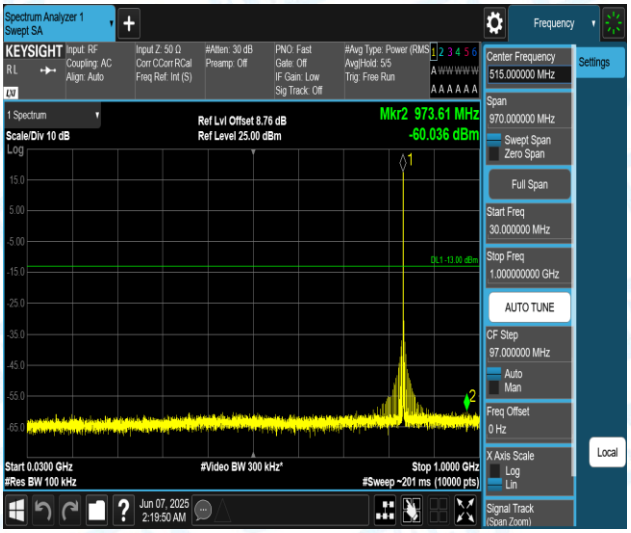

B a n d 5 - 0 . 1 8 - Q P S K - 2 0 4 0 1 - P A S S



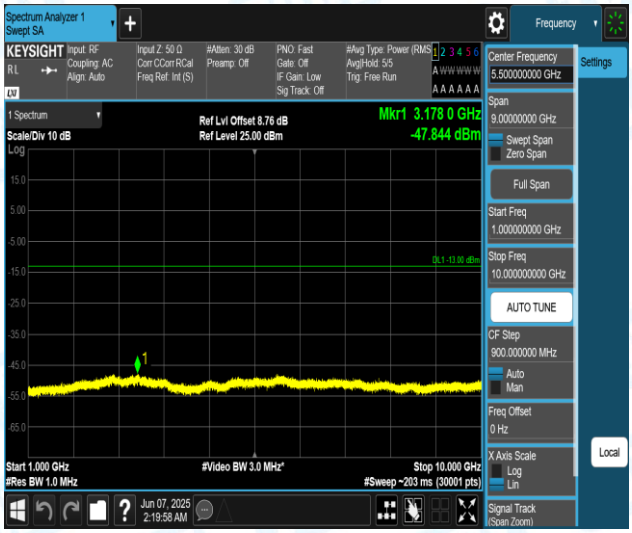

B a n d 5 - 0 . 1 8 - Q P S K - 2 0 5 2 5 - P A S S



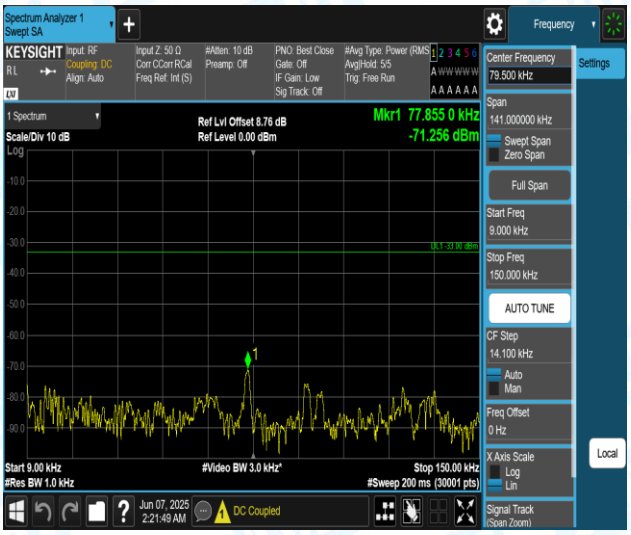

B a n d 5 - 0 . 1 8 - Q P S K - 2 0 5 2 5 - P A S S



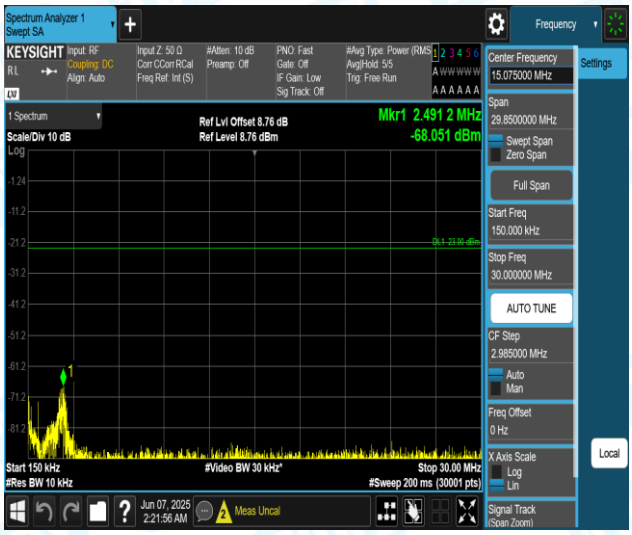

B a n d 5 - 0 . 1 8 - Q P S K - 2 0 5 2 5 - P A S S



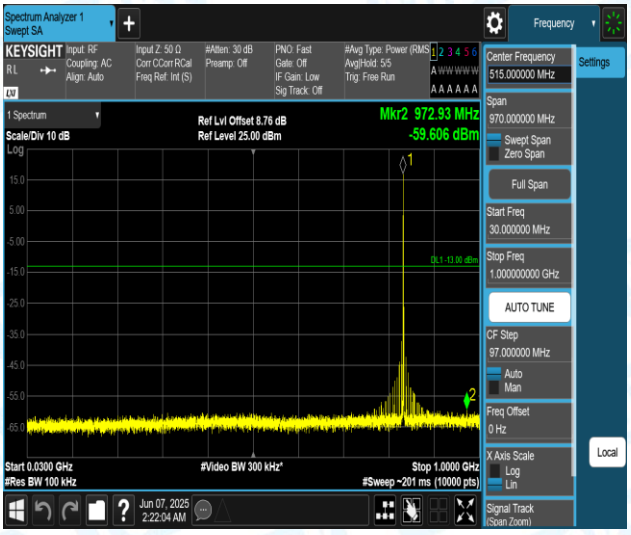

B a n d 5 - 0 . 1 8 - Q P S K - 2 0 5 2 5 - P A S S



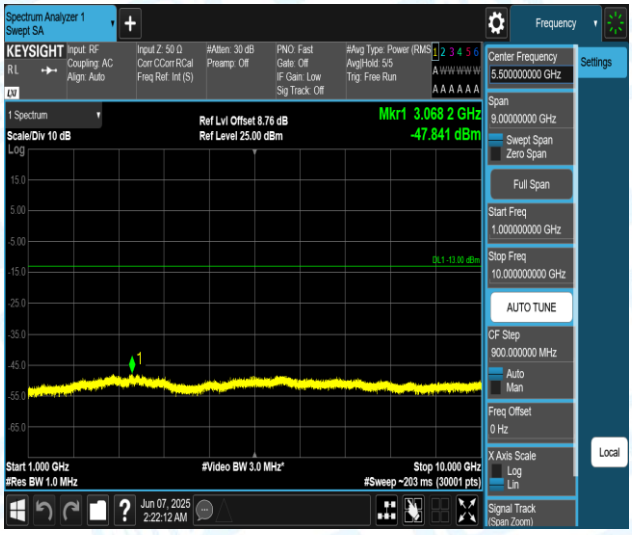

B a n d 5 - 0 . 1 8 - Q P S K - 2 0 5 2 5 - P A S S



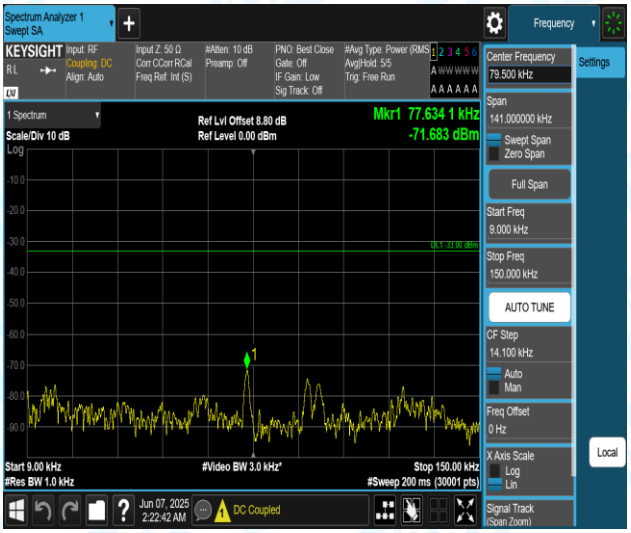

B a n d 5 - 0 . 1 8 - Q P S K - 2 0 5 2 5 - P A S S



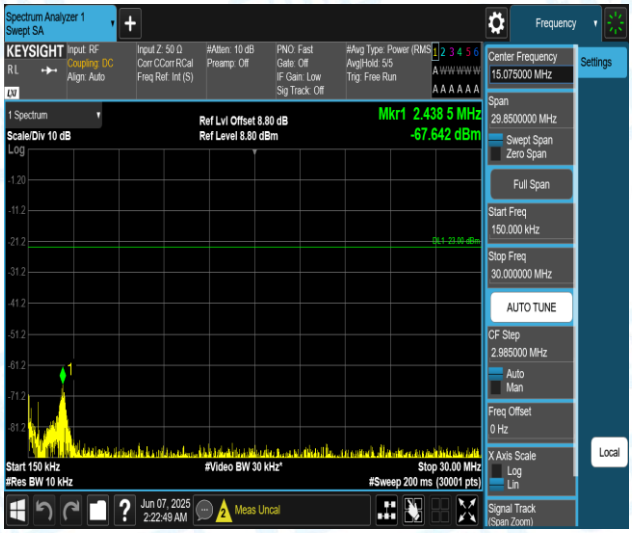

B a n d 5 - 0 . 1 8 - Q P S K - 2 0 5 2 5 - P A S S



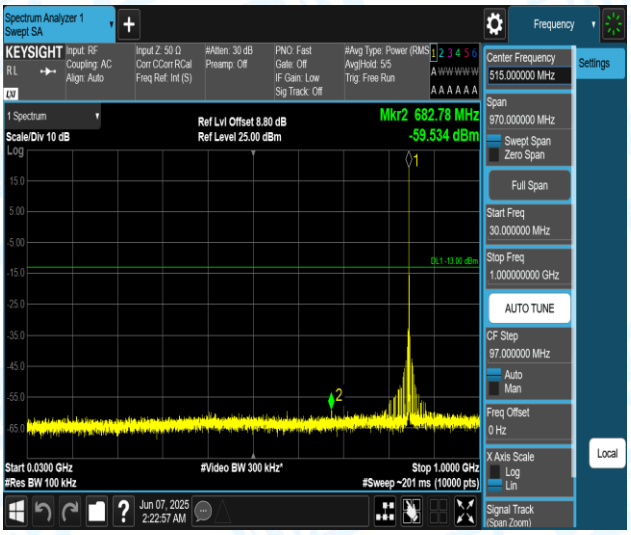

B a n d 5 - 0 . 1 8 - Q P S K - 2 0 5 2 5 - P A S S



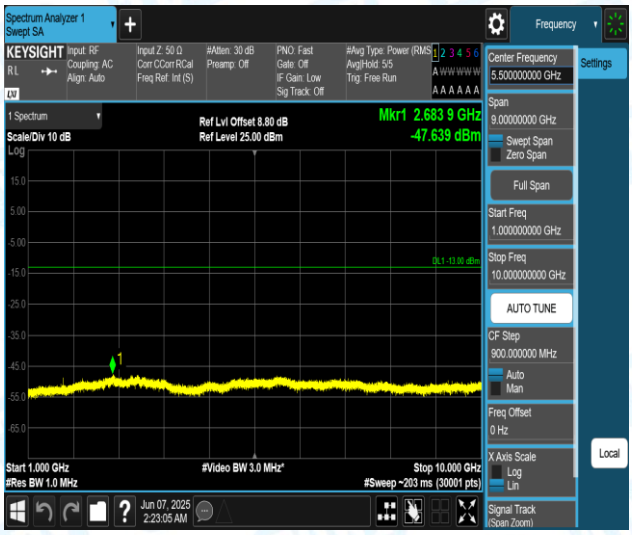

B a n d 5 - 0 . 1 8 - Q P S K - 2 0 6 4 9 - P A S S



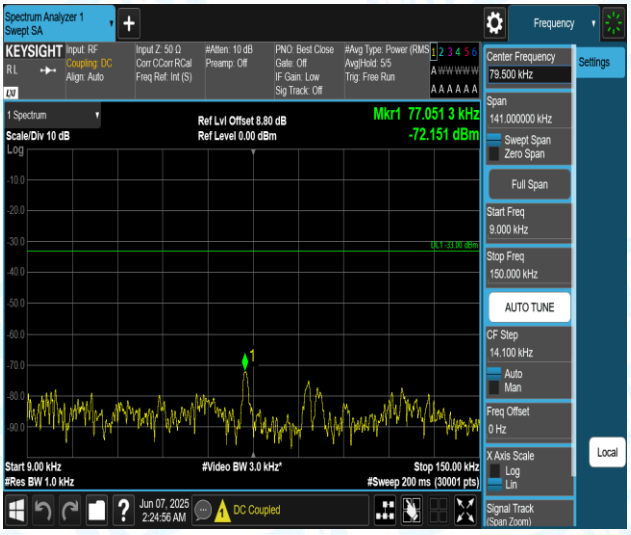

B a n d 5 - 0 . 1 8 - Q P S K - 2 0 6 4 9 - P A S S



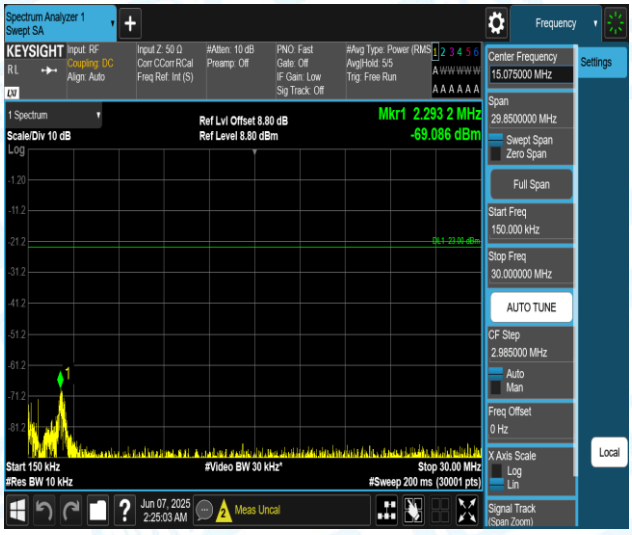

B a n d 5 - 0 . 1 8 - Q P S K - 2 0 6 4 9 - P A S S



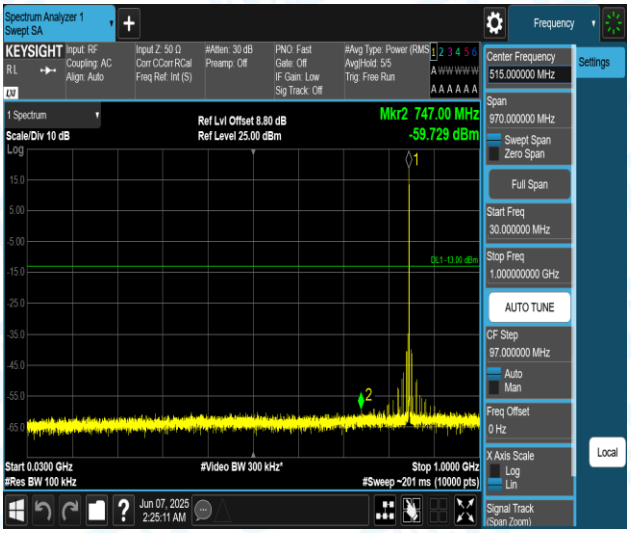

B a n d 5 - 0 . 1 8 - Q P S K - 2 0 6 4 9 - P A S S



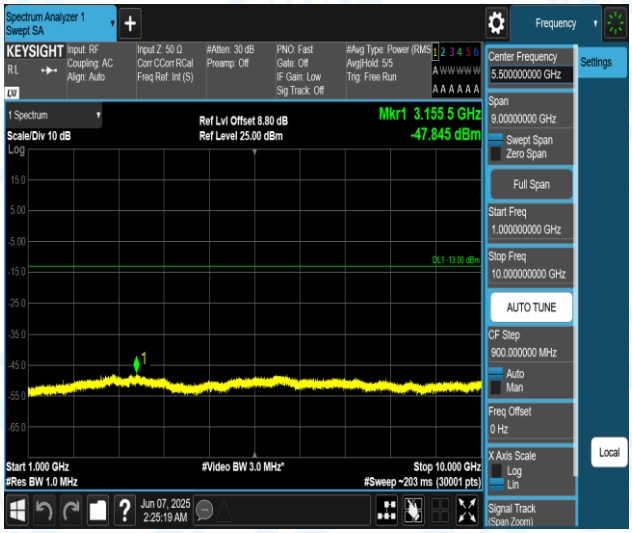

B a n d 5 - 0 . 1 8 - Q P S K - 2 0 6 4 9 - P A S S



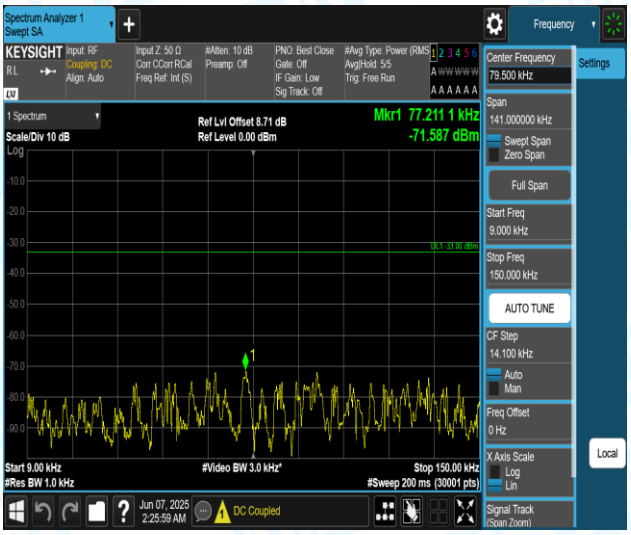

B a n d 5 - 0 . 1 8 - Q P S K - 2 0 6 4 9 - P A S S



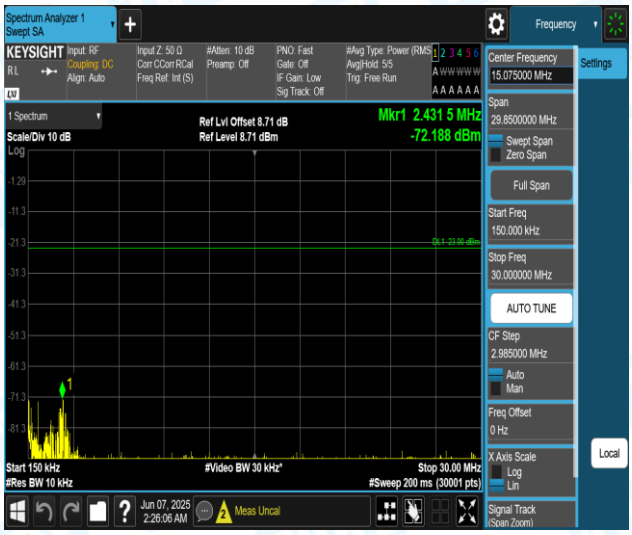

B a n d 5 - 0 . 1 8 - Q P S K - 2 0 6 4 9 - P A S S



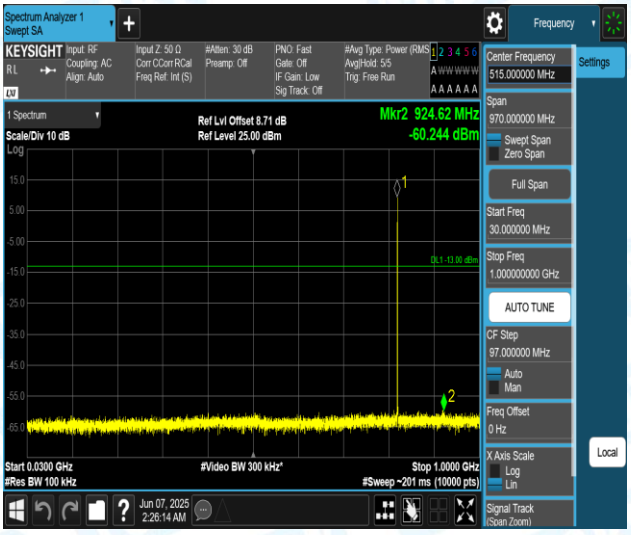

B a n d 5 - 0 . 1 8 - Q P S K - 2 0 6 4 9 - P A S S



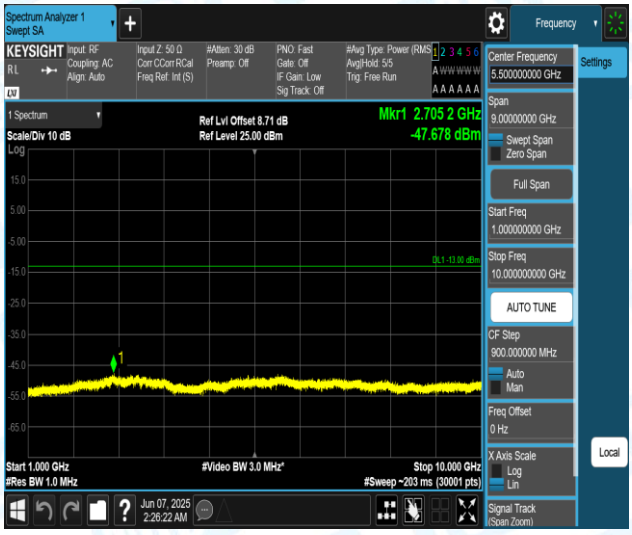

B a n d 5 - 0 . 1 8 - Q P S K - 2 0 4 0 1 - P A S S



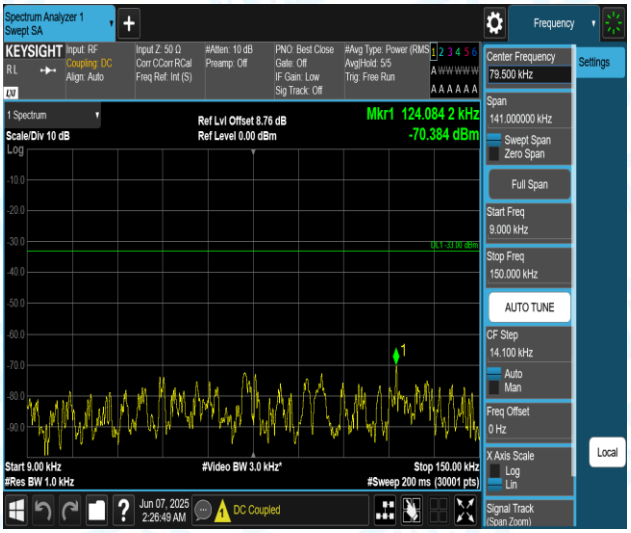

B a n d 5 - 0 . 1 8 - Q P S K - 2 0 4 0 1 - P A S S




B a n d 5 - 0 . 1 8 - Q P S K - 2 0 4 0 1 - P A S S

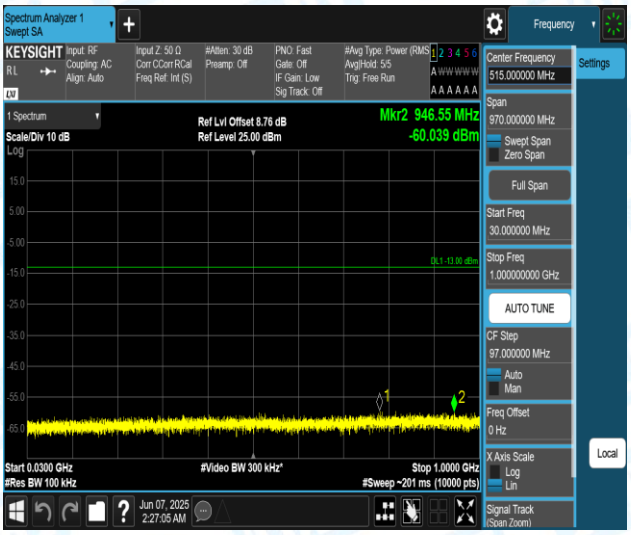



B a n d 5 - 0 . 1 8 - Q P S K - 2 0 4 0 1 - P A S S

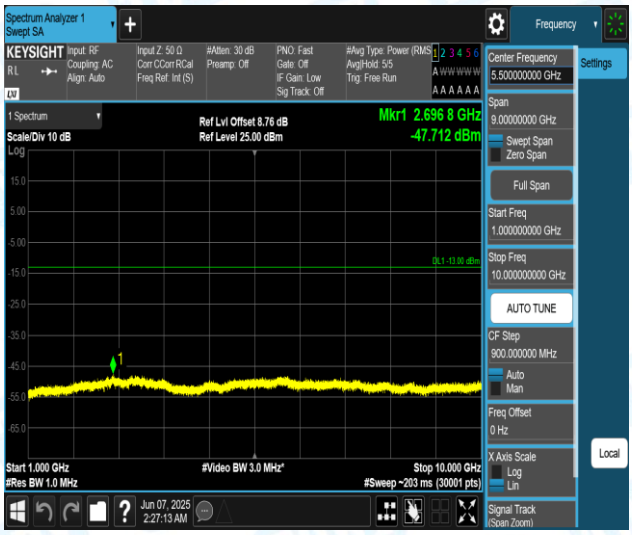



B a n d 5 - 0 . 1 8 - Q P S K - 2 0 5 2 5 - P A S S

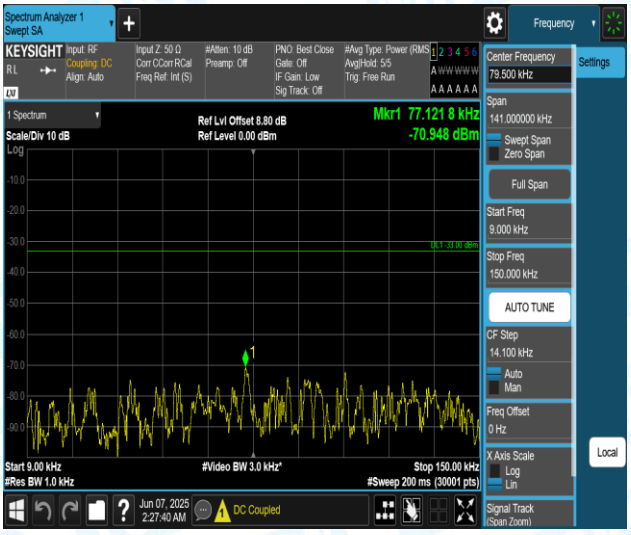
B a n d 5 - 0 . 1 8 - Q P S K - 2 0 5 2 5 - P A S S



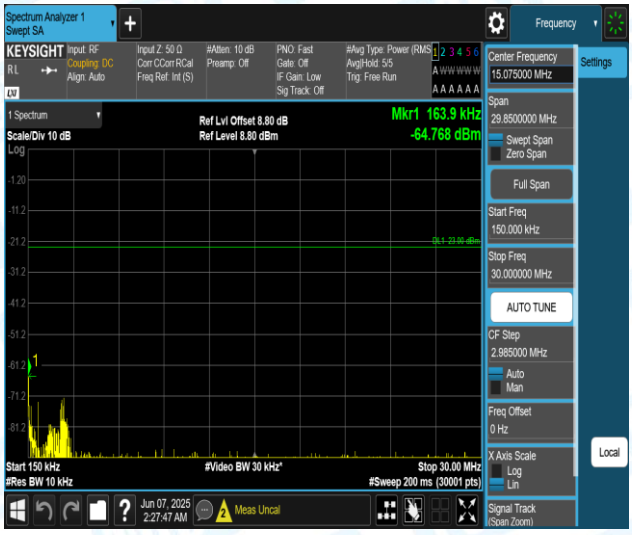

B a n d 5 - 0 . 1 8 - Q P S K - 2 0 5 2 5 - P A S S



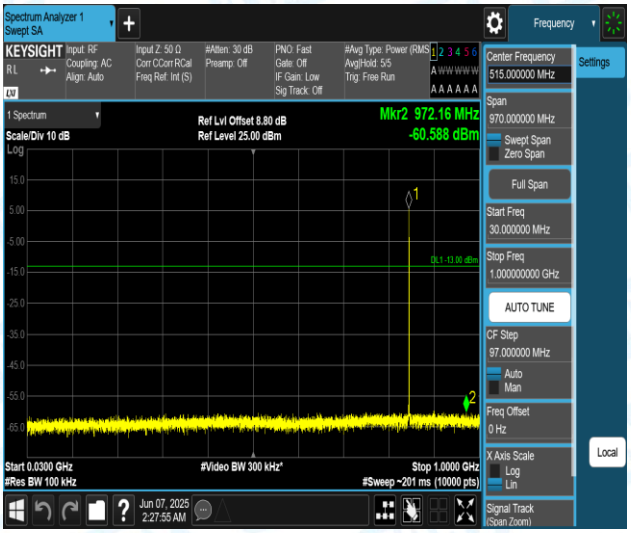

B a n d 5 - 0 . 1 8 - Q P S K - 2 0 5 2 5 - P A S S



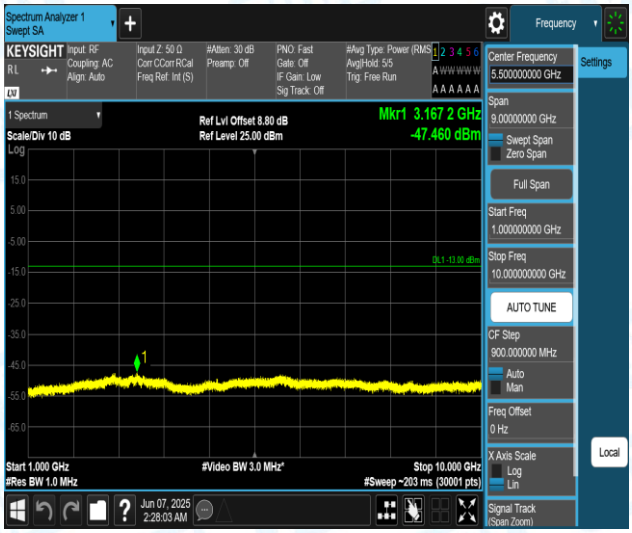

B a n d 5 - 0 . 1 8 - Q P S K - 2 0 6 4 9 - P A S S




B a n d 5 - 0 . 1 8 - Q P S K - 2 0 6 4 9 - P A S S




B a n d 5 - 0 . 1 8 - Q P S K - 2 0 6 4 9 - P A S S




B a n d 5 - 0 . 1 8 - Q P S K - 2 0 6 4 9 - P A S S