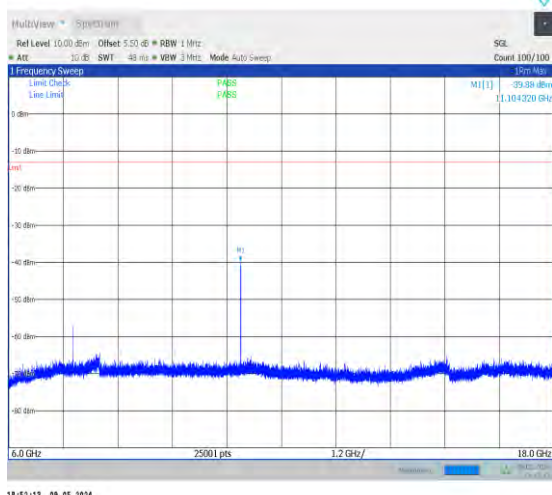


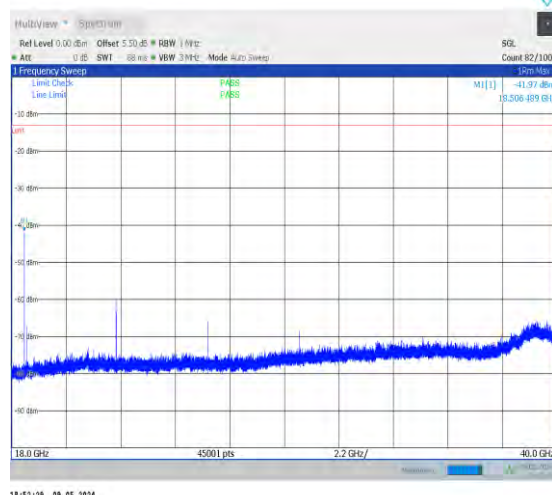
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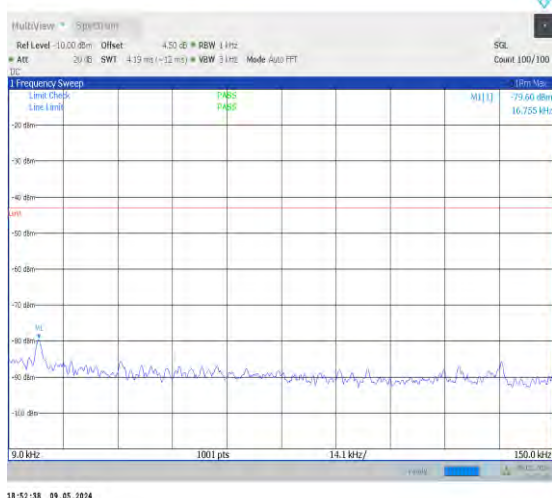
Page: 106 of 121



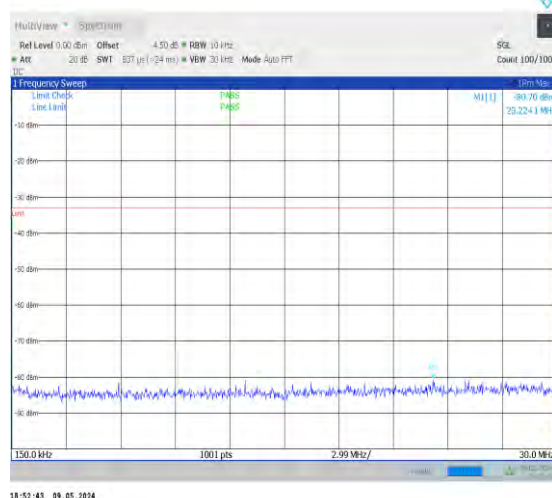
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1-N78-3700-3800-PC2-30-100-L-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-18000-40000-Ant0-18506.49--42.75--13-PASS



1-N78-3700-3800-PC2-30-100-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-0.009-0.15-Ant0-0.02--79.60--43-PASS



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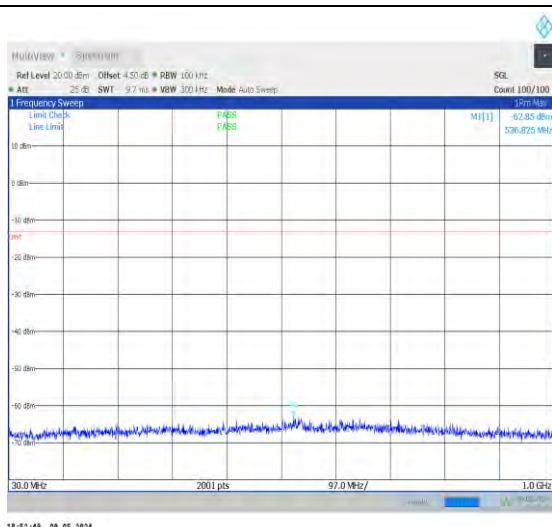
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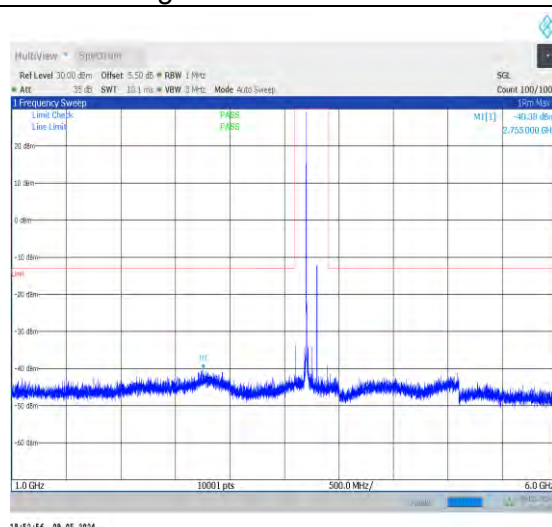
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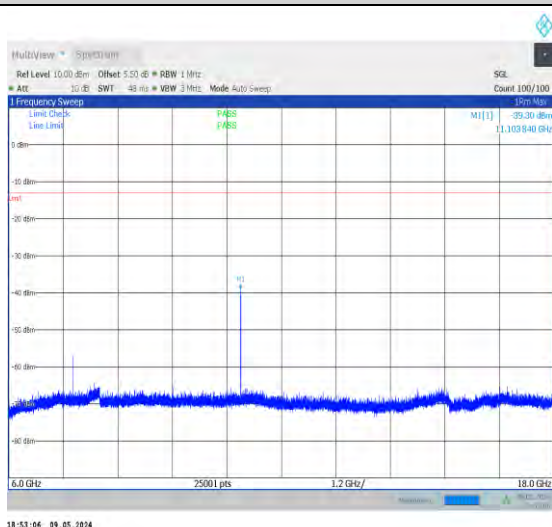
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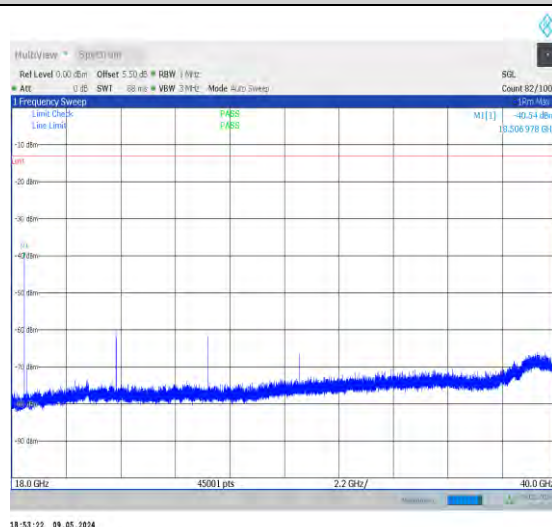
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1-N78-3700-3800-PC2-30-100-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-1000-6000-Ant0-2755.00--40.38--13-PASS



1-N78-3700-3800-PC2-30-100-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-6000-18000-Ant0-11103.84--39.30--13-PASS



1-N78-3700-3800-PC2-30-100-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-18000-40000-Ant0-18506.98--40.54--13-PASS



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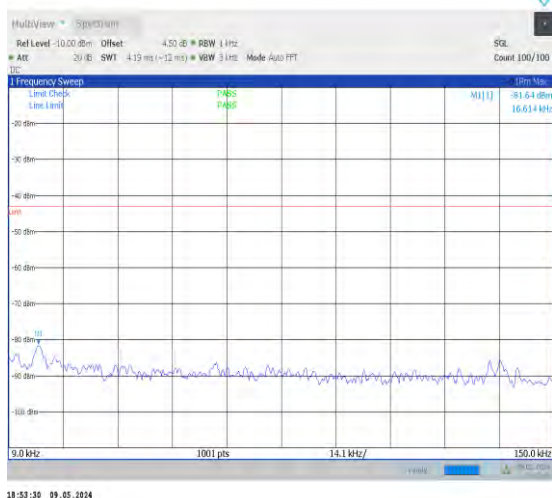
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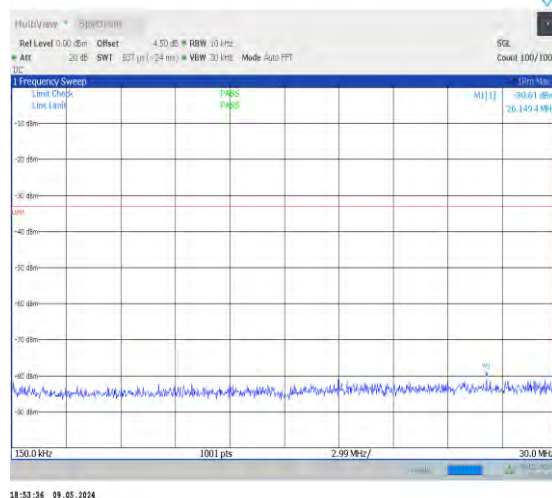
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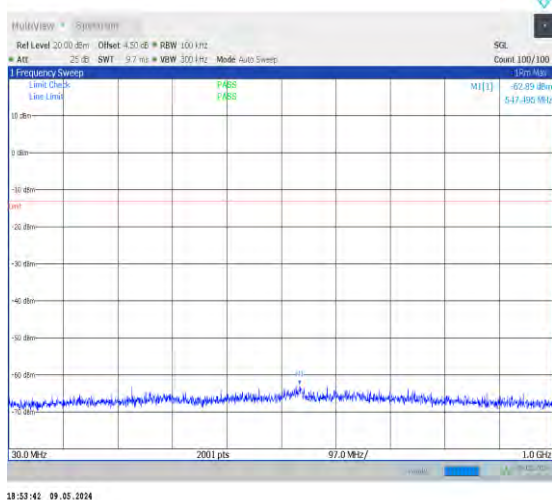
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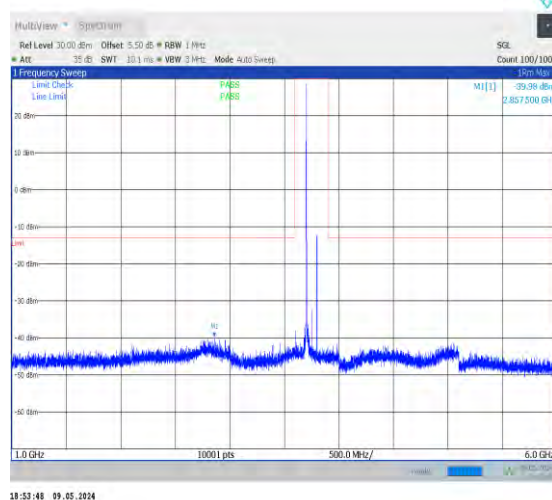
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-PASS



1-N78-3700-3800-PC2-30-100-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-0.15-30-Ant0-26.15--80.61--33-P  
ASS



1-N78-3700-3800-PC2-30-100-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-30-1000-Ant0-547.50--62.89--13  
-PASS



1-N78-3700-3800-PC2-30-100-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-1000-6000-Ant0-2857.50--39.98--13-PASS



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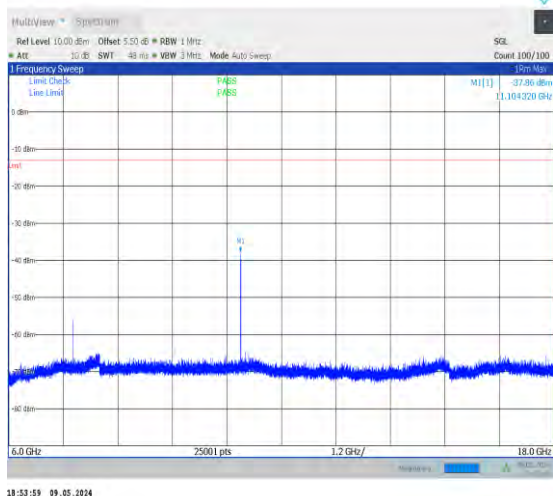
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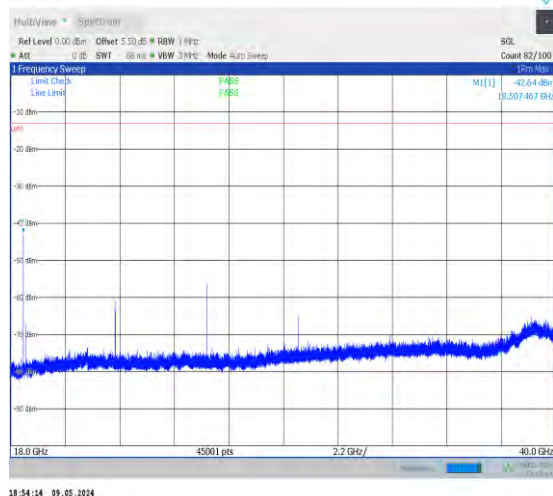
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ner\_1RB\_Left-1@1-6000-18000-Ant0-11104.32--37.  
86--13-PASS



1-N78-3700-3800-PC2-30-100-H-1-DFT-PI2BPSK-In  
ner\_1RB\_Left-1@1-18000-40000-Ant0-18507.47--42  
.64--13-PASS



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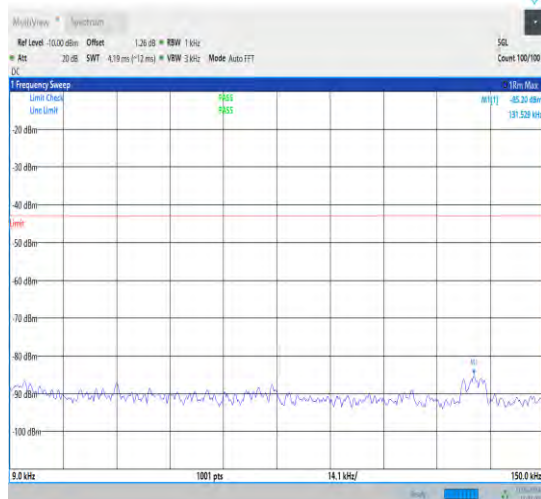
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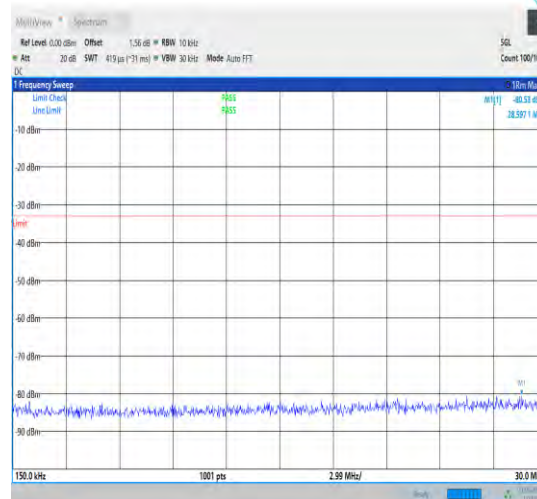
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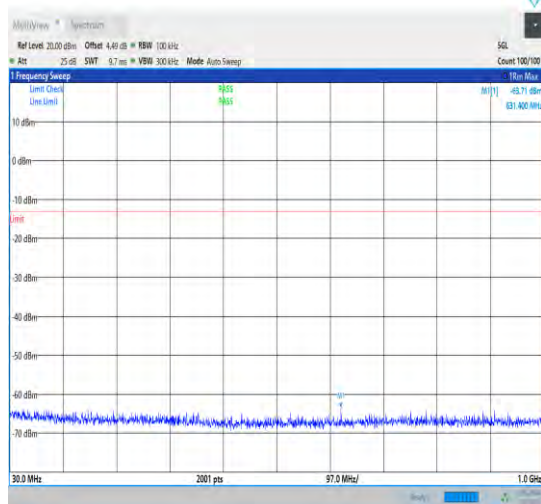
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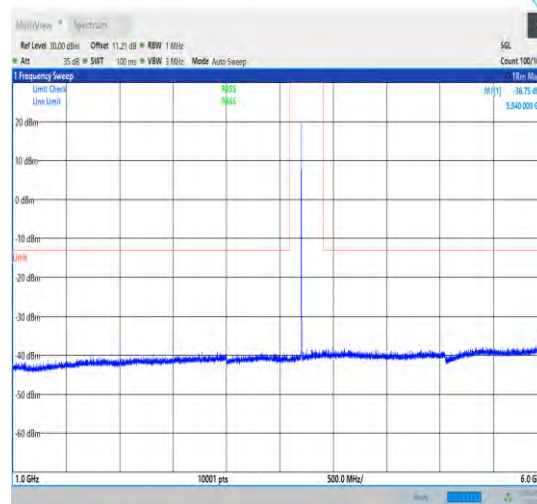
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1-N78-3700-3800-30-100-L-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-0.15-30-Ant0-28.60--80.53--33-PASS



1-N78-3700-3800-30-100-L-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-30-1000-Ant0-631.40--63.71--13-PASS



1-N78-3700-3800-30-100-L-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-1000-6000-Ant0-5940.00--36.75--13-PASS



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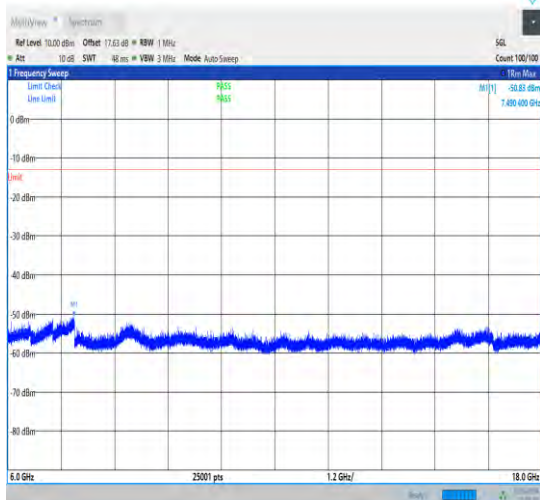
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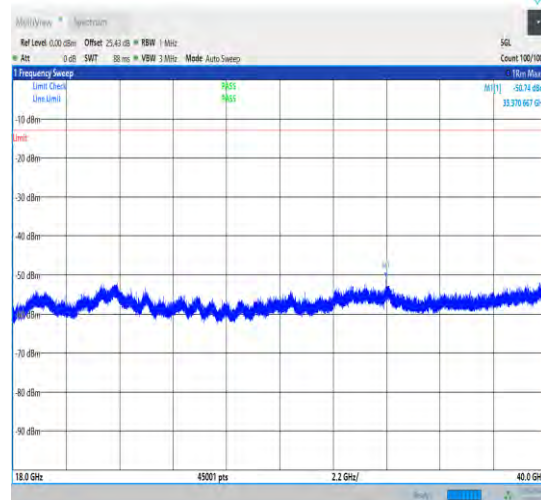
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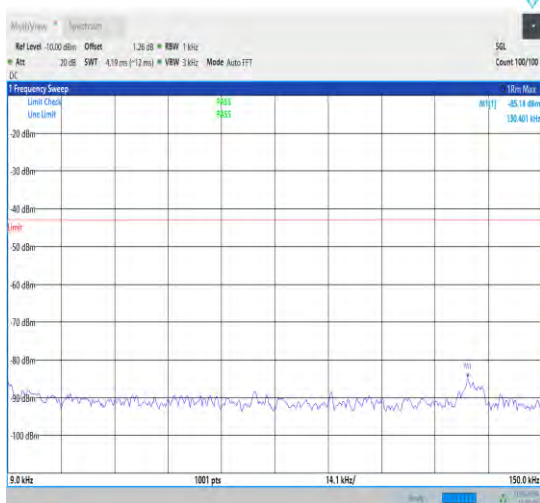
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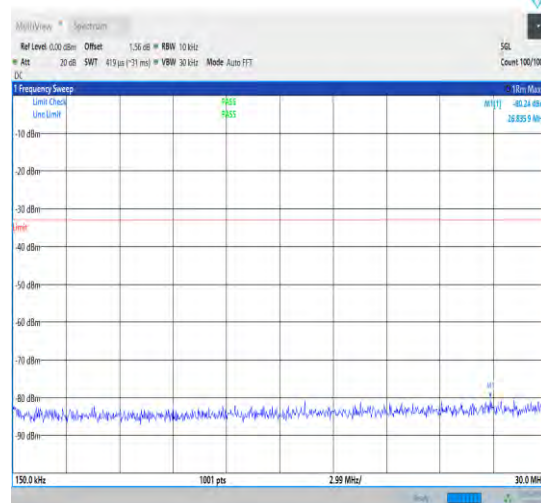
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1-N78-3700-3800-30-100-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-0.15-30-Ant0-26.84--80.24--33-PASS



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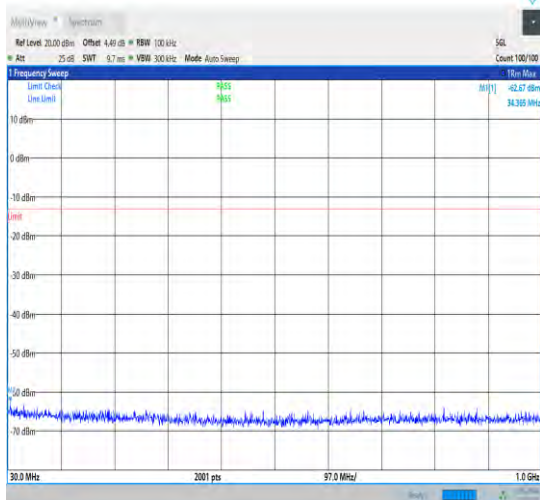
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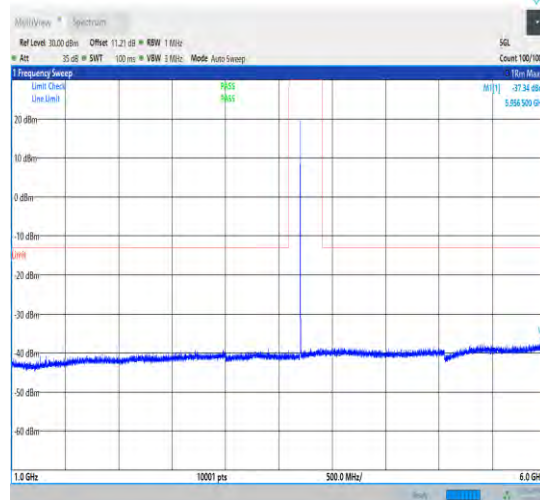
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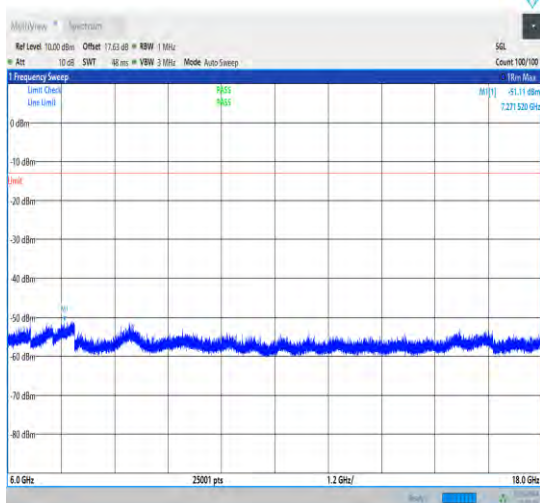
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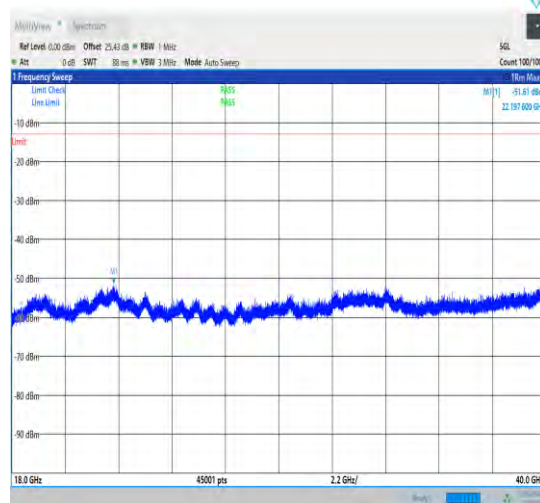
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1-N78-3700-3800-30-100-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-6000-18000-Ant0-7271.52--51.11--13-PASS



1-N78-3700-3800-30-100-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-18000-40000-Ant0-22197.60--51.61--13-PASS



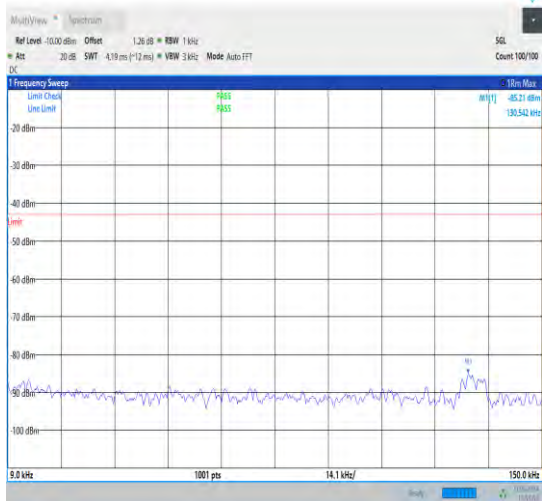
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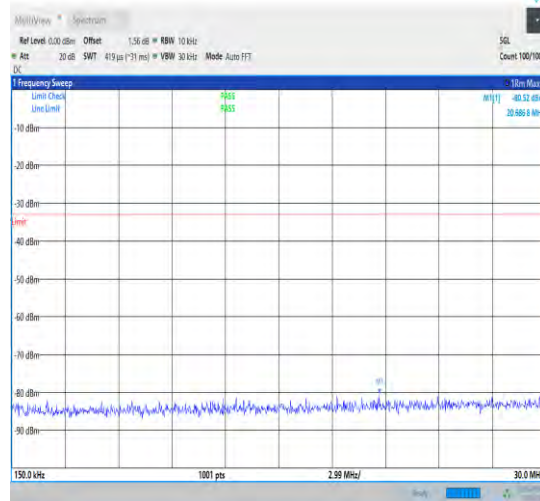
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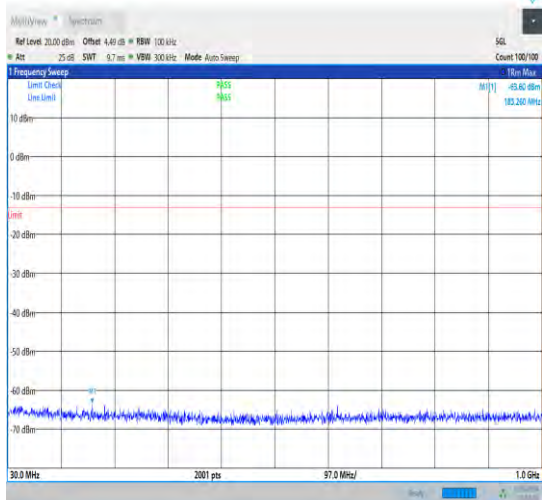
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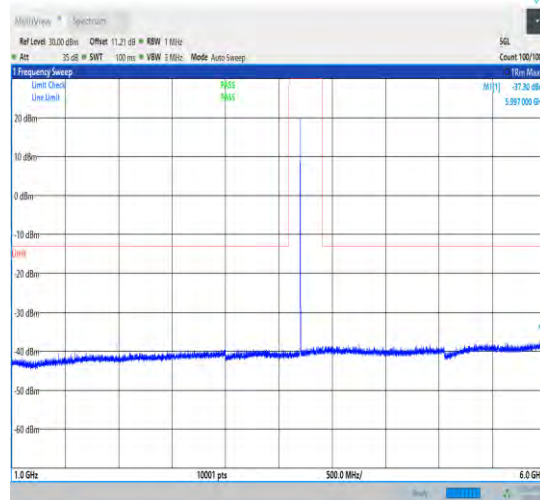
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1-N78-3700-3800-30-100-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-0.15-30-Ant0-20.69--80.52--33-PASS



1-N78-3700-3800-30-100-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-30-1000-Ant0-183.26--63.60--13-PA SS



1-N78-3700-3800-30-100-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-1000-6000-Ant0-5997.00--37.30--13-P ASS



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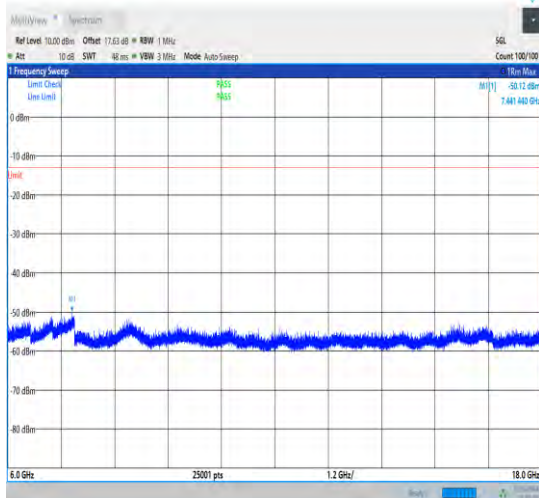
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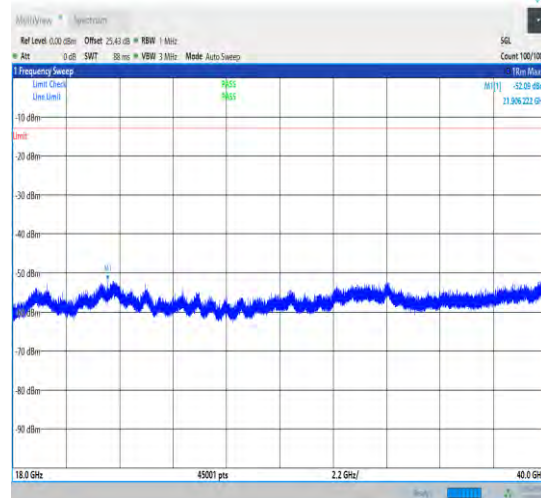
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1-N78-3700-3800-30-100-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-6000-18000-Ant0-7441.44--50.12--1  
3-PASS



1-N78-3700-3800-30-100-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-18000-40000-Ant0-21906.22--52.09--1  
3-PASS



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## Field Strength of Spurious Radiation

**For report SUCR240400009002:**
**Test Band = SA\_N78(3700-3800)**
**Test Channel = MCH**

| Final Data List |                |                   |                |          |                |                |                |            |
|-----------------|----------------|-------------------|----------------|----------|----------------|----------------|----------------|------------|
| NO.             | Freq.<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
| 1               | 4992.5496      | 27.39             | -15.25         | 33.11    | -50.01         | -13.00         | 37.01          | Horizontal |
| 2               | 7960.298       | 49.98             | -42.33         | 37.48    | -50.13         | -13.00         | 37.13          | Horizontal |
| 3               | 9510.1755      | 48.47             | -39.29         | 39.18    | -46.90         | -13.00         | 33.90          | Horizontal |
| 4               | 11999.7        | 46.71             | -36.61         | 39.40    | -45.76         | -13.00         | 32.76          | Horizontal |
| 5               | 15798.4899     | 46.60             | -34.45         | 39.40    | -43.71         | -13.00         | 30.71          | Horizontal |
| 6               | 17836.1918     | 48.48             | -37.37         | 41.69    | -42.46         | -13.00         | 29.46          | Horizontal |

| Final Data List |                |                   |                |          |                |                |                |          |
|-----------------|----------------|-------------------|----------------|----------|----------------|----------------|----------------|----------|
| NO.             | Freq.<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
| 1               | 4969.4485      | 27.58             | -15.26         | 33.16    | -49.78         | -13.00         | 36.78          | Vertical |
| 2               | 7407.6704      | 49.63             | -42.47         | 36.78    | -51.32         | -13.00         | 38.32          | Vertical |
| 3               | 9489.7745      | 48.90             | -39.34         | 39.16    | -46.54         | -13.00         | 33.54          | Vertical |
| 4               | 11835.8918     | 46.41             | -36.71         | 39.76    | -45.80         | -13.00         | 32.80          | Vertical |
| 5               | 14461.6231     | 46.95             | -35.06         | 40.56    | -42.81         | -13.00         | 29.81          | Vertical |
| 6               | 17984.9992     | 48.04             | -38.02         | 42.71    | -42.53         | -13.00         | 29.53          | Vertical |



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Test Band = SA\_N78(3700-3800) MIMO

Test Channel = MCH

| Final Data List |                |                   |                |          |                |                |                |            |
|-----------------|----------------|-------------------|----------------|----------|----------------|----------------|----------------|------------|
| NO.             | Freq.<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
| 1               | 5050.1525      | 27.51             | -15.07         | 33.40    | -49.42         | -13.00         | 36.42          | Horizontal |
| 2               | 6924.6462      | 50.60             | -43.45         | 36.30    | -51.81         | -13.00         | 38.81          | Horizontal |
| 3               | 7980.099       | 50.09             | -42.20         | 37.44    | -49.93         | -13.00         | 36.93          | Horizontal |
| 4               | 11404.4702     | 47.01             | -37.04         | 39.69    | -45.60         | -13.00         | 32.60          | Horizontal |
| 5               | 14993.8497     | 47.02             | -34.35         | 39.92    | -42.67         | -13.00         | 29.67          | Horizontal |
| 6               | 17990.9996     | 48.66             | -38.08         | 42.75    | -41.93         | -13.00         | 28.93          | Horizontal |

| Final Data List |                |                   |                |          |                |                |                |          |
|-----------------|----------------|-------------------|----------------|----------|----------------|----------------|----------------|----------|
| NO.             | Freq.<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
| 1               | 5031.5516      | 27.80             | -15.14         | 33.29    | -49.31         | -13.00         | 36.31          | Vertical |
| 2               | 7893.0947      | 49.58             | -41.87         | 37.36    | -50.19         | -13.00         | 37.19          | Vertical |
| 3               | 9481.9741      | 48.99             | -39.46         | 39.13    | -46.60         | -13.00         | 33.60          | Vertical |
| 4               | 10743.8372     | 47.17             | -37.81         | 39.59    | -46.31         | -13.00         | 33.31          | Vertical |
| 5               | 15068.8534     | 47.14             | -34.35         | 39.83    | -42.64         | -13.00         | 29.64          | Vertical |
| 6               | 17878.1939     | 47.88             | -37.48         | 42.03    | -42.83         | -13.00         | 29.83          | Vertical |



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**Test Band = NSA\_B12+N78(3700-3800)**
**Test Channel = MCH**

| Final Data List |                |                   |                |          |                |                |                |            |
|-----------------|----------------|-------------------|----------------|----------|----------------|----------------|----------------|------------|
| NO.             | Freq.<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
| 1               | 1410.5         | 29.73             | -19.10         | 25.78    | -58.85         | -13.00         | 45.85          | Horizontal |
| 2               | 2116           | 31.30             | -18.09         | 27.47    | -54.58         | -13.00         | 41.58          | Horizontal |
| 3               | 5081.5         | 30.44             | -12.51         | 33.46    | -43.87         | -13.00         | 30.87          | Horizontal |
| 4               | 8546           | 49.58             | -40.81         | 39.00    | -47.49         | -13.00         | 34.49          | Horizontal |
| 5               | 14203          | 47.45             | -34.59         | 40.80    | -41.60         | -13.00         | 28.60          | Horizontal |
| 6               | 17982.5        | 48.88             | -38.00         | 42.70    | -41.68         | -13.00         | 28.68          | Horizontal |

| Final Data List |                |                   |                |          |                |                |                |          |
|-----------------|----------------|-------------------|----------------|----------|----------------|----------------|----------------|----------|
| NO.             | Freq.<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
| 1               | 4639.5         | 26.11             | -14.12         | 32.02    | -51.25         | -13.00         | 38.25          | Vertical |
| 2               | 7402           | 52.60             | -42.40         | 36.80    | -48.26         | -13.00         | 35.26          | Vertical |
| 3               | 10098          | 48.97             | -38.78         | 38.50    | -46.57         | -13.00         | 33.57          | Vertical |
| 4               | 11858          | 47.85             | -36.72         | 39.67    | -44.46         | -13.00         | 31.46          | Vertical |
| 5               | 14217.5        | 47.49             | -34.78         | 40.78    | -41.77         | -13.00         | 28.77          | Vertical |
| 6               | 17983.5        | 48.92             | -38.01         | 42.70    | -41.65         | -13.00         | 28.65          | Vertical |

**Remark:**

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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**For report SUCR240400008902:**
**Test Band = SA Band 78 3700M-3800M\_ TM1**
**Test Channel = Mid Channel**

| Final Data List |                 |                |             |          |             |             |             |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1               | 7603.0417       | 34.06          | -37.69      | 36.70    | -62.19      | -13.00      | 49.19       | Horizontal |
| 2               | 9518.75         | 33.18          | -33.83      | 37.76    | -58.16      | -13.00      | 45.16       | Horizontal |
| 3               | 11281.125       | 29.22          | -29.98      | 38.40    | -57.62      | -13.00      | 44.62       | Horizontal |
| 4               | 12911.7292      | 31.29          | -30.07      | 39.49    | -54.54      | -13.00      | 41.54       | Horizontal |
| 5               | 15104.3958      | 29.98          | -28.77      | 39.90    | -54.15      | -13.00      | 41.15       | Horizontal |
| 6               | 17091.5         | 30.46          | -25.94      | 39.12    | -51.62      | -13.00      | 38.62       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1               | 7402.2708       | 37.43          | -37.93      | 36.48    | -59.27      | -13.00      | 46.27       | Vertical |
| 2               | 9573.8542       | 32.78          | -33.64      | 37.77    | -58.35      | -13.00      | 45.35       | Vertical |
| 3               | 11284.9583      | 29.65          | -29.96      | 38.40    | -57.17      | -13.00      | 44.17       | Vertical |
| 4               | 13600.2917      | 30.21          | -28.83      | 40.02    | -53.86      | -13.00      | 40.86       | Vertical |
| 5               | 15013.8333      | 29.21          | -28.28      | 40.07    | -54.26      | -13.00      | 41.26       | Vertical |
| 6               | 17694.7708      | 28.49          | -24.45      | 40.57    | -50.65      | -13.00      | 37.65       | Vertical |



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**Test Band = UL MIMO SA Band 78 3700-3800\_ TM1**
**Test Channel = Mid Channel**

| Final Data List |                 |                |             |          |             |             |             |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1               | 7402.2708       | 34.96          | -37.93      | 36.48    | -61.74      | -13.00      | 48.74       | Horizontal |
| 2               | 9007.4792       | 32.89          | -34.52      | 37.60    | -59.29      | -13.00      | 46.29       | Horizontal |
| 3               | 10809.1458      | 30.25          | -30.72      | 38.30    | -57.43      | -13.00      | 44.43       | Horizontal |
| 4               | 12108.6458      | 30.95          | -29.40      | 38.53    | -55.18      | -13.00      | 42.18       | Horizontal |
| 5               | 13903.125       | 30.78          | -28.75      | 40.23    | -52.99      | -13.00      | 39.99       | Horizontal |
| 6               | 15531.3333      | 29.43          | -27.23      | 39.09    | -53.97      | -13.00      | 40.97       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1               | 7401.7917       | 36.92          | -37.93      | 36.48    | -59.78      | -13.00      | 46.78       | Vertical |
| 2               | 8942.7917       | 32.96          | -34.96      | 37.57    | -59.69      | -13.00      | 46.69       | Vertical |
| 3               | 10738.7083      | 31.00          | -30.93      | 38.27    | -56.92      | -13.00      | 43.92       | Vertical |
| 4               | 11961.0625      | 31.00          | -29.76      | 38.40    | -55.62      | -13.00      | 42.62       | Vertical |
| 5               | 14390.9167      | 30.42          | -28.77      | 40.22    | -53.39      | -13.00      | 40.39       | Vertical |
| 6               | 16688.0417      | 30.08          | -26.70      | 38.68    | -53.20      | -13.00      | 40.20       | Vertical |

**Remark:**

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Report No.: SUCR240400008902

Rev.: 01

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## Frequency Stability for SA

### Test Result

### Frequency Error VS. Voltage

| Voltage       |     |            |             |         |            |         |             |                |                 |         |
|---------------|-----|------------|-------------|---------|------------|---------|-------------|----------------|-----------------|---------|
| Band          | SCS | Band width | Modulation  | Channel | RB Config  | Voltage | Temperature | Deviation (Hz) | Deviation (ppm) | Verdict |
| N78-3700-3800 | 30  | 100        | DFT-PI2BPSK | M       | Outer_Full | VH      | NT          | -4.500000      | -0.001200       | PASS    |
| N78-3700-3800 | 30  | 100        | DFT-PI2BPSK | M       | Outer_Full | VN      | NT          | -3.000000      | -0.000800       | PASS    |
| N78-3700-3800 | 30  | 100        | DFT-PI2BPSK | M       | Outer_Full | VL      | NT          | 5.300000       | 0.001413        | PASS    |
| N78-3700-3800 | 30  | 100        | CP-QPSK     | M       | Outer_Full | VH      | NT          | -2.100000      | -0.000560       | PASS    |
| N78-3700-3800 | 30  | 100        | CP-QPSK     | M       | Outer_Full | VN      | NT          | -10.100000     | -0.002693       | PASS    |
| N78-3700-3800 | 30  | 100        | CP-QPSK     | M       | Outer_Full | VL      | NT          | -3.900000      | -0.001040       | PASS    |



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## Frequency Error VS. Temperature

| Temperature   |     |            |             |         |            |         |             |                |                 |         |
|---------------|-----|------------|-------------|---------|------------|---------|-------------|----------------|-----------------|---------|
| Band          | SCS | Band width | Modulation  | Channel | RB Config  | Voltage | Temperature | Deviation (Hz) | Deviation (ppm) | Verdict |
| N78-3700-3800 | 30  | 100        | DFT-PI2BPSK | M       | Outer_Full | NV      | 50          | -4.500000      | -0.001200       | PASS    |
| N78-3700-3800 | 30  | 100        | DFT-PI2BPSK | M       | Outer_Full | NV      | -20         | -4.700000      | -0.001253       | PASS    |
| N78-3700-3800 | 30  | 100        | DFT-PI2BPSK | M       | Outer_Full | NV      | -10         | 5.200000       | 0.001387        | PASS    |
| N78-3700-3800 | 30  | 100        | DFT-PI2BPSK | M       | Outer_Full | NV      | 0           | -8.300000      | -0.002213       | PASS    |
| N78-3700-3800 | 30  | 100        | DFT-PI2BPSK | M       | Outer_Full | NV      | 10          | -11.400000     | -0.003040       | PASS    |
| N78-3700-3800 | 30  | 100        | DFT-PI2BPSK | M       | Outer_Full | NV      | 20          | 6.800000       | 0.001813        | PASS    |
| N78-3700-3800 | 30  | 100        | DFT-PI2BPSK | M       | Outer_Full | NV      | 30          | 2.100000       | 0.000560        | PASS    |
| N78-3700-3800 | 30  | 100        | DFT-PI2BPSK | M       | Outer_Full | NV      | -30         | -5.600000      | -0.001493       | PASS    |
| N78-3700-3800 | 30  | 100        | DFT-PI2BPSK | M       | Outer_Full | NV      | 40          | -2.200000      | -0.000587       | PASS    |
| N78-3700-3800 | 30  | 100        | CP-QPSK     | M       | Outer_Full | NV      | 50          | -1.000000      | -0.000267       | PASS    |
| N78-3700-3800 | 30  | 100        | CP-QPSK     | M       | Outer_Full | NV      | -20         | 1.100000       | 0.000293        | PASS    |
| N78-3700-3800 | 30  | 100        | CP-QPSK     | M       | Outer_Full | NV      | -10         | 6.600000       | 0.001760        | PASS    |
| N78-3700-3800 | 30  | 100        | CP-QPSK     | M       | Outer_Full | NV      | 0           | 0.100000       | 0.000027        | PASS    |
| N78-3700-3800 | 30  | 100        | CP-QPSK     | M       | Outer_Full | NV      | 10          | -7.200000      | -0.001920       | PASS    |
| N78-3700-3800 | 30  | 100        | CP-QPSK     | M       | Outer_Full | NV      | 20          | -9.600000      | -0.002560       | PASS    |
| N78-3700-3800 | 30  | 100        | CP-QPSK     | M       | Outer_Full | NV      | 30          | -8.100000      | -0.002160       | PASS    |
| N78-3700-3800 | 30  | 100        | CP-QPSK     | M       | Outer_Full | NV      | 40          | -1.700000      | -0.000453       | PASS    |
| N78-3700-3800 | 30  | 100        | CP-QPSK     | M       | Outer_Full | NV      | -30         | -5.200000      | -0.001387       | PASS    |

---End of Attachment---



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