



Reference No.: W7L-P24050018RF11

## FREQUENCY STABILITY FOR SA TEST RESULT

| Band              | SCS | Bandwidth | Modulation | Channel | RB Config  | Voltage | Temperature | Deviation(Hz) | Deviation (ppm) | Verdict |
|-------------------|-----|-----------|------------|---------|------------|---------|-------------|---------------|-----------------|---------|
| N77-345<br>0-3550 | 30  | 20        | DFT-QPSK   | L       | Outer_Full | VL      | NT          | 2.000000      | 0.000578        | PASS    |
| N77-345<br>0-3550 | 30  | 20        | DFT-QPSK   | L       | Outer_Full | VN      | NT          | 4.000000      | 0.001156        | PASS    |
| N77-345<br>0-3550 | 30  | 20        | DFT-QPSK   | L       | Outer_Full | VH      | NT          | 11.000000     | 0.003179        | PASS    |
| N77-345<br>0-3550 | 30  | 20        | DFT-QPSK   | L       | Outer_Full | NV      | -30         | 1.000000      | 0.000289        | PASS    |
| N77-345<br>0-3550 | 30  | 20        | DFT-QPSK   | L       | Outer_Full | NV      | -20         | 11.000000     | 0.003179        | PASS    |
| N77-345<br>0-3550 | 30  | 20        | DFT-QPSK   | L       | Outer_Full | NV      | -10         | 3.000000      | 0.000867        | PASS    |
| N77-345<br>0-3550 | 30  | 20        | DFT-QPSK   | L       | Outer_Full | NV      | 0           | 13.000000     | 0.003757        | PASS    |
| N77-345<br>0-3550 | 30  | 20        | DFT-QPSK   | L       | Outer_Full | NV      | 10          | 19.000000     | 0.005491        | PASS    |
| N77-345<br>0-3550 | 30  | 20        | DFT-QPSK   | L       | Outer_Full | NV      | 20          | 11.000000     | 0.003179        | PASS    |
| N77-345<br>0-3550 | 30  | 20        | DFT-QPSK   | L       | Outer_Full | NV      | 30          | 9.000000      | 0.002601        | PASS    |
| N77-345<br>0-3550 | 30  | 20        | DFT-QPSK   | L       | Outer_Full | NV      | 40          | 19.000000     | 0.005491        | PASS    |
| N77-345<br>0-3550 | 30  | 20        | DFT-QPSK   | L       | Outer_Full | NV      | 50          | 6.000000      | 0.001734        | PASS    |
| N77-345<br>0-3550 | 30  | 20        | DFT-QPSK   | M       | Outer_Full | VL      | NT          | 9.000000      | 0.002571        | PASS    |
| N77-345<br>0-3550 | 30  | 20        | DFT-QPSK   | M       | Outer_Full | VN      | NT          | 11.000000     | 0.003143        | PASS    |
| N77-345<br>0-3550 | 30  | 20        | DFT-QPSK   | M       | Outer_Full | VH      | NT          | 3.000000      | 0.000857        | PASS    |
| N77-345<br>0-3550 | 30  | 20        | DFT-QPSK   | M       | Outer_Full | NV      | -30         | 13.000000     | 0.003714        | PASS    |
| N77-345<br>0-3550 | 30  | 20        | DFT-QPSK   | M       | Outer_Full | NV      | -20         | 1.000000      | 0.000286        | PASS    |
| N77-345<br>0-3550 | 30  | 20        | DFT-QPSK   | M       | Outer_Full | NV      | -10         | 12.000000     | 0.003429        | PASS    |
| N77-345<br>0-3550 | 30  | 20        | DFT-QPSK   | M       | Outer_Full | NV      | 0           | 3.000000      | 0.000857        | PASS    |
| N77-345<br>0-3550 | 30  | 20        | DFT-QPSK   | M       | Outer_Full | NV      | 10          | 11.000000     | 0.003143        | PASS    |
| N77-345<br>0-3550 | 30  | 20        | DFT-QPSK   | M       | Outer_Full | NV      | 20          | 1.000000      | 0.000286        | PASS    |
| N77-345<br>0-3550 | 30  | 20        | DFT-QPSK   | M       | Outer_Full | NV      | 30          | 12.000000     | 0.003429        | PASS    |



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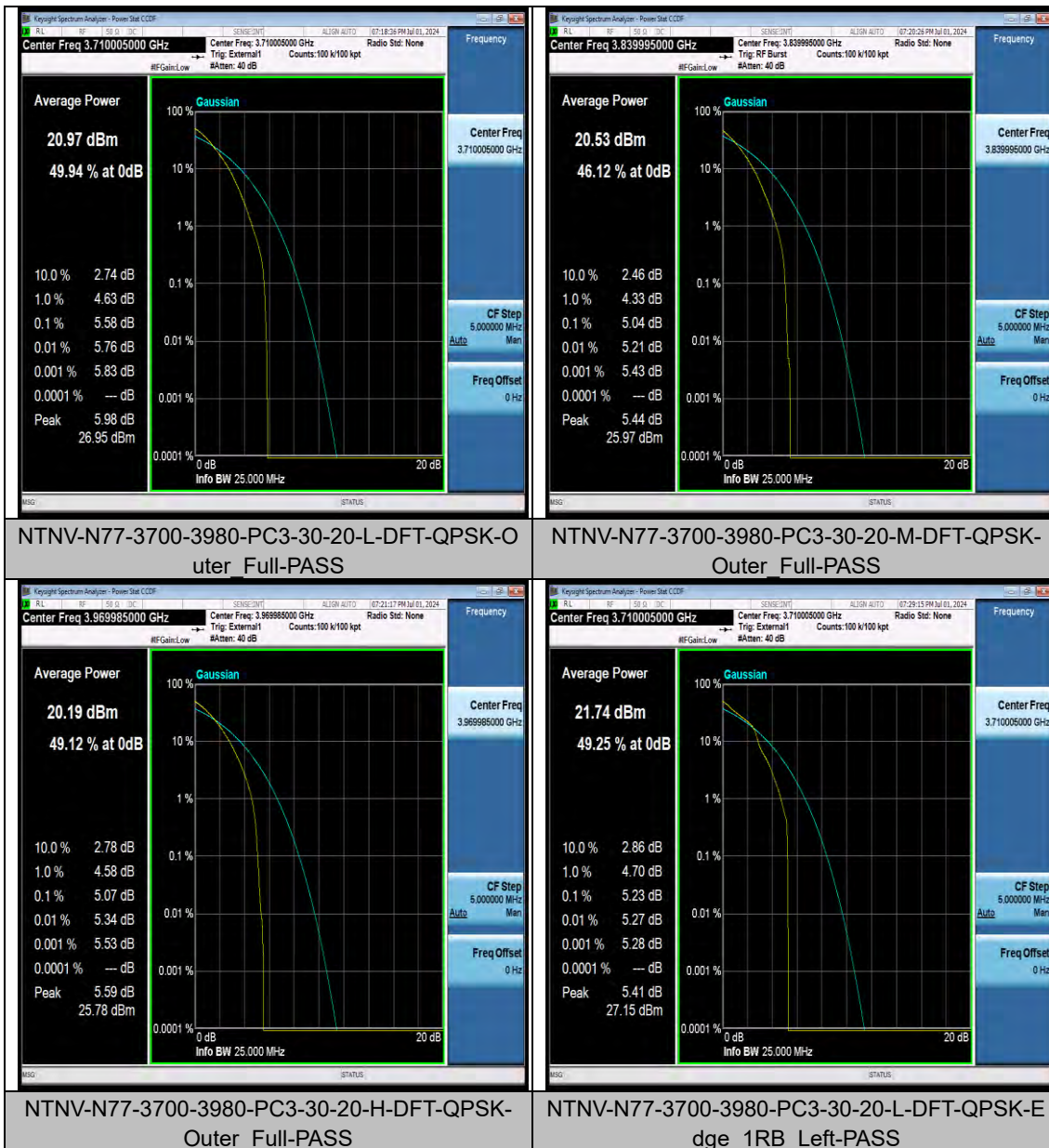
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|-------------------|----|----|----------|---|------------|----|-----|-----------|----------|------|
| N77-345<br>0-3550 | 30 | 20 | DFT-QPSK | M | Outer_Full | NV | 40  | 3.000000  | 0.000857 | PASS |
| N77-345<br>0-3550 | 30 | 20 | DFT-QPSK | M | Outer_Full | NV | 50  | 14.000000 | 0.004000 | PASS |
| N77-345<br>0-3550 | 30 | 20 | DFT-QPSK | H | Outer_Full | VL | NT  | 10.000000 | 0.002825 | PASS |
| N77-345<br>0-3550 | 30 | 20 | DFT-QPSK | H | Outer_Full | VN | NT  | 12.000000 | 0.003390 | PASS |
| N77-345<br>0-3550 | 30 | 20 | DFT-QPSK | H | Outer_Full | VH | NT  | 4.000000  | 0.001130 | PASS |
| N77-345<br>0-3550 | 30 | 20 | DFT-QPSK | H | Outer_Full | NV | -30 | 14.000000 | 0.003955 | PASS |
| N77-345<br>0-3550 | 30 | 20 | DFT-QPSK | H | Outer_Full | NV | -20 | 4.000000  | 0.001130 | PASS |
| N77-345<br>0-3550 | 30 | 20 | DFT-QPSK | H | Outer_Full | NV | -10 | 15.000000 | 0.004237 | PASS |
| N77-345<br>0-3550 | 30 | 20 | DFT-QPSK | H | Outer_Full | NV | 0   | 3.000000  | 0.000847 | PASS |
| N77-345<br>0-3550 | 30 | 20 | DFT-QPSK | H | Outer_Full | NV | 10  | 18.000000 | 0.005085 | PASS |
| N77-345<br>0-3550 | 30 | 20 | DFT-QPSK | H | Outer_Full | NV | 20  | 10.000000 | 0.002825 | PASS |
| N77-345<br>0-3550 | 30 | 20 | DFT-QPSK | H | Outer_Full | NV | 30  | 8.000000  | 0.002260 | PASS |
| N77-345<br>0-3550 | 30 | 20 | DFT-QPSK | H | Outer_Full | NV | 40  | 12.000000 | 0.003390 | PASS |
| N77-345<br>0-3550 | 30 | 20 | DFT-QPSK | H | Outer_Full | NV | 50  | 3.000000  | 0.000847 | PASS |

## N77-3700-3980 PEAK-TO-AVERAGE RATIO(CCDF)

### TEST RESULT

| Band          | SCS | Bandwidth | Modulation | Channel | RB Config     | Result | Limit | Verdict |
|---------------|-----|-----------|------------|---------|---------------|--------|-------|---------|
| N77-3700-3980 | 30  | 20        | DFT-QPSK   | L       | Outer_Full    | 5.58   | ≤13   | PASS    |
| N77-3700-3980 | 30  | 20        | DFT-QPSK   | M       | Outer_Full    | 5.04   | ≤13   | PASS    |
| N77-3700-3980 | 30  | 20        | DFT-QPSK   | H       | Outer_Full    | 5.07   | ≤13   | PASS    |
| N77-3700-3980 | 30  | 20        | DFT-QPSK   | L       | Edge_1RB_Left | 5.23   | ≤13   | PASS    |
| N77-3700-3980 | 30  | 20        | DFT-QPSK   | M       | Edge_1RB_Left | 4.41   | ≤13   | PASS    |
| N77-3700-3980 | 30  | 20        | DFT-QPSK   | H       | Edge_1RB_Left | 5.06   | ≤13   | PASS    |

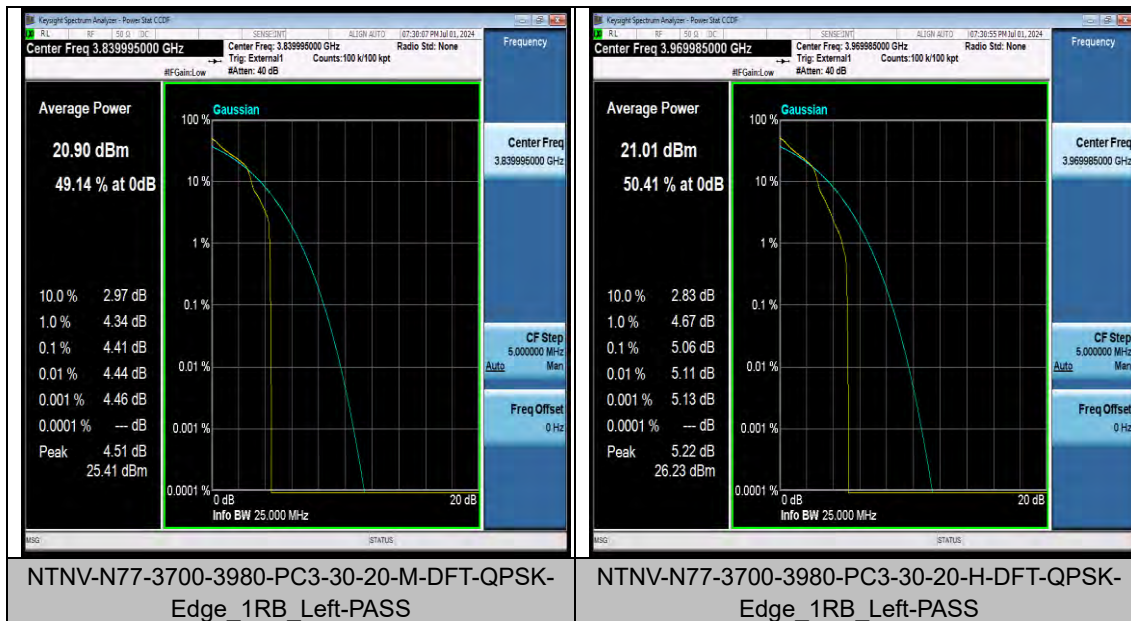
## TEST GRAPHS





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Reference No.: W7L-P24050018RF11





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## 26DB BANDWIDTH AND OCCUPIED BANDWIDTH FOR SA TEST RESULT

| Band              | SCS | Bandwidth | Modulation  | Channel | RB Config  | Result (99%) | Result (26dB) | Verdict |
|-------------------|-----|-----------|-------------|---------|------------|--------------|---------------|---------|
| N77-3700<br>-3980 | 30  | 10        | DFT-PI2BPSK | M       | Outer_Full | 8.5864       | 9.470         | PASS    |
| N77-3700<br>-3980 | 30  | 10        | DFT-QPSK    | M       | Outer_Full | 8.5628       | 9.331         | PASS    |
| N77-3700<br>-3980 | 30  | 10        | DFT-16QAM   | M       | Outer_Full | 8.5808       | 9.373         | PASS    |
| N77-3700<br>-3980 | 30  | 10        | DFT-64QAM   | M       | Outer_Full | 8.5659       | 9.278         | PASS    |
| N77-3700<br>-3980 | 30  | 10        | DFT-256QAM  | M       | Outer_Full | 8.5508       | 9.288         | PASS    |
| N77-3700<br>-3980 | 30  | 100       | DFT-PI2BPSK | M       | Outer_Full | 96.323       | 99.52         | PASS    |
| N77-3700<br>-3980 | 30  | 100       | DFT-QPSK    | M       | Outer_Full | 96.367       | 99.49         | PASS    |
| N77-3700<br>-3980 | 30  | 100       | DFT-16QAM   | M       | Outer_Full | 96.413       | 99.52         | PASS    |
| N77-3700<br>-3980 | 30  | 100       | DFT-64QAM   | M       | Outer_Full | 96.305       | 99.55         | PASS    |
| N77-3700<br>-3980 | 30  | 100       | DFT-256QAM  | M       | Outer_Full | 96.246       | 99.48         | PASS    |
| N77-3700<br>-3980 | 30  | 20        | DFT-PI2BPSK | M       | Outer_Full | 17.789       | 18.80         | PASS    |
| N77-3700<br>-3980 | 30  | 20        | DFT-QPSK    | M       | Outer_Full | 17.775       | 18.88         | PASS    |
| N77-3700<br>-3980 | 30  | 20        | DFT-16QAM   | M       | Outer_Full | 17.858       | 18.75         | PASS    |
| N77-3700<br>-3980 | 30  | 20        | DFT-64QAM   | M       | Outer_Full | 17.805       | 19.03         | PASS    |
| N77-3700<br>-3980 | 30  | 20        | DFT-256QAM  | M       | Outer_Full | 17.812       | 18.91         | PASS    |
| N77-3700<br>-3980 | 30  | 30        | DFT-PI2BPSK | M       | Outer_Full | 26.769       | 28.17         | PASS    |
| N77-3700<br>-3980 | 30  | 30        | DFT-QPSK    | M       | Outer_Full | 26.742       | 28.11         | PASS    |
| N77-3700<br>-3980 | 30  | 30        | DFT-16QAM   | M       | Outer_Full | 26.759       | 28.18         | PASS    |
| N77-3700<br>-3980 | 30  | 30        | DFT-64QAM   | M       | Outer_Full | 26.759       | 28.10         | PASS    |
| N77-3700<br>-3980 | 30  | 30        | DFT-256QAM  | M       | Outer_Full | 26.764       | 28.08         | PASS    |
| N77-3700<br>-3980 | 30  | 40        | DFT-PI2BPSK | M       | Outer_Full | 35.684       | 37.33         | PASS    |
| N77-3700<br>-3980 | 30  | 40        | DFT-QPSK    | M       | Outer_Full | 35.759       | 36.95         | PASS    |
| N77-3700<br>-3980 | 30  | 40        | DFT-16QAM   | M       | Outer_Full | 35.781       | 37.25         | PASS    |

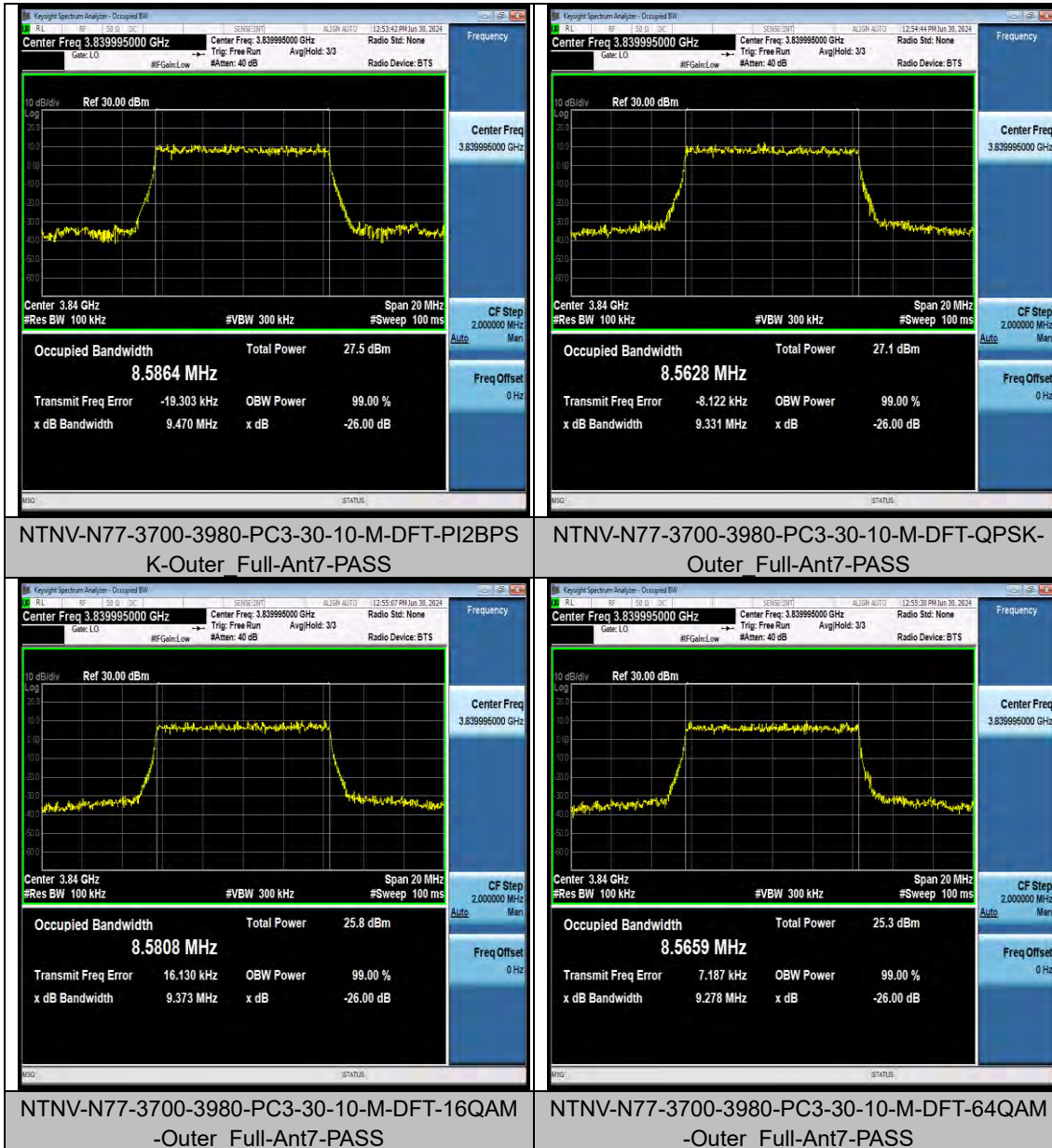


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|                   |    |    |             |   |            |        |       |      |
|-------------------|----|----|-------------|---|------------|--------|-------|------|
| N77-3700<br>-3980 | 30 | 40 | DFT-64QAM   | M | Outer_Full | 35.768 | 37.42 | PASS |
| N77-3700<br>-3980 | 30 | 40 | DFT-256QAM  | M | Outer_Full | 35.750 | 37.42 | PASS |
| N77-3700<br>-3980 | 30 | 50 | DFT-PI2BPSK | M | Outer_Full | 45.702 | 47.58 | PASS |
| N77-3700<br>-3980 | 30 | 50 | DFT-QPSK    | M | Outer_Full | 45.665 | 47.47 | PASS |
| N77-3700<br>-3980 | 30 | 50 | DFT-16QAM   | M | Outer_Full | 45.686 | 47.40 | PASS |
| N77-3700<br>-3980 | 30 | 50 | DFT-64QAM   | M | Outer_Full | 45.668 | 47.40 | PASS |
| N77-3700<br>-3980 | 30 | 50 | DFT-256QAM  | M | Outer_Full | 45.681 | 47.57 | PASS |
| N77-3700<br>-3980 | 30 | 60 | DFT-PI2BPSK | M | Outer_Full | 57.878 | 59.93 | PASS |
| N77-3700<br>-3980 | 30 | 60 | DFT-QPSK    | M | Outer_Full | 57.901 | 59.92 | PASS |
| N77-3700<br>-3980 | 30 | 60 | DFT-16QAM   | M | Outer_Full | 57.742 | 59.88 | PASS |
| N77-3700<br>-3980 | 30 | 60 | DFT-64QAM   | M | Outer_Full | 57.777 | 59.97 | PASS |
| N77-3700<br>-3980 | 30 | 60 | DFT-256QAM  | M | Outer_Full | 57.777 | 60.00 | PASS |
| N77-3700<br>-3980 | 30 | 70 | DFT-PI2BPSK | M | Outer_Full | 64.166 | 66.68 | PASS |
| N77-3700<br>-3980 | 30 | 70 | DFT-QPSK    | M | Outer_Full | 64.254 | 66.81 | PASS |
| N77-3700<br>-3980 | 30 | 70 | DFT-16QAM   | M | Outer_Full | 64.233 | 66.78 | PASS |
| N77-3700<br>-3980 | 30 | 70 | DFT-64QAM   | M | Outer_Full | 64.192 | 66.60 | PASS |
| N77-3700<br>-3980 | 30 | 70 | DFT-256QAM  | M | Outer_Full | 64.175 | 66.68 | PASS |
| N77-3700<br>-3980 | 30 | 80 | DFT-PI2BPSK | M | Outer_Full | 77.091 | 79.71 | PASS |
| N77-3700<br>-3980 | 30 | 80 | DFT-QPSK    | M | Outer_Full | 77.080 | 79.65 | PASS |
| N77-3700<br>-3980 | 30 | 80 | DFT-16QAM   | M | Outer_Full | 76.891 | 79.71 | PASS |
| N77-3700<br>-3980 | 30 | 80 | DFT-64QAM   | M | Outer_Full | 77.211 | 79.61 | PASS |
| N77-3700<br>-3980 | 30 | 80 | DFT-256QAM  | M | Outer_Full | 77.068 | 79.63 | PASS |
| N77-3700<br>-3980 | 30 | 90 | DFT-PI2BPSK | M | Outer_Full | 86.732 | 89.53 | PASS |
| N77-3700<br>-3980 | 30 | 90 | DFT-QPSK    | M | Outer_Full | 86.645 | 89.60 | PASS |
| N77-3700<br>-3980 | 30 | 90 | DFT-16QAM   | M | Outer_Full | 86.874 | 89.61 | PASS |
| N77-3700<br>-3980 | 30 | 90 | DFT-64QAM   | M | Outer_Full | 86.494 | 89.50 | PASS |
| N77-3700<br>-3980 | 30 | 90 | DFT-256QAM  | M | Outer_Full | 86.577 | 89.53 | PASS |



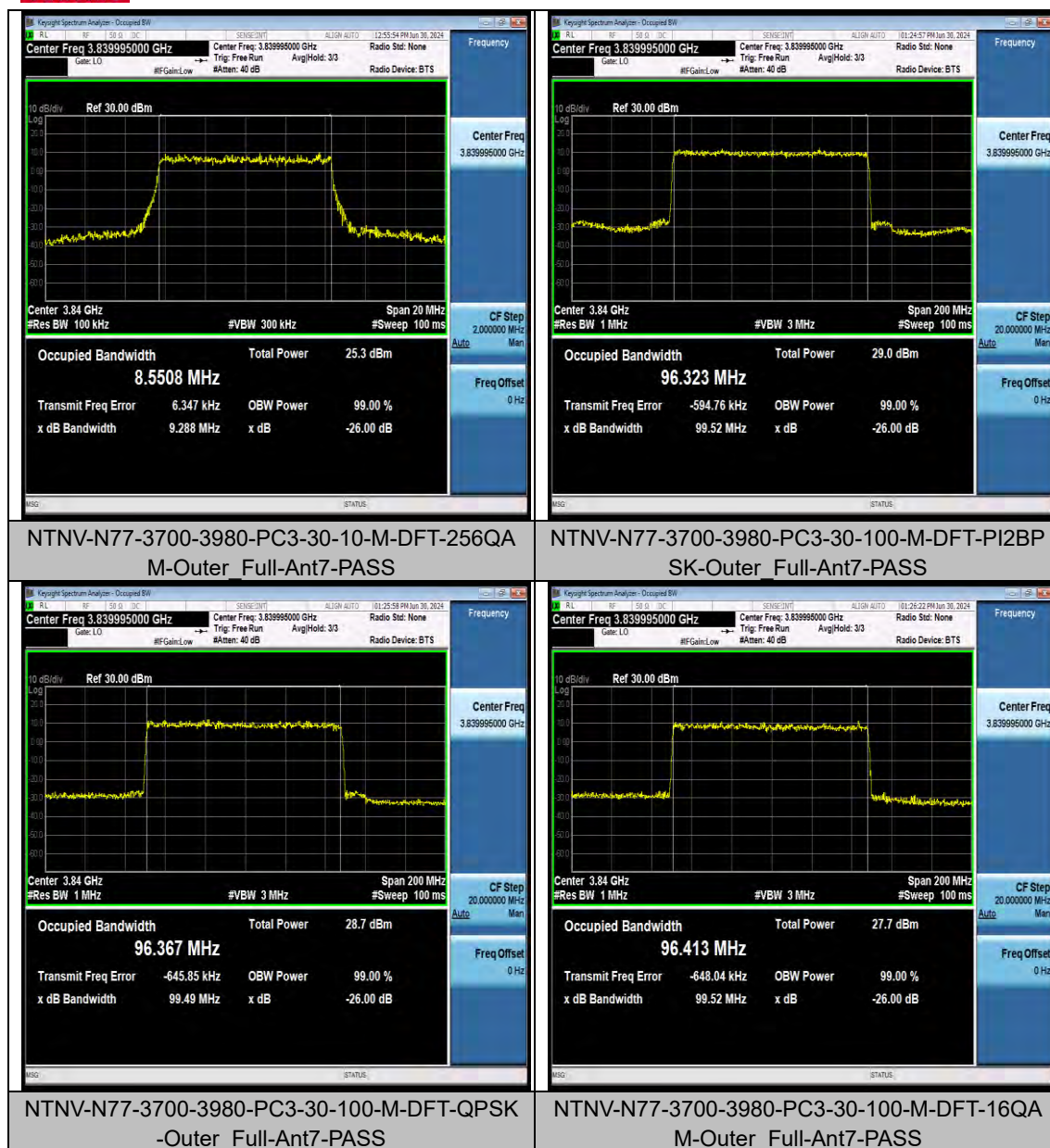
## TEST GRAPHS





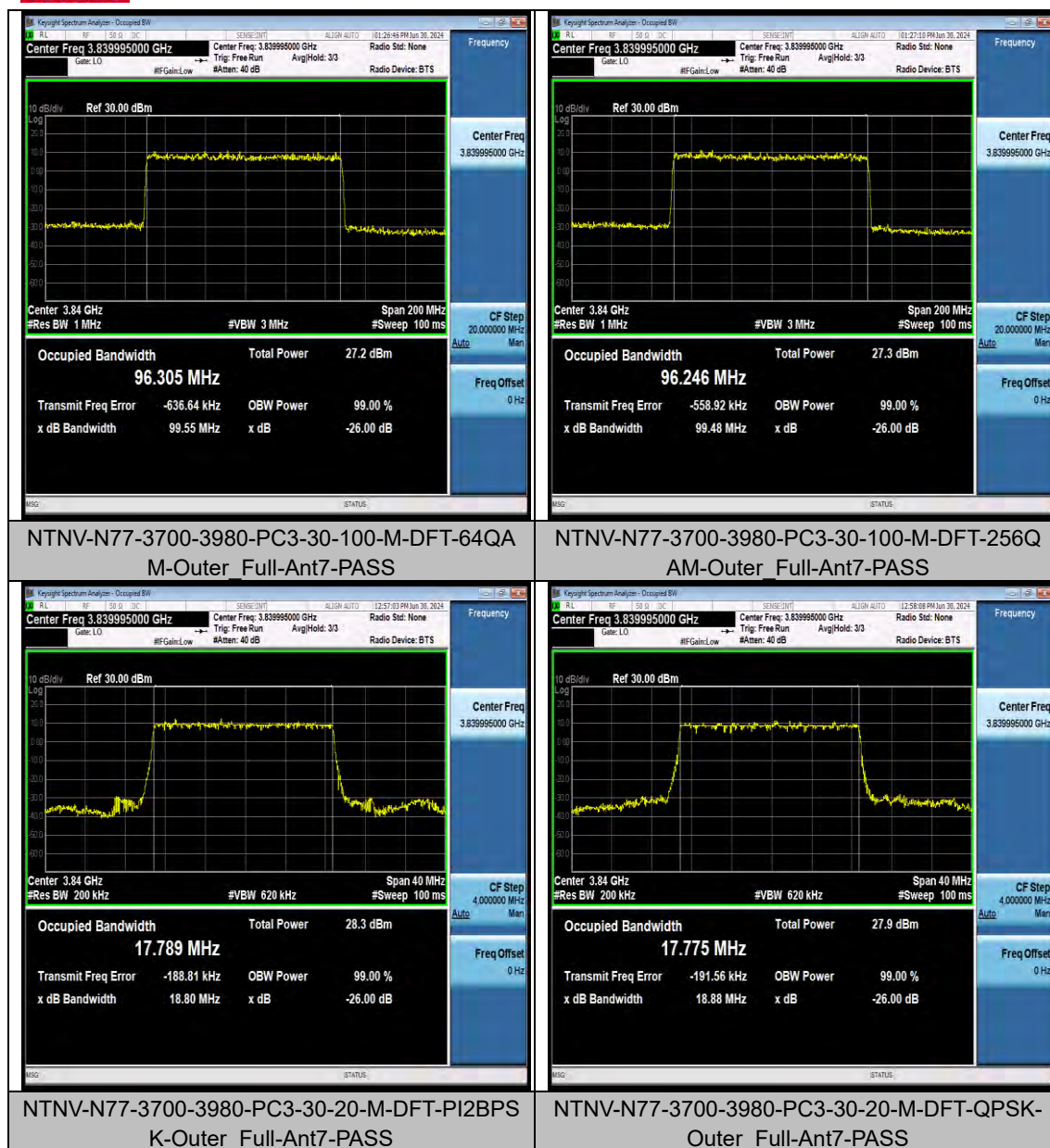


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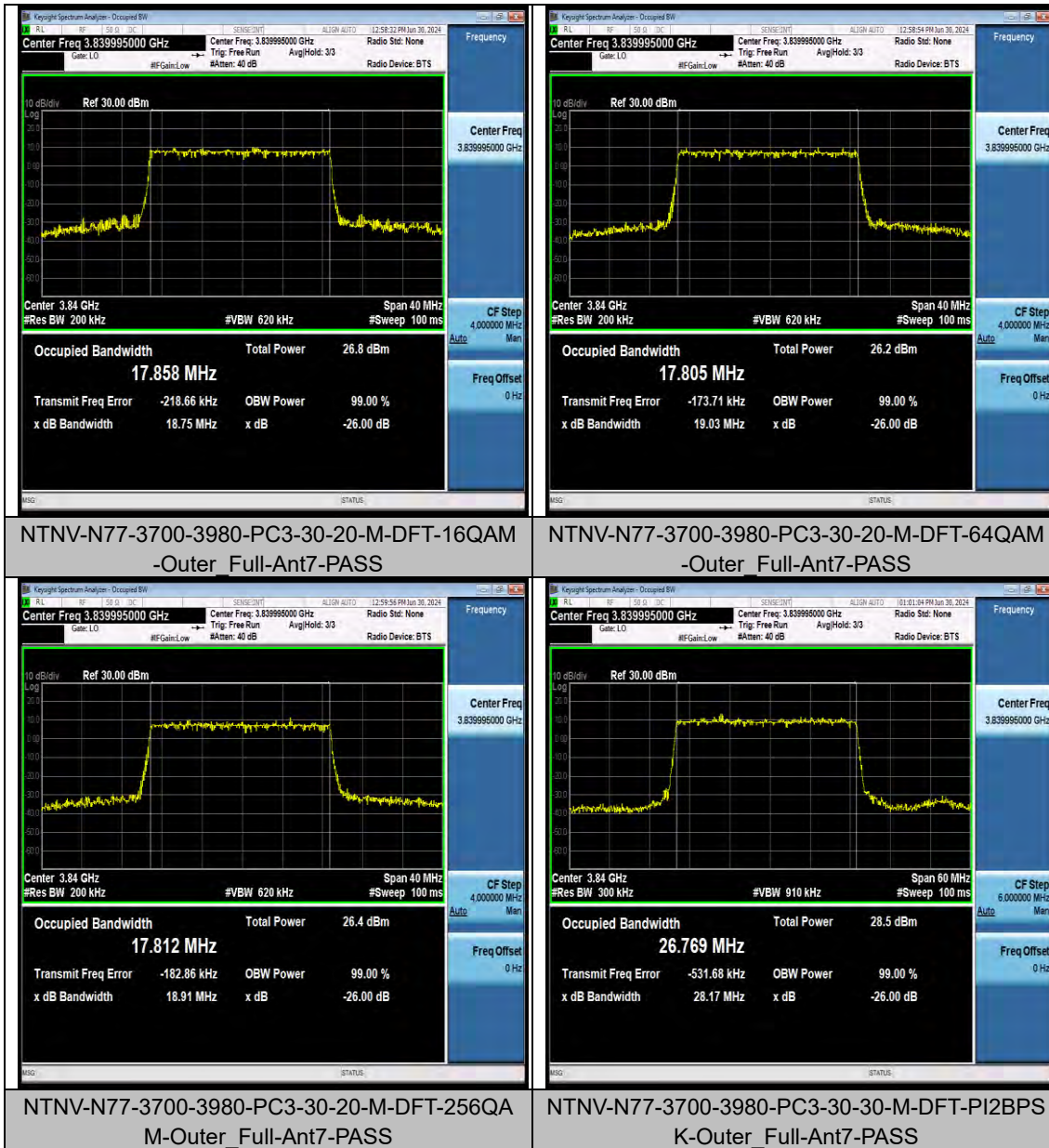
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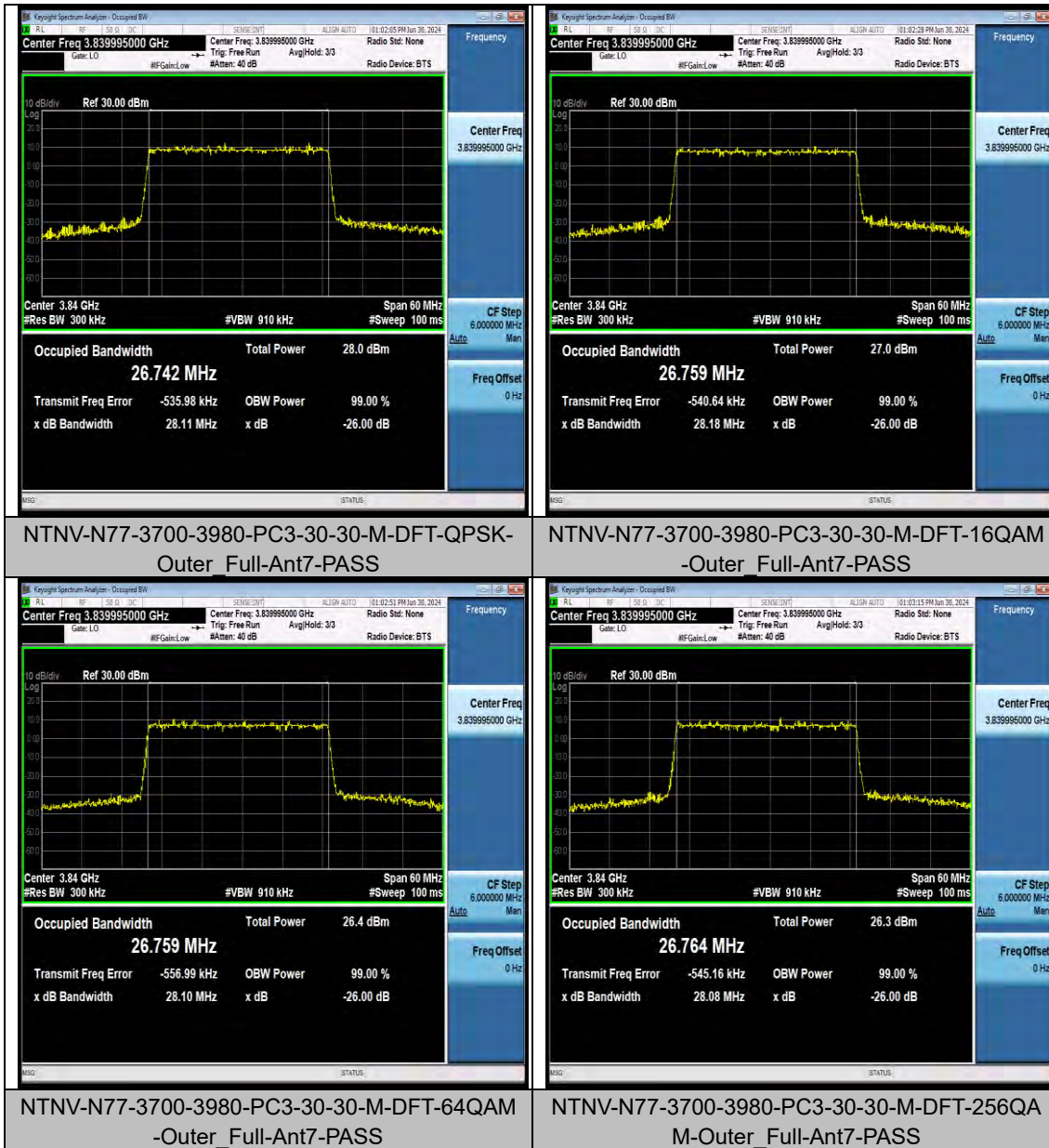






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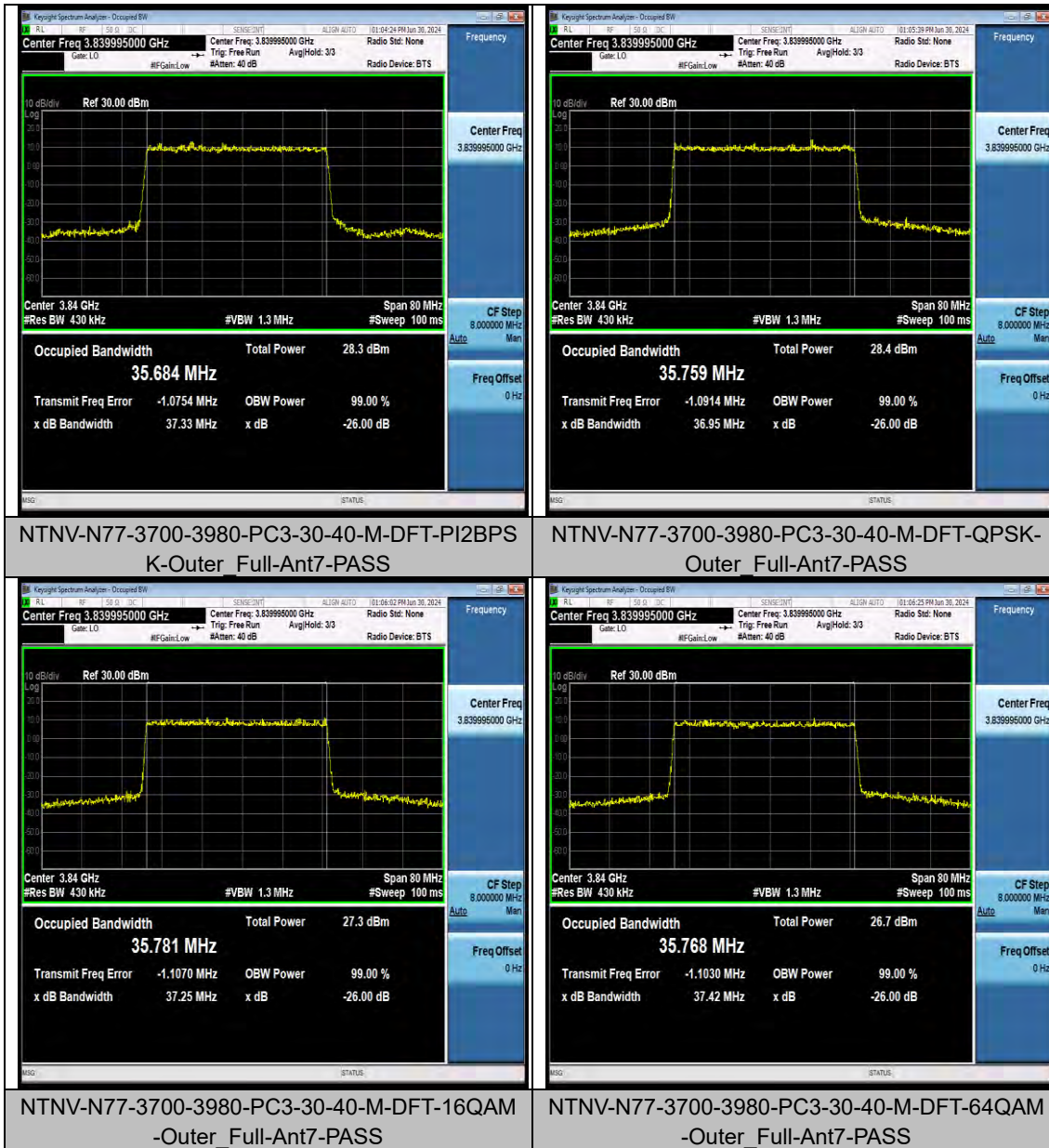
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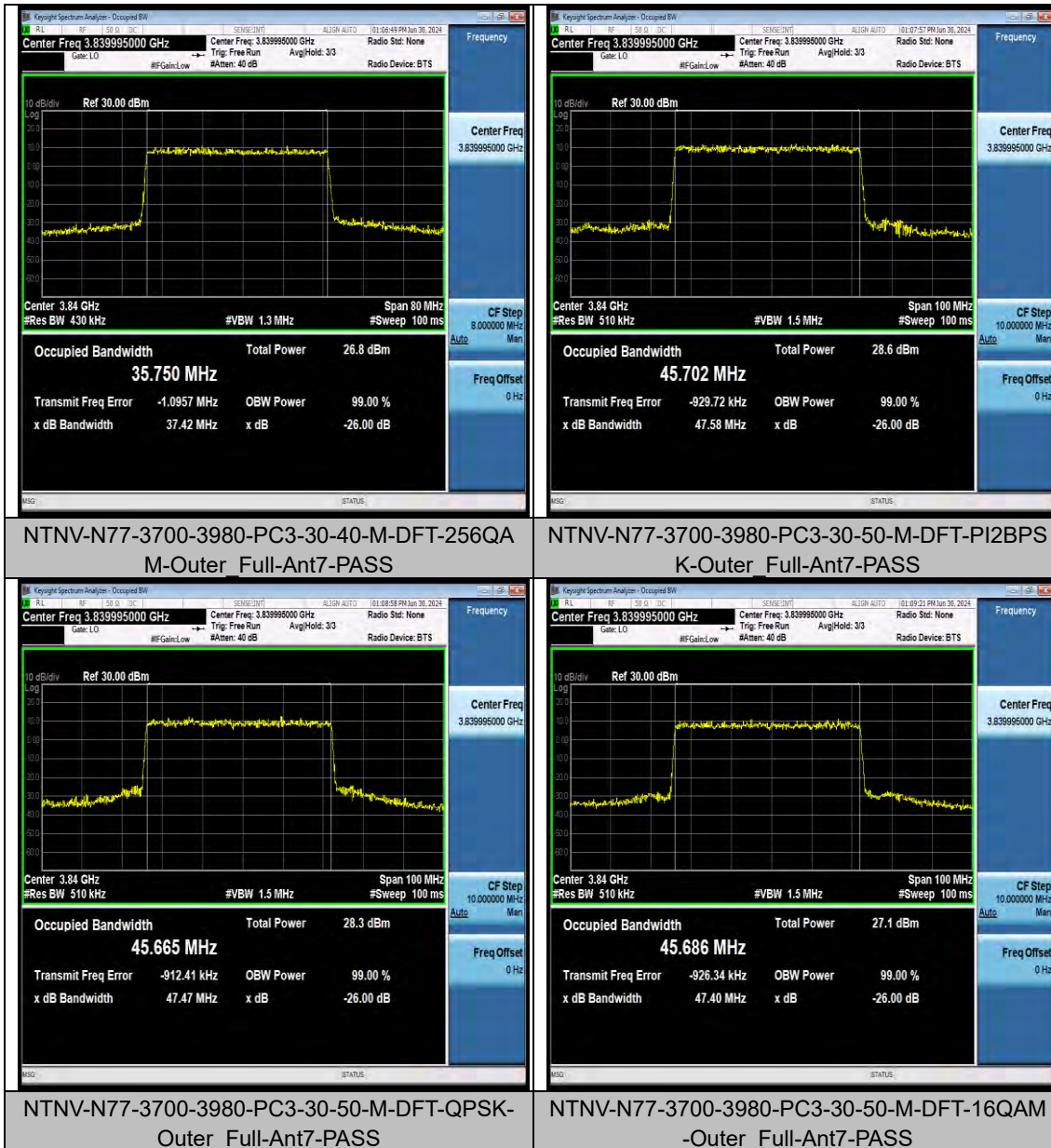
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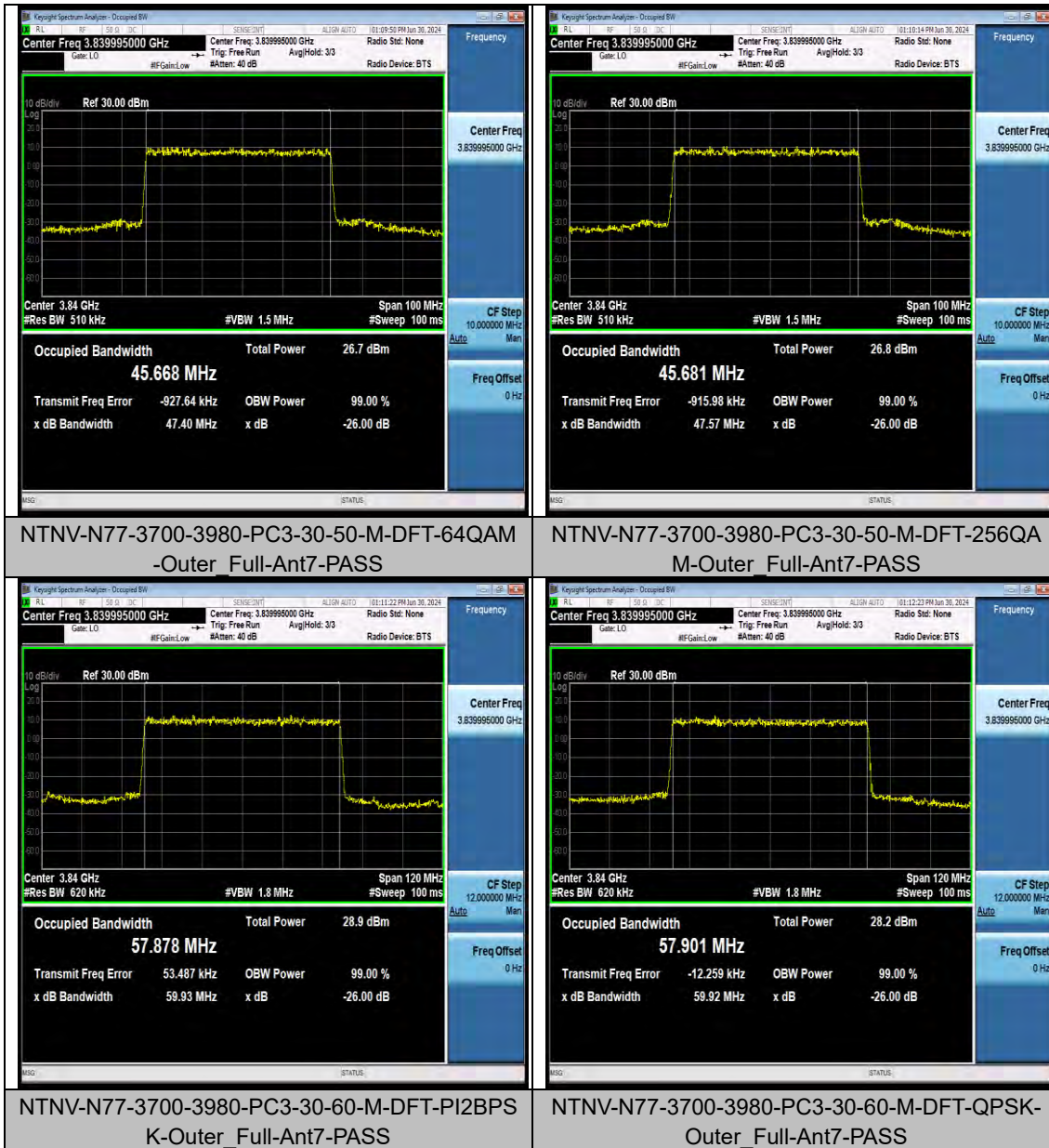






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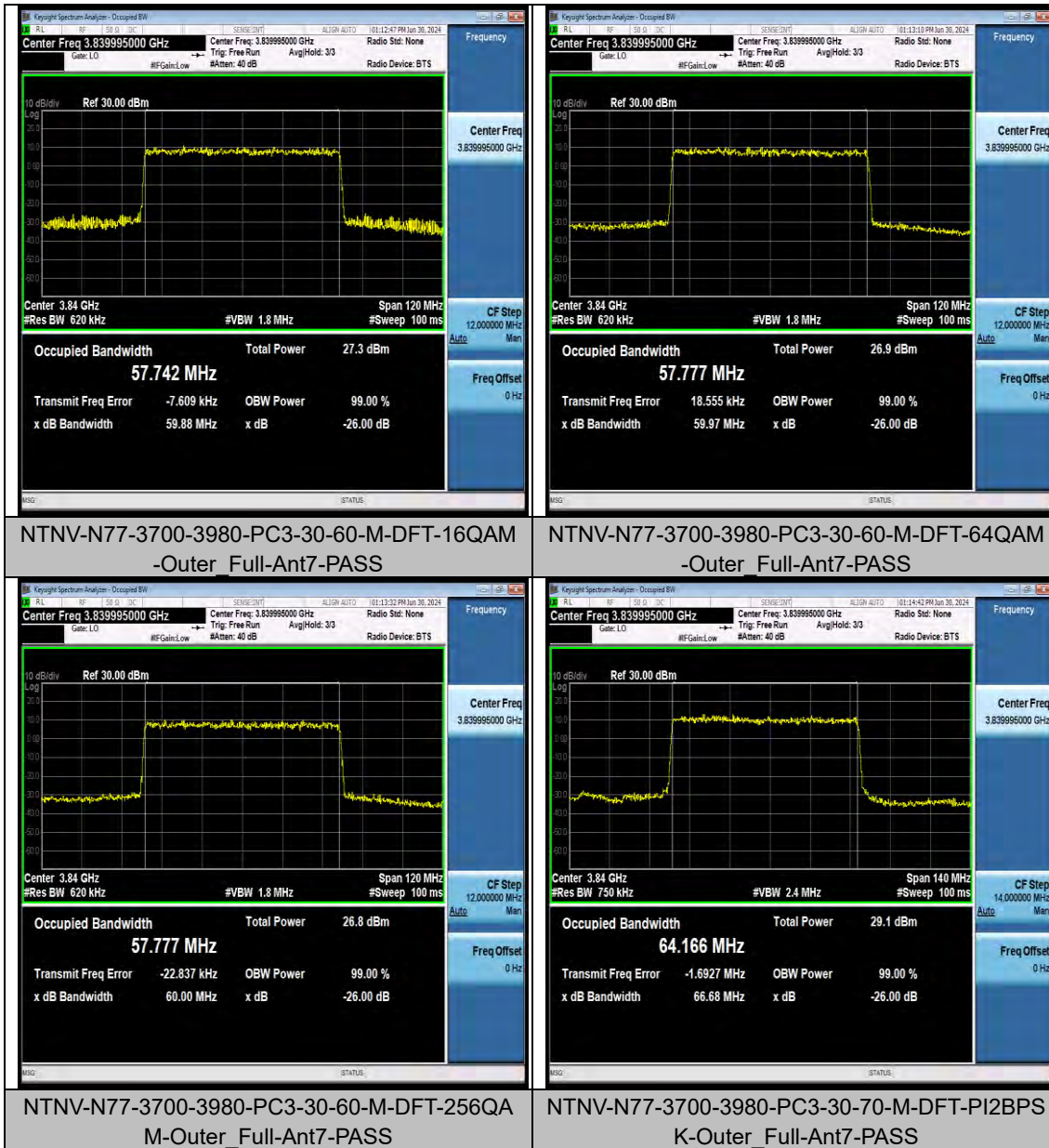
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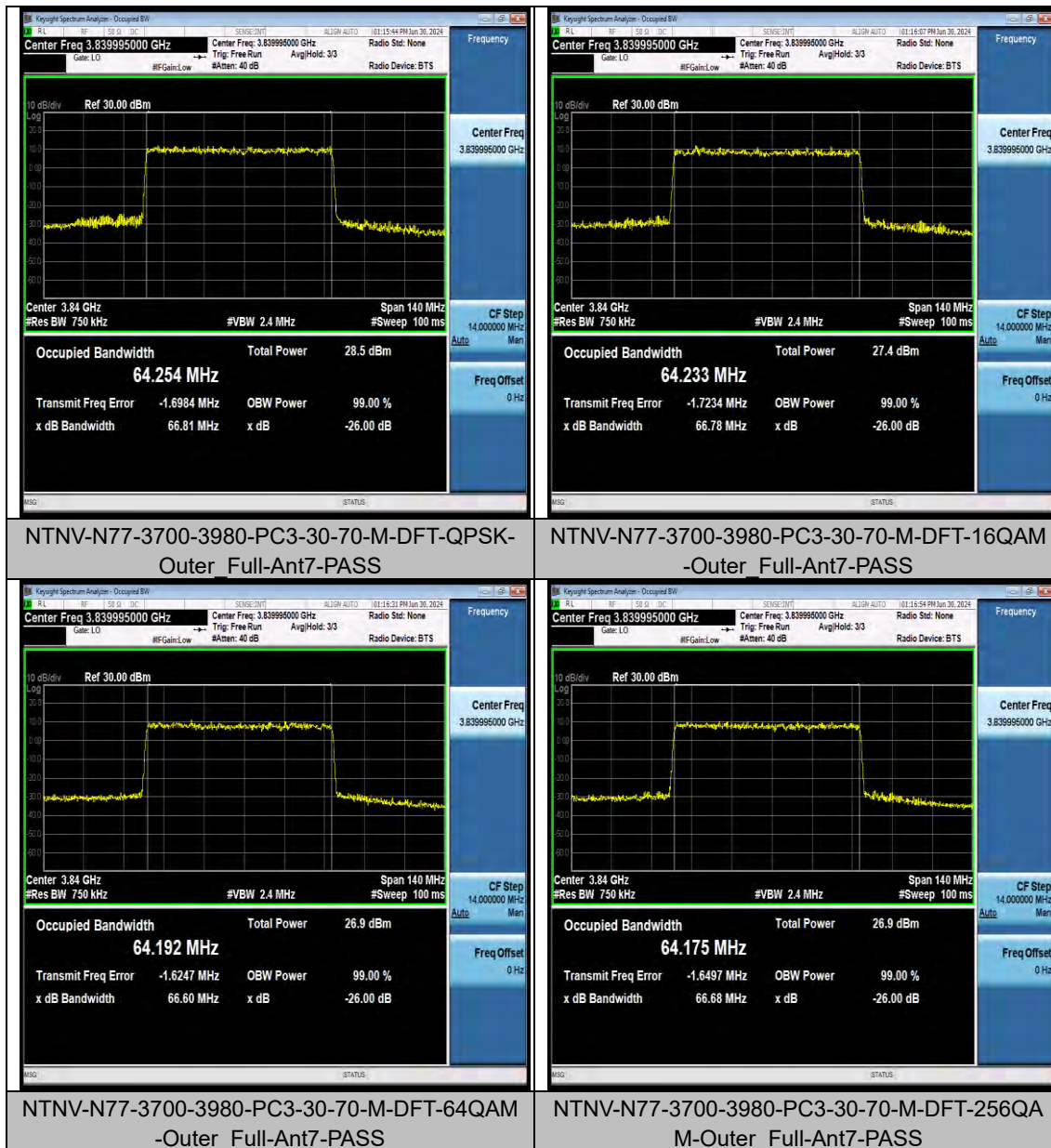
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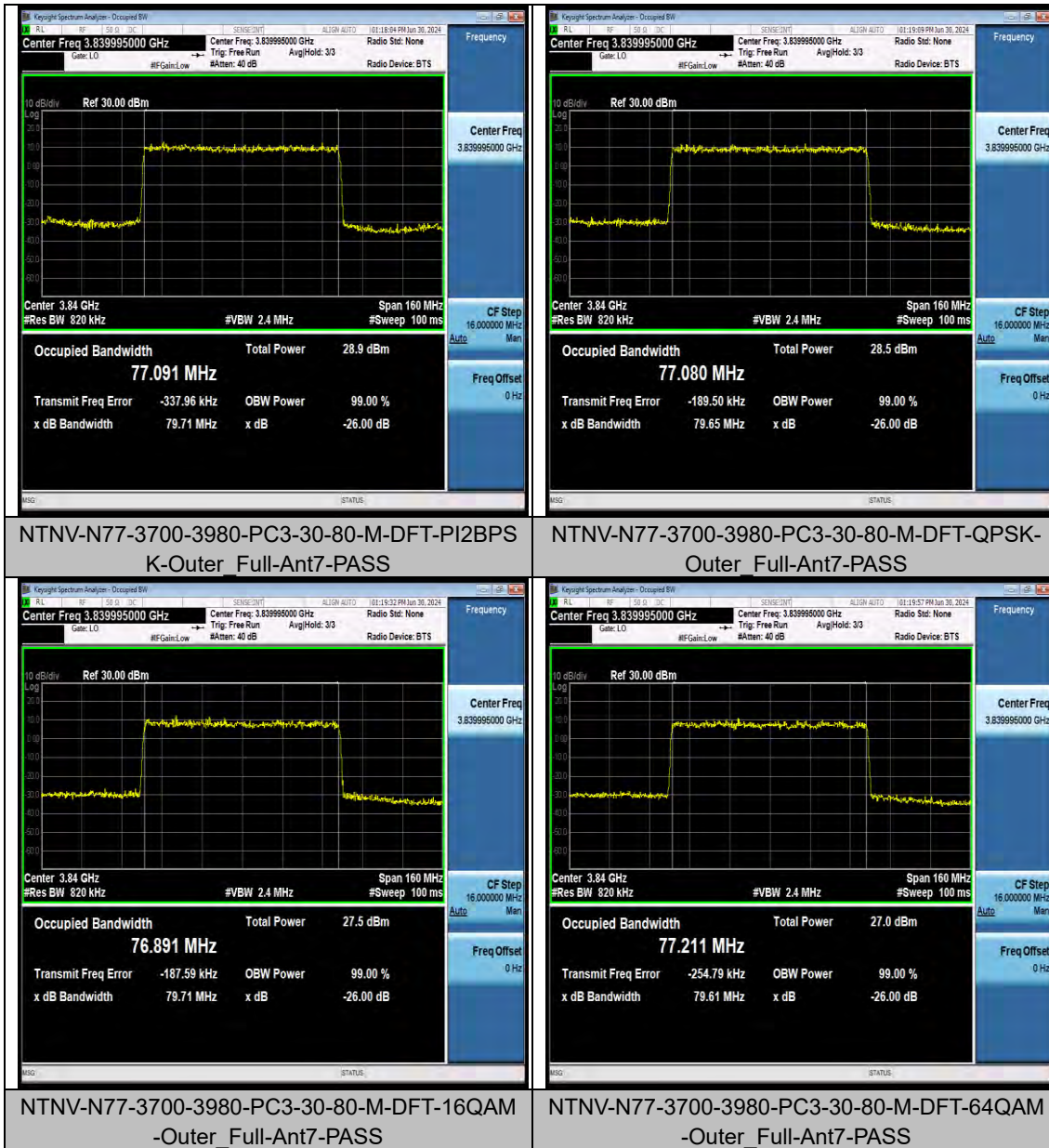






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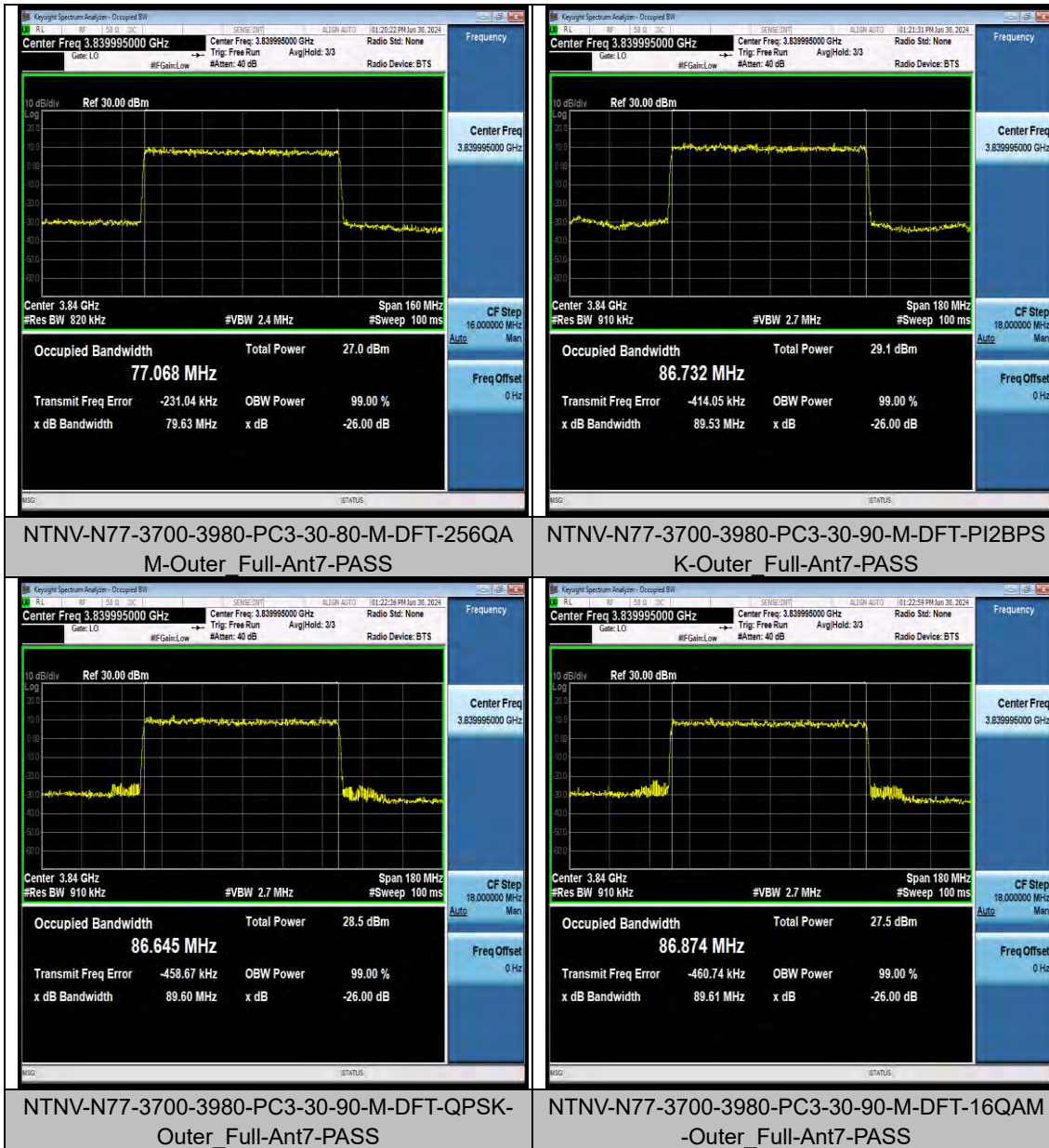






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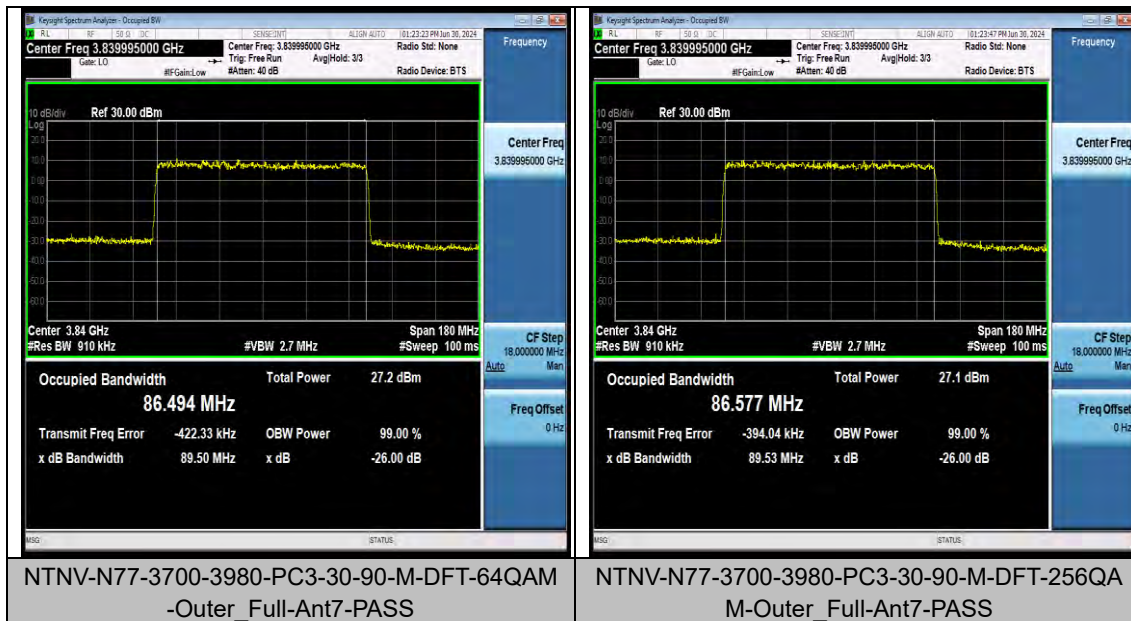
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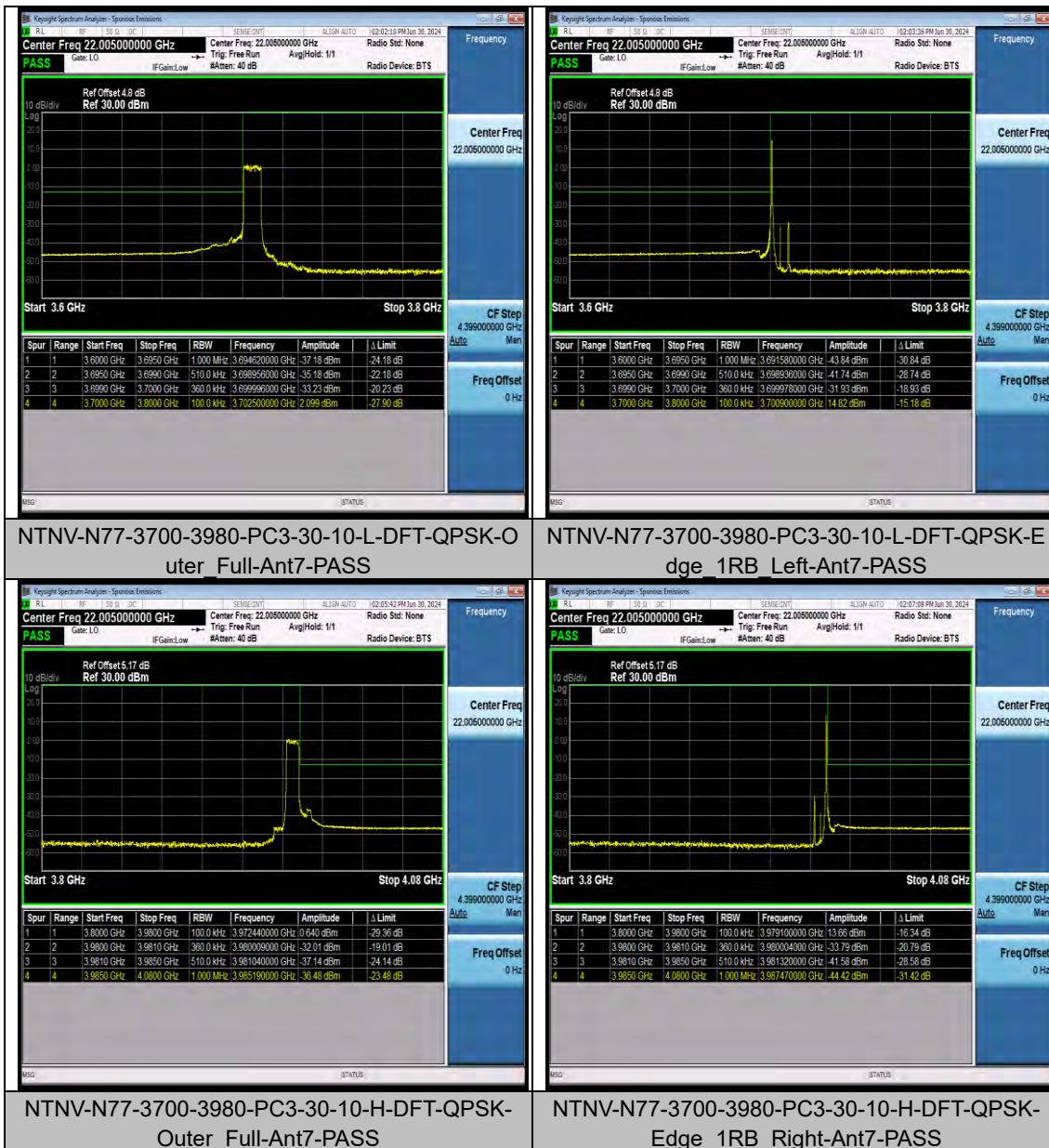
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## BAND EDGE FOR SA TEST RESULT

| Band          | SCS | Bandwidth | Modulation | Channel | RB Config      | Result | Verdict |
|---------------|-----|-----------|------------|---------|----------------|--------|---------|
| N77-3700-3980 | 30  | 10        | DFT-QPSK   | L       | Outer_Full     | -33.23 | PASS    |
| N77-3700-3980 | 30  | 10        | DFT-QPSK   | L       | Edge_1RB_Left  | -31.93 | PASS    |
| N77-3700-3980 | 30  | 10        | DFT-QPSK   | H       | Outer_Full     | -32.01 | PASS    |
| N77-3700-3980 | 30  | 10        | DFT-QPSK   | H       | Edge_1RB_Right | -33.79 | PASS    |
| N77-3700-3980 | 30  | 50        | DFT-QPSK   | L       | Outer_Full     | -34.14 | PASS    |
| N77-3700-3980 | 30  | 50        | DFT-QPSK   | L       | Edge_1RB_Left  | -36.55 | PASS    |
| N77-3700-3980 | 30  | 50        | DFT-QPSK   | H       | Outer_Full     | -38.58 | PASS    |
| N77-3700-3980 | 30  | 50        | DFT-QPSK   | H       | Edge_1RB_Right | -37.24 | PASS    |
| N77-3700-3980 | 30  | 100       | DFT-QPSK   | L       | Outer_Full     | -35.92 | PASS    |
| N77-3700-3980 | 30  | 100       | DFT-QPSK   | L       | Edge_1RB_Left  | -33.75 | PASS    |
| N77-3700-3980 | 30  | 100       | DFT-QPSK   | H       | Outer_Full     | -40.89 | PASS    |
| N77-3700-3980 | 30  | 100       | DFT-QPSK   | H       | Edge_1RB_Right | -33.61 | PASS    |

## TEST GRAPHS

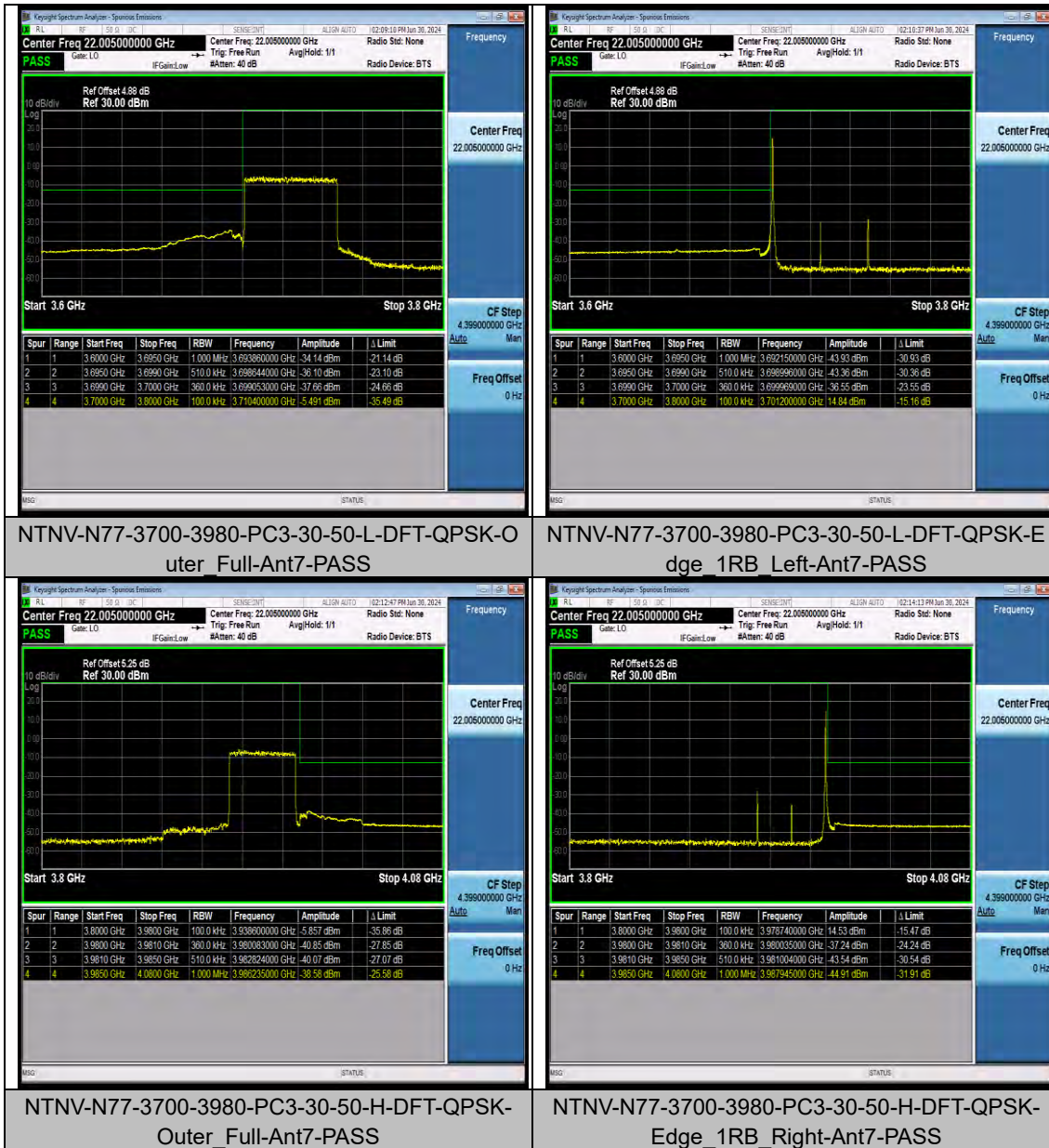






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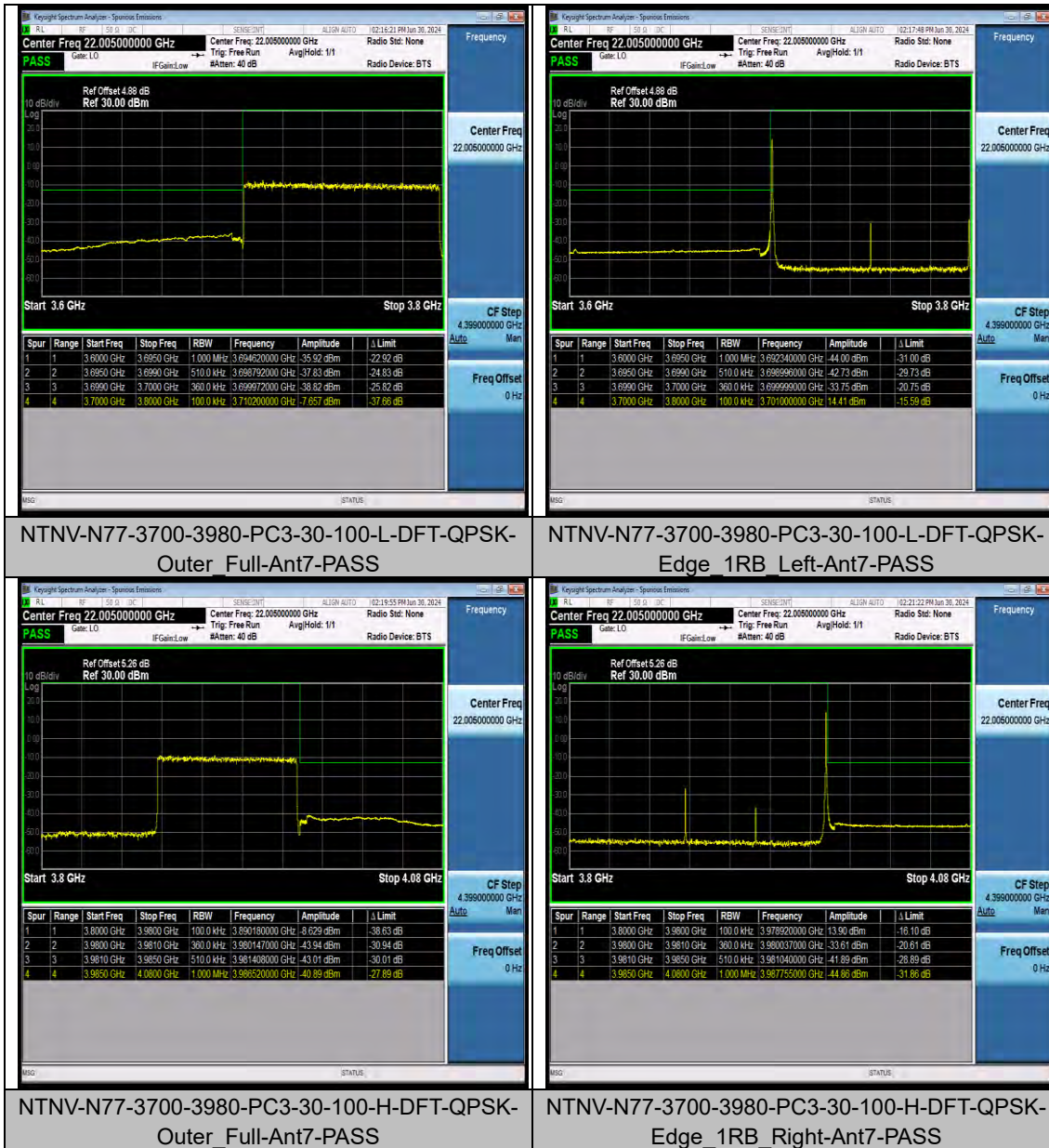
Reference No.: W7L-P24050018RF11





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Reference No.: W7L-P24050018RF11

## CONDUCTED SPURIOUS EMISSION FOR SA TEST RESULT

| Band                  | SCS | Bandwidth | Modulation | Channel | RB Config     | StartFreq | StopFreq | Result | Limit | Verdict |
|-----------------------|-----|-----------|------------|---------|---------------|-----------|----------|--------|-------|---------|
| N77-3<br>700-39<br>80 | 30  | 10        | DFT-QPSK   | L       | Edge_1RB_Left | 30        | 1000     | -48.11 | -13   | PASS    |
| N77-3<br>700-39<br>80 | 30  | 10        | DFT-QPSK   | L       | Edge_1RB_Left | 1000      | 10000    | -39.15 | -13   | PASS    |
| N77-3<br>700-39<br>80 | 30  | 10        | DFT-QPSK   | L       | Edge_1RB_Left | 10000     | 20000    | -56.22 | -13   | PASS    |
| N77-3<br>700-39<br>80 | 30  | 10        | DFT-QPSK   | L       | Edge_1RB_Left | 20000     | 40000    | -55.24 | -13   | PASS    |
| N77-3<br>700-39<br>80 | 30  | 10        | DFT-QPSK   | M       | Edge_1RB_Left | 30        | 1000     | -48.21 | -13   | PASS    |
| N77-3<br>700-39<br>80 | 30  | 10        | DFT-QPSK   | M       | Edge_1RB_Left | 1000      | 10000    | -39.39 | -13   | PASS    |
| N77-3<br>700-39<br>80 | 30  | 10        | DFT-QPSK   | M       | Edge_1RB_Left | 10000     | 20000    | -55.93 | -13   | PASS    |
| N77-3<br>700-39<br>80 | 30  | 10        | DFT-QPSK   | M       | Edge_1RB_Left | 20000     | 40000    | -55.64 | -13   | PASS    |
| N77-3<br>700-39<br>80 | 30  | 10        | DFT-QPSK   | H       | Edge_1RB_Left | 30        | 1000     | -48.09 | -13   | PASS    |
| N77-3<br>700-39<br>80 | 30  | 10        | DFT-QPSK   | H       | Edge_1RB_Left | 1000      | 10000    | -39.19 | -13   | PASS    |
| N77-3<br>700-39<br>80 | 30  | 10        | DFT-QPSK   | H       | Edge_1RB_Left | 10000     | 20000    | -56.03 | -13   | PASS    |
| N77-3<br>700-39<br>80 | 30  | 10        | DFT-QPSK   | H       | Edge_1RB_Left | 20000     | 40000    | -53.39 | -13   | PASS    |
| N77-3<br>700-39<br>80 | 30  | 50        | DFT-QPSK   | L       | Edge_1RB_Left | 30        | 1000     | -47.96 | -13   | PASS    |
| N77-3<br>700-39<br>80 | 30  | 50        | DFT-QPSK   | L       | Edge_1RB_Left | 1000      | 10000    | -39.38 | -13   | PASS    |
| N77-3<br>700-39<br>80 | 30  | 50        | DFT-QPSK   | L       | Edge_1RB_Left | 10000     | 20000    | -56.18 | -13   | PASS    |



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|                       |    |     |          |   |               |       |       |        |     |      |
|-----------------------|----|-----|----------|---|---------------|-------|-------|--------|-----|------|
| N77-3<br>700-39<br>80 | 30 | 50  | DFT-QPSK | L | Edge_1RB_Left | 20000 | 40000 | -55.47 | -13 | PASS |
| N77-3<br>700-39<br>80 | 30 | 50  | DFT-QPSK | M | Edge_1RB_Left | 30    | 1000  | -47.83 | -13 | PASS |
| N77-3<br>700-39<br>80 | 30 | 50  | DFT-QPSK | M | Edge_1RB_Left | 1000  | 10000 | -39.42 | -13 | PASS |
| N77-3<br>700-39<br>80 | 30 | 50  | DFT-QPSK | M | Edge_1RB_Left | 10000 | 20000 | -56.32 | -13 | PASS |
| N77-3<br>700-39<br>80 | 30 | 50  | DFT-QPSK | M | Edge_1RB_Left | 20000 | 40000 | -55.52 | -13 | PASS |
| N77-3<br>700-39<br>80 | 30 | 50  | DFT-QPSK | H | Edge_1RB_Left | 30    | 1000  | -47.97 | -13 | PASS |
| N77-3<br>700-39<br>80 | 30 | 50  | DFT-QPSK | H | Edge_1RB_Left | 1000  | 10000 | -39.29 | -13 | PASS |
| N77-3<br>700-39<br>80 | 30 | 50  | DFT-QPSK | H | Edge_1RB_Left | 10000 | 20000 | -56.30 | -13 | PASS |
| N77-3<br>700-39<br>80 | 30 | 50  | DFT-QPSK | H | Edge_1RB_Left | 20000 | 40000 | -55.21 | -13 | PASS |
| N77-3<br>700-39<br>80 | 30 | 100 | DFT-QPSK | L | Edge_1RB_Left | 30    | 1000  | -48.10 | -13 | PASS |
| N77-3<br>700-39<br>80 | 30 | 100 | DFT-QPSK | L | Edge_1RB_Left | 1000  | 10000 | -39.23 | -13 | PASS |
| N77-3<br>700-39<br>80 | 30 | 100 | DFT-QPSK | L | Edge_1RB_Left | 10000 | 20000 | -56.00 | -13 | PASS |
| N77-3<br>700-39<br>80 | 30 | 100 | DFT-QPSK | L | Edge_1RB_Left | 20000 | 40000 | -55.14 | -13 | PASS |
| N77-3<br>700-39<br>80 | 30 | 100 | DFT-QPSK | M | Edge_1RB_Left | 30    | 1000  | -48.19 | -13 | PASS |
| N77-3<br>700-39<br>80 | 30 | 100 | DFT-QPSK | M | Edge_1RB_Left | 1000  | 10000 | -39.00 | -13 | PASS |
| N77-3<br>700-39<br>80 | 30 | 100 | DFT-QPSK | M | Edge_1RB_Left | 10000 | 20000 | -55.67 | -13 | PASS |
| N77-3<br>700-39<br>80 | 30 | 100 | DFT-QPSK | M | Edge_1RB_Left | 20000 | 40000 | -55.35 | -13 | PASS |
| N77-3<br>700-39<br>80 | 30 | 100 | DFT-QPSK | H | Edge_1RB_Left | 30    | 1000  | -48.01 | -13 | PASS |



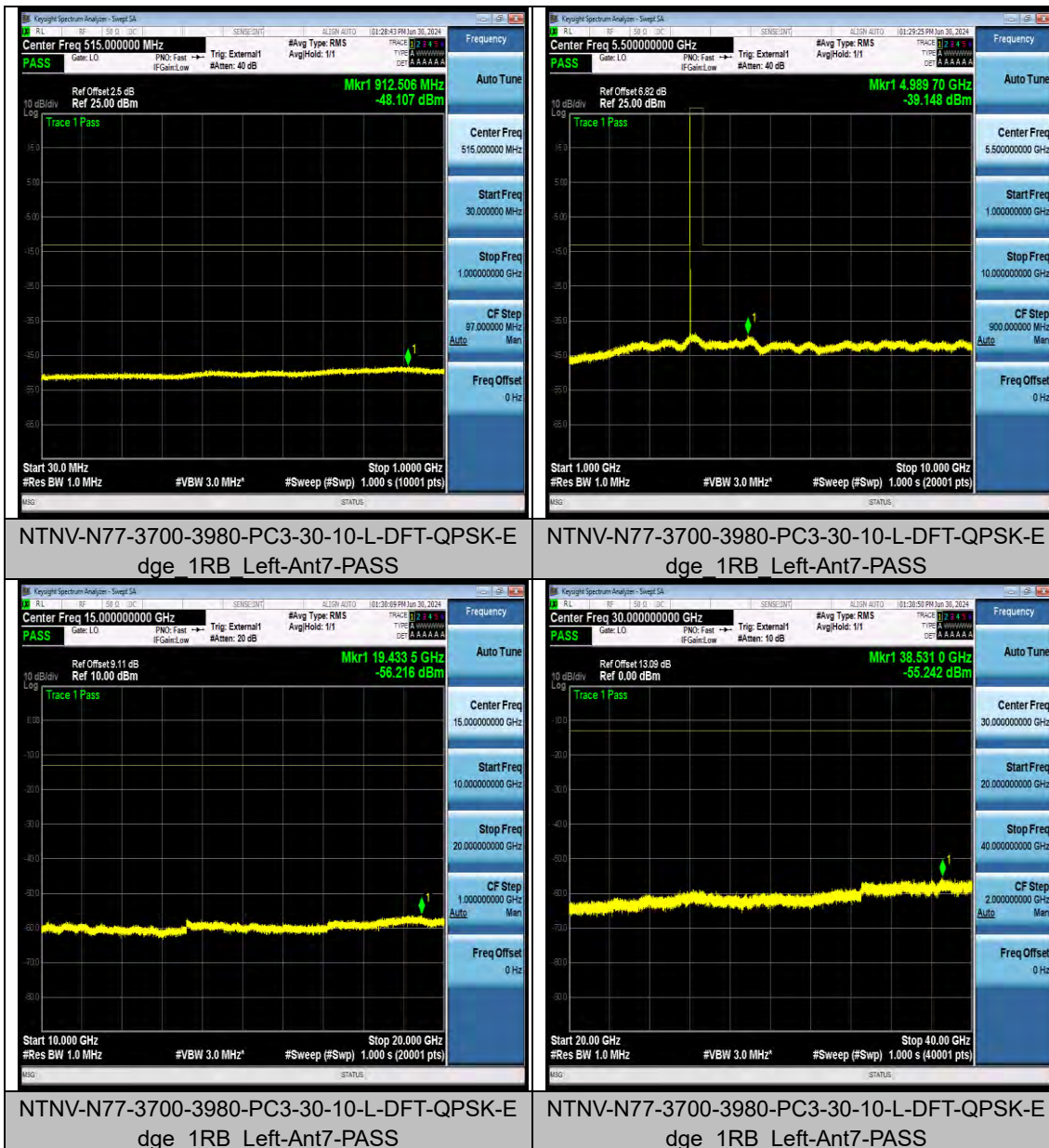


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Reference No.: W7L-P24050018RF11

|                       |    |     |          |   |               |       |       |        |     |      |
|-----------------------|----|-----|----------|---|---------------|-------|-------|--------|-----|------|
| N77-3<br>700-39<br>80 | 30 | 100 | DFT-QPSK | H | Edge_1RB_Left | 1000  | 10000 | -39.19 | -13 | PASS |
| N77-3<br>700-39<br>80 | 30 | 100 | DFT-QPSK | H | Edge_1RB_Left | 10000 | 20000 | -55.72 | -13 | PASS |
| N77-3<br>700-39<br>80 | 30 | 100 | DFT-QPSK | H | Edge_1RB_Left | 20000 | 40000 | -55.25 | -13 | PASS |

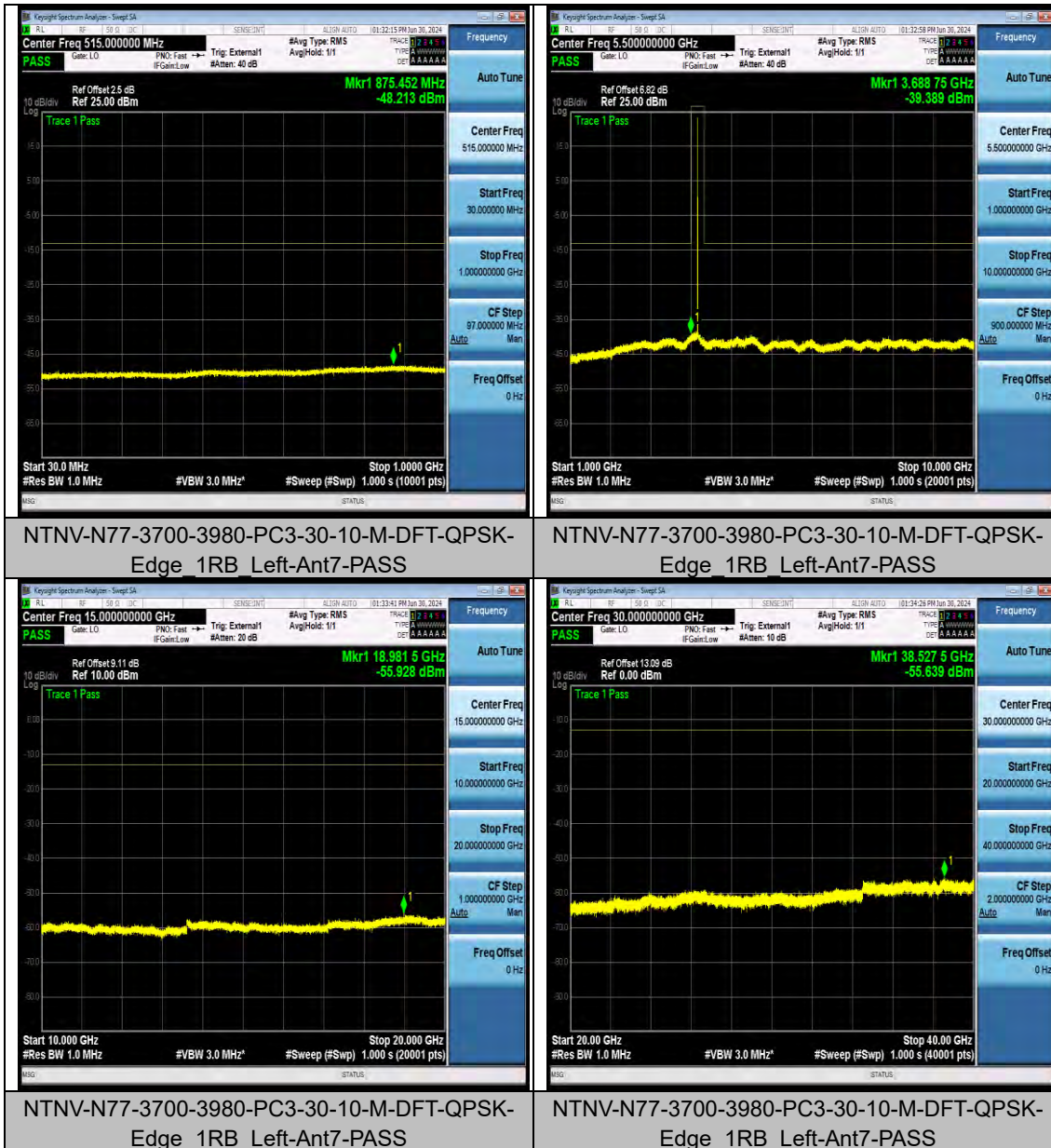
## TEST GRAPHS





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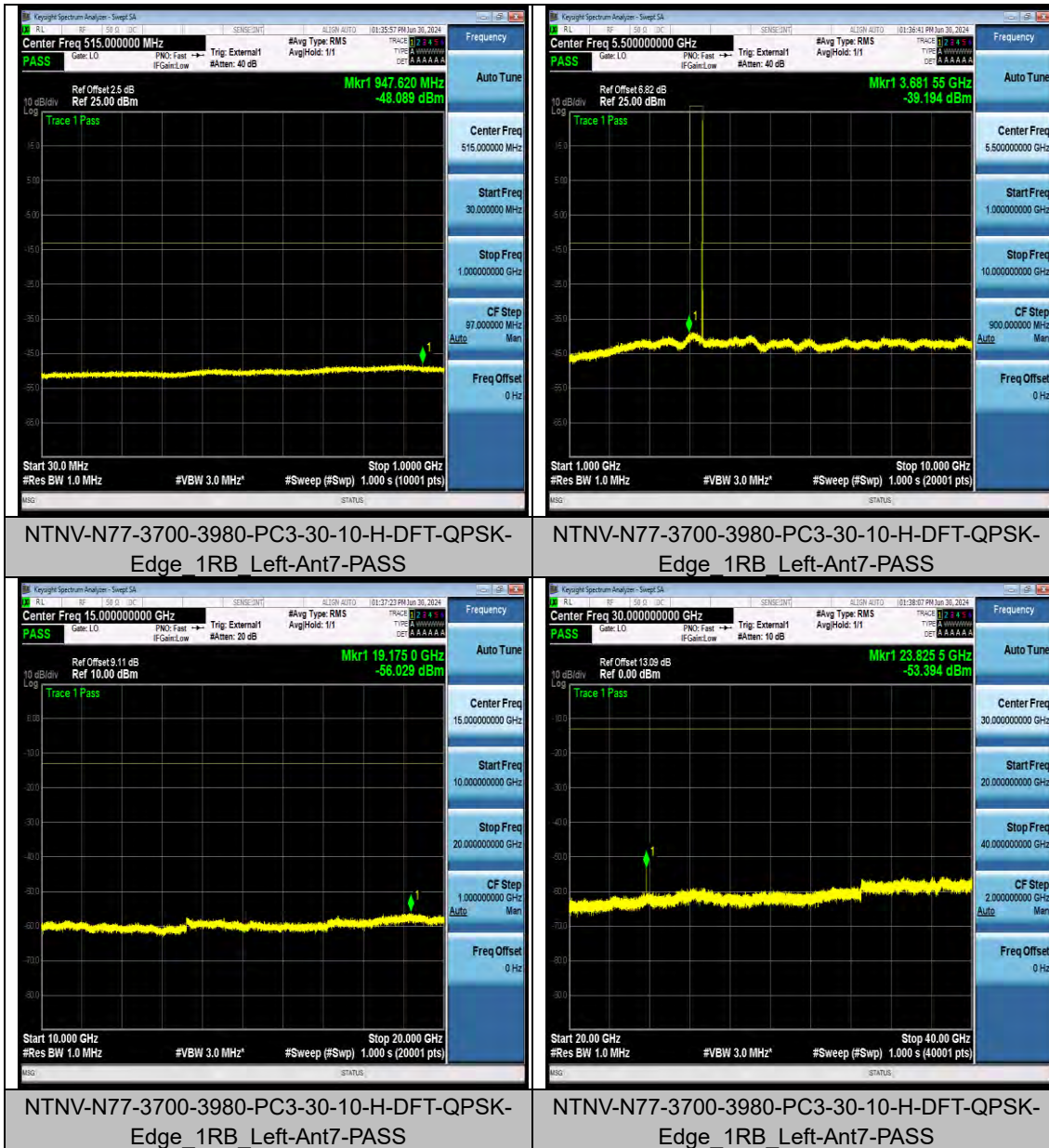
Reference No.: W7L-P24050018RF11





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Reference No.: W7L-P24050018RF11

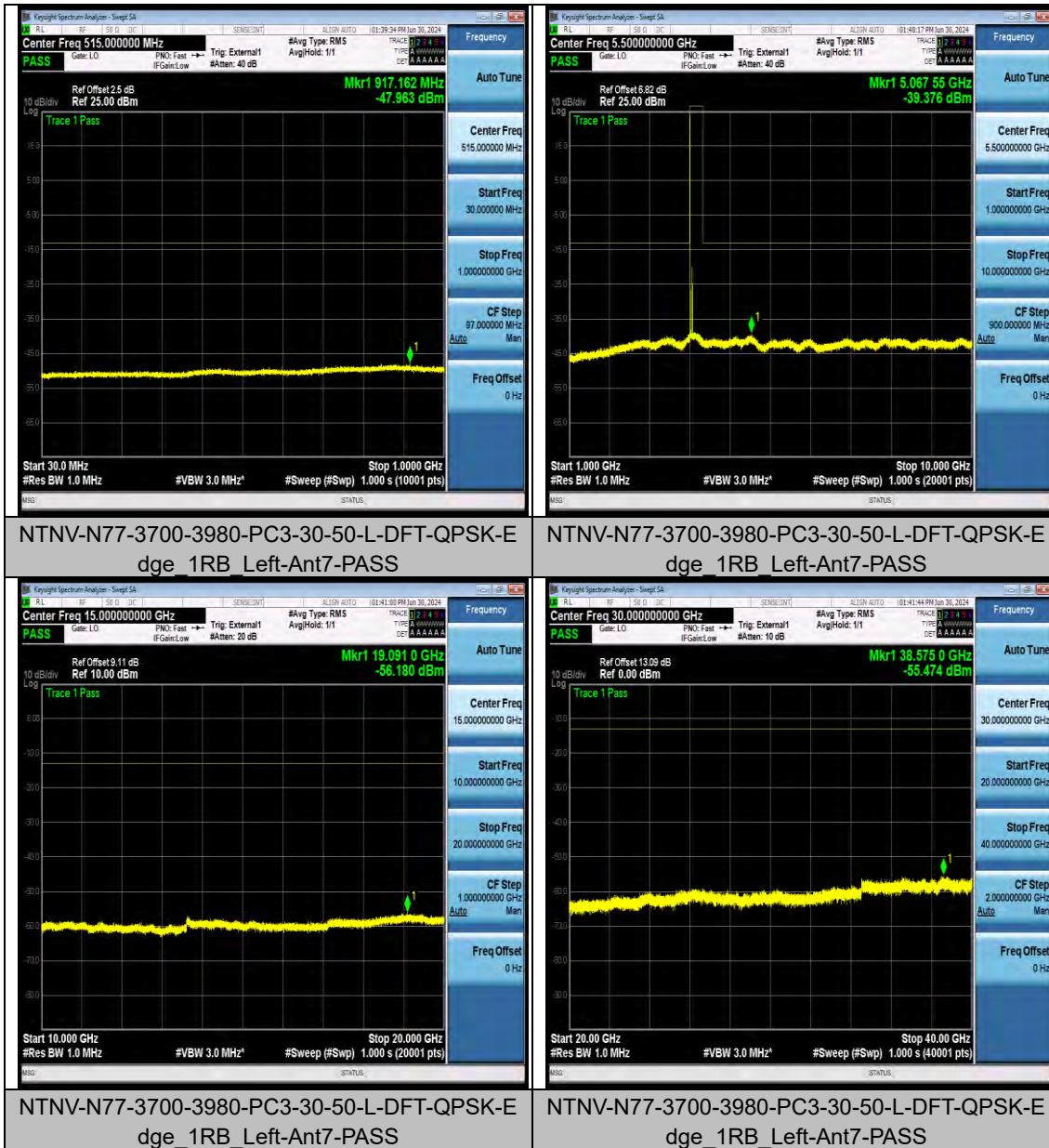






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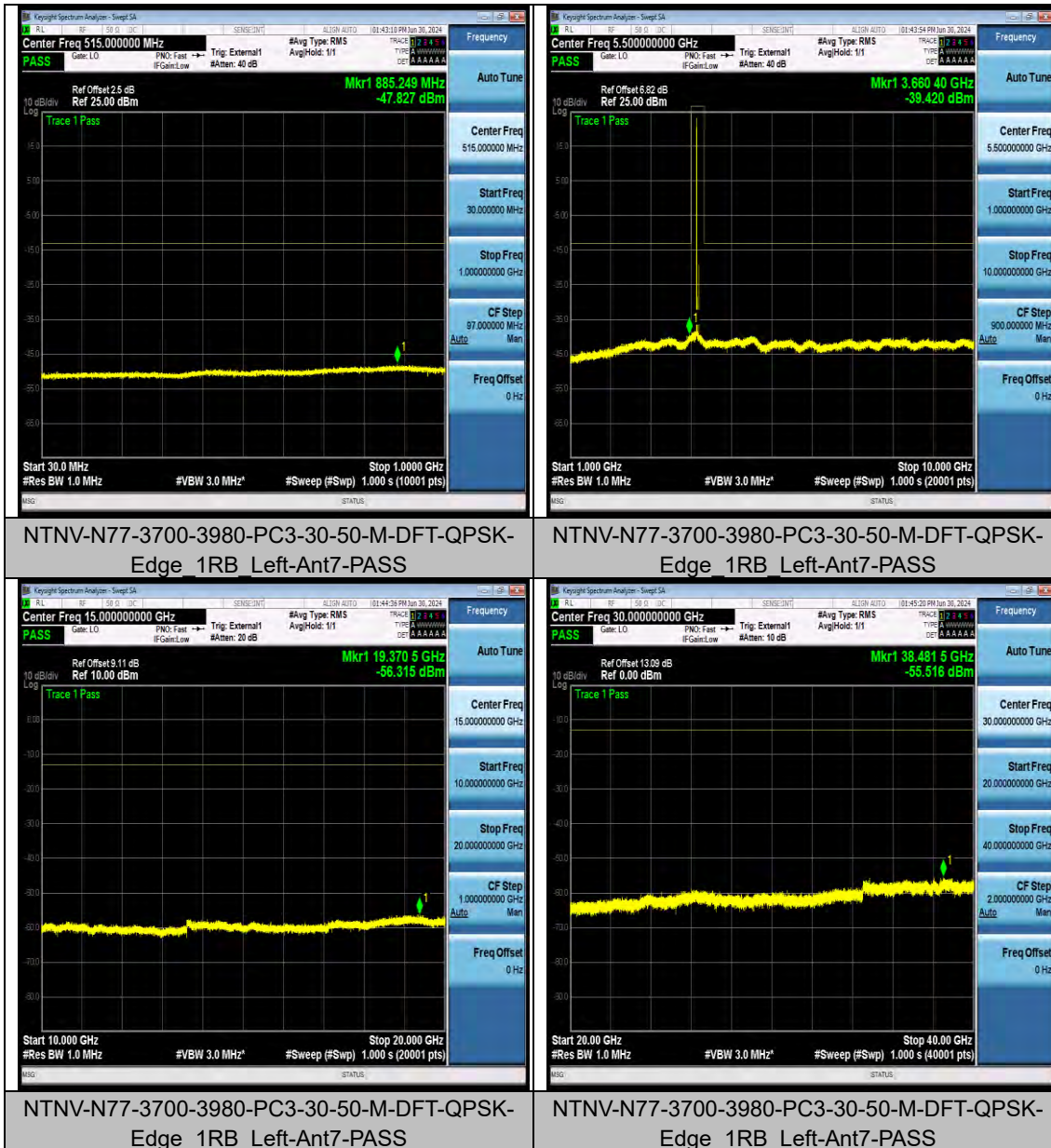
Reference No.: W7L-P24050018RF11





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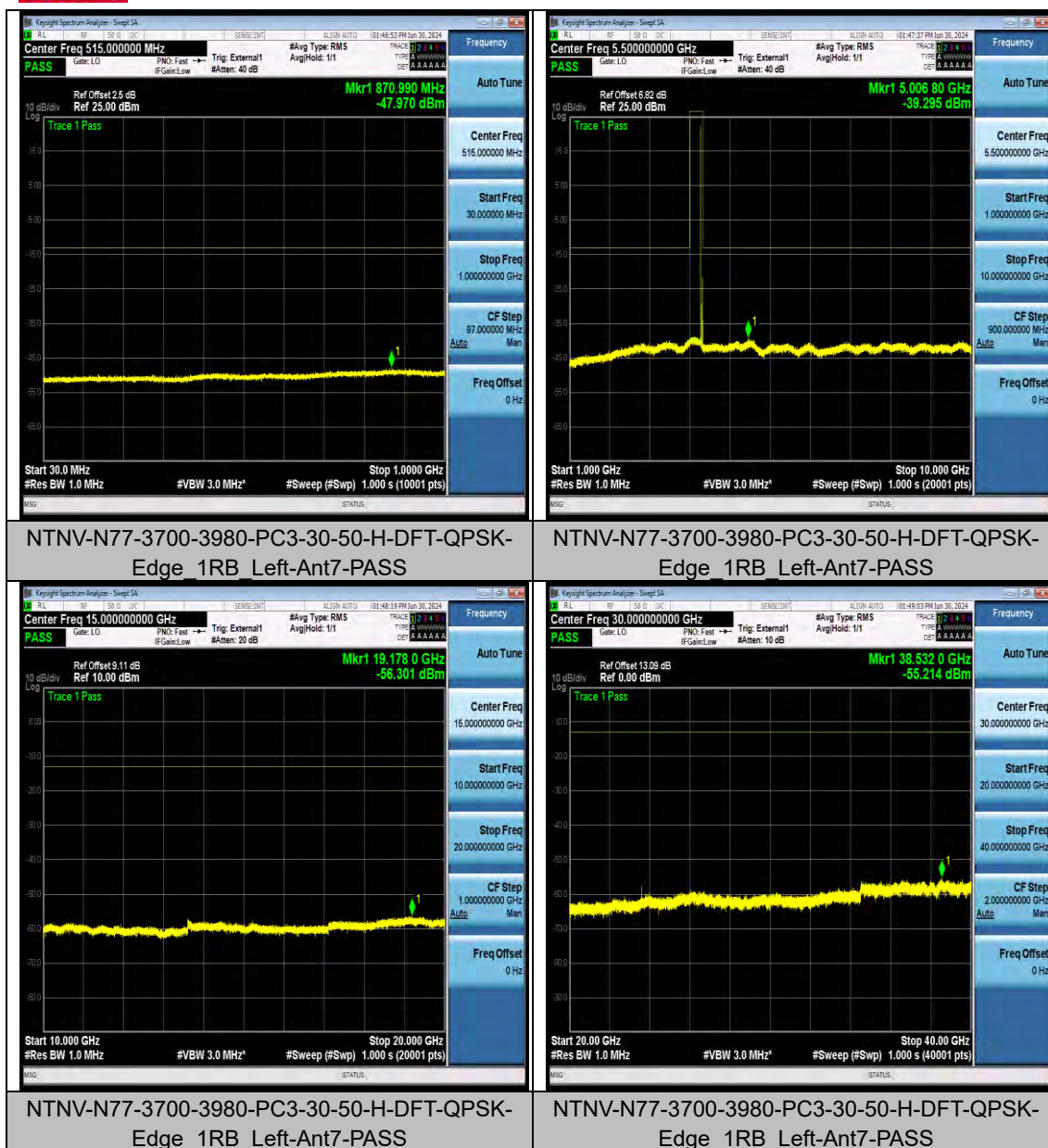
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Reference No.: W7L-P24050018RF11

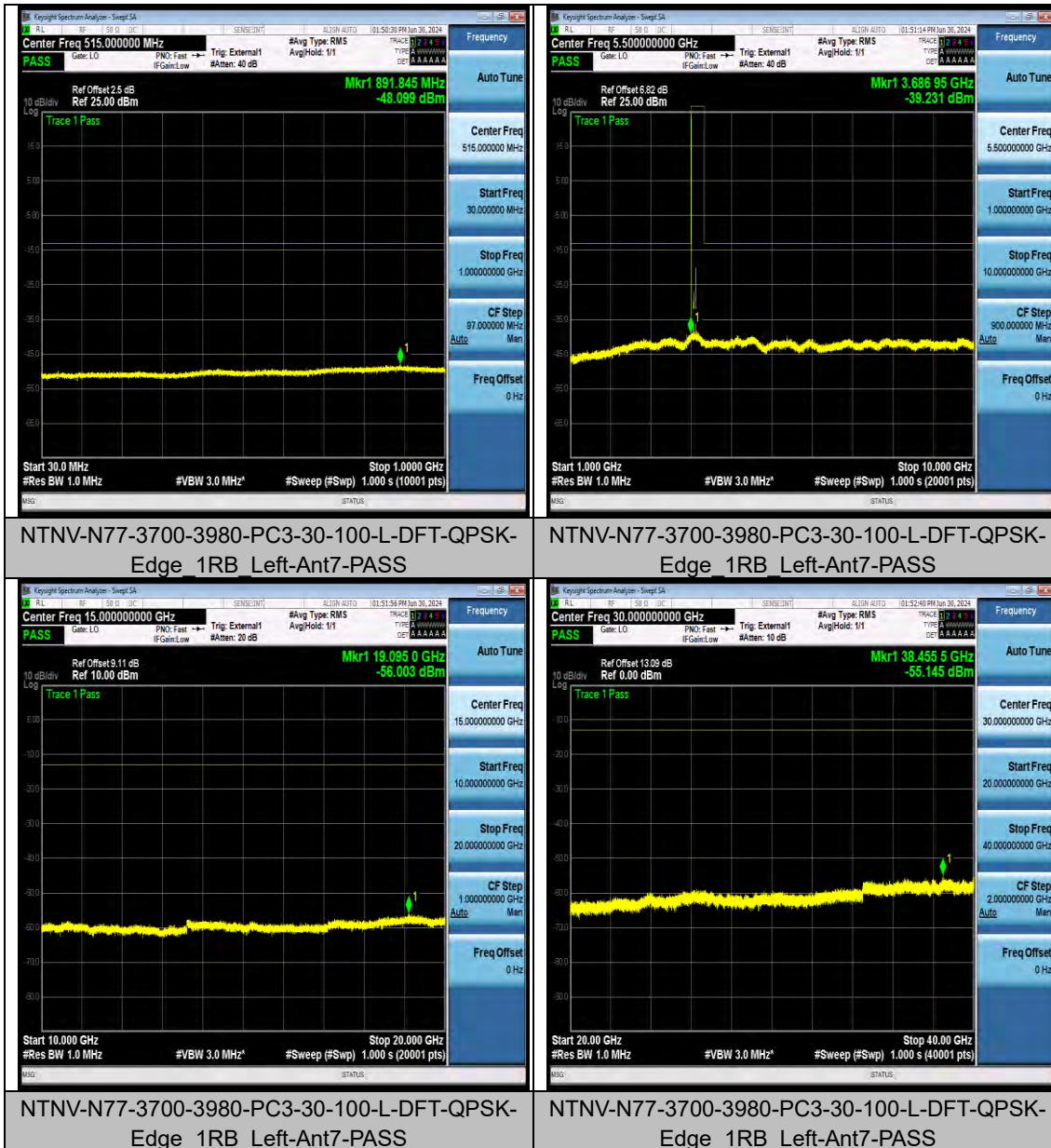






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Reference No.: W7L-P24050018RF11

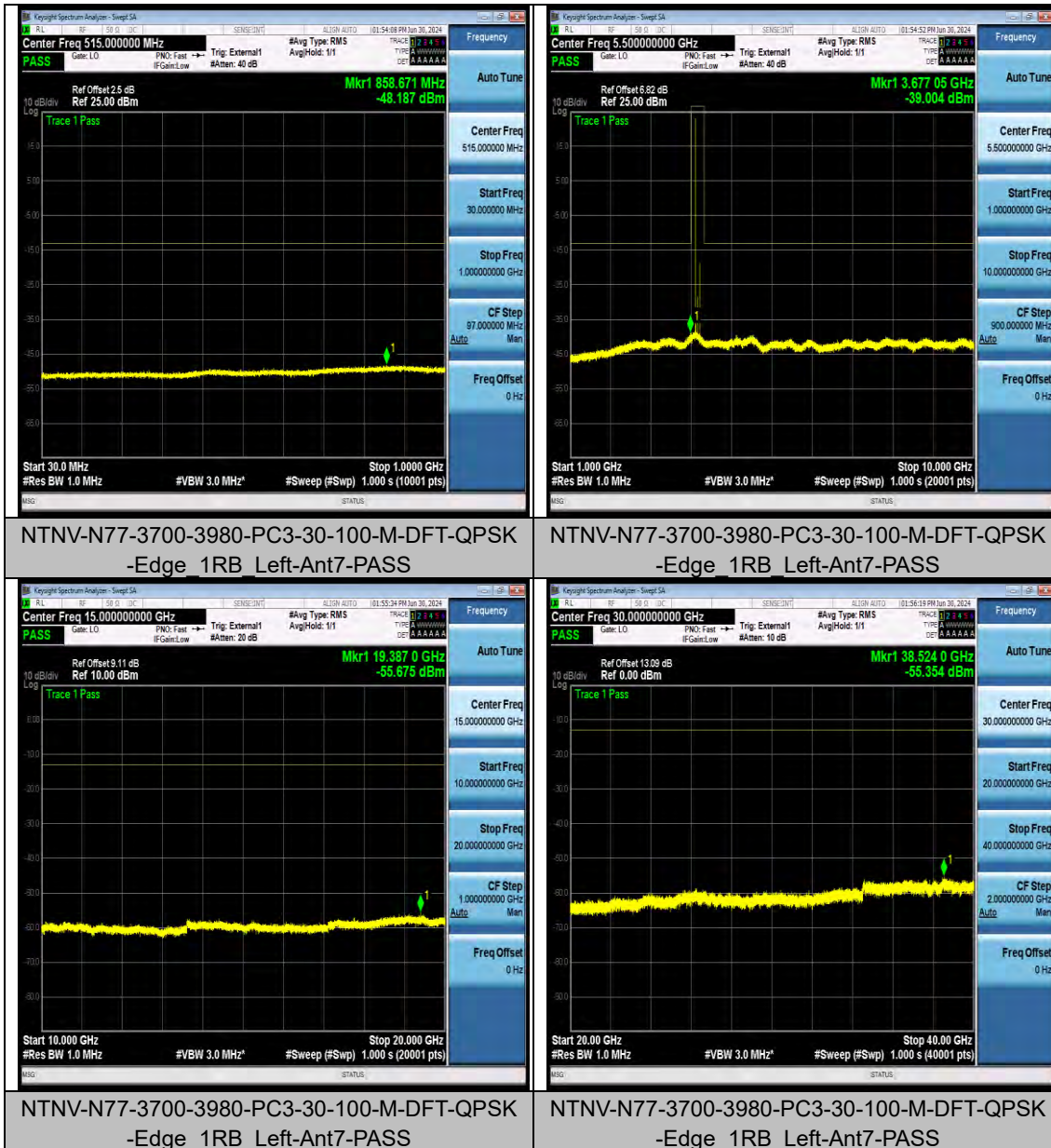






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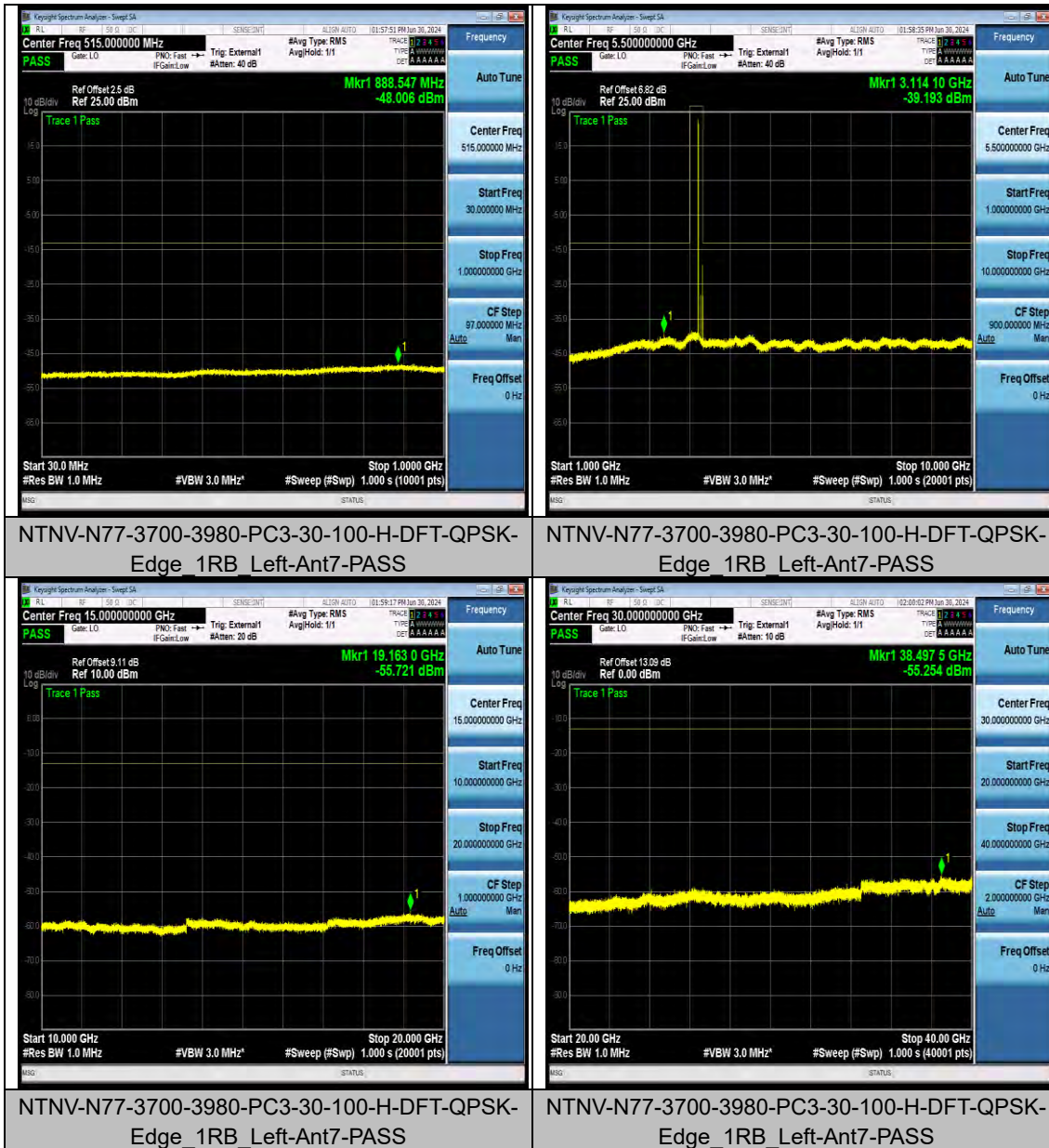
Reference No.: W7L-P24050018RF11





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Reference No.: W7L-P24050018RF11





Reference No.: W7L-P24050018RF11

## FREQUENCY STABILITY FOR SA TEST RESULT

| Band              | SCS | Bandwidth | Modulation | Channel | RB Config  | Voltage | Temperature | Deviation(Hz) | Deviation (ppm) | Verdict |
|-------------------|-----|-----------|------------|---------|------------|---------|-------------|---------------|-----------------|---------|
| N77-370<br>0-3980 | 30  | 20        | DFT-QPSK   | L       | Outer_Full | VL      | NT          | 14.000000     | 0.003774        | PASS    |
| N77-370<br>0-3980 | 30  | 20        | DFT-QPSK   | L       | Outer_Full | VN      | NT          | 19.000000     | 0.005121        | PASS    |
| N77-370<br>0-3980 | 30  | 20        | DFT-QPSK   | L       | Outer_Full | VH      | NT          | 7.000000      | 0.001887        | PASS    |
| N77-370<br>0-3980 | 30  | 20        | DFT-QPSK   | L       | Outer_Full | NV      | -30         | 16.000000     | 0.004313        | PASS    |
| N77-370<br>0-3980 | 30  | 20        | DFT-QPSK   | L       | Outer_Full | NV      | -20         | 8.000000      | 0.002156        | PASS    |
| N77-370<br>0-3980 | 30  | 20        | DFT-QPSK   | L       | Outer_Full | NV      | -10         | 18.000000     | 0.004852        | PASS    |
| N77-370<br>0-3980 | 30  | 20        | DFT-QPSK   | L       | Outer_Full | NV      | 0           | 10.000000     | 0.002695        | PASS    |
| N77-370<br>0-3980 | 30  | 20        | DFT-QPSK   | L       | Outer_Full | NV      | 10          | 17.000000     | 0.004582        | PASS    |
| N77-370<br>0-3980 | 30  | 20        | DFT-QPSK   | L       | Outer_Full | NV      | 20          | 19.000000     | 0.005121        | PASS    |
| N77-370<br>0-3980 | 30  | 20        | DFT-QPSK   | L       | Outer_Full | NV      | 30          | 11.000000     | 0.002965        | PASS    |
| N77-370<br>0-3980 | 30  | 20        | DFT-QPSK   | L       | Outer_Full | NV      | 40          | 2.000000      | 0.000539        | PASS    |
| N77-370<br>0-3980 | 30  | 20        | DFT-QPSK   | L       | Outer_Full | NV      | 50          | 13.000000     | 0.003504        | PASS    |
| N77-370<br>0-3980 | 30  | 20        | DFT-QPSK   | M       | Outer_Full | VL      | NT          | 1.000000      | 0.000260        | PASS    |
| N77-370<br>0-3980 | 30  | 20        | DFT-QPSK   | M       | Outer_Full | VN      | NT          | 3.000000      | 0.000781        | PASS    |
| N77-370<br>0-3980 | 30  | 20        | DFT-QPSK   | M       | Outer_Full | VH      | NT          | 14.000000     | 0.003646        | PASS    |
| N77-370<br>0-3980 | 30  | 20        | DFT-QPSK   | M       | Outer_Full | NV      | -30         | 12.000000     | 0.003125        | PASS    |
| N77-370<br>0-3980 | 30  | 20        | DFT-QPSK   | M       | Outer_Full | NV      | -20         | 8.000000      | 0.002083        | PASS    |
| N77-370<br>0-3980 | 30  | 20        | DFT-QPSK   | M       | Outer_Full | NV      | -10         | 18.000000     | 0.004688        | PASS    |
| N77-370<br>0-3980 | 30  | 20        | DFT-QPSK   | M       | Outer_Full | NV      | 0           | 10.000000     | 0.002604        | PASS    |
| N77-370<br>0-3980 | 30  | 20        | DFT-QPSK   | M       | Outer_Full | NV      | 10          | 1.000000      | 0.000260        | PASS    |
| N77-370<br>0-3980 | 30  | 20        | DFT-QPSK   | M       | Outer_Full | NV      | 20          | 2.000000      | 0.000521        | PASS    |
| N77-370           | 30  | 20        | DFT-QPSK   | M       | Outer_Full | NV      | 30          | 13.000000     | 0.003385        | PASS    |



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VERITAS**

Reference No.: W7L-P24050018RF11

|                   |    |    |          |   |            |    |     |           |          |      |
|-------------------|----|----|----------|---|------------|----|-----|-----------|----------|------|
| 0-3980            |    |    |          |   |            |    |     |           |          |      |
| N77-370<br>0-3980 | 30 | 20 | DFT-QPSK | M | Outer_Full | NV | 40  | 4.000000  | 0.001042 | PASS |
| N77-370<br>0-3980 | 30 | 20 | DFT-QPSK | M | Outer_Full | NV | 50  | 15.000000 | 0.003906 | PASS |
| N77-370<br>0-3980 | 30 | 20 | DFT-QPSK | H | Outer_Full | VL | NT  | 18.000000 | 0.004534 | PASS |
| N77-370<br>0-3980 | 30 | 20 | DFT-QPSK | H | Outer_Full | VN | NT  | 4.000000  | 0.001008 | PASS |
| N77-370<br>0-3980 | 30 | 20 | DFT-QPSK | H | Outer_Full | VH | NT  | 14.000000 | 0.003526 | PASS |
| N77-370<br>0-3980 | 30 | 20 | DFT-QPSK | H | Outer_Full | NV | -30 | 6.000000  | 0.001511 | PASS |
| N77-370<br>0-3980 | 30 | 20 | DFT-QPSK | H | Outer_Full | NV | -20 | 18.000000 | 0.004534 | PASS |
| N77-370<br>0-3980 | 30 | 20 | DFT-QPSK | H | Outer_Full | NV | -10 | 10.000000 | 0.002519 | PASS |
| N77-370<br>0-3980 | 30 | 20 | DFT-QPSK | H | Outer_Full | NV | 0   | 17.000000 | 0.004282 | PASS |
| N77-370<br>0-3980 | 30 | 20 | DFT-QPSK | H | Outer_Full | NV | 10  | 9.000000  | 0.002267 | PASS |
| N77-370<br>0-3980 | 30 | 20 | DFT-QPSK | H | Outer_Full | NV | 20  | 16.000000 | 0.004029 | PASS |
| N77-370<br>0-3980 | 30 | 20 | DFT-QPSK | H | Outer_Full | NV | 30  | 7.000000  | 0.001763 | PASS |
| N77-370<br>0-3980 | 30 | 20 | DFT-QPSK | H | Outer_Full | NV | 40  | 18.000000 | 0.004534 | PASS |
| N77-370<br>0-3980 | 30 | 20 | DFT-QPSK | H | Outer_Full | NV | 50  | 9.000000  | 0.002267 | PASS |



## N78\_UL\_MIMO-3450-3550

### PEAK-TO-AVERAGE RATIO FOR MIMO PEAK-TO-AVERAGE RATIO(CCDF)

#### TEST RESULT-ANT7

| Band          | SCS | Bandwidth | Modulation | Channel | RB Config     | Result | Limit | Verdict |
|---------------|-----|-----------|------------|---------|---------------|--------|-------|---------|
| N78-3450-3550 | 30  | 20        | CP-QPSK    | L       | Outer_Full    | 6.50   | ≤13   | PASS    |
| N78-3450-3550 | 30  | 20        | CP-QPSK    | L       | Edge_1RB_Left | 6.32   | ≤13   | PASS    |
| N78-3450-3550 | 30  | 20        | CP-QPSK    | M       | Outer_Full    | 6.86   | ≤13   | PASS    |
| N78-3450-3550 | 30  | 20        | CP-QPSK    | M       | Edge_1RB_Left | 6.40   | ≤13   | PASS    |
| N78-3450-3550 | 30  | 20        | CP-QPSK    | H       | Outer_Full    | 6.40   | ≤13   | PASS    |
| N78-3450-3550 | 30  | 20        | CP-QPSK    | H       | Edge_1RB_Left | 6.64   | ≤13   | PASS    |

#### TEST RESULT-ANT4

| Band          | SCS | Bandwidth | Modulation | Channel | RB Config     | Result | Limit | Verdict |
|---------------|-----|-----------|------------|---------|---------------|--------|-------|---------|
| N78-3450-3550 | 30  | 20        | CP-QPSK    | L       | Outer_Full    | 5.38   | ≤13   | PASS    |
| N78-3450-3550 | 30  | 20        | CP-QPSK    | L       | Edge_1RB_Left | 5.38   | ≤13   | PASS    |
| N78-3450-3550 | 30  | 20        | CP-QPSK    | M       | Outer_Full    | 6.78   | ≤13   | PASS    |
| N78-3450-3550 | 30  | 20        | CP-QPSK    | M       | Edge_1RB_Left | 5.46   | ≤13   | PASS    |
| N78-3450-3550 | 30  | 20        | CP-QPSK    | H       | Outer_Full    | 5.28   | ≤13   | PASS    |
| N78-3450-3550 | 30  | 20        | CP-QPSK    | H       | Edge_1RB_Left | 5.66   | ≤13   | PASS    |