



***n77(3450-3550) SCS=30kHz DFT\_QAM64 BW=15MHz Channel=633334 RB=36@0***



***n77(3450-3550) SCS=30kHz DFT\_QAM64 BW=20MHz Channel=633334 RB=50@0***



***n77(3450-3550) SCS=30kHz DFT\_QAM64 BW=30MHz Channel=633334 RB=75@0***



***n77(3450-3550) SCS=30kHz DFT\_QAM64 BW=50MHz Channel=633334 RB=128@0***



***n77(3450-3550) SCS=30kHz DFT\_QAM64 BW=40MHz Channel=633334 RB=100@0***



***n77(3450-3550) SCS=30kHz DFT\_QAM64 BW=60MHz Channel=633334 RB=162@0***



***n77(3450-3550) SCS=30kHz DFT\_QAM64 BW=80MHz Channel=633334 RB=216@0***



***n77(3450-3550) SCS=30kHz DFT\_QAM64 BW=90MHz Channel=633334 RB=240@0***



***n77(3450-3550) SCS=30kHz DFT\_QPSK BW=100MHz Channel=633334 RB=270@0***



***n77(3450-3550) SCS=30kHz DFT\_QPSK BW=10MHz Channel=633334 RB=24@0***



***n77(3450-3550) SCS=30kHz DFT\_QPSK BW=15MHz Channel=633334 RB=36@0***



***n77(3450-3550) SCS=30kHz DFT\_QPSK BW=40MHz Channel=633334 RB=100@0***



***n77(3450-3550) SCS=30kHz DFT\_QPSK BW=50MHz Channel=633334 RB=128@0***



***n77(3450-3550) SCS=30kHz DFT\_QPSK BW=20MHz Channel=633334 RB=50@0***



***n77(3450-3550) SCS=30kHz DFT\_QPSK BW=30MHz Channel=633334 RB=75@0***



***n77(3450-3550) SCS=30kHz DFT\_QPSK BW=60MHz Channel=633334 RB=162@0***



***n77(3450-3550) SCS=30kHz DFT\_QPSK BW=80MHz Channel=633334 RB=216@0***



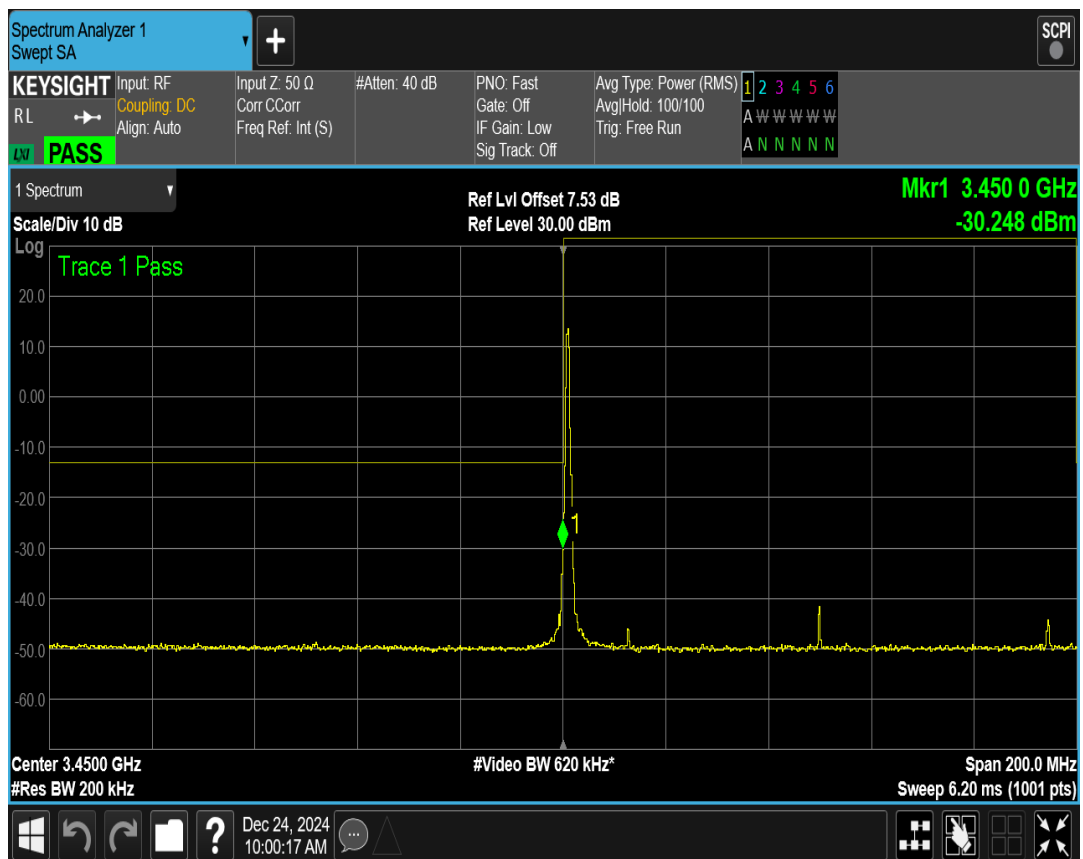
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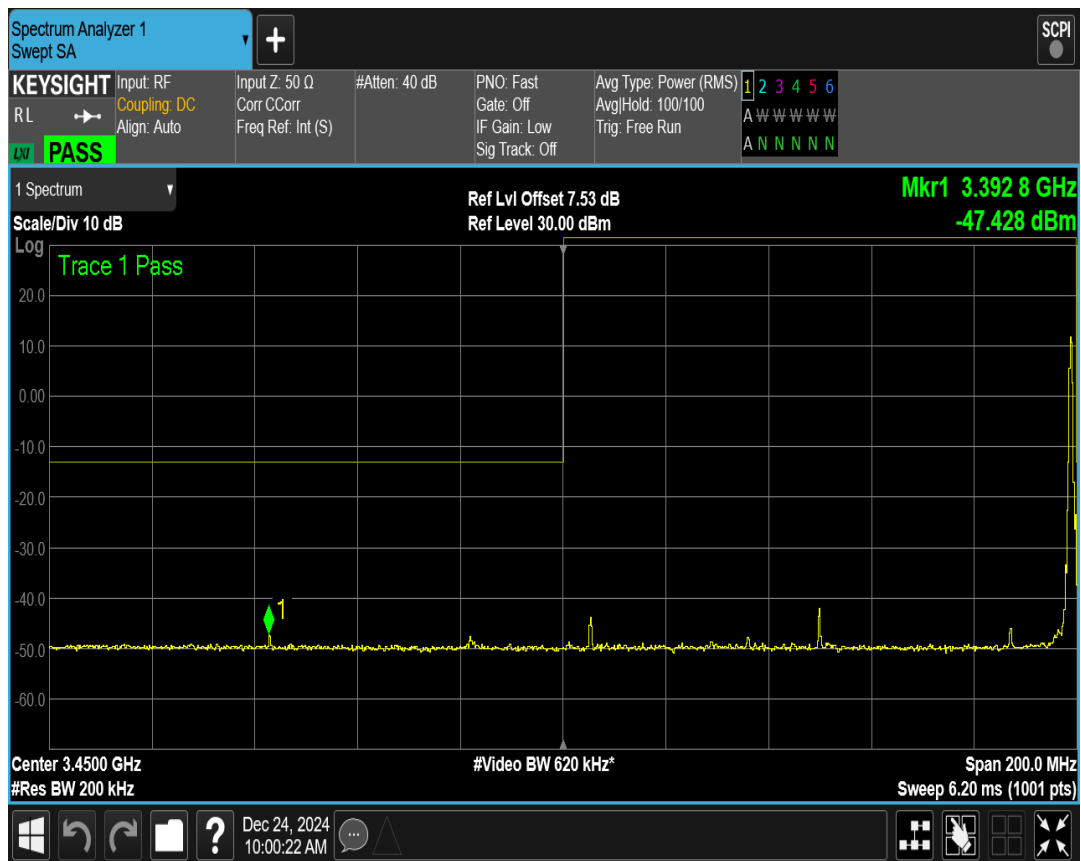
## 5 Band edge for NR FR1

| Band           | SCS<br>(kHz) | Bandwidth<br>(MHz) | UL<br>Channel | RB<br>Allocation | Modulation | Spur Freq<br>(MHz) | Spur<br>Level<br>(dBm) | Limit<br>(dBm) | Verdict |
|----------------|--------------|--------------------|---------------|------------------|------------|--------------------|------------------------|----------------|---------|
| n77(3450-3550) | 30           | 10                 | 630334        | 24@0             | CP_QPSK    | 3449.76            | -36.29                 | -13            | PASS    |
| n77(3450-3550) | 30           | 10                 | 630334        | 1@0              | CP_QPSK    | 3450.00            | -37.62                 | -13            | PASS    |
| n77(3450-3550) | 30           | 10                 | 630334        | 1@23             | CP_QPSK    | 3444.44            | -45.84                 | -13            | PASS    |
| n77(3450-3550) | 30           | 10                 | 636332        | 24@0             | CP_QPSK    | 3550.04            | -40.26                 | -13            | PASS    |
| n77(3450-3550) | 30           | 10                 | 636332        | 1@0              | CP_QPSK    | 3555.60            | -48.03                 | -13            | PASS    |
| n77(3450-3550) | 30           | 10                 | 636332        | 1@23             | CP_QPSK    | 3550.08            | -41.20                 | -13            | PASS    |
| n77(3450-3550) | 30           | 50                 | 631668        | 133@0            | CP_QPSK    | 3449.90            | -36.44                 | -13            | PASS    |
| n77(3450-3550) | 30           | 50                 | 631668        | 1@0              | CP_QPSK    | 3449.70            | -44.45                 | -13            | PASS    |
| n77(3450-3550) | 30           | 50                 | 631668        | 1@132            | CP_QPSK    | 3440.20            | -48.47                 | -13            | PASS    |
| n77(3450-3550) | 30           | 50                 | 635000        | 133@0            | CP_QPSK    | 3551.50            | -40.41                 | -13            | PASS    |
| n77(3450-3550) | 30           | 50                 | 635000        | 1@0              | CP_QPSK    | 3559.70            | -48.28                 | -13            | PASS    |
| n77(3450-3550) | 30           | 50                 | 635000        | 1@132            | CP_QPSK    | 3550.00            | -37.19                 | -13            | PASS    |
| n77(3450-3550) | 30           | 100                | 633334        | 273@0            | CP_QPSK    | 3450.00            | -21.87                 | -13            | PASS    |
| n77(3450-3550) | 30           | 100                | 633334        | 1@0              | CP_QPSK    | 3450.00            | -30.24                 | -13            | PASS    |
| n77(3450-3550) | 30           | 100                | 633334        | 1@272            | CP_QPSK    | 3392.80            | -47.42                 | -13            | PASS    |

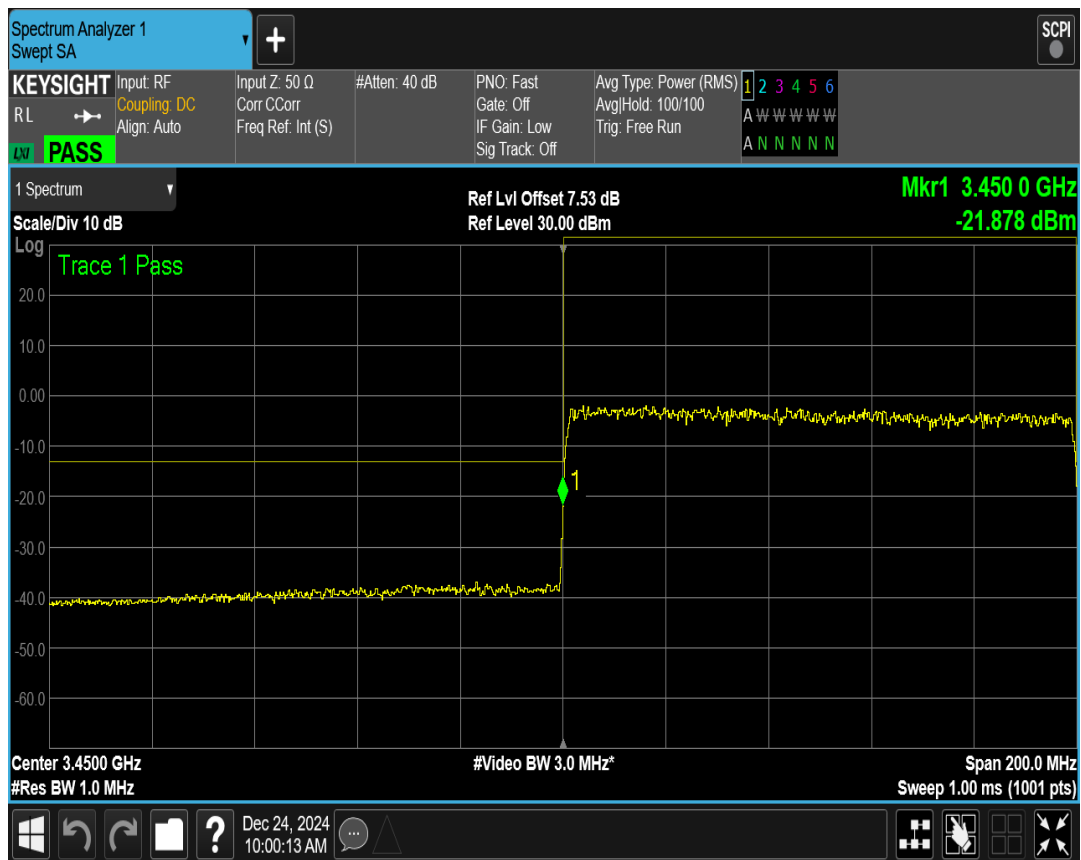
n77(3450-3550) SCS=30kHz CP\_QPSK BW=100MHz Channel=633334 RB=1@0



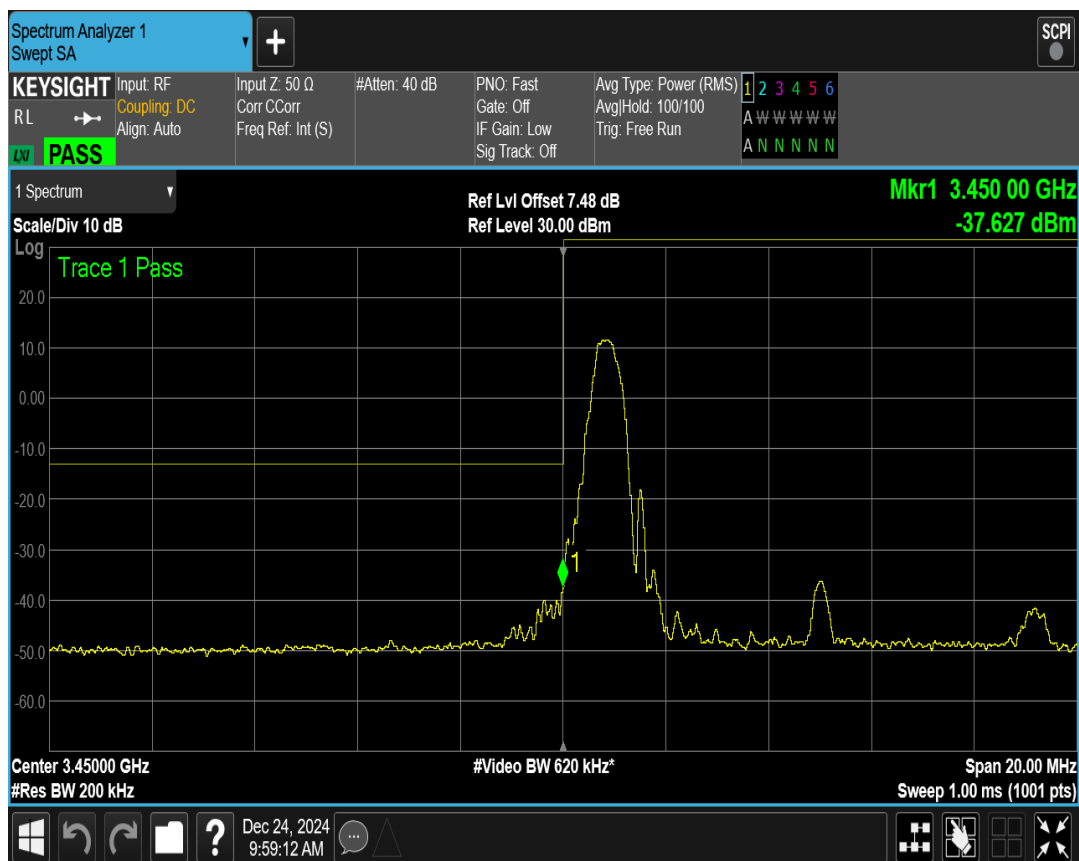
n77(3450-3550) SCS=30kHz CP\_QPSK BW=100MHz Channel=633334 RB=1@272



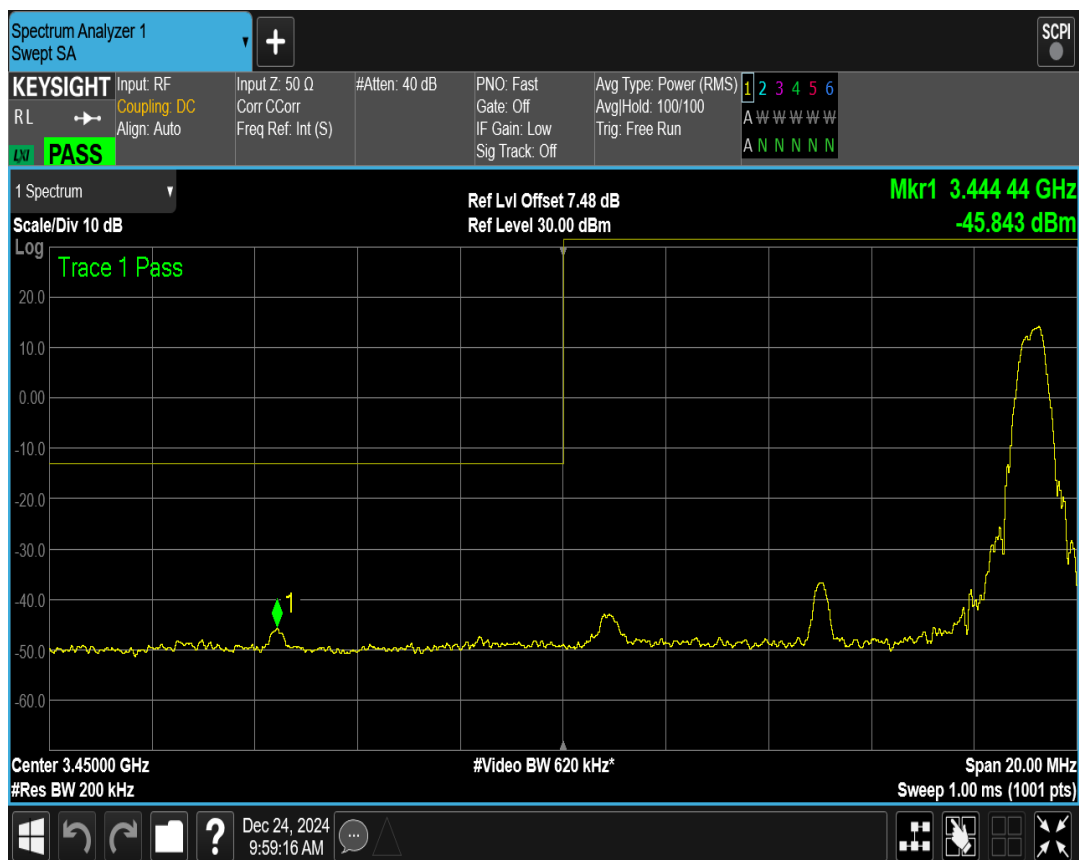
*n77(3450-3550) SCS=30kHz CP\_QPSK BW=100MHz Channel=633334 RB=273@0*



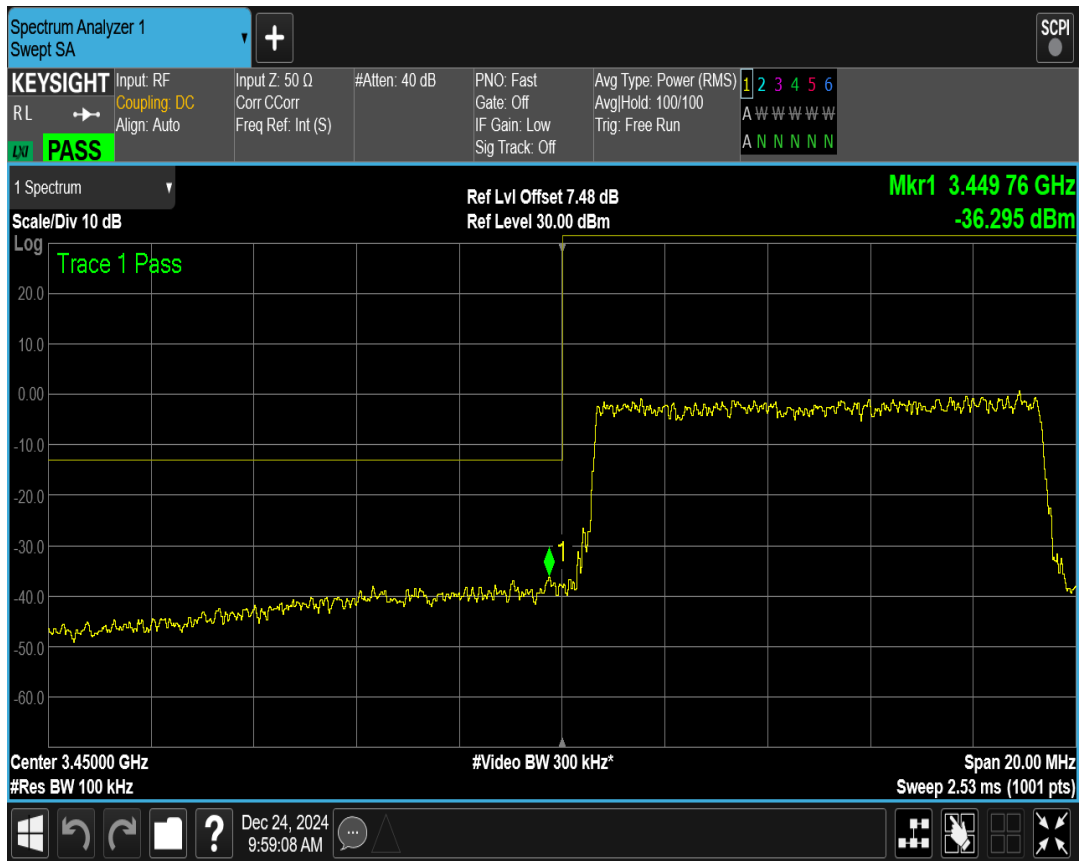
*n77(3450-3550) SCS=30kHz CP\_QPSK BW=10MHz Channel=630334 RB=1@0*



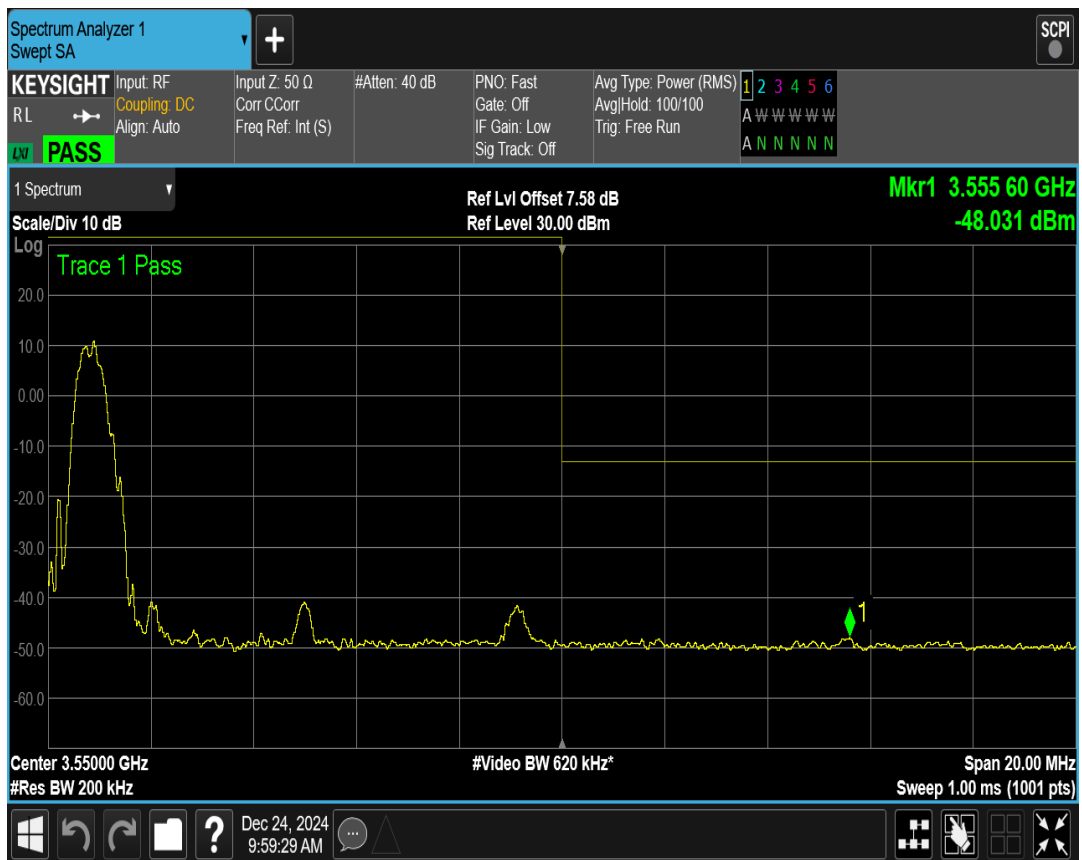
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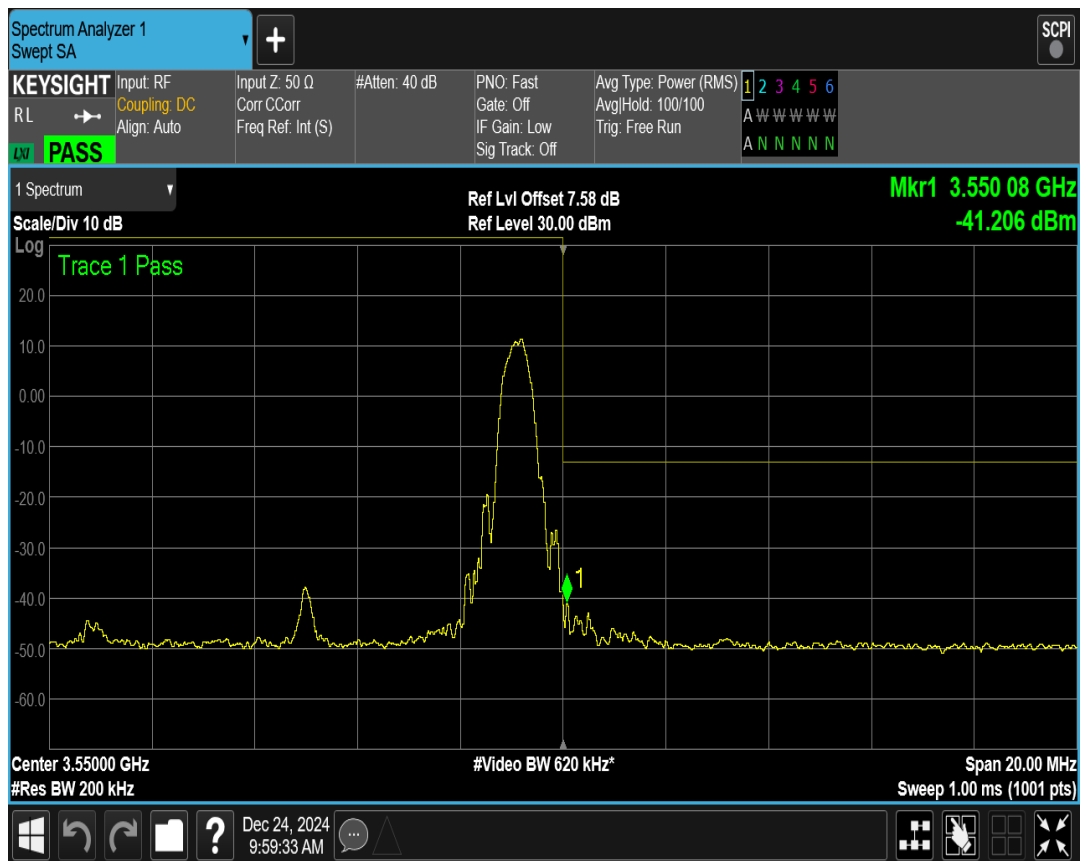
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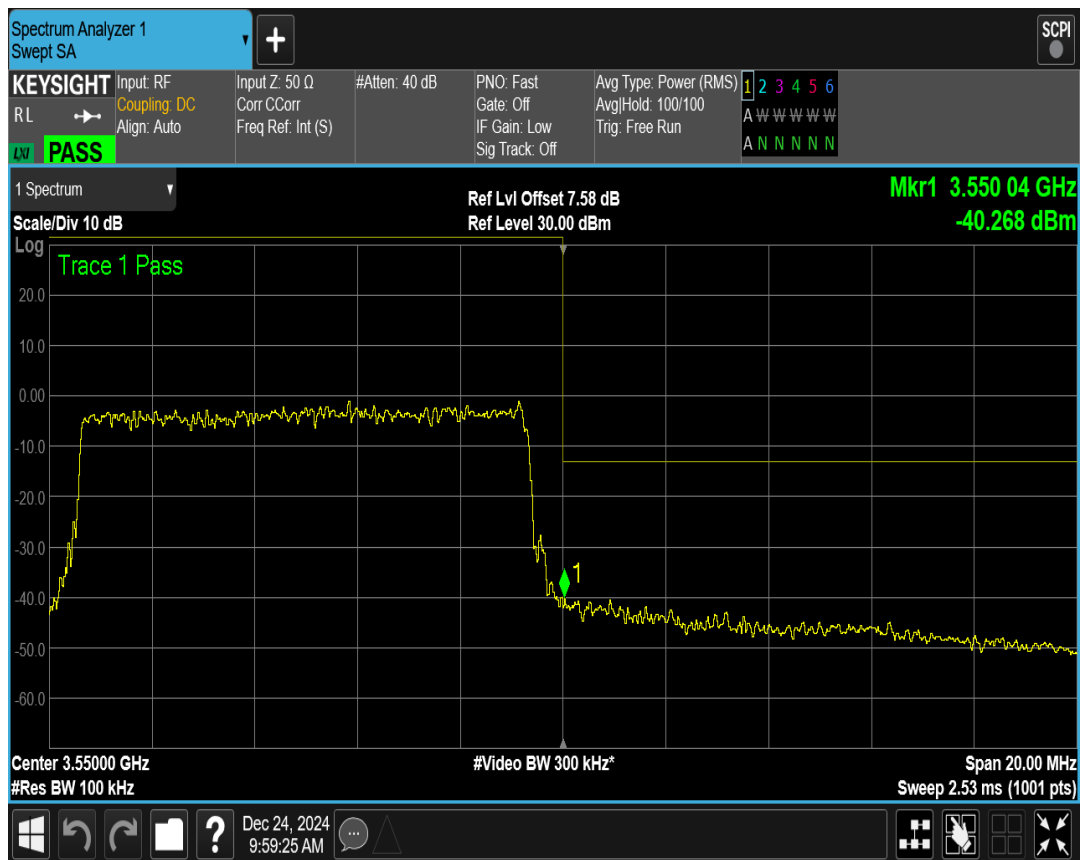
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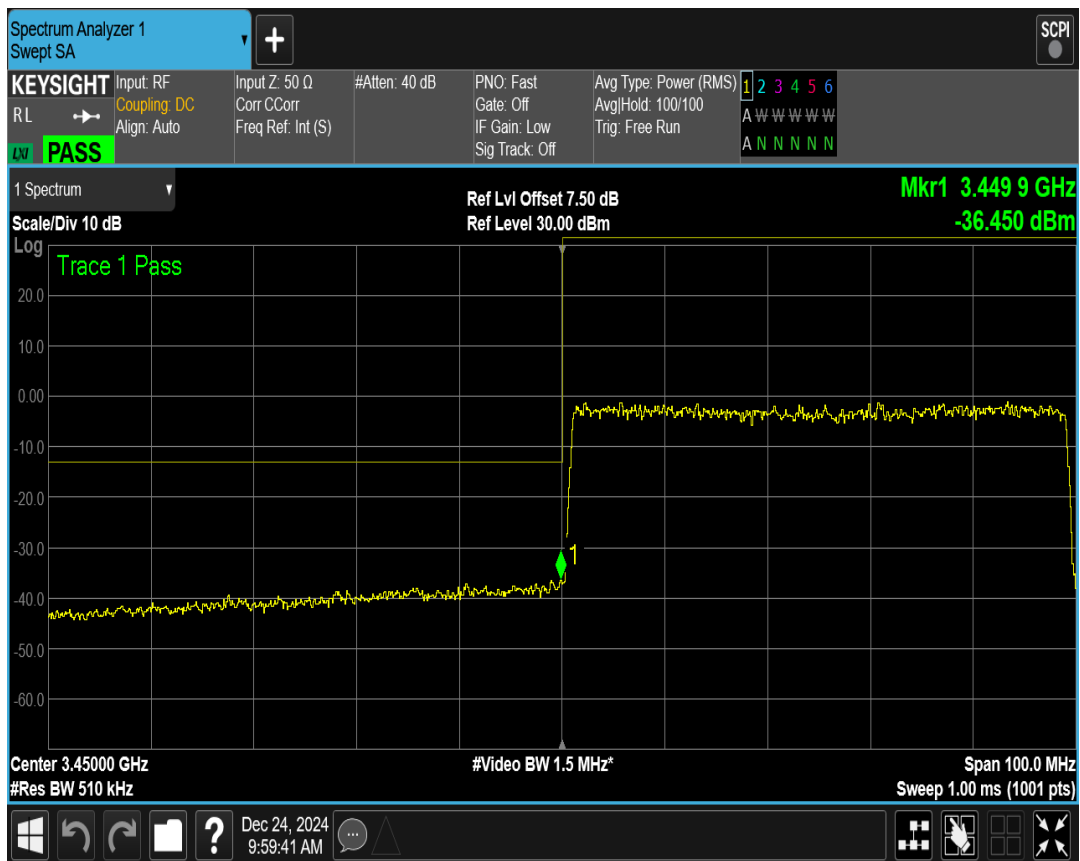
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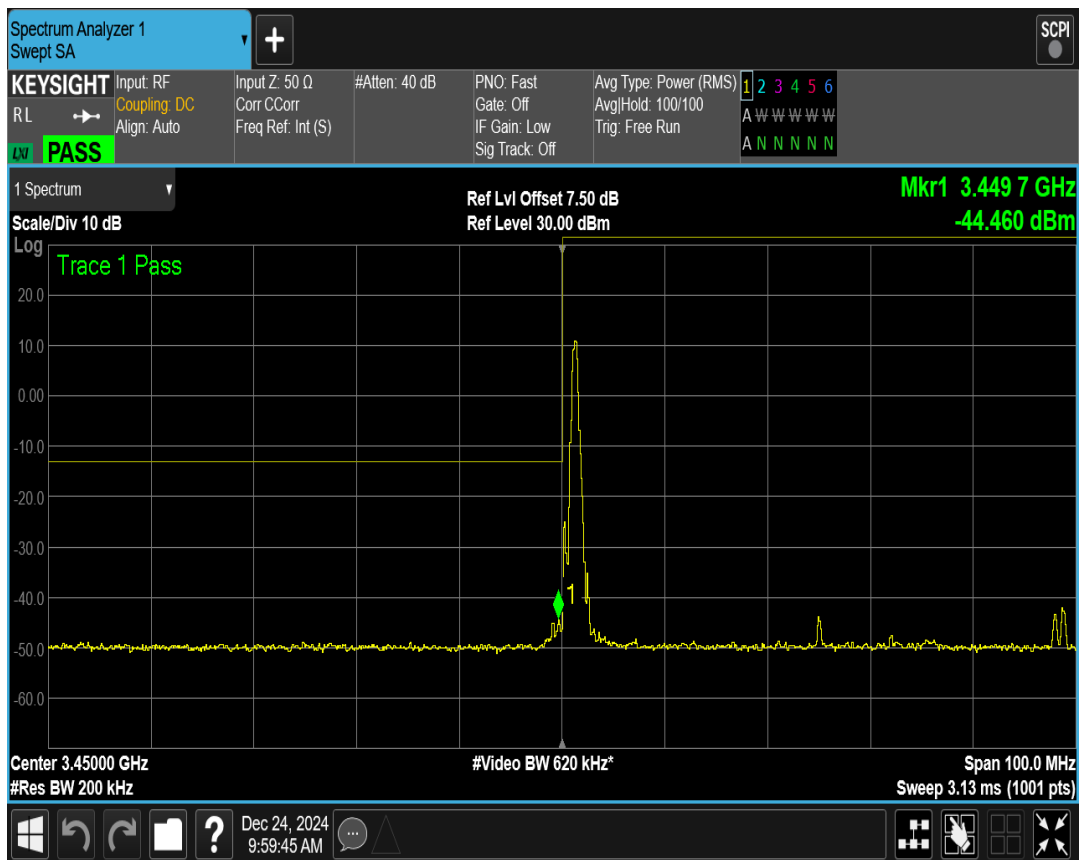
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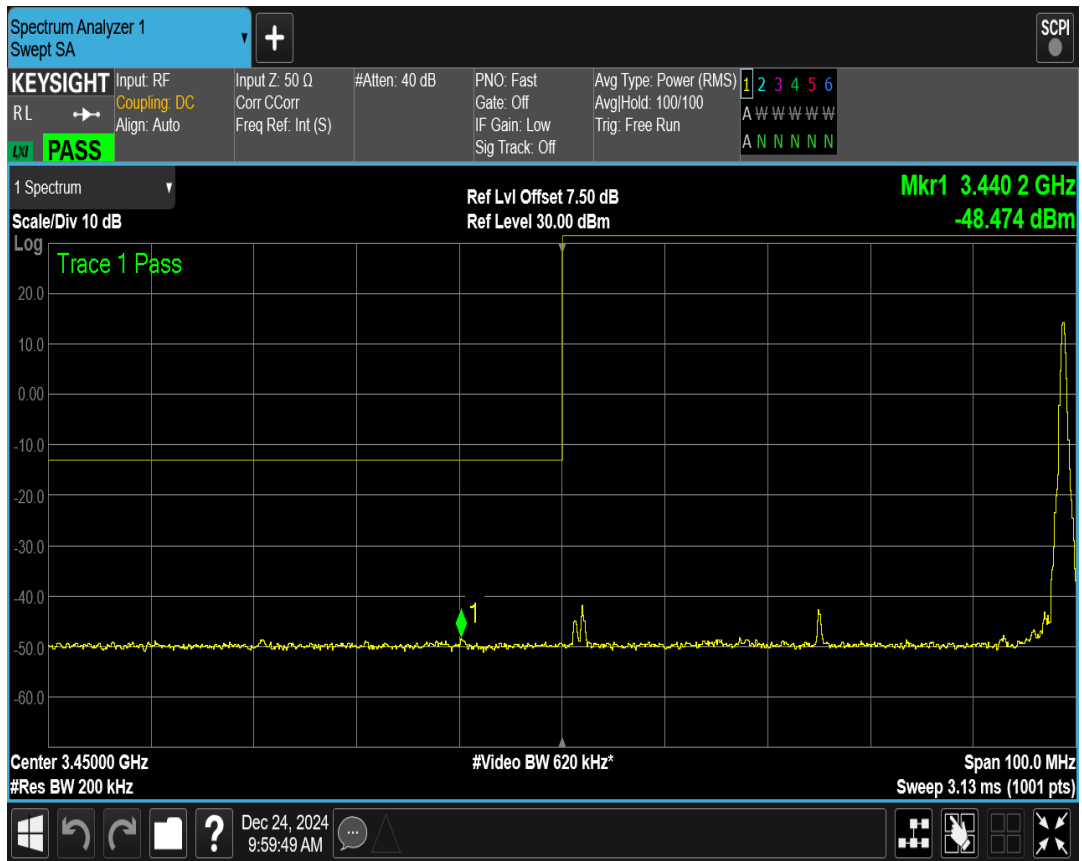
*n77(3450-3550) SCS=30kHz CP\_QPSK BW=50MHz Channel=631668 RB=133@0*



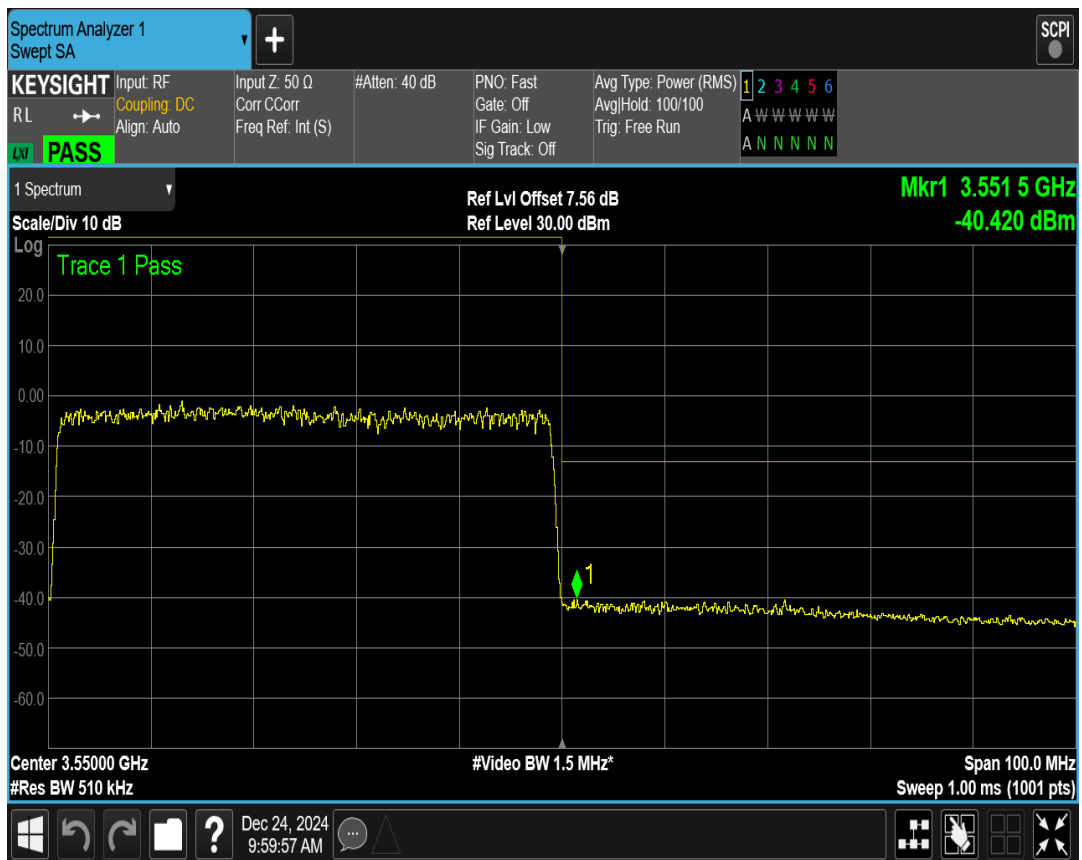
*n77(3450-3550) SCS=30kHz CP\_QPSK BW=50MHz Channel=631668 RB=1@0*



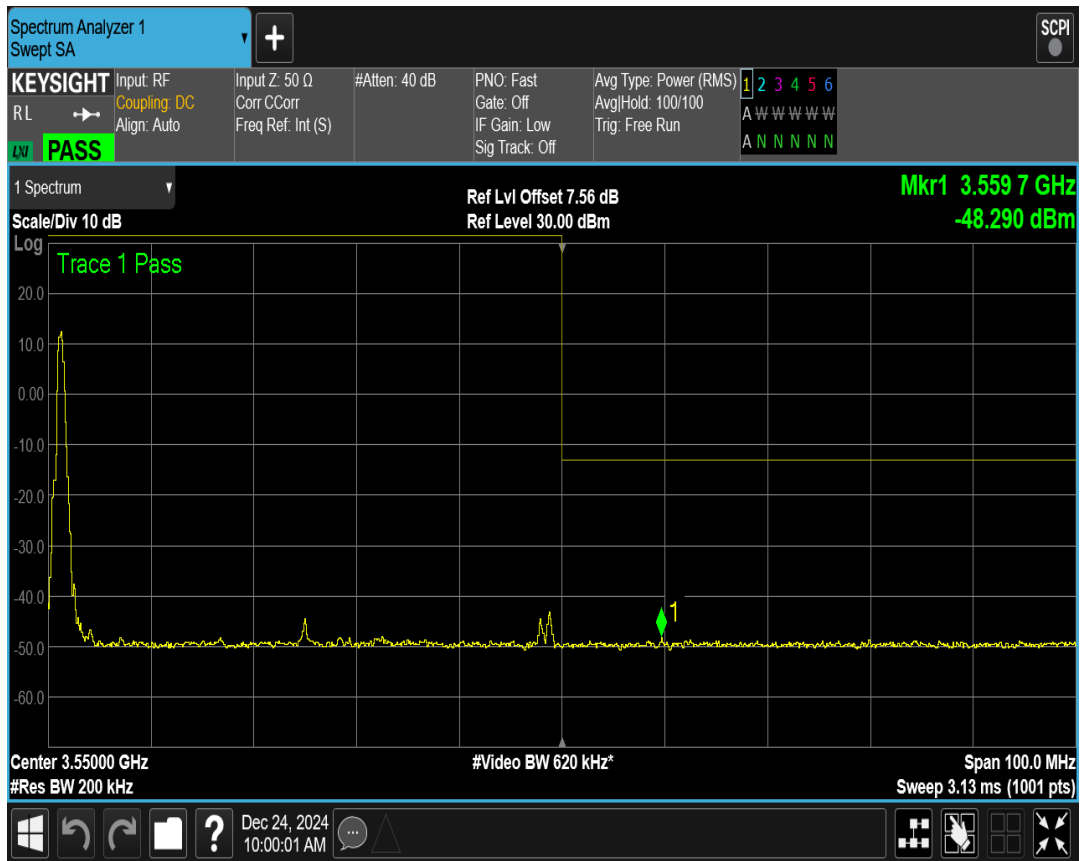
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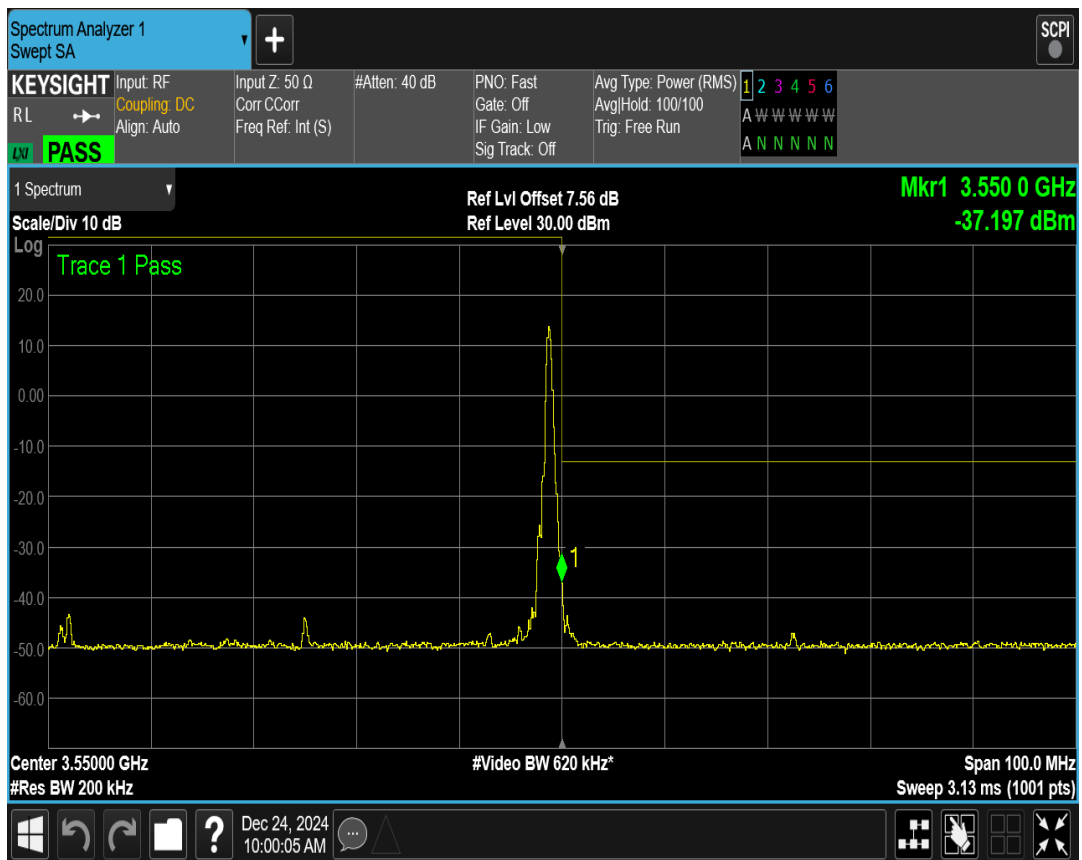
*n77(3450-3550) SCS=30kHz CP\_QPSK BW=50MHz Channel=635000 RB=133@0*



*n77(3450-3550) SCS=30kHz CP\_QPSK BW=50MHz Channel=635000 RB=1@0*



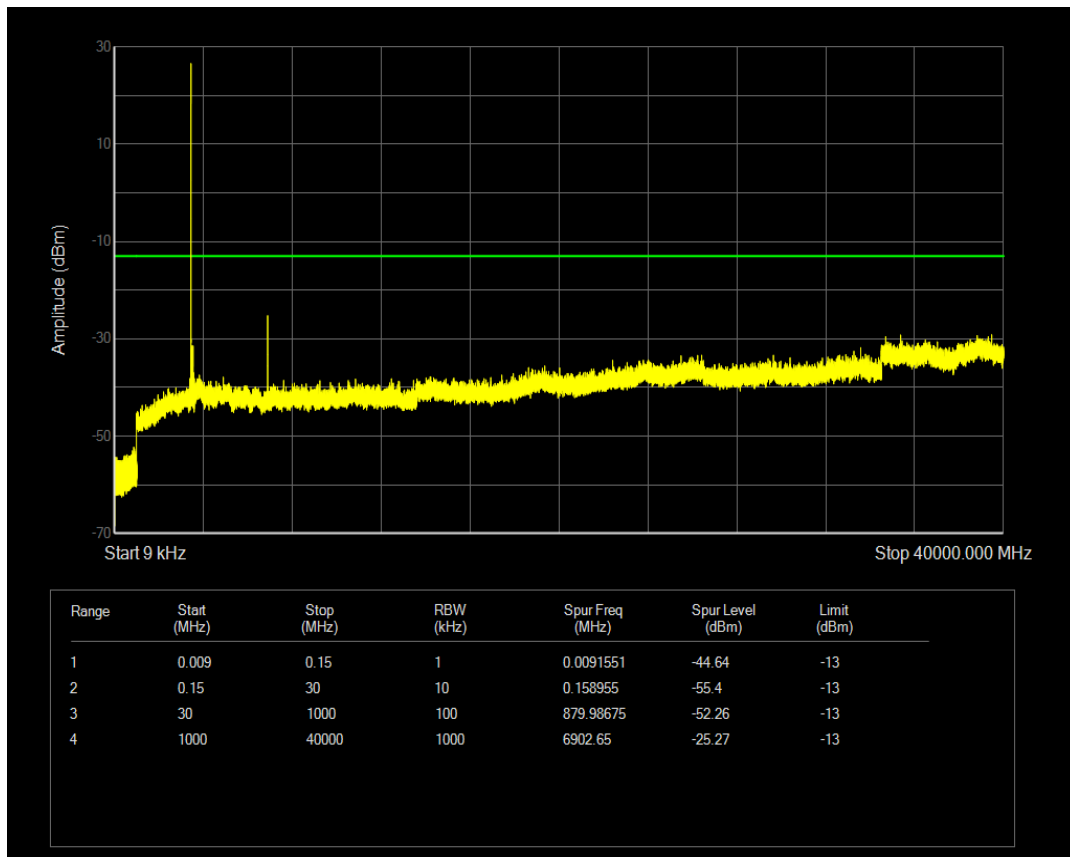
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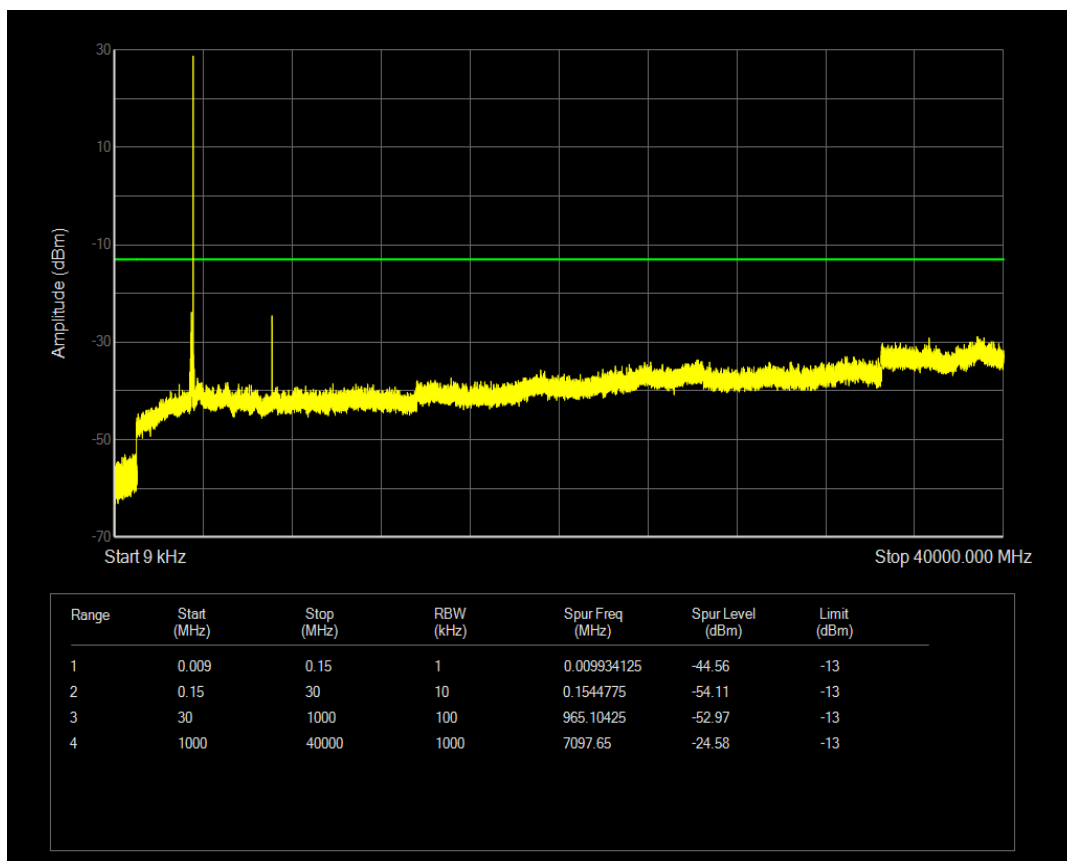
## 6 Out-of-band emissions for NR FR1

| Band           | SCS<br>(kHz) | Bandwidth<br>(MHz) | UL<br>Channel | RB<br>Allocation | Modulation | Spur Freq<br>(MHz) | Spur<br>Level<br>(dBm) | Limit<br>(dBm) | Verdict |
|----------------|--------------|--------------------|---------------|------------------|------------|--------------------|------------------------|----------------|---------|
| n77(3450-3550) | 30           | 10                 | 630334        | 24@0             | CP_QPSK    | 38871.93           | -28.82                 | -13            | PASS    |
| n77(3450-3550) | 30           | 10                 | 630334        | 1@0              | CP_QPSK    | 6901.68            | -24.48                 | -13            | PASS    |
| n77(3450-3550) | 30           | 10                 | 630334        | 1@23             | CP_QPSK    | 6918.25            | -26.73                 | -13            | PASS    |
| n77(3450-3550) | 30           | 10                 | 636332        | 24@0             | CP_QPSK    | 38921.65           | -28.42                 | -13            | PASS    |
| n77(3450-3550) | 30           | 10                 | 636332        | 1@0              | CP_QPSK    | 39810.85           | -29.23                 | -13            | PASS    |
| n77(3450-3550) | 30           | 10                 | 636332        | 1@23             | CP_QPSK    | 7097.65            | -28.50                 | -13            | PASS    |
| n77(3450-3550) | 30           | 50                 | 631668        | 133@0            | CP_QPSK    | 39098.13           | -28.88                 | -13            | PASS    |
| n77(3450-3550) | 30           | 50                 | 631668        | 1@0              | CP_QPSK    | 6902.65            | -25.28                 | -13            | PASS    |
| n77(3450-3550) | 30           | 50                 | 631668        | 1@132            | CP_QPSK    | 38939.20           | -29.18                 | -13            | PASS    |
| n77(3450-3550) | 30           | 50                 | 635000        | 133@0            | CP_QPSK    | 38803.68           | -28.66                 | -13            | PASS    |
| n77(3450-3550) | 30           | 50                 | 635000        | 1@0              | CP_QPSK    | 38734.45           | -29.61                 | -13            | PASS    |
| n77(3450-3550) | 30           | 50                 | 635000        | 1@132            | CP_QPSK    | 7097.65            | -25.55                 | -13            | PASS    |
| n77(3450-3550) | 30           | 100                | 633334        | 273@0            | CP_QPSK    | 38863.15           | -28.59                 | -13            | PASS    |
| n77(3450-3550) | 30           | 100                | 633334        | 1@0              | CP_QPSK    | 6902.65            | -25.27                 | -13            | PASS    |
| n77(3450-3550) | 30           | 100                | 633334        | 1@272            | CP_QPSK    | 7097.65            | -24.58                 | -13            | PASS    |

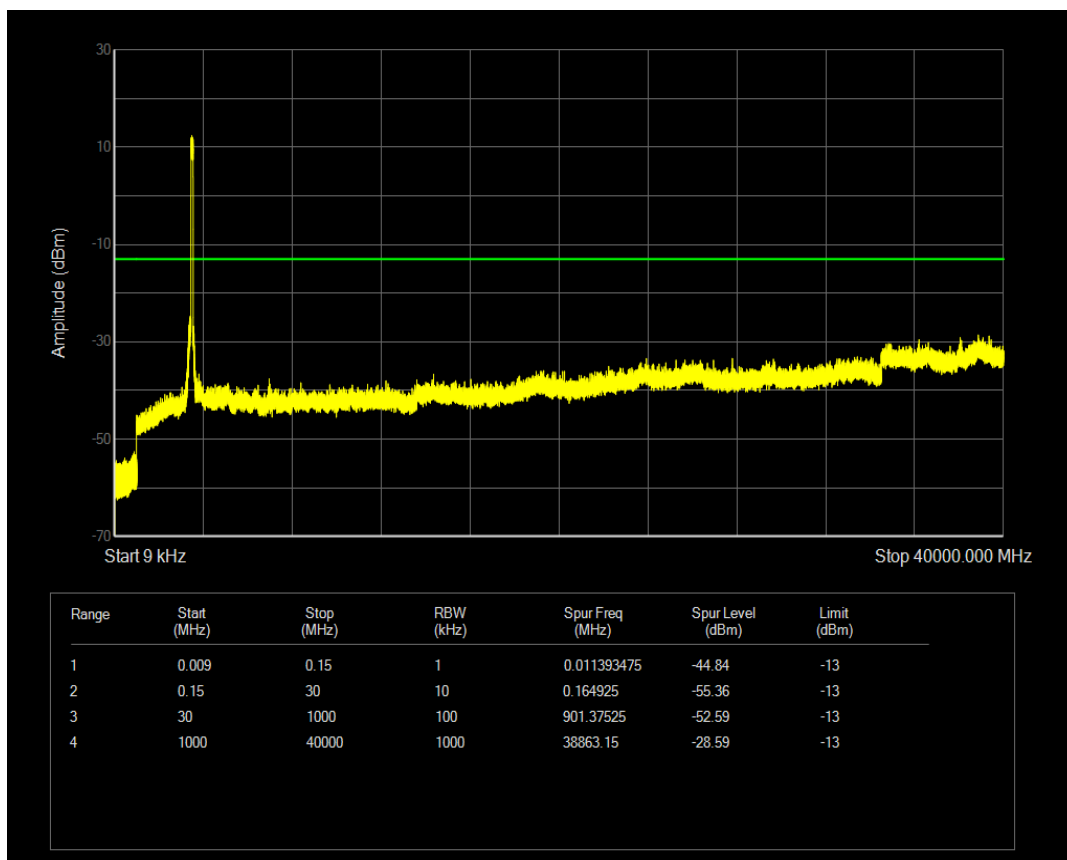
*n77(3450-3550) SCS=30kHz CP\_QPSK BW=100MHz Channel=633334 RB=1@0*



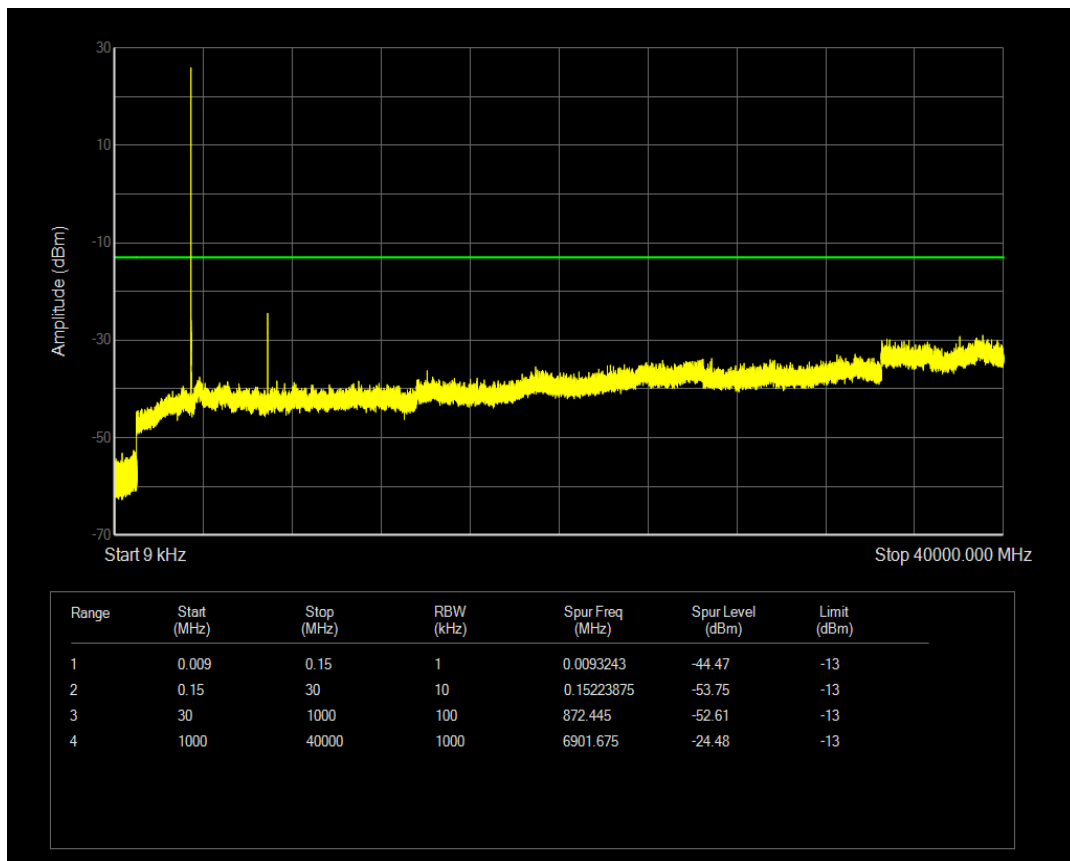
*n77(3450-3550) SCS=30kHz CP\_QPSK BW=100MHz Channel=633334 RB=1@272*



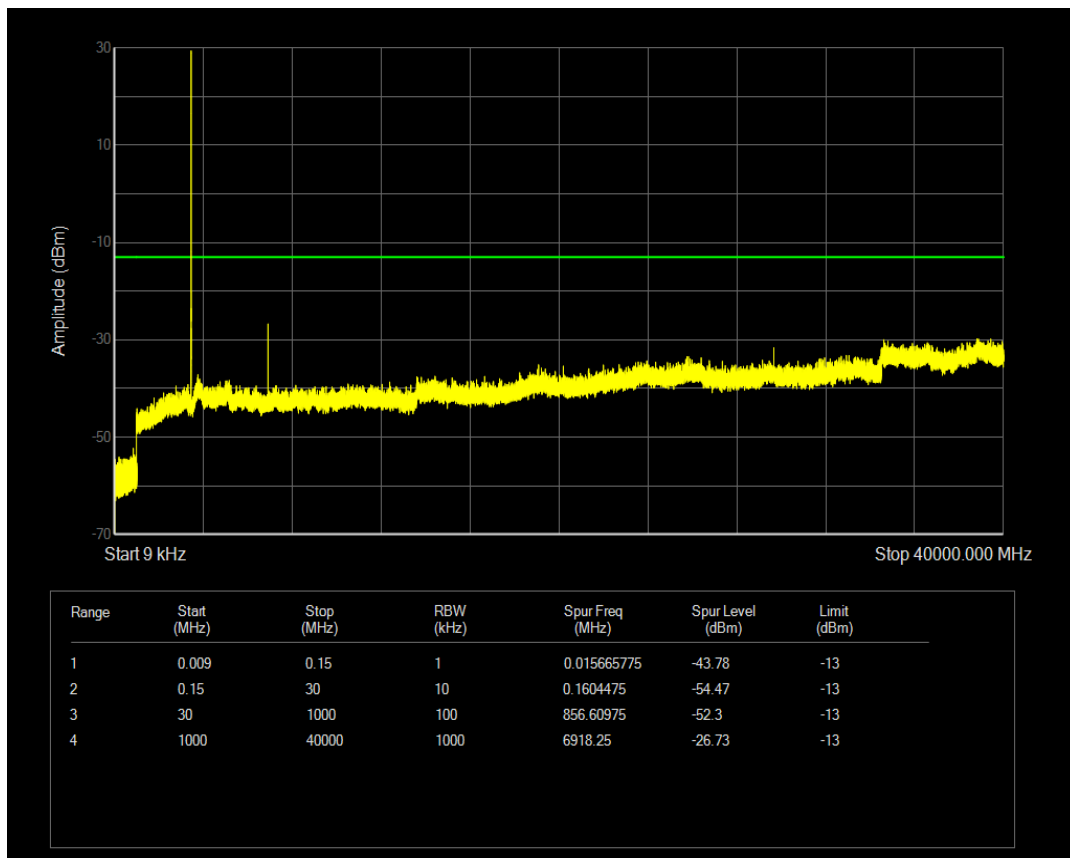
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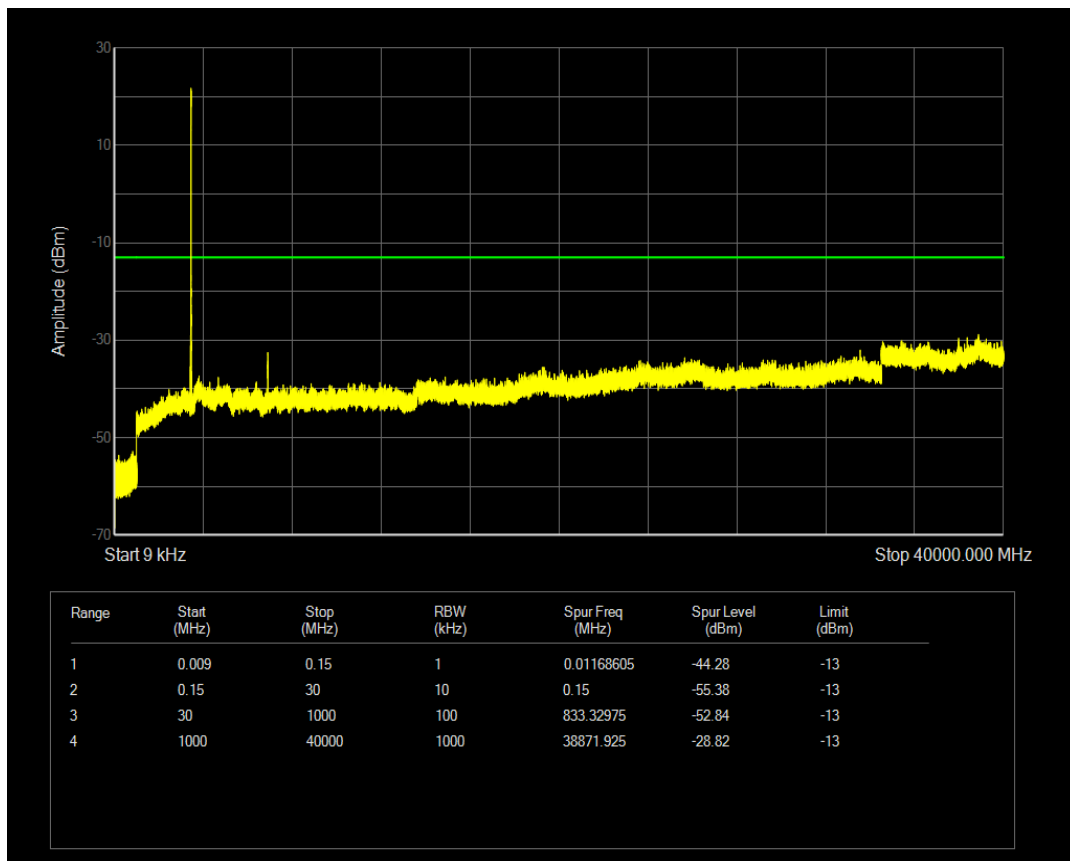
*n77(3450-3550) SCS=30kHz CP\_QPSK BW=10MHz Channel=630334 RB=1@0*



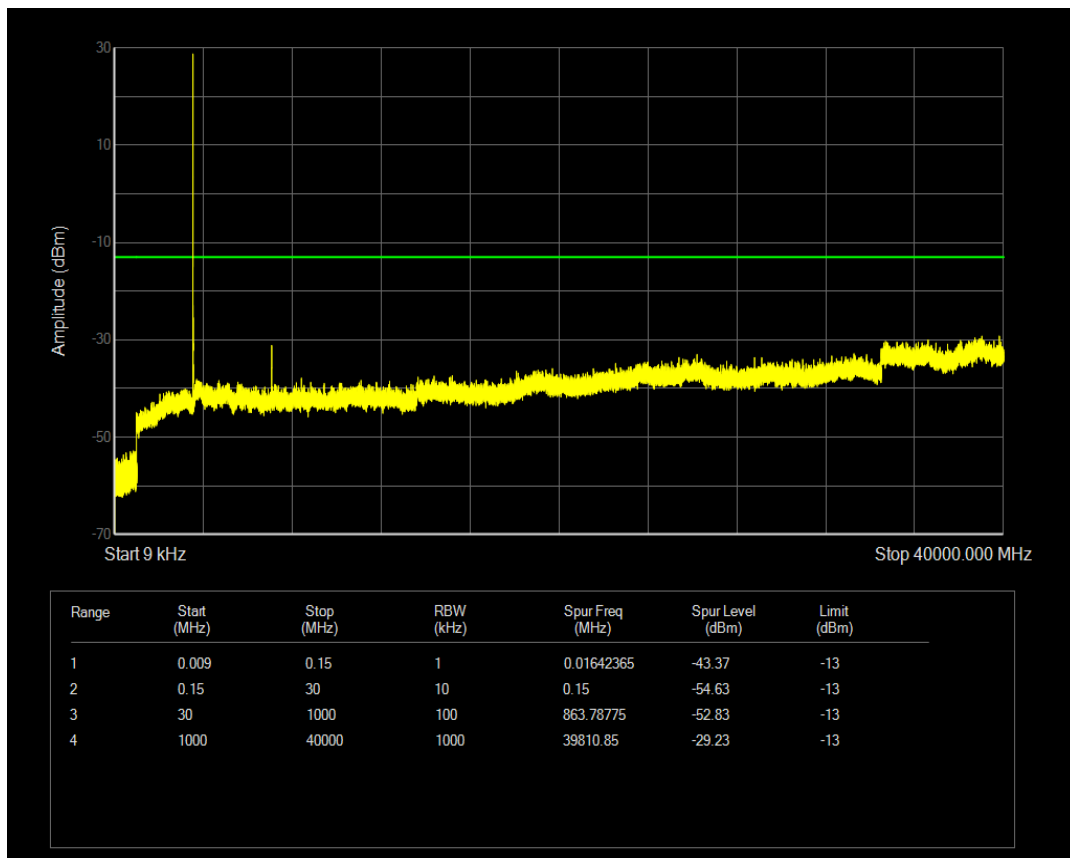
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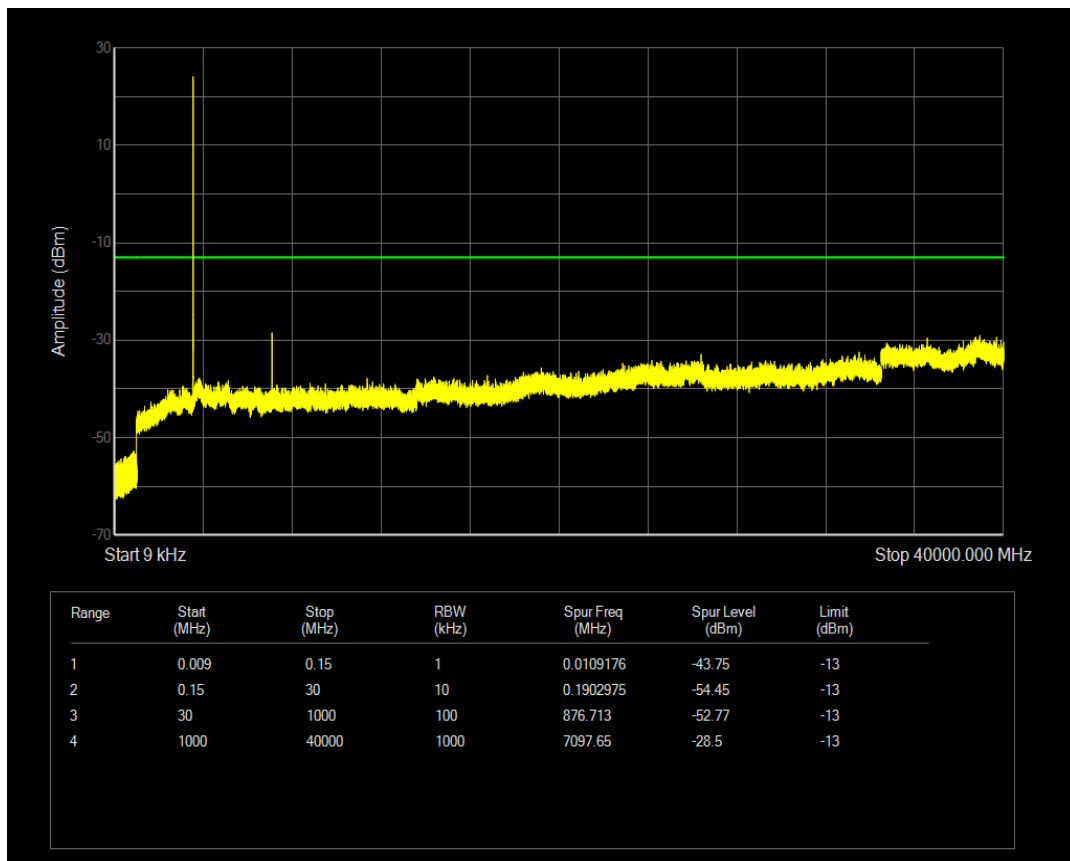
*n77(3450-3550) SCS=30kHz CP\_QPSK BW=10MHz Channel=630334 RB=24@0*



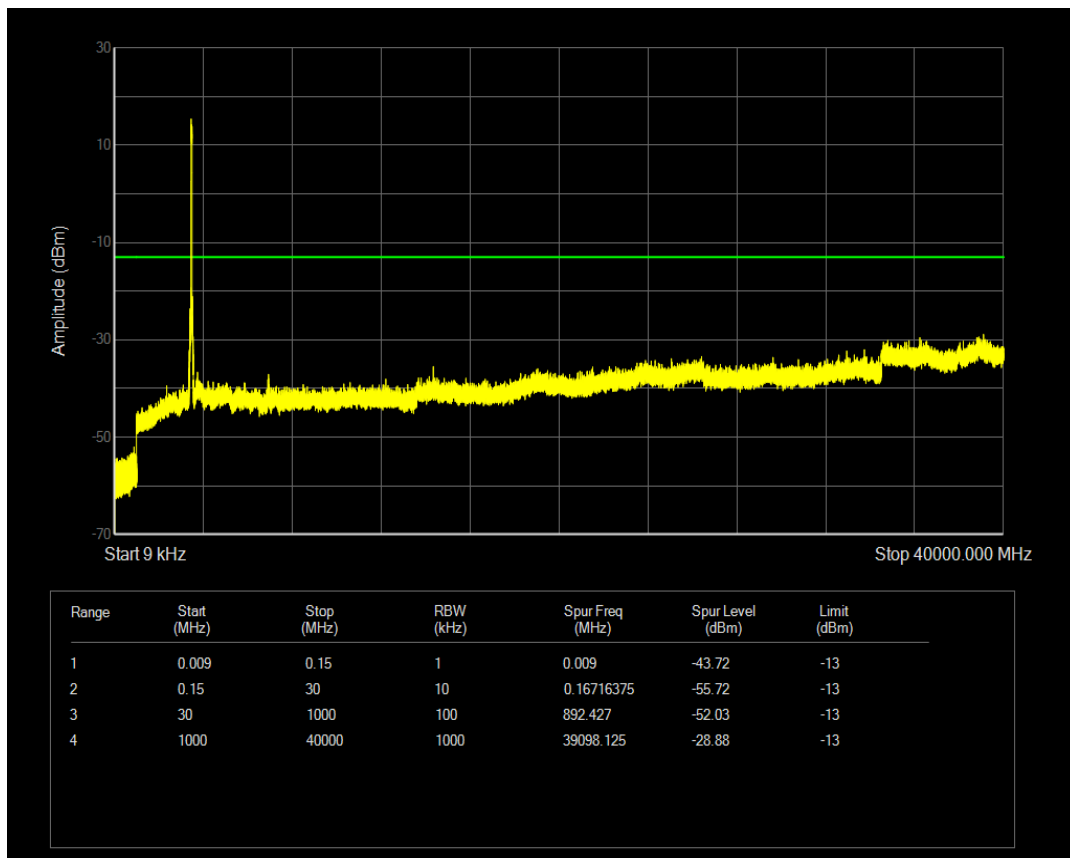
*n77(3450-3550) SCS=30kHz CP\_QPSK BW=10MHz Channel=636332 RB=1@0*



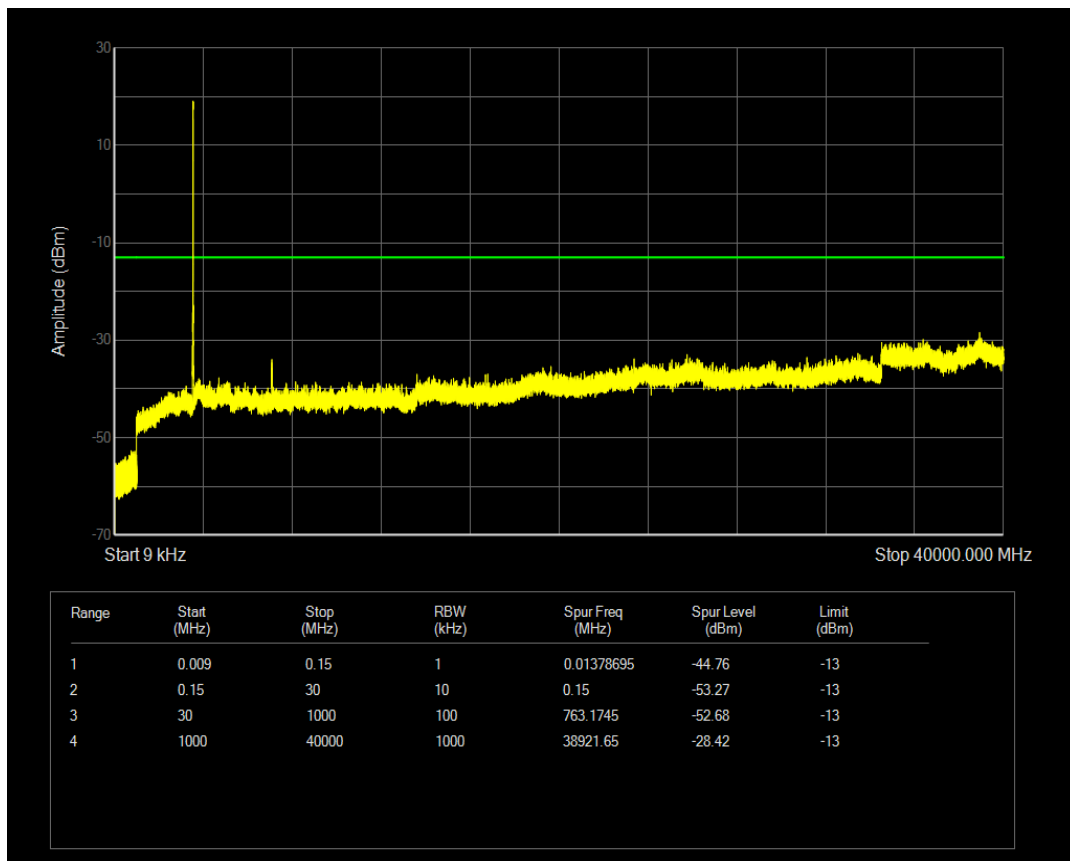
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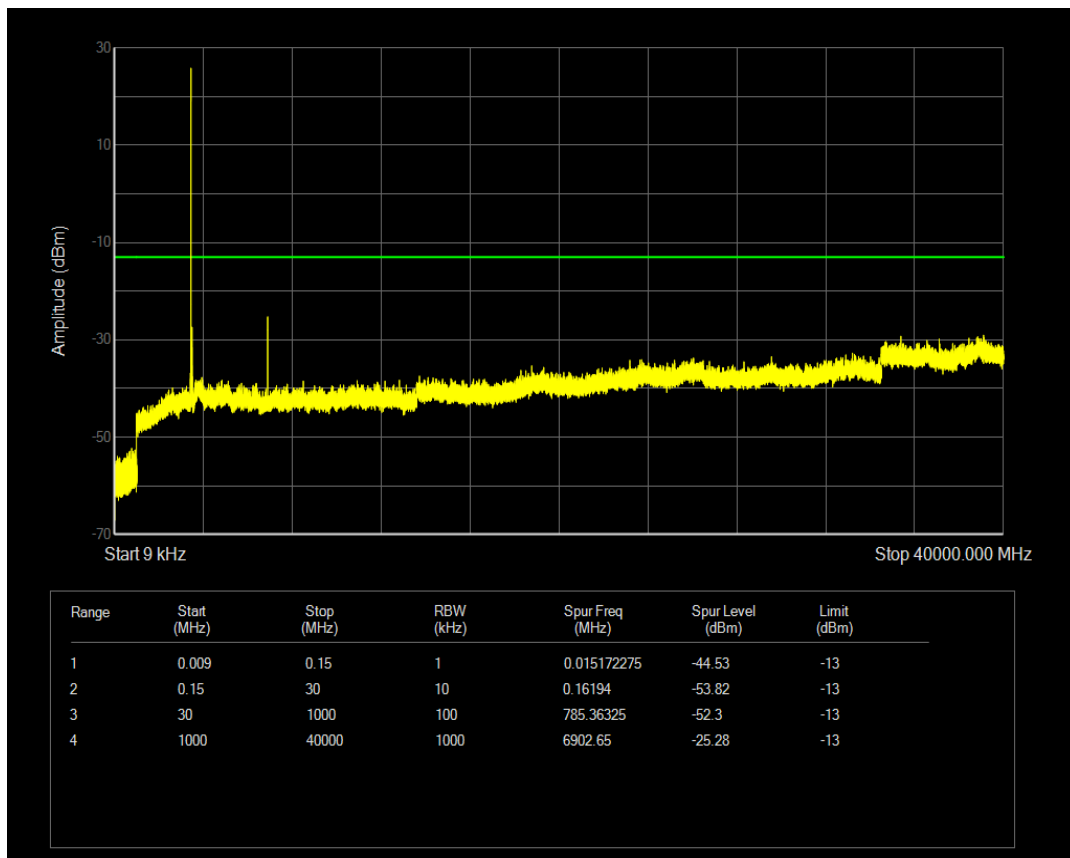
*n77(3450-3550) SCS=30kHz CP\_QPSK BW=50MHz Channel=631668 RB=133@0*



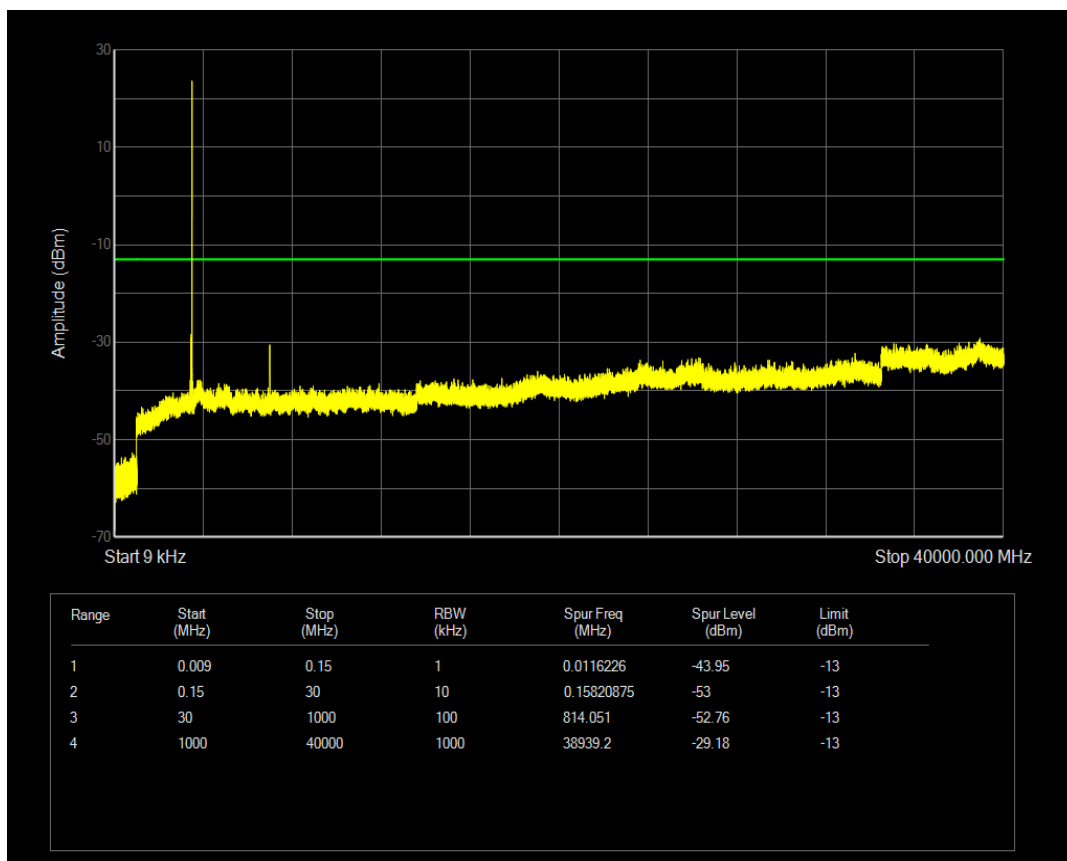
*n77(3450-3550) SCS=30kHz CP\_QPSK BW=10MHz Channel=636332 RB=24@0*



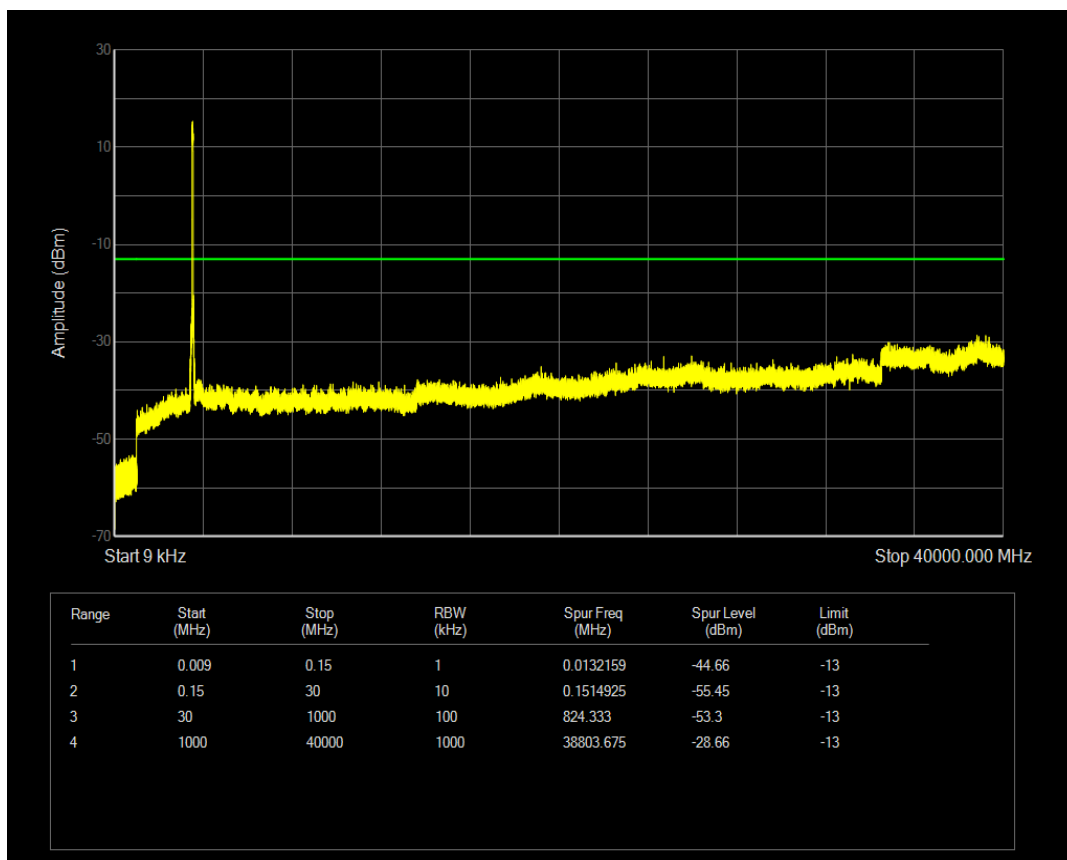
*n77(3450-3550) SCS=30kHz CP\_QPSK BW=50MHz Channel=631668 RB=1@0*



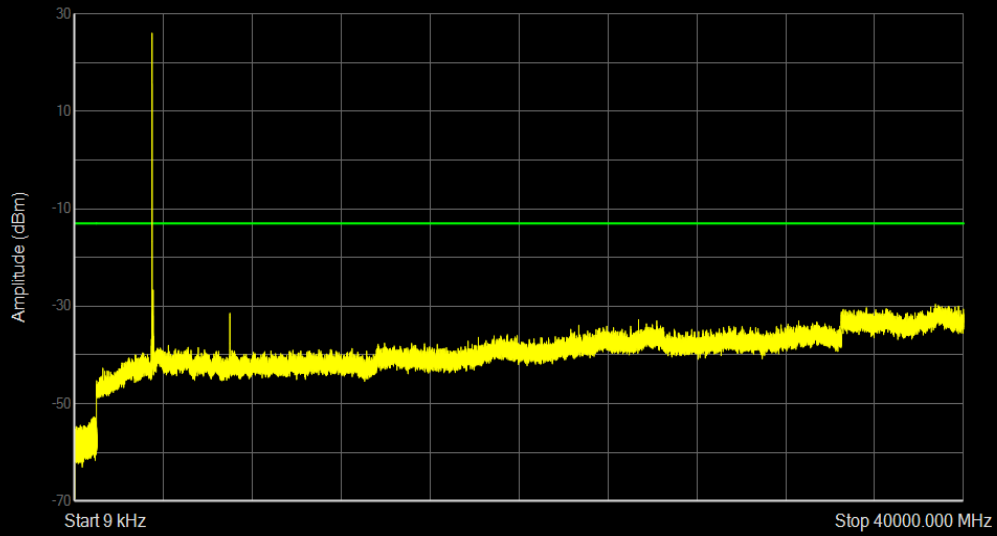
*n77(3450-3550) SCS=30kHz CP\_QPSK BW=50MHz Channel=631668 RB=1@132*



*n77(3450-3550) SCS=30kHz CP\_QPSK BW=50MHz Channel=635000 RB=133@0*

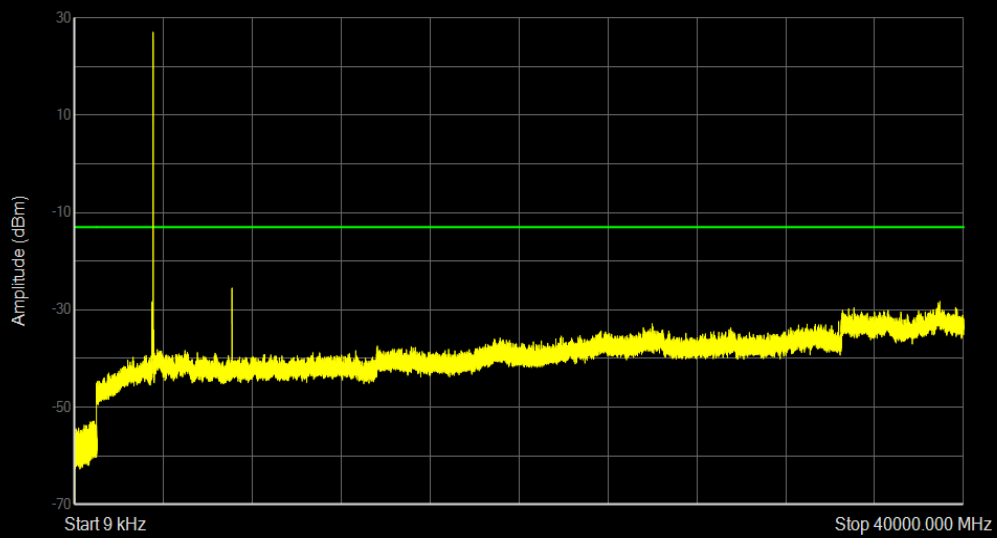


*n77(3450-3550) SCS=30kHz CP\_QPSK BW=50MHz Channel=635000 RB=1@0*



| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|-------|-------------|------------|-----------|-----------------|------------------|-------------|
| 1     | 0.009       | 0.15       | 1         | 0.011767125     | -44.09           | -13         |
| 2     | 0.15        | 30         | 10        | 0.15            | -55.27           | -13         |
| 3     | 30          | 1000       | 100       | 904.067         | -52.75           | -13         |
| 4     | 1000        | 40000      | 1000      | 38734.45        | -29.61           | -13         |

*n77(3450-3550) SCS=30kHz CP\_QPSK BW=50MHz Channel=635000 RB=1@132*



| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|-------|-------------|------------|-----------|-----------------|------------------|-------------|
| 1     | 0.009       | 0.15       | 1         | 0.012817575     | -43.93           | -13         |
| 2     | 0.15        | 30         | 10        | 0.15671625      | -55.32           | -13         |
| 3     | 30          | 1000       | 100       | 848.94675       | -52.89           | -13         |
| 4     | 1000        | 40000      | 1000      | 7097.65         | -25.55           | -13         |