



*n78 SCS=30kHz DFT\_QAM64 BW=50MHz Channel=636666 RB=128@0*



*n78 SCS=30kHz DFT\_QPSK BW=50MHz Channel=636666 RB=128@0*



*n78 SCS=30kHz DFT\_QPSK BW=60MHz Channel=636666 RB=162@0*



*n78 SCS=30kHz DFT\_QPSK BW=80MHz Channel=636666 RB=216@0*



***n78 SCS=30kHz DFT\_QPSK BW=40MHz Channel=636666 RB=100@0***



***n78 SCS=30kHz DFT\_QPSK BW=10MHz Channel=636666 RB=24@0***



***n78 SCS=30kHz DFT\_QPSK BW=15MHz Channel=636666 RB=36@0***



***n78 SCS=30kHz DFT\_QPSK BW=20MHz Channel=636666 RB=50@0***



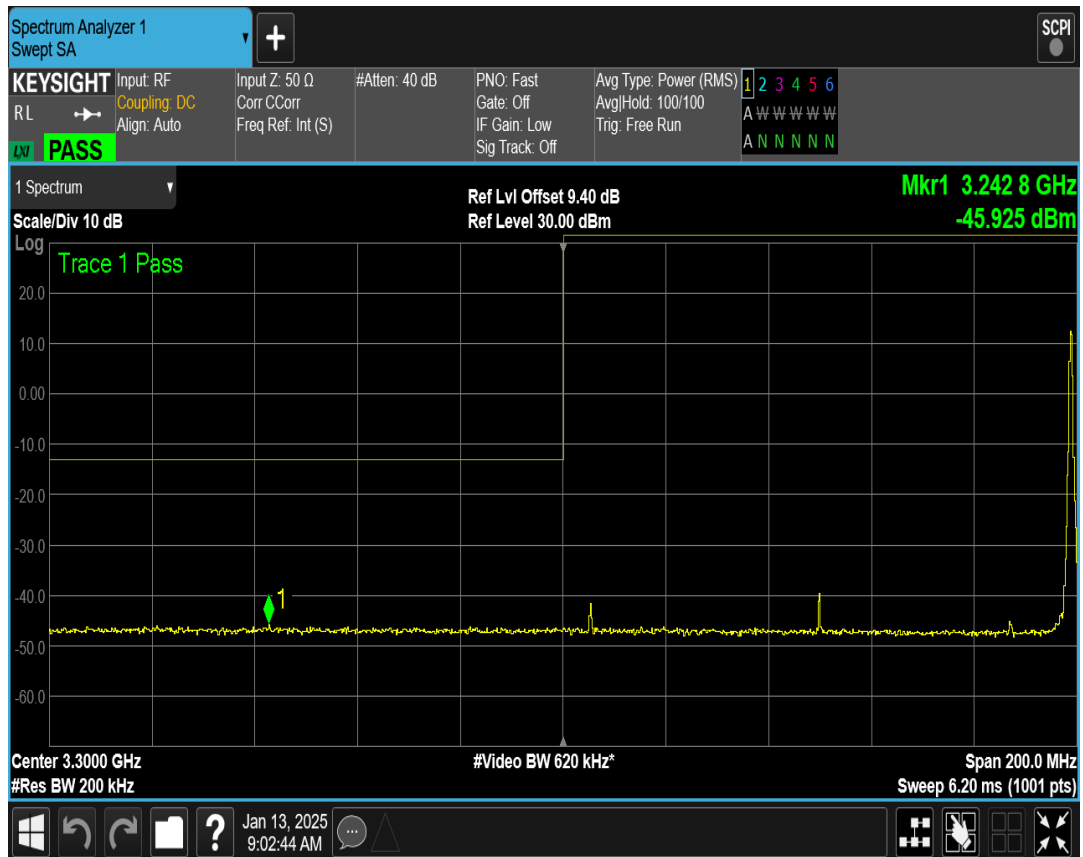
*n78 SCS=30kHz DFT\_QPSK BW=90MHz Channel=636666 RB=240@0*



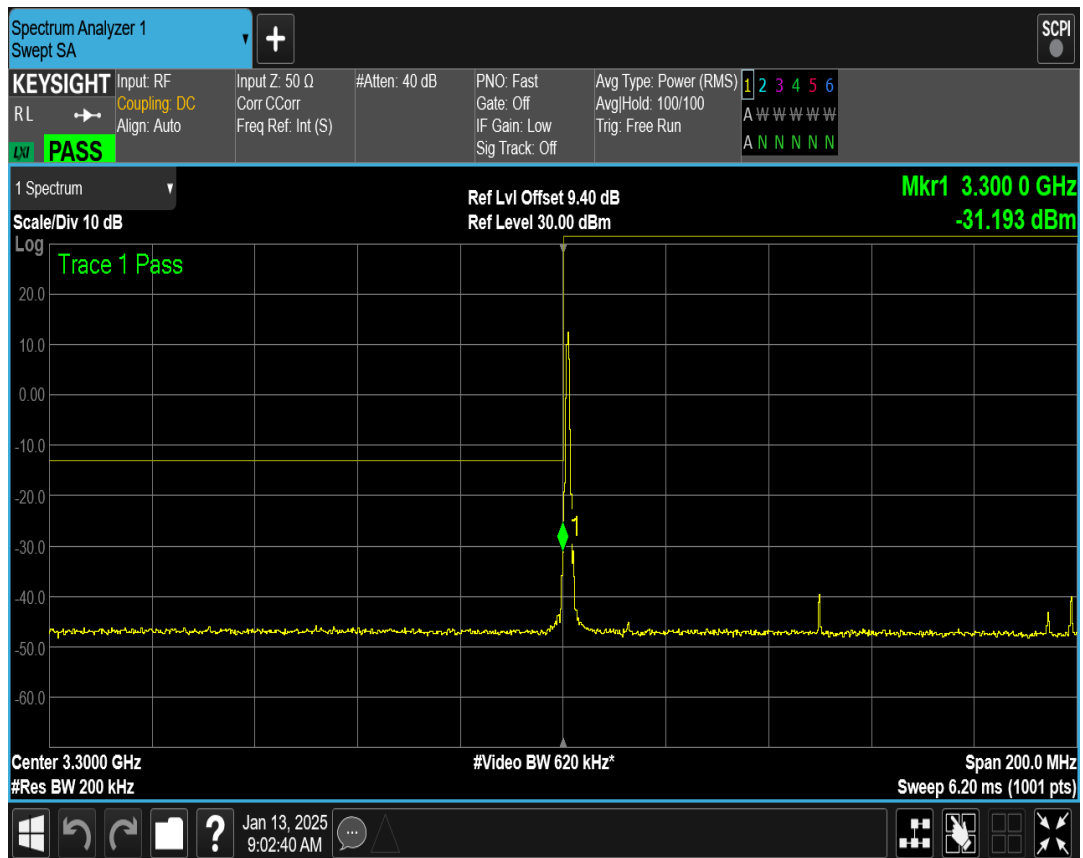
## 5 Band edge for EN-DC

| Band | SCS<br>(kHz) | Bandwidth<br>(MHz) | UL<br>Channel | RB<br>Allocation | Modulation | Spur Freq<br>(MHz) | Spur Level<br>(dBm) | Limit<br>(dBm) | Verdict |
|------|--------------|--------------------|---------------|------------------|------------|--------------------|---------------------|----------------|---------|
| n78  | 30           | 10                 | 620334        | 24@0             | CP_QPSK    | 3299.98            | -30.81              | -13            | PASS    |
| n78  | 30           | 10                 | 620334        | 1@0              | CP_QPSK    | 3299.92            | -41.10              | -13            | PASS    |
| n78  | 30           | 10                 | 620334        | 1@23             | CP_QPSK    | 3294.38            | -44.97              | -13            | PASS    |
| n78  | 30           | 10                 | 653000        | 24@0             | CP_QPSK    | 3800.52            | -41.76              | -13            | PASS    |
| n78  | 30           | 10                 | 653000        | 1@0              | CP_QPSK    | 3800.36            | -42.16              | -13            | PASS    |
| n78  | 30           | 10                 | 653000        | 1@23             | CP_QPSK    | 3800.04            | -35.78              | -13            | PASS    |
| n78  | 30           | 50                 | 621668        | 133@0            | CP_QPSK    | 3295.10            | -36.51              | -13            | PASS    |
| n78  | 30           | 50                 | 621668        | 1@0              | CP_QPSK    | 3300.00            | -41.18              | -13            | PASS    |
| n78  | 30           | 50                 | 621668        | 1@132            | CP_QPSK    | 3290.30            | -46.10              | -13            | PASS    |
| n78  | 30           | 50                 | 651666        | 133@0            | CP_QPSK    | 3800.70            | -36.70              | -13            | PASS    |
| n78  | 30           | 50                 | 651666        | 1@0              | CP_QPSK    | 3826.20            | -42.32              | -13            | PASS    |
| n78  | 30           | 50                 | 651666        | 1@132            | CP_QPSK    | 3800.00            | -33.52              | -13            | PASS    |
| n78  | 30           | 100                | 623334        | 273@0            | CP_QPSK    | 3300.00            | -21.88              | -13            | PASS    |
| n78  | 30           | 100                | 623334        | 1@0              | CP_QPSK    | 3300.00            | -31.19              | -13            | PASS    |
| n78  | 30           | 100                | 623334        | 1@272            | CP_QPSK    | 3242.80            | -45.92              | -13            | PASS    |
| n78  | 30           | 100                | 650000        | 273@0            | CP_QPSK    | 3800.00            | -20.33              | -13            | PASS    |
| n78  | 30           | 100                | 650000        | 1@0              | CP_QPSK    | 3808.20            | -42.44              | -13            | PASS    |
| n78  | 30           | 100                | 650000        | 1@272            | CP_QPSK    | 3800.00            | -39.95              | -13            | PASS    |

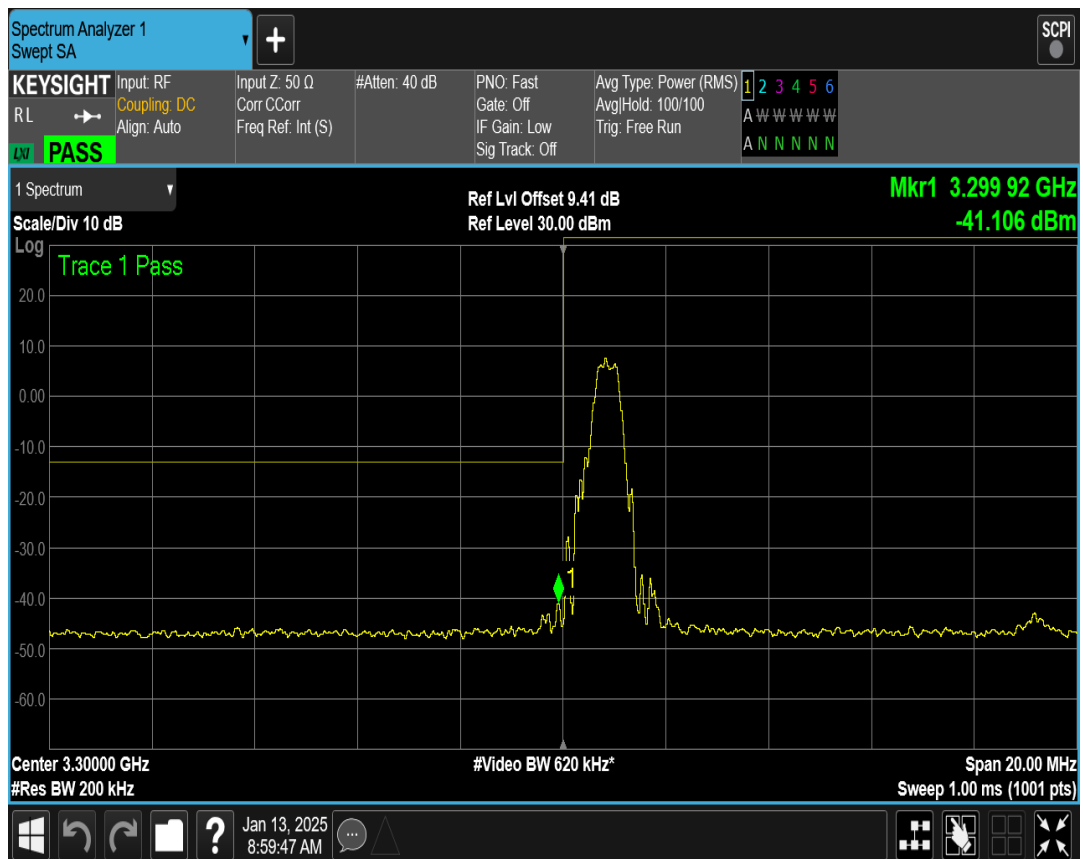
n78 SCS=30kHz CP\_QPSK BW=100MHz Channel=623334 RB=1@272



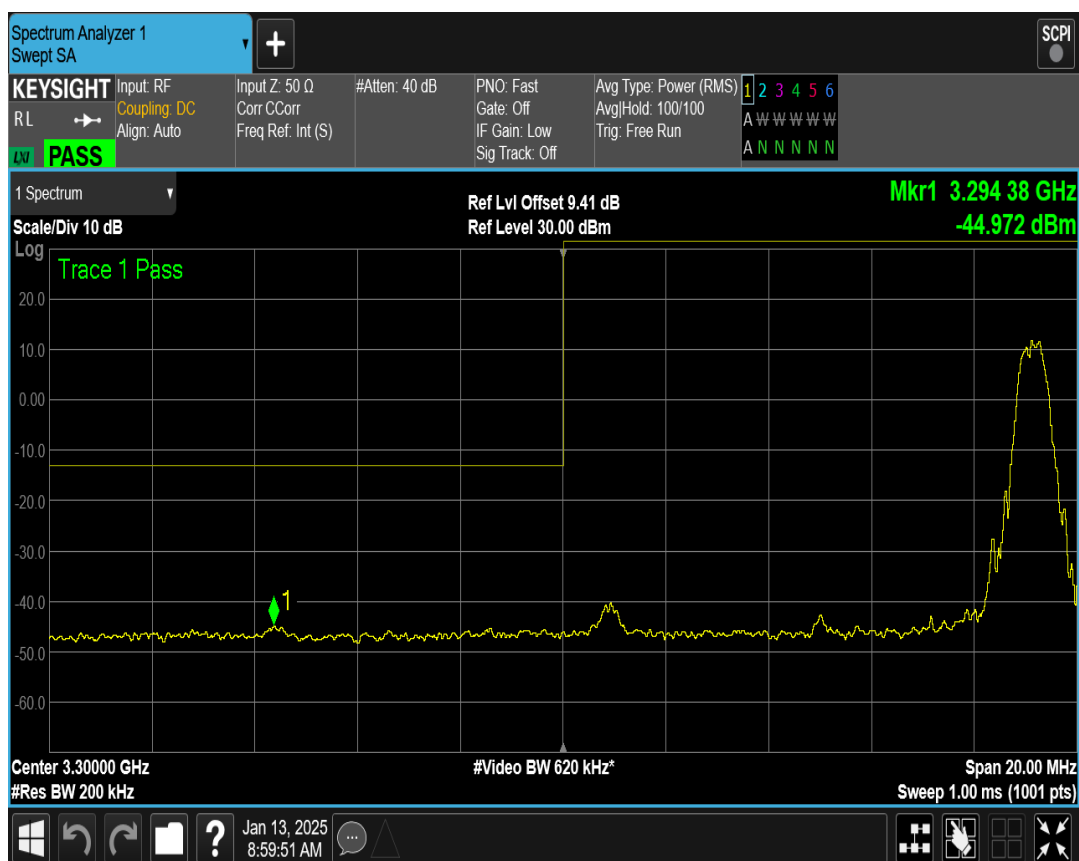
n78 SCS=30kHz CP\_QPSK BW=100MHz Channel=623334 RB=1@0



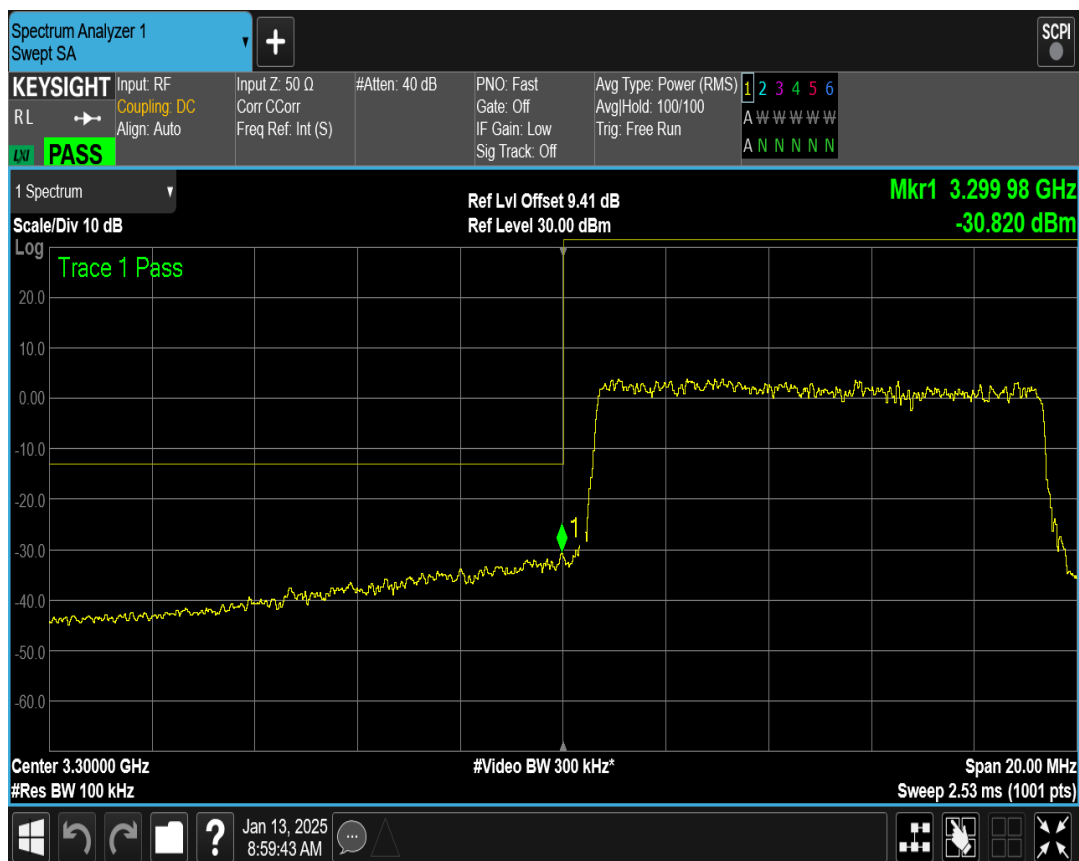
n78 SCS=30kHz CP\_QPSK BW=10MHz Channel=620334 RB=1@0



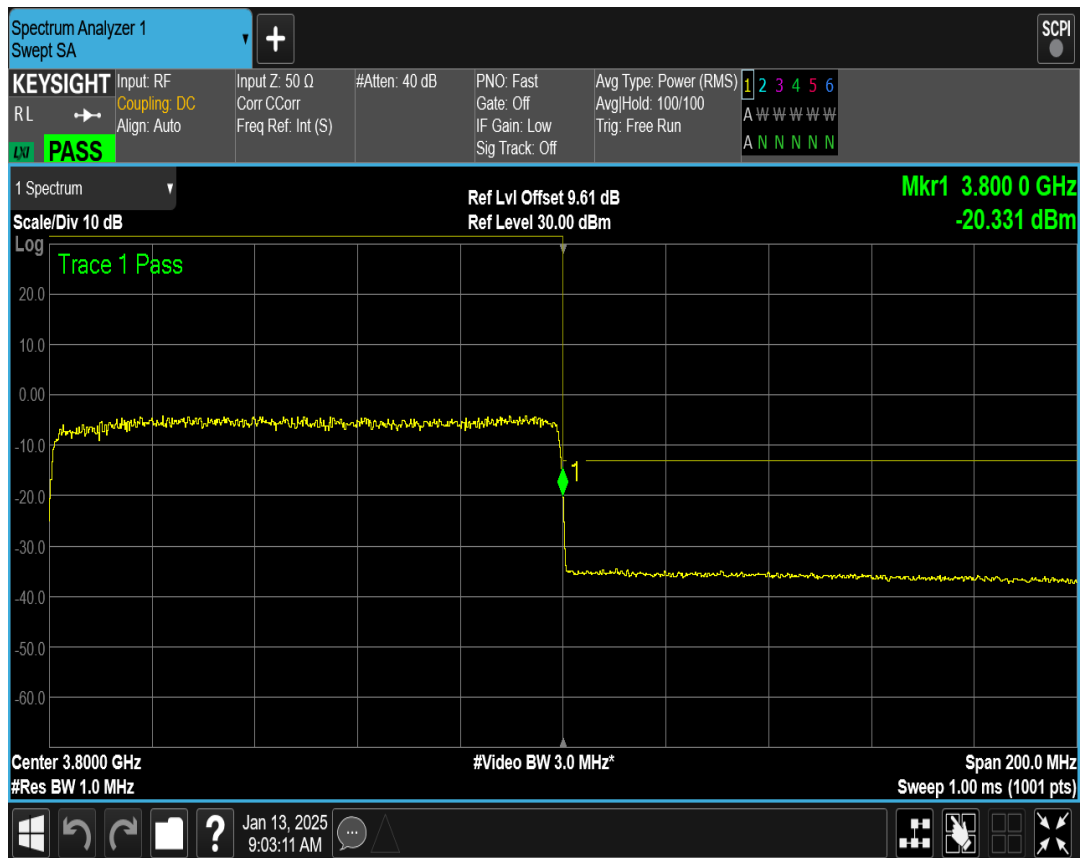
n78 SCS=30kHz CP\_QPSK BW=10MHz Channel=620334 RB=1@23



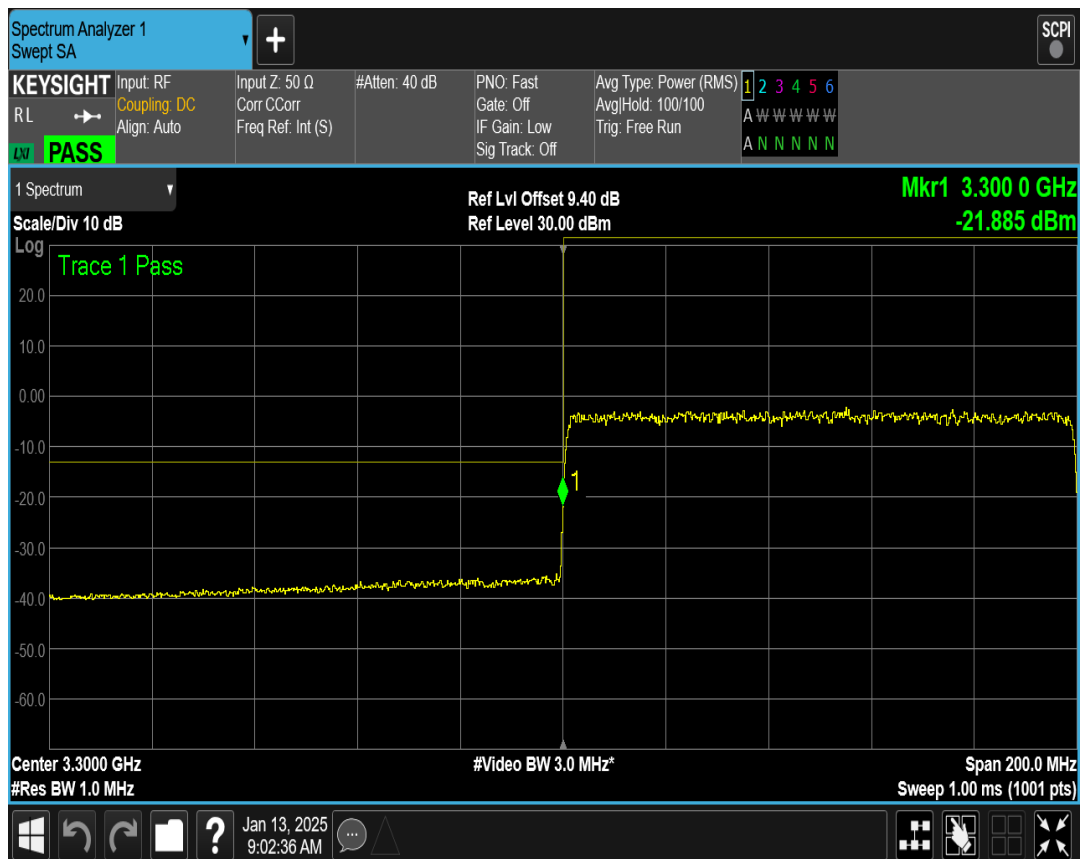
n78 SCS=30kHz CP\_QPSK BW=10MHz Channel=620334 RB=24@0



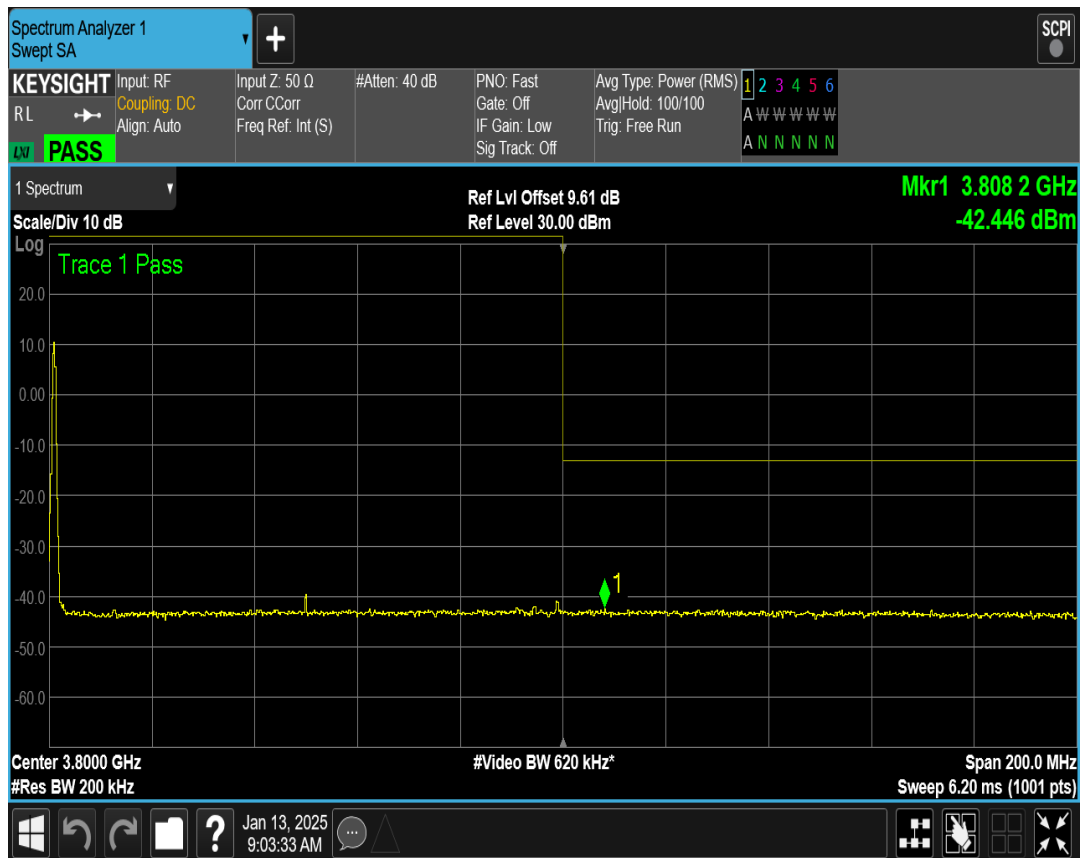
n78 SCS=30kHz CP\_QPSK BW=100MHz Channel=650000 RB=273@0



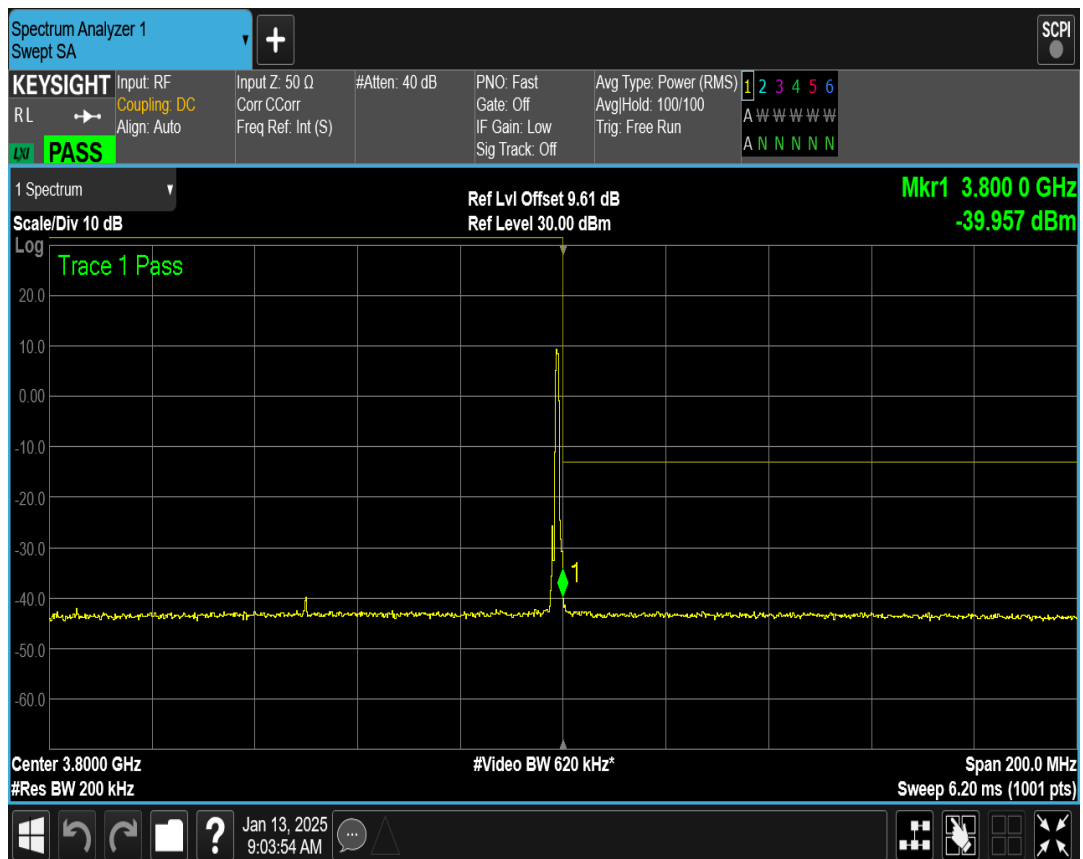
n78 SCS=30kHz CP\_QPSK BW=100MHz Channel=623334 RB=273@0



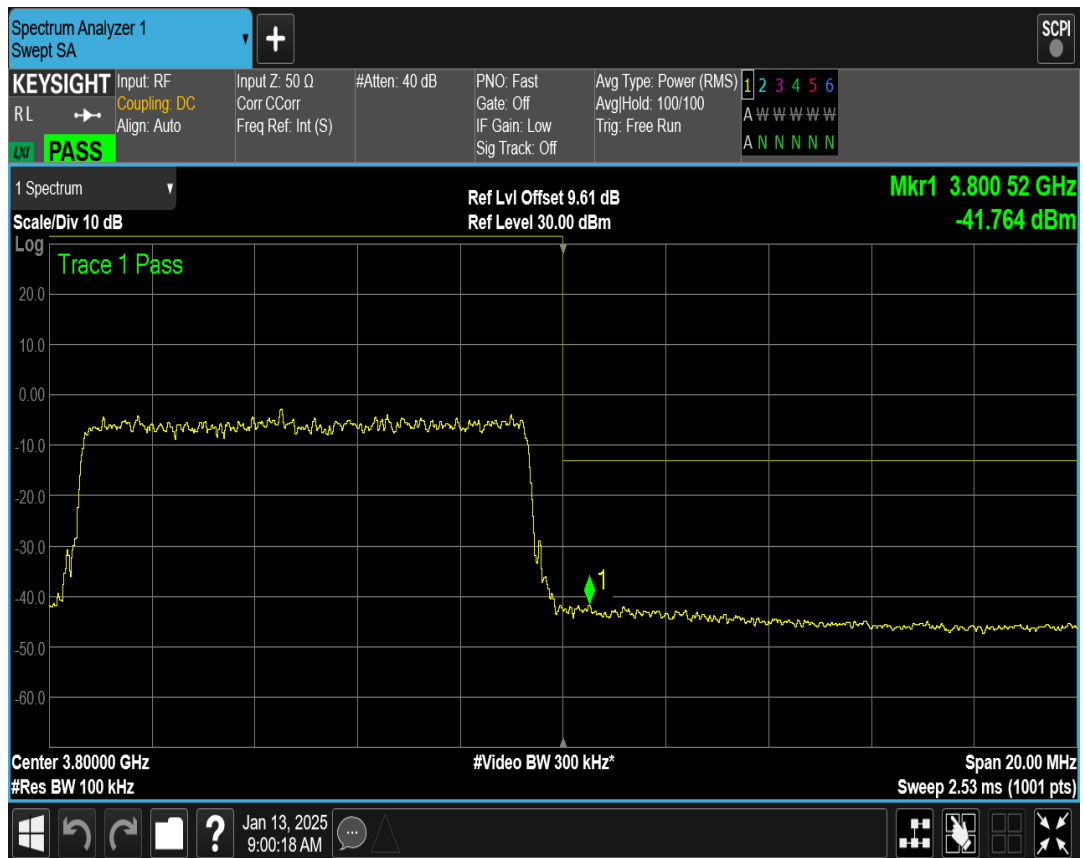
n78 SCS=30kHz CP\_QPSK BW=100MHz Channel=650000 RB=1@0



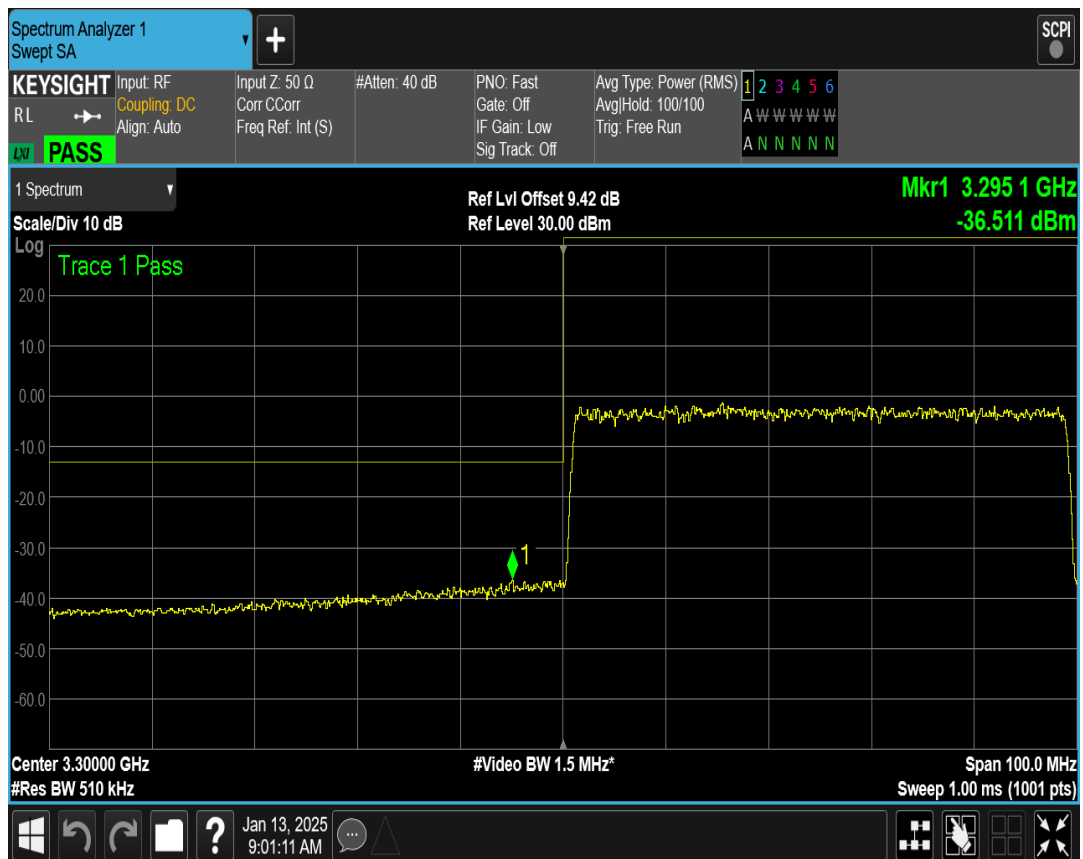
n78 SCS=30kHz CP\_QPSK BW=100MHz Channel=650000 RB=1@272



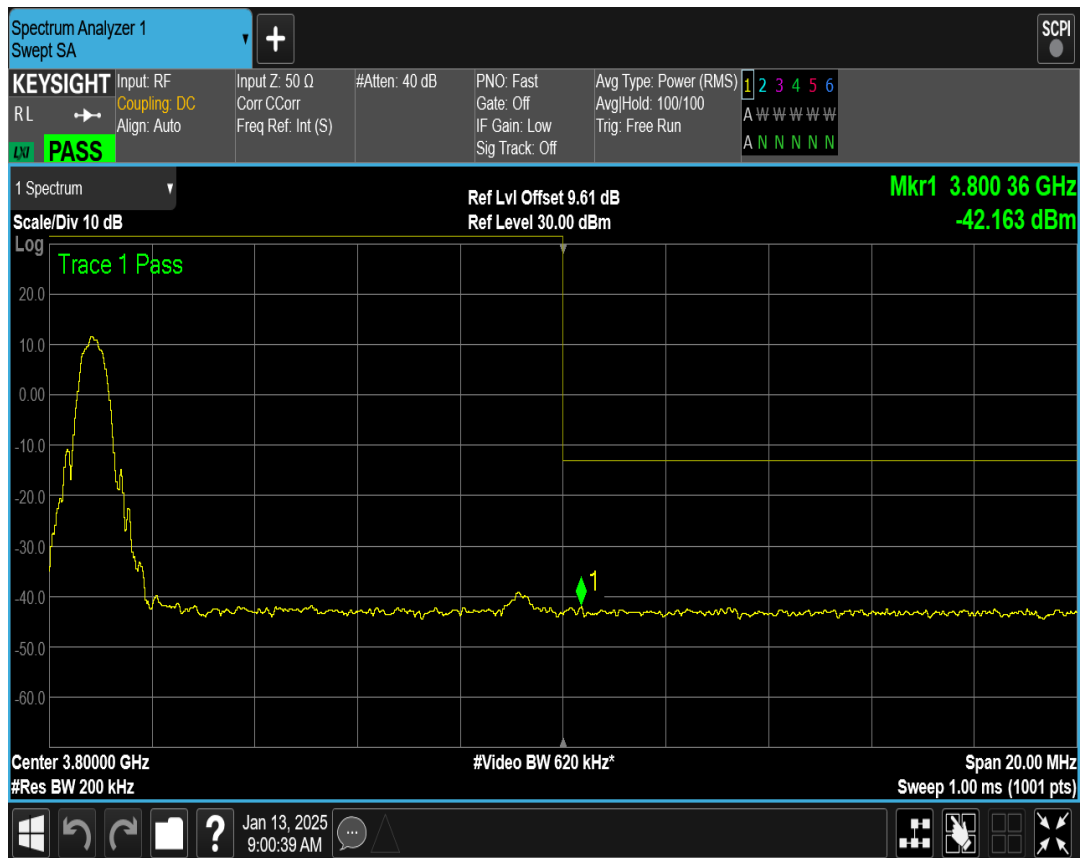
n78 SCS=30kHz CP\_QPSK BW=10MHz Channel=653000 RB=24@0



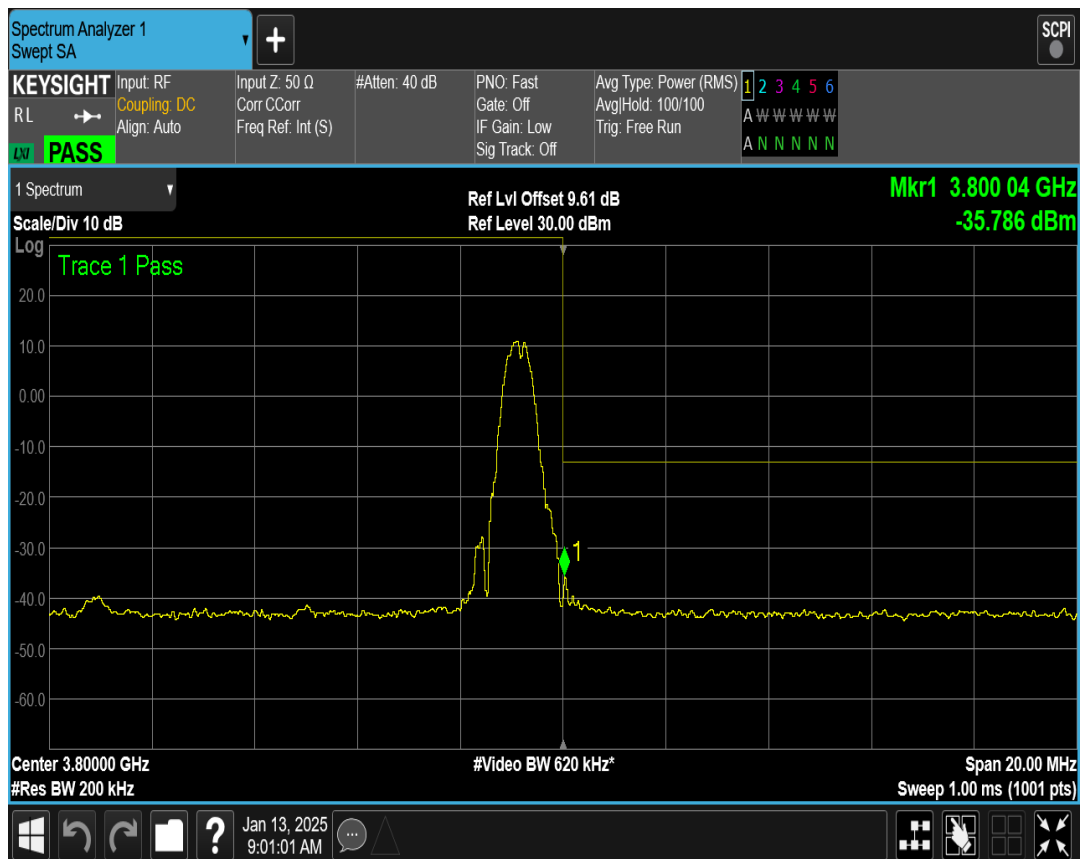
n78 SCS=30kHz CP\_QPSK BW=50MHz Channel=621668 RB=133@0



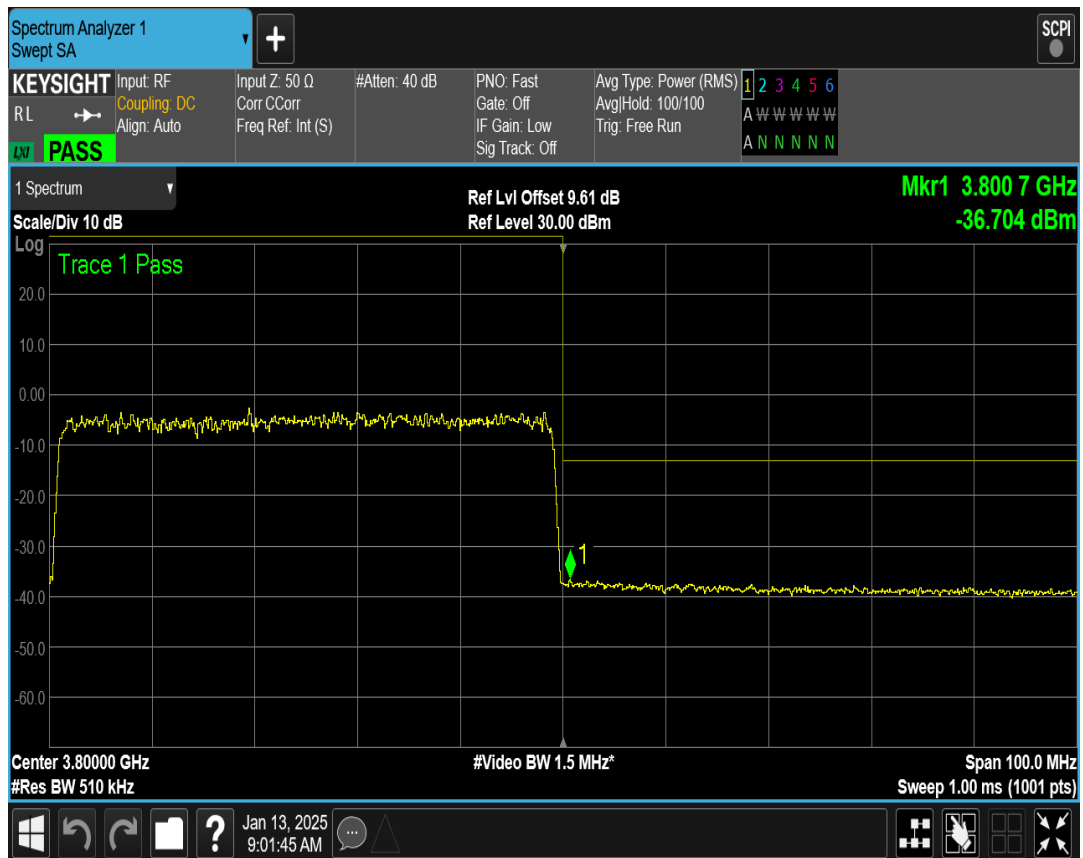
n78 SCS=30kHz CP\_QPSK BW=10MHz Channel=653000 RB=1@0



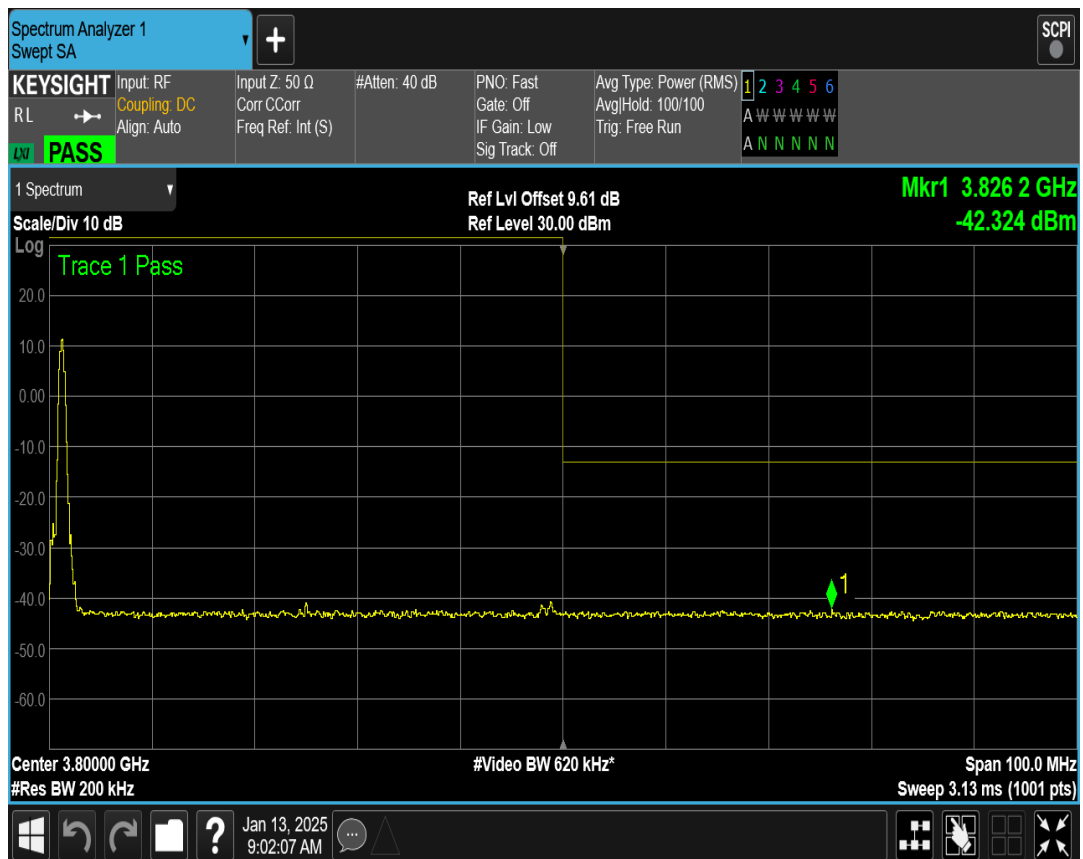
n78 SCS=30kHz CP\_QPSK BW=10MHz Channel=653000 RB=1@23



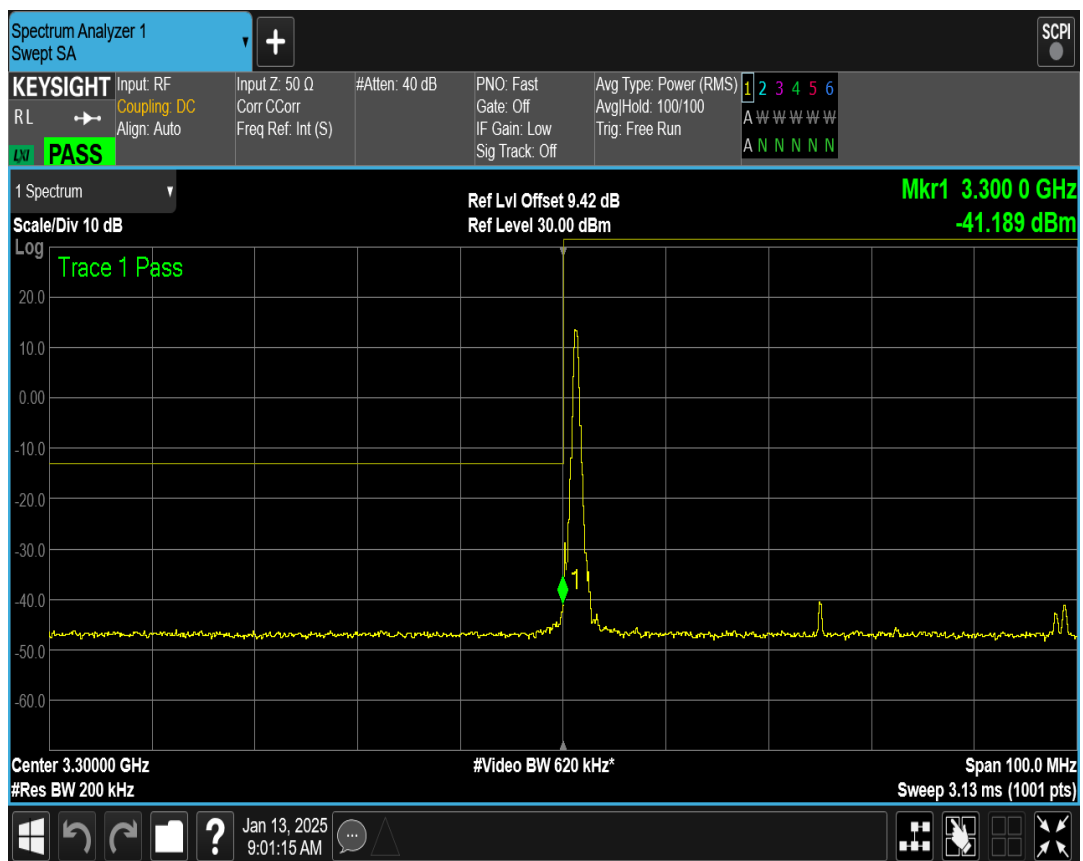
n78 SCS=30kHz CP\_QPSK BW=50MHz Channel=651666 RB=133@0



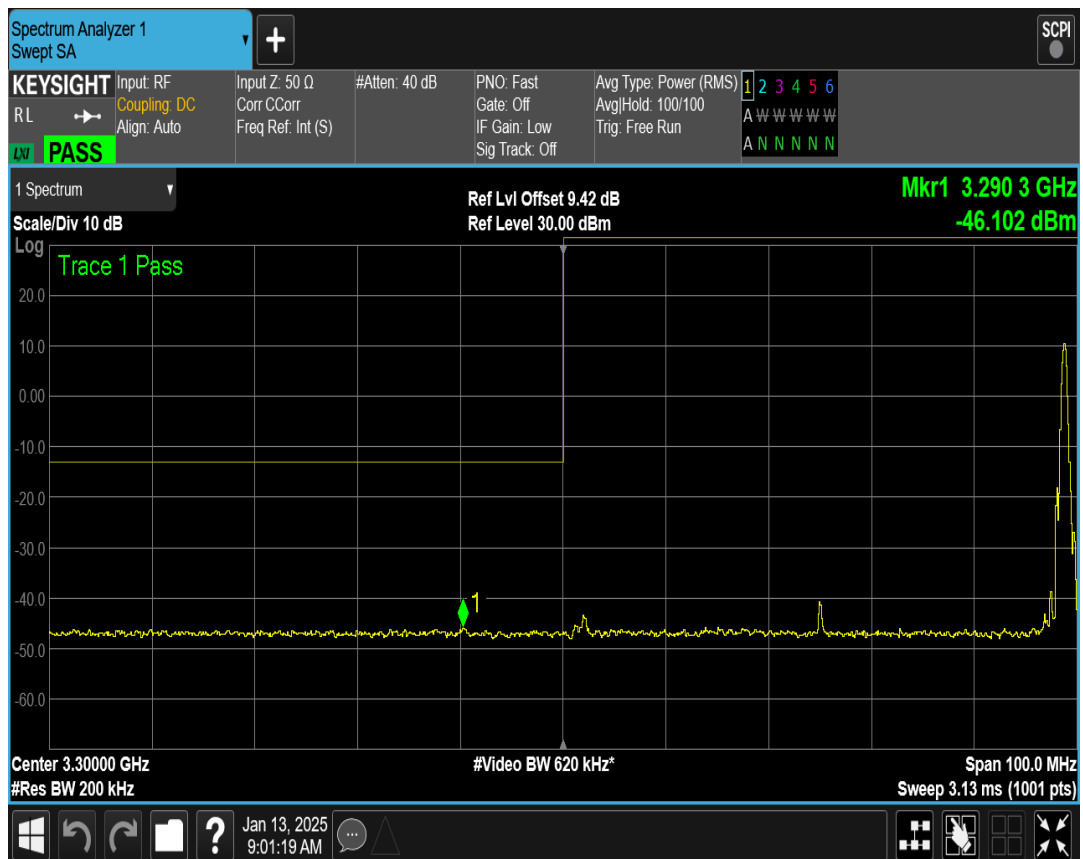
n78 SCS=30kHz CP\_QPSK BW=50MHz Channel=651666 RB=1@0



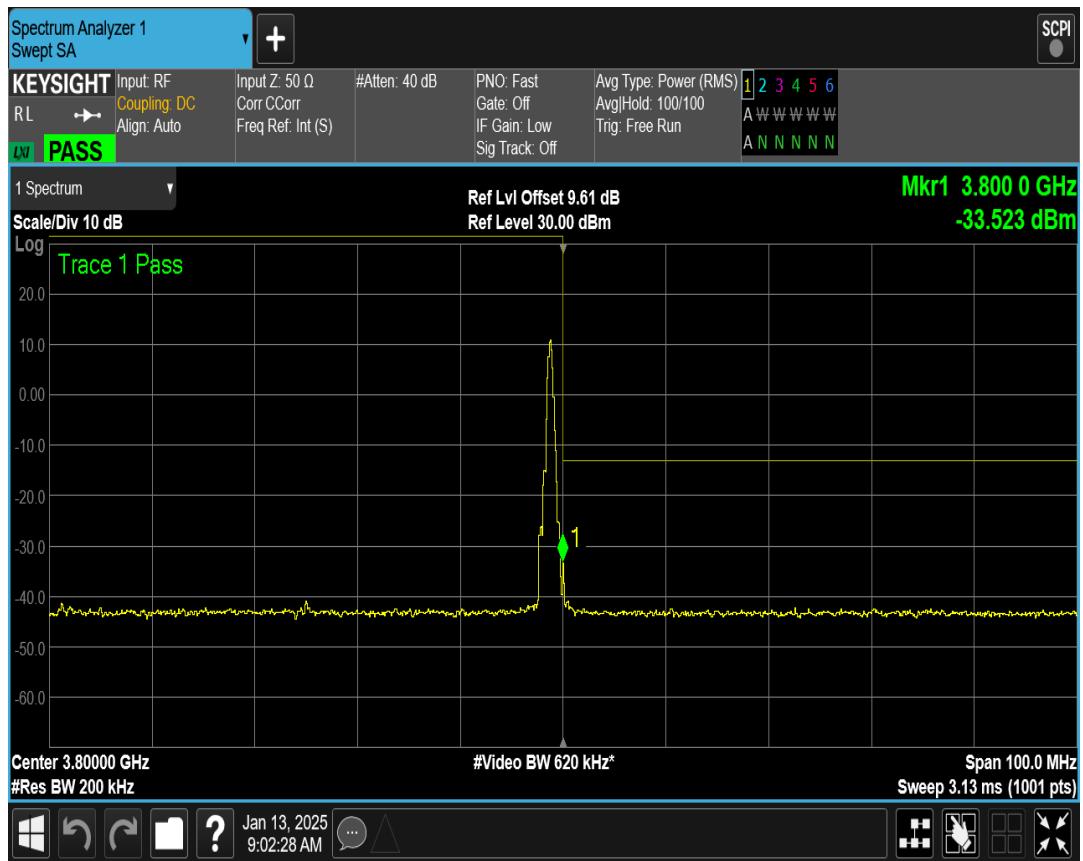
n78 SCS=30kHz CP\_QPSK BW=50MHz Channel=621668 RB=1@0



n78 SCS=30kHz CP\_QPSK BW=50MHz Channel=621668 RB=1@132



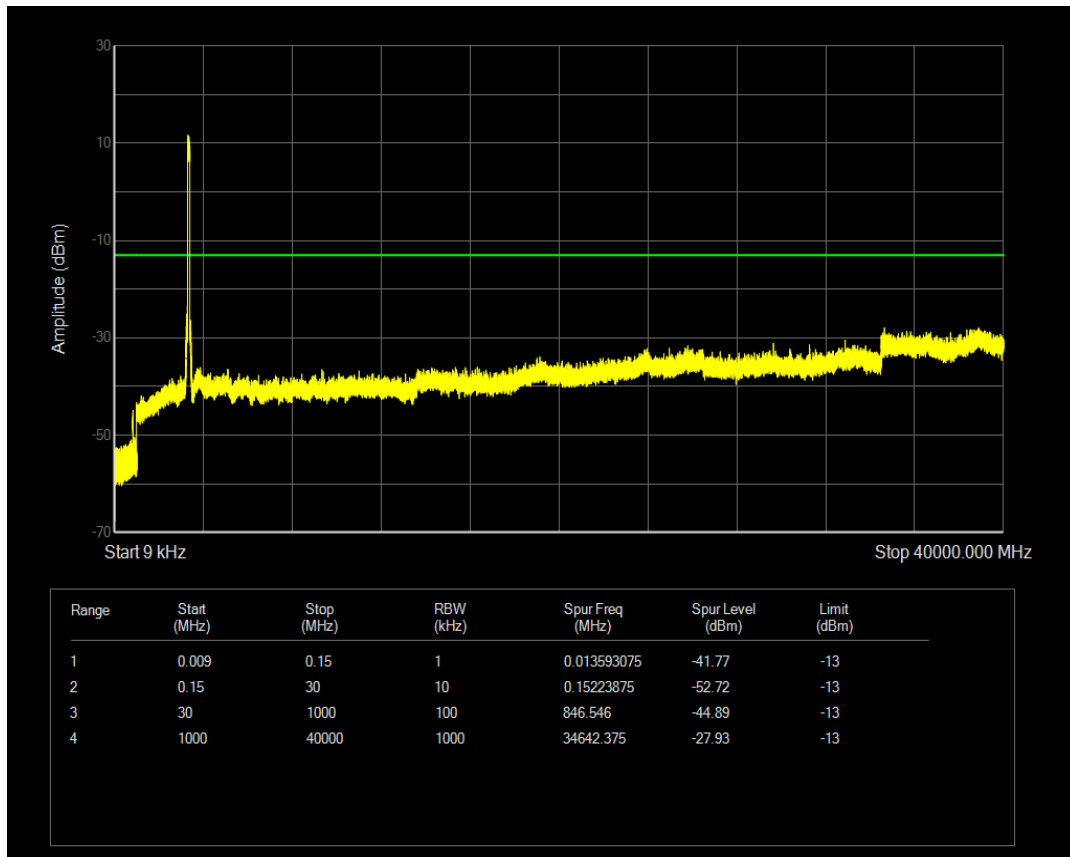
n78 SCS=30kHz CP\_QPSK BW=50MHz Channel=651666 RB=1@132

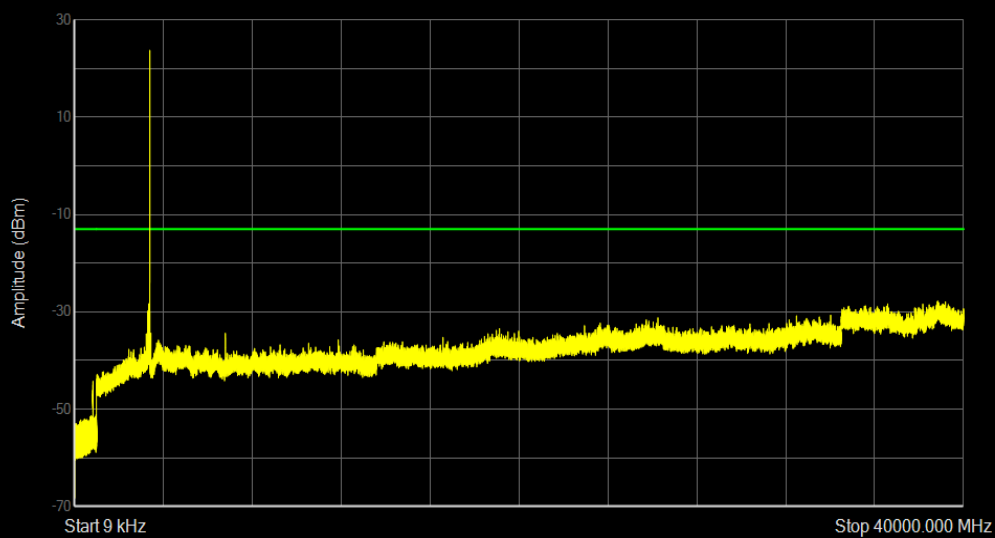


## 6 Out-of-band emissions for EN-DC

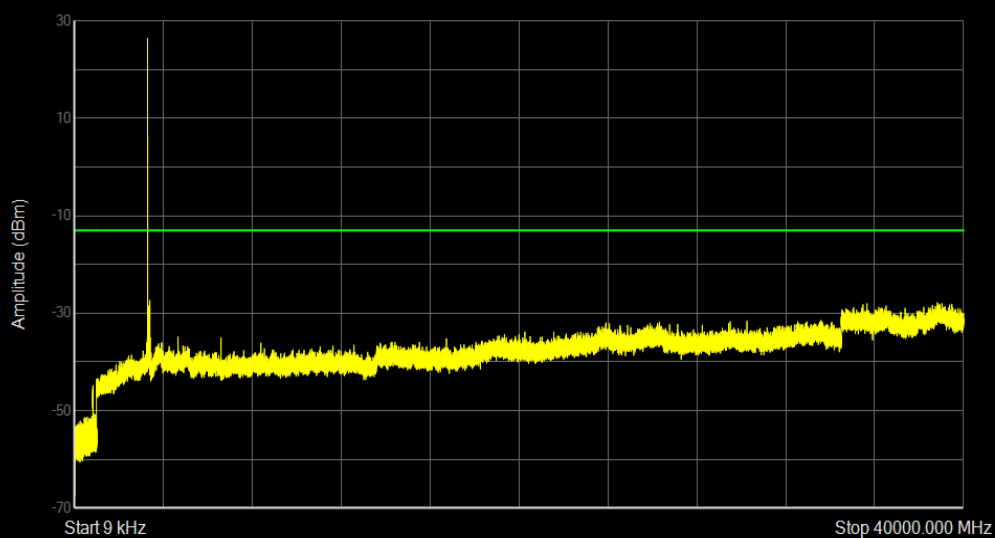
| Band | SCS<br>(kHz) | Bandwidth<br>(MHz) | UL<br>Channel | RB<br>Allocation | Modulation | Spur Freq<br>(MHz) | Spur Level<br>(dBm) | Limit<br>(dBm) | Verdict |
|------|--------------|--------------------|---------------|------------------|------------|--------------------|---------------------|----------------|---------|
| n78  | 30           | 10                 | 620334        | 24@0             | CP_QPSK    | 38804.65           | -27.18              | -13            | PASS    |
| n78  | 30           | 10                 | 620334        | 1@0              | CP_QPSK    | 38029.53           | -27.35              | -13            | PASS    |
| n78  | 30           | 10                 | 620334        | 1@23             | CP_QPSK    | 38879.73           | -26.87              | -13            | PASS    |
| n78  | 30           | 10                 | 653000        | 24@0             | CP_QPSK    | 38877.78           | -27.01              | -13            | PASS    |
| n78  | 30           | 10                 | 653000        | 1@0              | CP_QPSK    | 38918.73           | -27.33              | -13            | PASS    |
| n78  | 30           | 10                 | 653000        | 1@23             | CP_QPSK    | 38470.23           | -26.70              | -13            | PASS    |
| n78  | 30           | 50                 | 621668        | 133@0            | CP_QPSK    | 39284.35           | -27.10              | -13            | PASS    |
| n78  | 30           | 50                 | 621668        | 1@0              | CP_QPSK    | 38854.38           | -26.33              | -13            | PASS    |
| n78  | 30           | 50                 | 621668        | 1@132            | CP_QPSK    | 38796.85           | -27.66              | -13            | PASS    |
| n78  | 30           | 50                 | 651666        | 133@0            | CP_QPSK    | 38903.13           | -27.66              | -13            | PASS    |
| n78  | 30           | 50                 | 651666        | 1@0              | CP_QPSK    | 39119.58           | -27.29              | -13            | PASS    |
| n78  | 30           | 50                 | 651666        | 1@132            | CP_QPSK    | 39360.40           | -26.78              | -13            | PASS    |
| n78  | 30           | 100                | 623334        | 273@0            | CP_QPSK    | 34642.38           | -27.93              | -13            | PASS    |
| n78  | 30           | 100                | 623334        | 1@0              | CP_QPSK    | 38827.08           | -27.83              | -13            | PASS    |
| n78  | 30           | 100                | 623334        | 1@272            | CP_QPSK    | 38846.58           | -27.82              | -13            | PASS    |
| n78  | 30           | 100                | 650000        | 273@0            | CP_QPSK    | 39040.60           | -26.83              | -13            | PASS    |
| n78  | 30           | 100                | 650000        | 1@0              | CP_QPSK    | 38926.53           | -27.20              | -13            | PASS    |
| n78  | 30           | 100                | 650000        | 1@272            | CP_QPSK    | 38835.85           | -26.84              | -13            | PASS    |

**n78 SCS=30kHz CP\_QPSK BW=100MHz Channel=623334 RB=273@0**



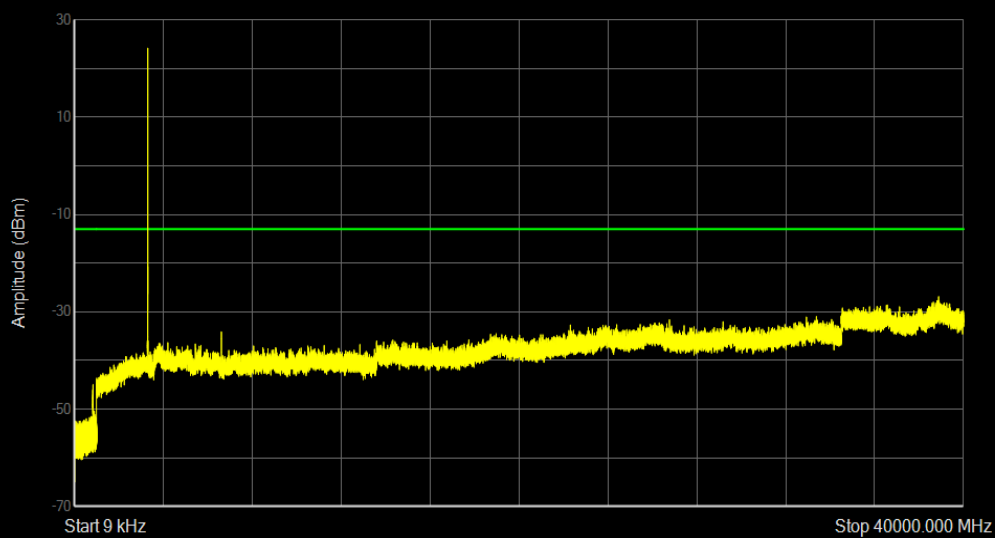
*n78 SCS=30kHz CP\_QPSK BW=100MHz Channel=623334 RB=1@272*

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|-------|-------------|------------|-----------|-----------------|------------------|-------------|
| 1     | 0.009       | 0.15       | 1         | 0.0107484       | -41.04           | -13         |
| 2     | 0.15        | 30         | 10        | 0.15522375      | -51.97           | -13         |
| 3     | 30          | 1000       | 100       | 846.4975        | -44.28           | -13         |
| 4     | 1000        | 40000      | 1000      | 38846.575       | -27.82           | -13         |

*n78 SCS=30kHz CP\_QPSK BW=100MHz Channel=623334 RB=1@0*

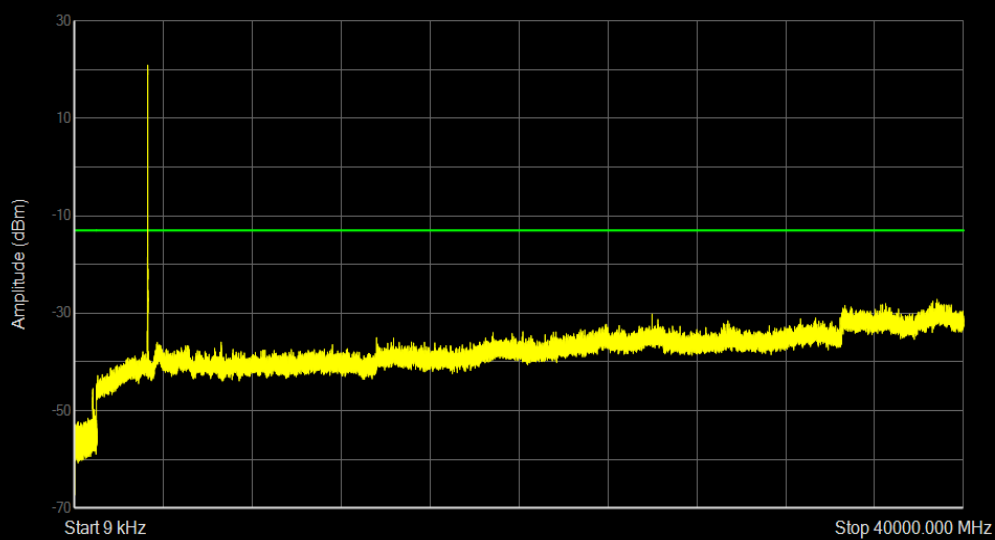
| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|-------|-------------|------------|-----------|-----------------|------------------|-------------|
| 1     | 0.009       | 0.15       | 1         | 0.009052875     | -42.8            | -13         |
| 2     | 0.15        | 30         | 10        | 0.17164125      | -52.88           | -13         |
| 3     | 30          | 1000       | 100       | 847.78275       | -44.87           | -13         |
| 4     | 1000        | 40000      | 1000      | 38827.075       | -27.83           | -13         |

*n78 SCS=30kHz CP\_QPSK BW=10MHz Channel=620334 RB=1@23*

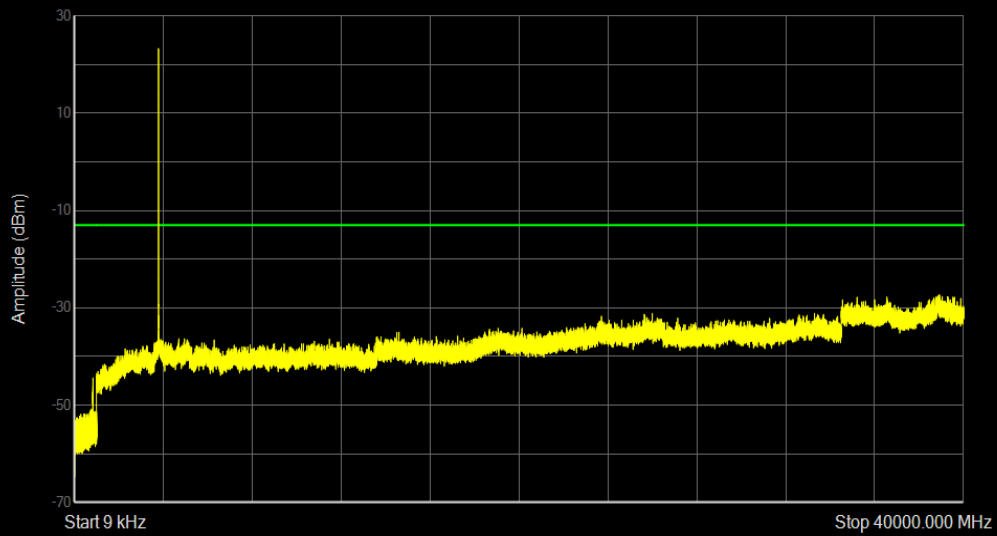


| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|-------|-------------|------------|-----------|-----------------|------------------|-------------|
| 1     | 0.009       | 0.15       | 1         | 0.0134274       | -42.54           | -13         |
| 2     | 0.15        | 30         | 10        | 0.164925        | -52.39           | -13         |
| 3     | 30          | 1000       | 100       | 846.66725       | -44.98           | -13         |
| 4     | 1000        | 40000      | 1000      | 38879.725       | -26.87           | -13         |

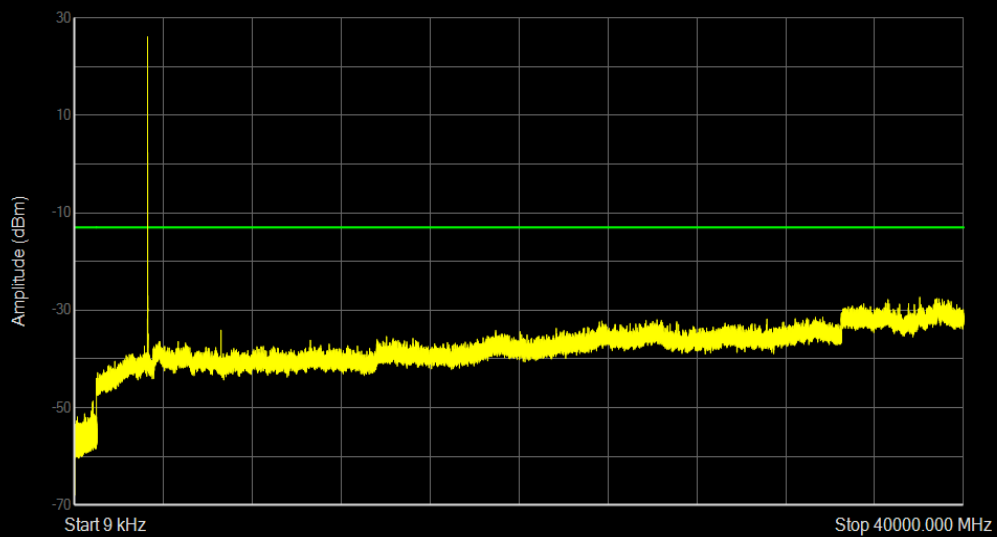
*n78 SCS=30kHz CP\_QPSK BW=10MHz Channel=620334 RB=24@0*



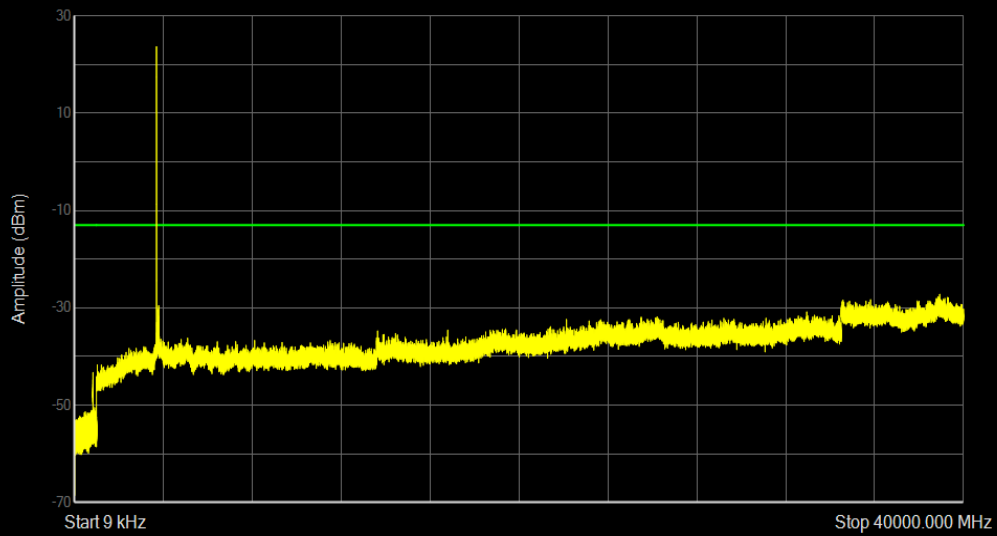
| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|-------|-------------|------------|-----------|-----------------|------------------|-------------|
| 1     | 0.009       | 0.15       | 1         | 0.014291025     | -41.72           | -13         |
| 2     | 0.15        | 30         | 10        | 0.15            | -52.9            | -13         |
| 3     | 30          | 1000       | 100       | 846.449         | -45.48           | -13         |
| 4     | 1000        | 40000      | 1000      | 38804.65        | -27.18           | -13         |

*n78 SCS=30kHz CP\_QPSK BW=10MHz Channel=653000 RB=1@0*

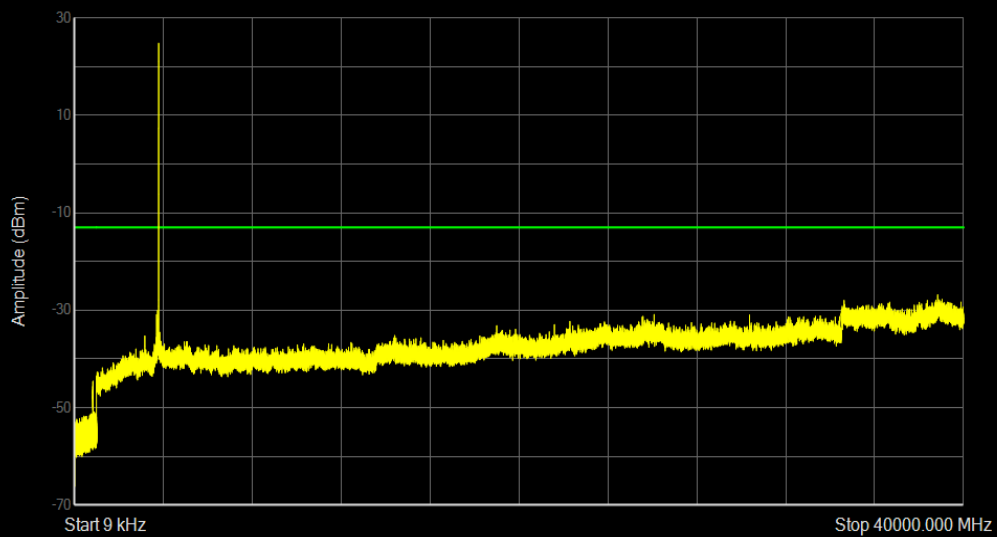
| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|-------|-------------|------------|-----------|-----------------|------------------|-------------|
| 1     | 0.009       | 0.15       | 1         | 0.0137376       | -41.48           | -13         |
| 2     | 0.15        | 30         | 10        | 0.206715        | -52.41           | -13         |
| 3     | 30          | 1000       | 100       | 847.39475       | -44.4            | -13         |
| 4     | 1000        | 40000      | 1000      | 38918.725       | -27.33           | -13         |

*n78 SCS=30kHz CP\_QPSK BW=10MHz Channel=620334 RB=1@0*

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|-------|-------------|------------|-----------|-----------------|------------------|-------------|
| 1     | 0.009       | 0.15       | 1         | 0.015080625     | -41.59           | -13         |
| 2     | 0.15        | 30         | 10        | 0.15970125      | -52.83           | -13         |
| 3     | 30          | 1000       | 100       | 847.3705        | -48.72           | -13         |
| 4     | 1000        | 40000      | 1000      | 38029.525       | -27.35           | -13         |

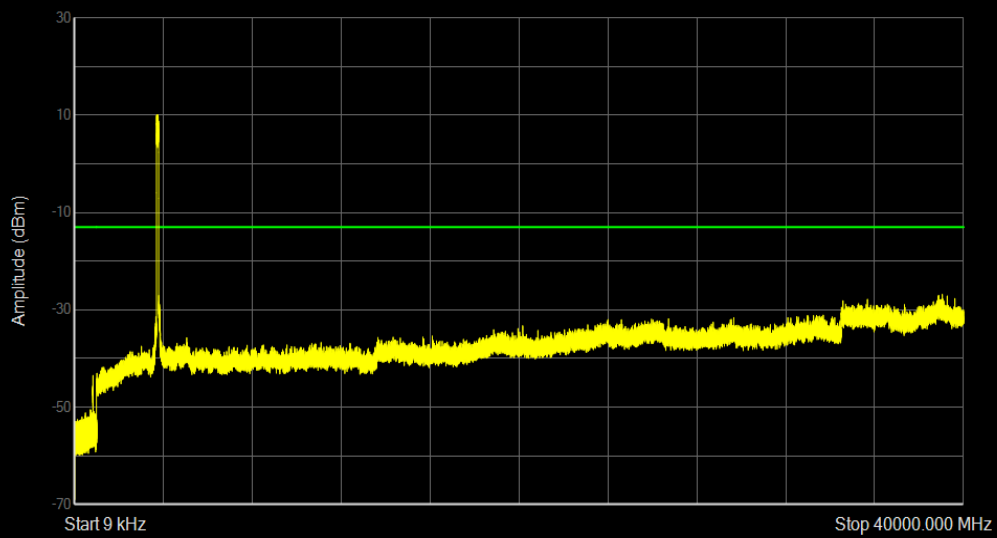
*n78 SCS=30kHz CP\_QPSK BW=100MHz Channel=650000 RB=1@0*

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|-------|-------------|------------|-----------|-----------------|------------------|-------------|
| 1     | 0.009       | 0.15       | 1         | 0.01041705      | -42.37           | -13         |
| 2     | 0.15        | 30         | 10        | 0.1694025       | -50.65           | -13         |
| 3     | 30          | 1000       | 100       | 846.81275       | -43.29           | -13         |
| 4     | 1000        | 40000      | 1000      | 38926.525       | -27.2            | -13         |

*n78 SCS=30kHz CP\_QPSK BW=100MHz Channel=650000 RB=1@272*

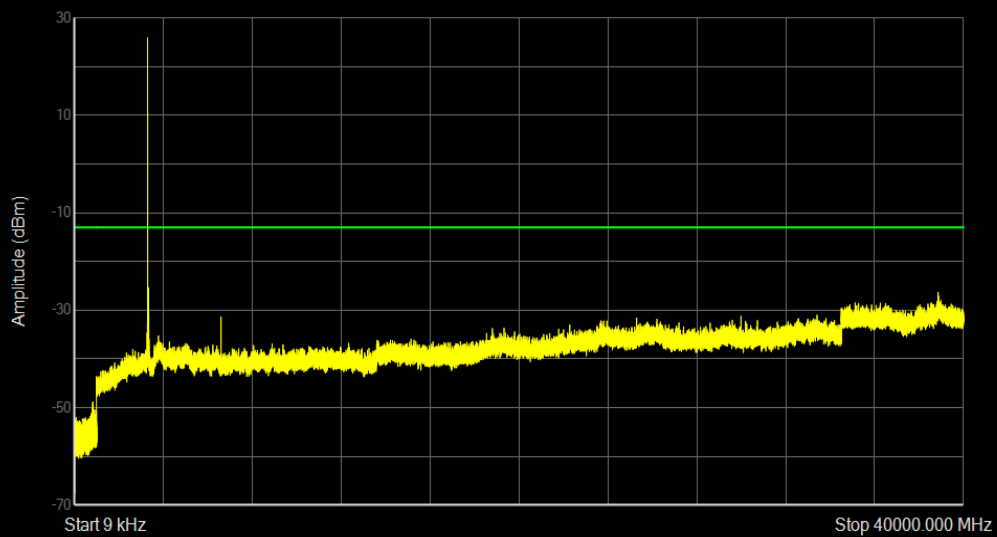
| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|-------|-------------|------------|-----------|-----------------|------------------|-------------|
| 1     | 0.009       | 0.15       | 1         | 0.013804575     | -41.61           | -13         |
| 2     | 0.15        | 30         | 10        | 0.16119375      | -53.2            | -13         |
| 3     | 30          | 1000       | 100       | 846.81275       | -44.58           | -13         |
| 4     | 1000        | 40000      | 1000      | 38835.85        | -26.84           | -13         |

*n78 SCS=30kHz CP\_QPSK BW=100MHz Channel=650000 RB=273@0*

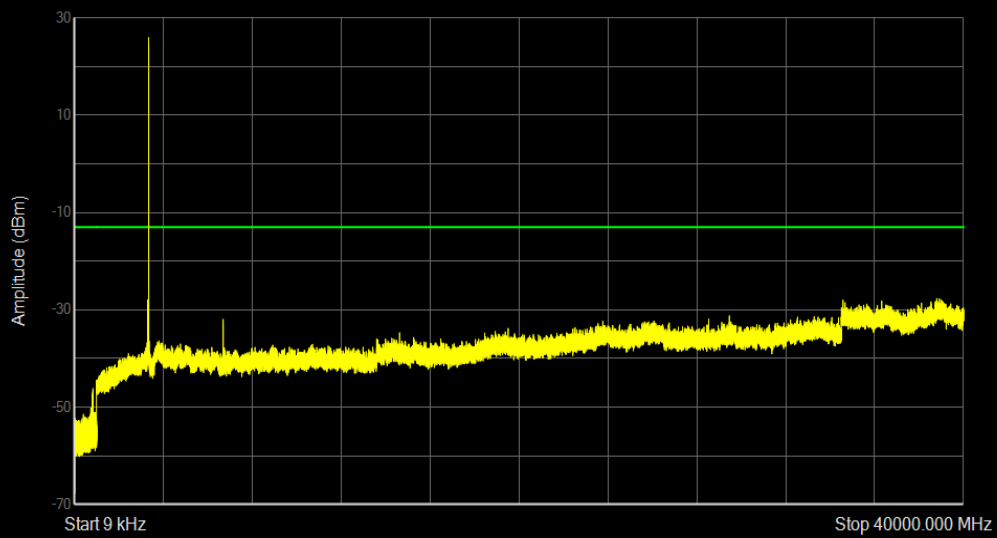


| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|-------|-------------|------------|-----------|-----------------|------------------|-------------|
| 1     | 0.009       | 0.15       | 1         | 0.010554525     | -41.09           | -13         |
| 2     | 0.15        | 30         | 10        | 0.1694025       | -52.67           | -13         |
| 3     | 30          | 1000       | 100       | 846.449         | -43.49           | -13         |
| 4     | 1000        | 40000      | 1000      | 39040.6         | -26.83           | -13         |

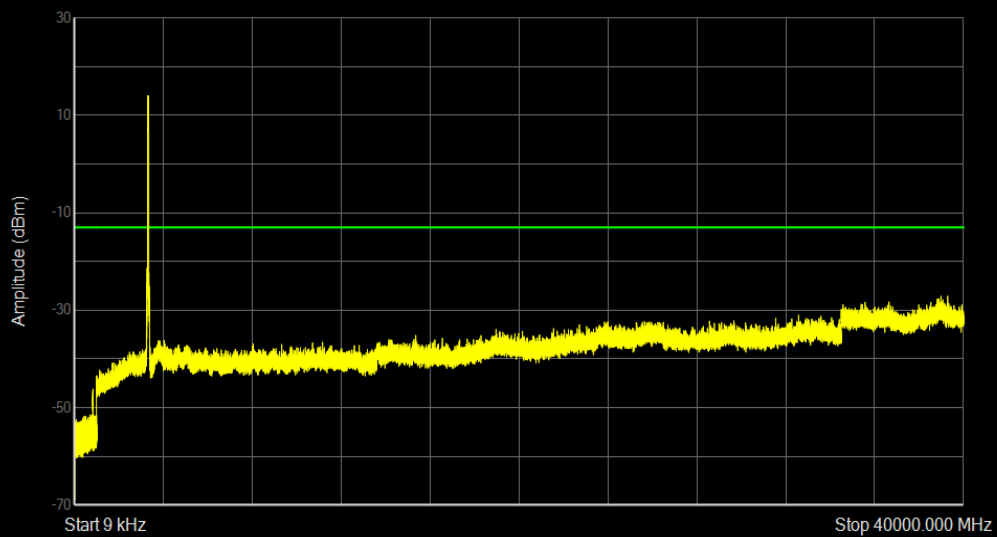
*n78 SCS=30kHz CP\_QPSK BW=50MHz Channel=621668 RB=1@0*



| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|-------|-------------|------------|-----------|-----------------|------------------|-------------|
| 1     | 0.009       | 0.15       | 1         | 0.01250385      | -40.8            | -13         |
| 2     | 0.15        | 30         | 10        | 0.15074625      | -52.12           | -13         |
| 3     | 30          | 1000       | 100       | 846.95825       | -48.83           | -13         |
| 4     | 1000        | 40000      | 1000      | 38854.375       | -26.33           | -13         |

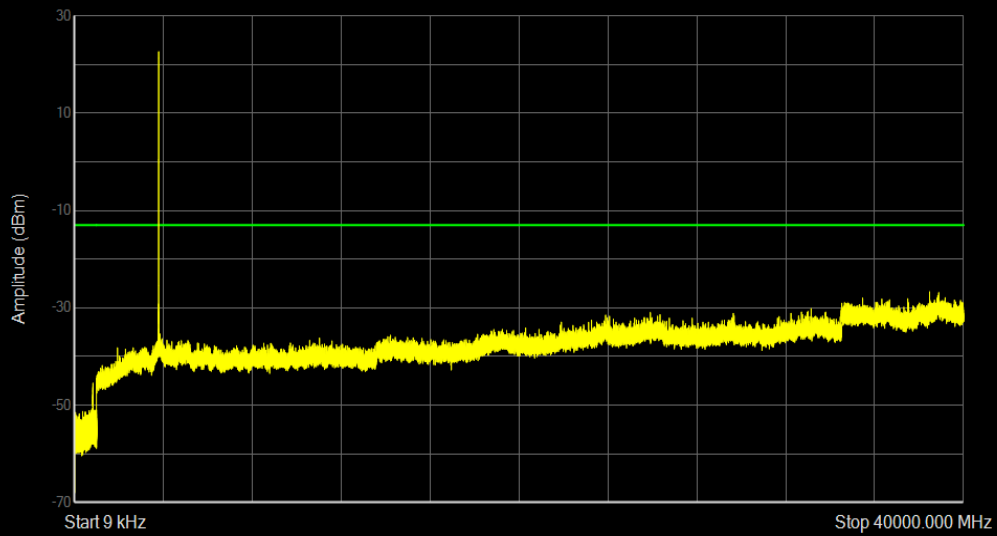
*n78 SCS=30kHz CP\_QPSK BW=50MHz Channel=621668 RB=1@132*

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|-------|-------------|------------|-----------|-----------------|------------------|-------------|
| 1     | 0.009       | 0.15       | 1         | 0.012077325     | -42              | -13         |
| 2     | 0.15        | 30         | 10        | 0.15            | -51.78           | -13         |
| 3     | 30          | 1000       | 100       | 846.42475       | -46.19           | -13         |
| 4     | 1000        | 40000      | 1000      | 38796.85        | -27.66           | -13         |

*n78 SCS=30kHz CP\_QPSK BW=50MHz Channel=621668 RB=133@0*

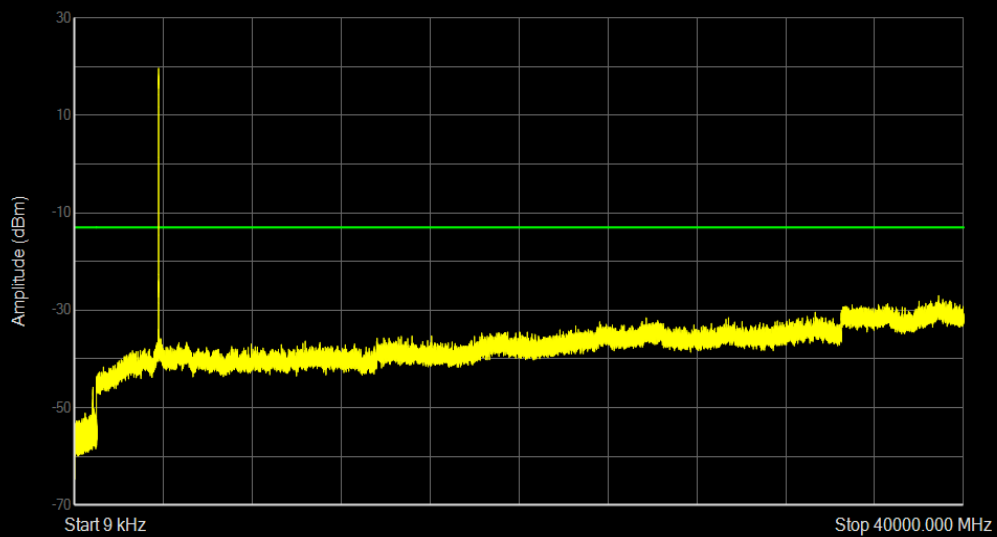
| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|-------|-------------|------------|-----------|-----------------|------------------|-------------|
| 1     | 0.009       | 0.15       | 1         | 0.01013505      | -41.26           | -13         |
| 2     | 0.15        | 30         | 10        | 0.1544775       | -52.35           | -13         |
| 3     | 30          | 1000       | 100       | 846.6915        | -46.21           | -13         |
| 4     | 1000        | 40000      | 1000      | 39284.35        | -27.1            | -13         |

*n78 SCS=30kHz CP\_QPSK BW=10MHz Channel=653000 RB=1@23*

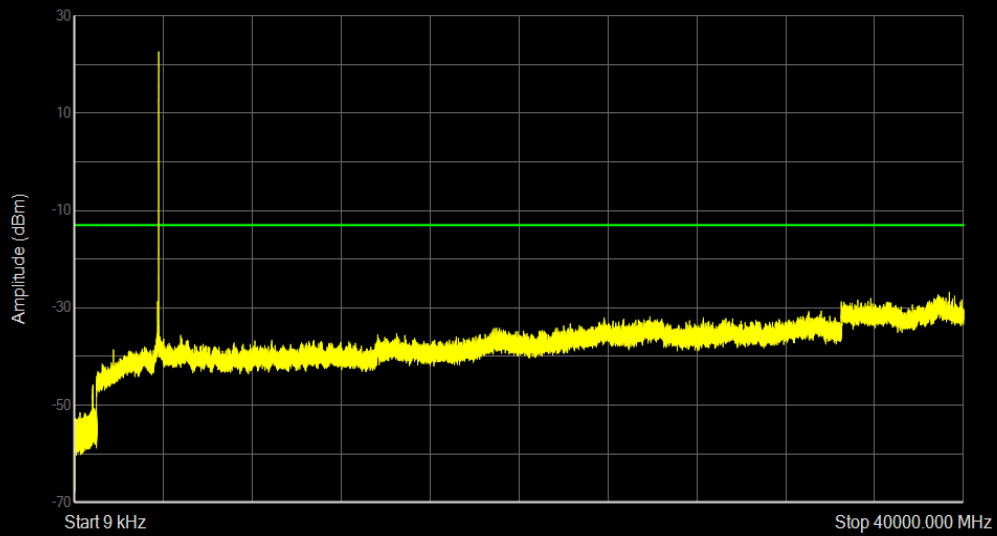


| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|-------|-------------|------------|-----------|-----------------|------------------|-------------|
| 1     | 0.009       | 0.15       | 1         | 0.009123375     | -41.84           | -13         |
| 2     | 0.15        | 30         | 10        | 0.15074625      | -52.77           | -13         |
| 3     | 30          | 1000       | 100       | 846.57025       | -45.48           | -13         |
| 4     | 1000        | 40000      | 1000      | 38470.225       | -26.7            | -13         |

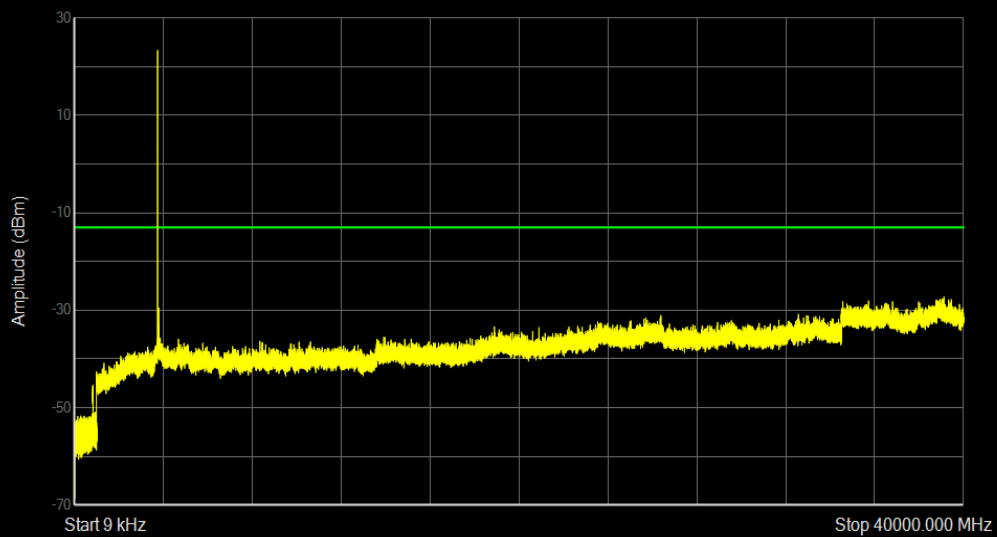
*n78 SCS=30kHz CP\_QPSK BW=10MHz Channel=653000 RB=24@0*



| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|-------|-------------|------------|-----------|-----------------|------------------|-------------|
| 1     | 0.009       | 0.15       | 1         | 0.01662105      | -42.14           | -13         |
| 2     | 0.15        | 30         | 10        | 0.15            | -51.89           | -13         |
| 3     | 30          | 1000       | 100       | 846.934         | -45.82           | -13         |
| 4     | 1000        | 40000      | 1000      | 38877.775       | -27.01           | -13         |

*n78 SCS=30kHz CP\_QPSK BW=50MHz Channel=651666 RB=1@132*

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|-------|-------------|------------|-----------|-----------------|------------------|-------------|
| 1     | 0.009       | 0.15       | 1         | 0.009630975     | -41.18           | -13         |
| 2     | 0.15        | 30         | 10        | 0.15            | -51.3            | -13         |
| 3     | 30          | 1000       | 100       | 846.4975        | -45.9            | -13         |
| 4     | 1000        | 40000      | 1000      | 39360.4         | -26.78           | -13         |

*n78 SCS=30kHz CP\_QPSK BW=50MHz Channel=651666 RB=1@0*

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|-------|-------------|------------|-----------|-----------------|------------------|-------------|
| 1     | 0.009       | 0.15       | 1         | 0.00934545      | -40.91           | -13         |
| 2     | 0.15        | 30         | 10        | 0.17388         | -52.88           | -13         |
| 3     | 30          | 1000       | 100       | 847.68575       | -45.48           | -13         |
| 4     | 1000        | 40000      | 1000      | 39119.575       | -27.29           | -13         |

n78 SCS=30kHz CP\_QPSK BW=50MHz Channel=651666 RB=133@0

