

## Appendix Test Data

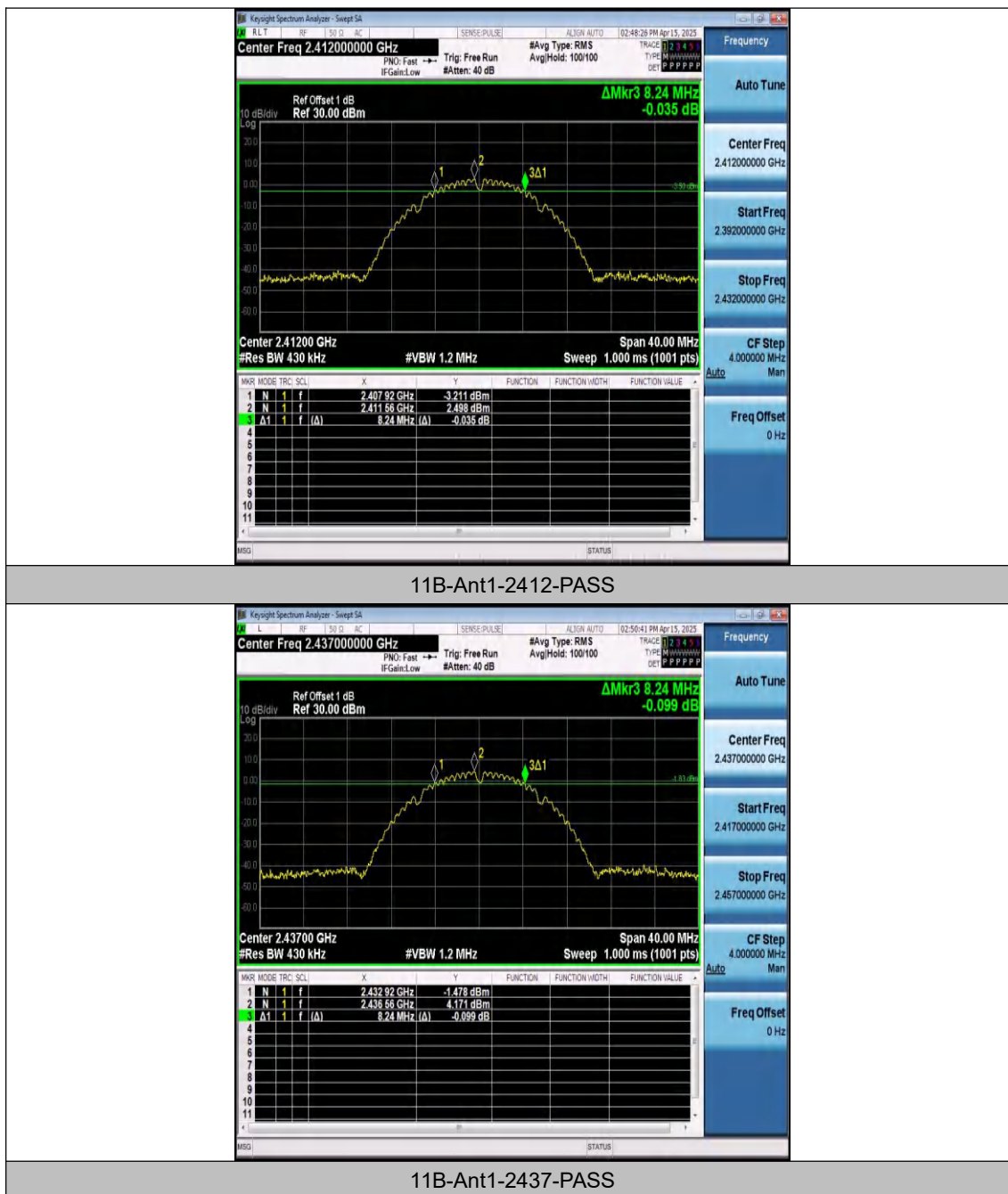
|                  |                  |                    |                    |
|------------------|------------------|--------------------|--------------------|
| Report No.:      | 1813C50134812501 | Test Sample No.:   | 1-2-2              |
| Start Test Date: | 2025.04.15       | Finish Test Date:  | 2025.04.23         |
| Test Engineer:   | <i>Alex Peng</i> | Auditor:           | <i>Justin Feng</i> |
| Temperature:     | 24.5°C           | Relative Humidity: | 50%                |
| Pressure:        | 101kPa           |                    |                    |

## Appendix A: 6dB Bandwidth

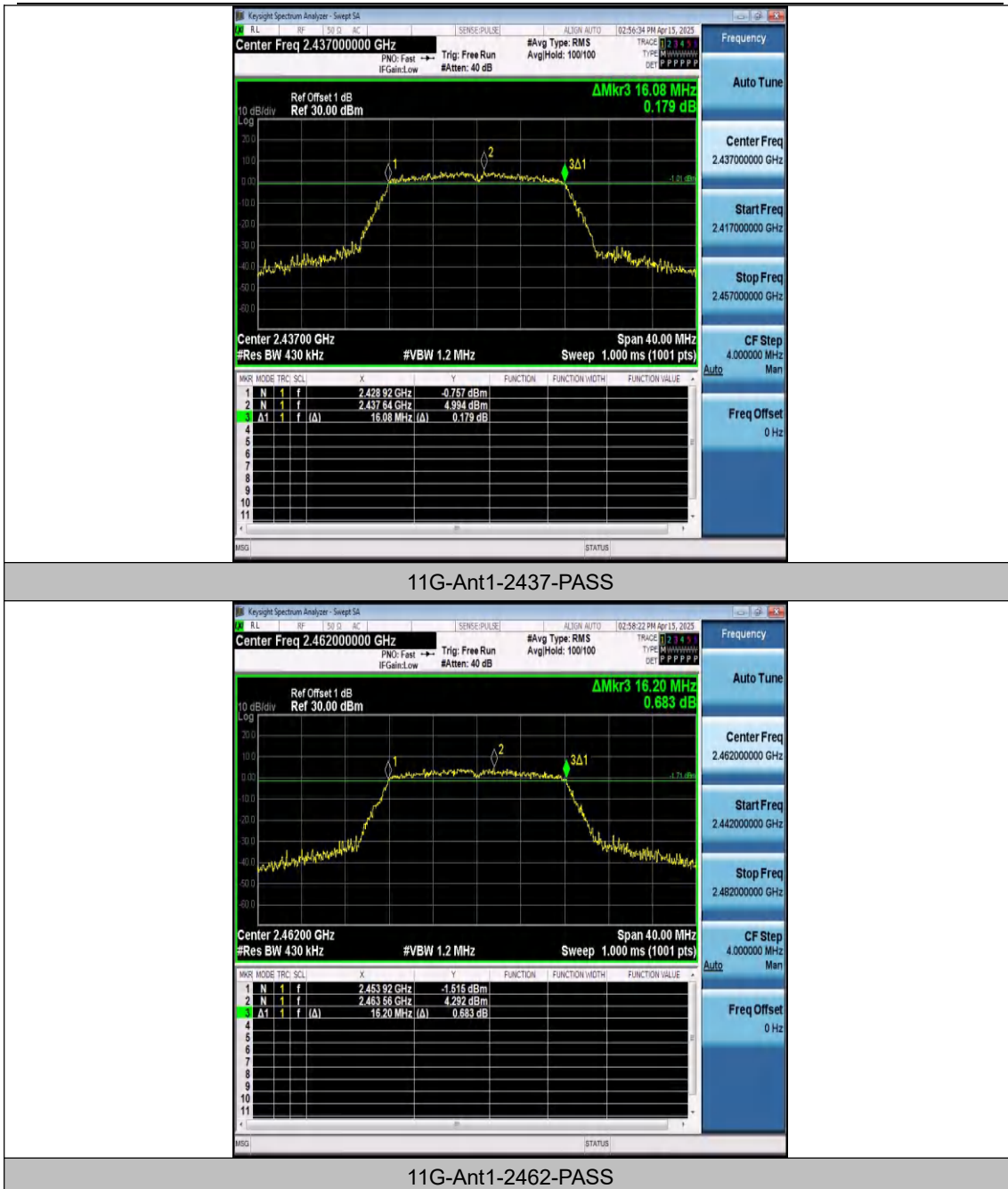
### Test Result

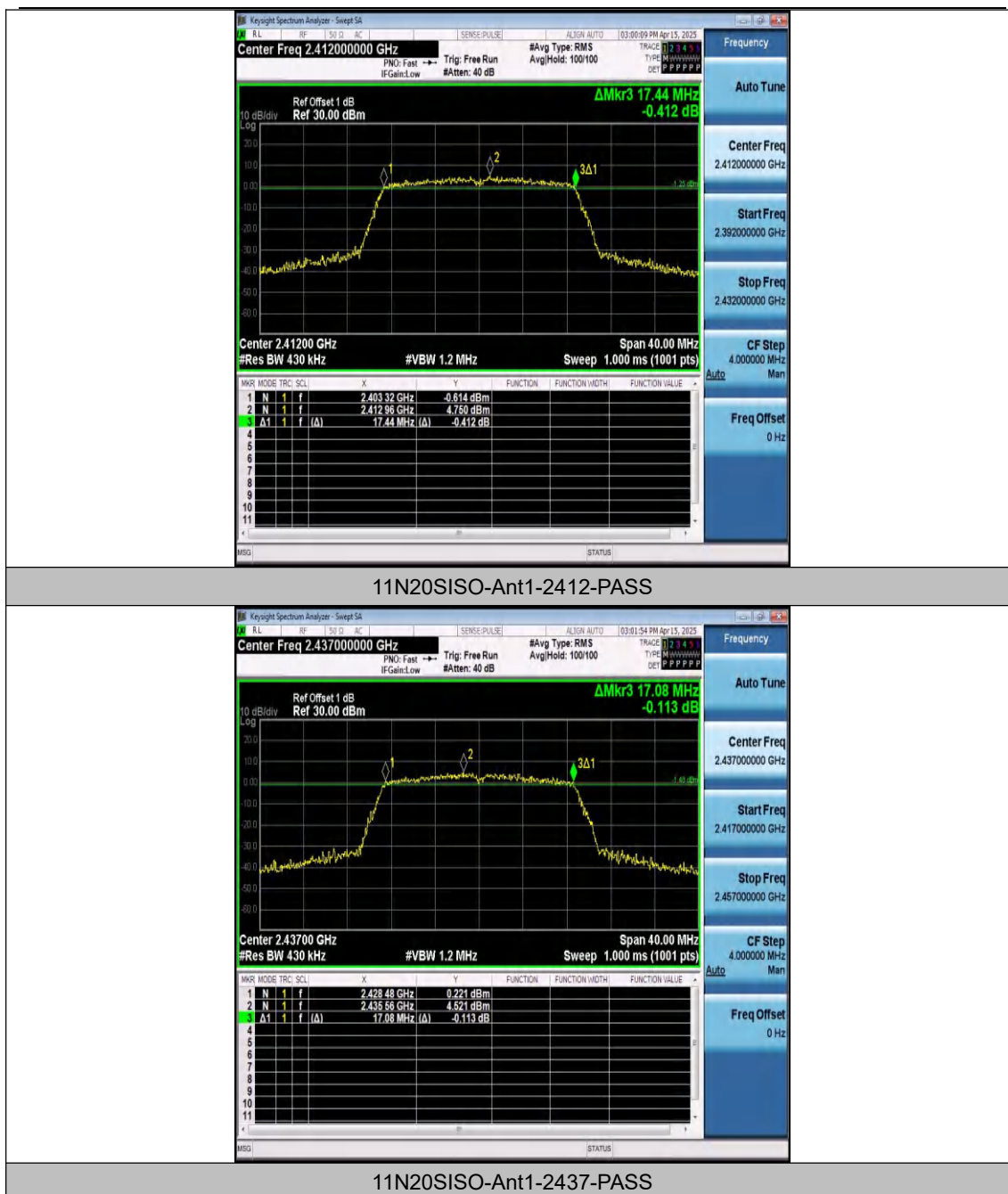
| Test Mode | Antenna | Frequency[MHz] | 6dB BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|----------------|--------------|----------|----------|------------|---------|
| 11B       | Ant1    | 2412           | 8.240        | 2407.920 | 2416.160 | 0.5        | PASS    |
| 11B       | Ant1    | 2437           | 8.240        | 2432.920 | 2441.160 | 0.5        | PASS    |
| 11B       | Ant1    | 2462           | 8.240        | 2457.920 | 2466.160 | 0.5        | PASS    |
| 11G       | Ant1    | 2412           | 16.240       | 2403.800 | 2420.040 | 0.5        | PASS    |
| 11G       | Ant1    | 2437           | 16.080       | 2428.920 | 2445.000 | 0.5        | PASS    |
| 11G       | Ant1    | 2462           | 16.200       | 2453.920 | 2470.120 | 0.5        | PASS    |
| 11N20SISO | Ant1    | 2412           | 17.440       | 2403.320 | 2420.760 | 0.5        | PASS    |
| 11N20SISO | Ant1    | 2437           | 17.080       | 2428.480 | 2445.560 | 0.5        | PASS    |
| 11N20SISO | Ant1    | 2462           | 17.320       | 2453.320 | 2470.640 | 0.5        | PASS    |

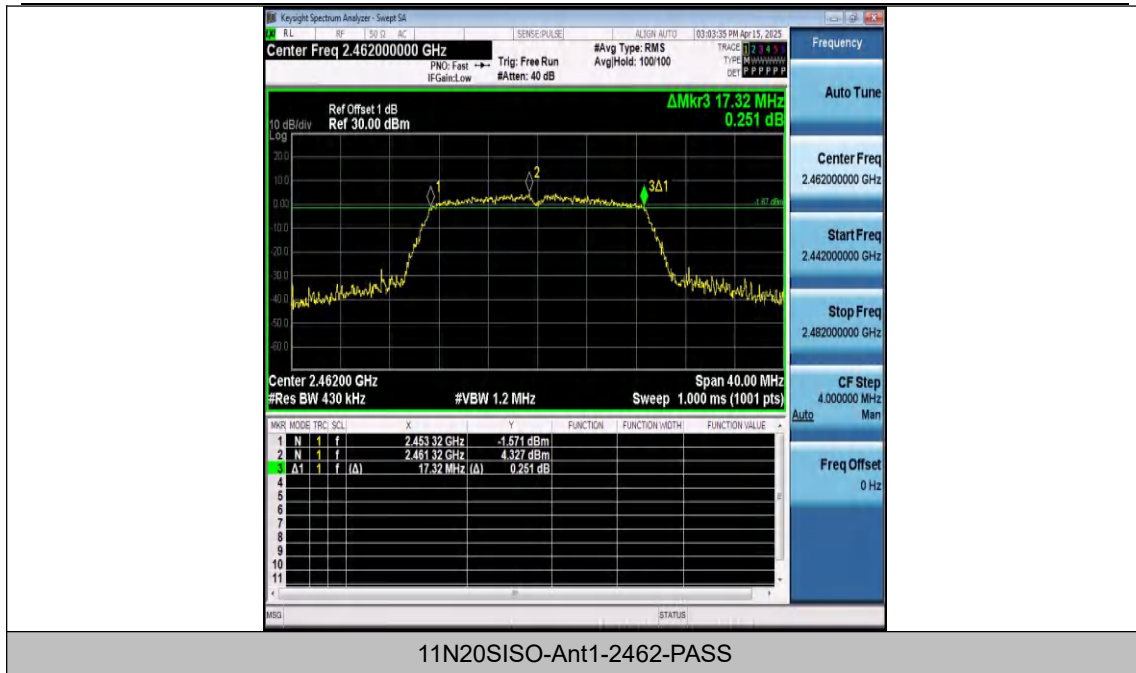
## Test Graphs











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## Appendix B: 99% Occupied Bandwidth

### Test Result

| Test Mode | Antenna | Channel Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|-----------|---------|------------------------|-----------|-----------|-----------|------------|---------|
| 11B       | Ant1    | 2412                   | 12.807    | 2405.6402 | 2418.4472 | ---        | ---     |
| 11B       | Ant1    | 2437                   | 12.821    | 2430.6256 | 2443.4466 | ---        | ---     |
| 11B       | Ant1    | 2462                   | 12.790    | 2455.6657 | 2468.4557 | ---        | ---     |
| 11G       | Ant1    | 2412                   | 16.877    | 2403.5919 | 2420.4689 | ---        | ---     |
| 11G       | Ant1    | 2437                   | 16.764    | 2428.6395 | 2445.4035 | ---        | ---     |
| 11G       | Ant1    | 2462                   | 16.818    | 2453.5852 | 2470.4032 | ---        | ---     |
| 11N20SISO | Ant1    | 2412                   | 17.872    | 2403.0844 | 2420.9564 | ---        | ---     |
| 11N20SISO | Ant1    | 2437                   | 17.796    | 2428.1364 | 2445.9324 | ---        | ---     |
| 11N20SISO | Ant1    | 2462                   | 17.807    | 2453.1290 | 2470.9360 | ---        | ---     |

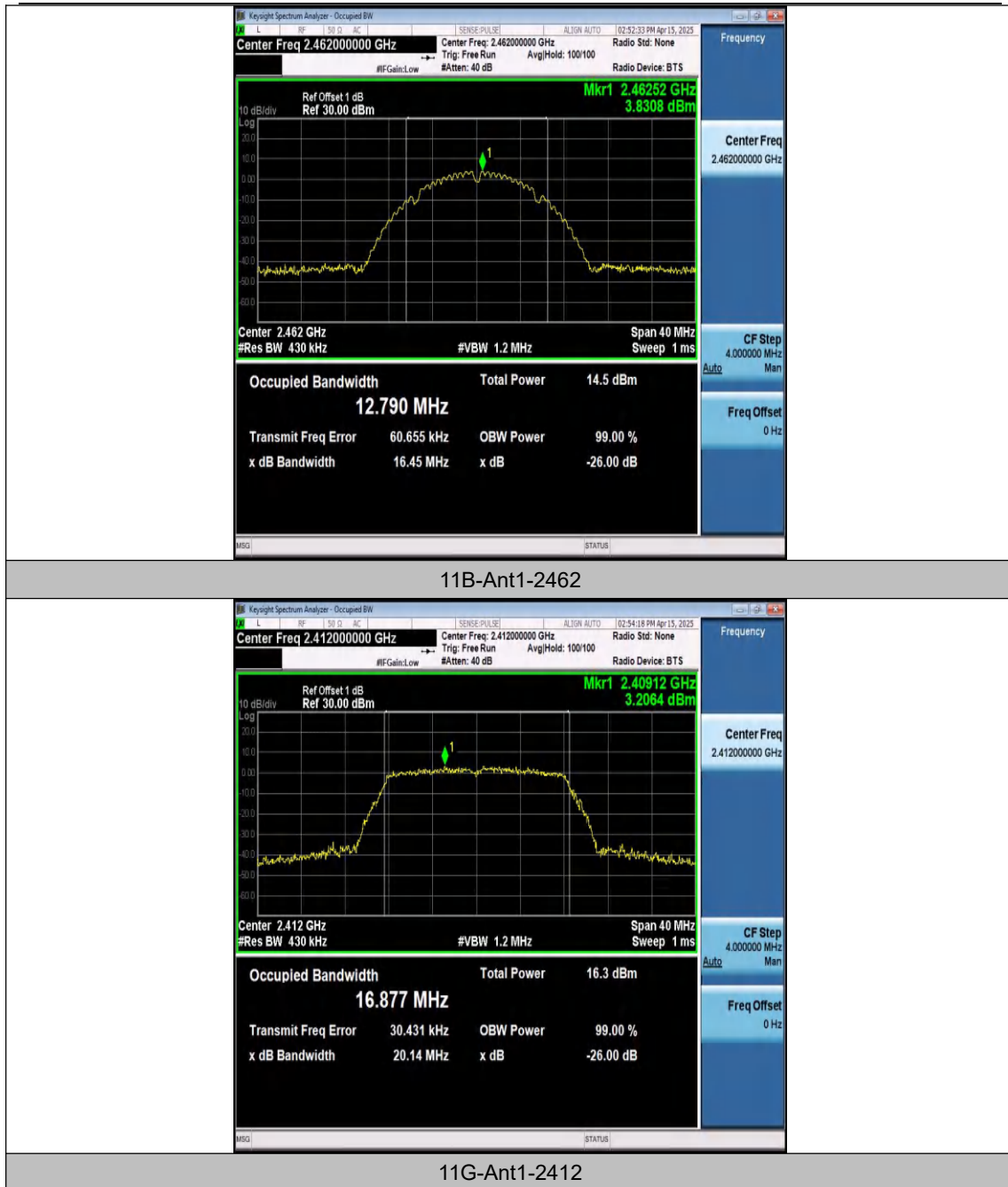
## Test Graphs

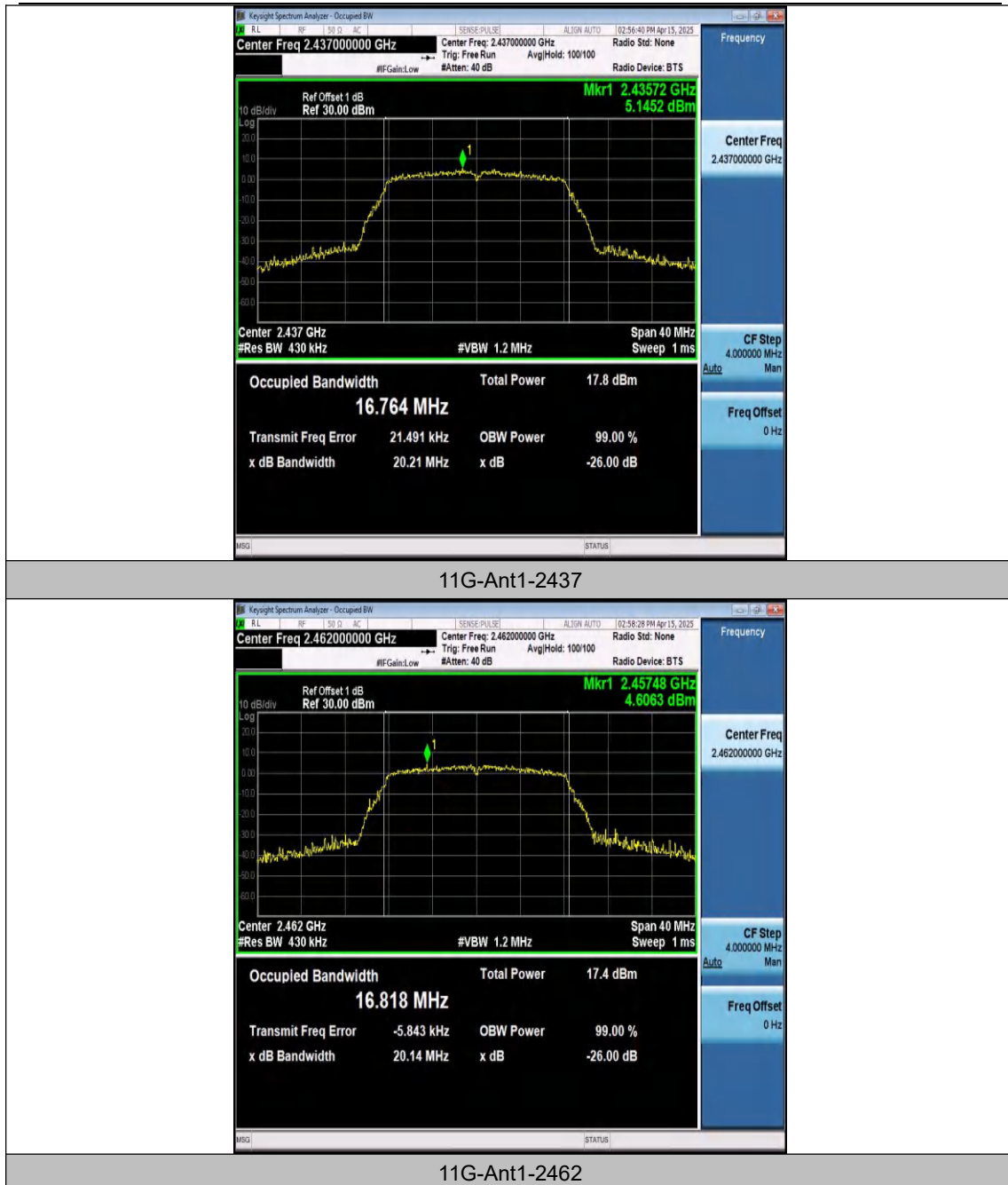


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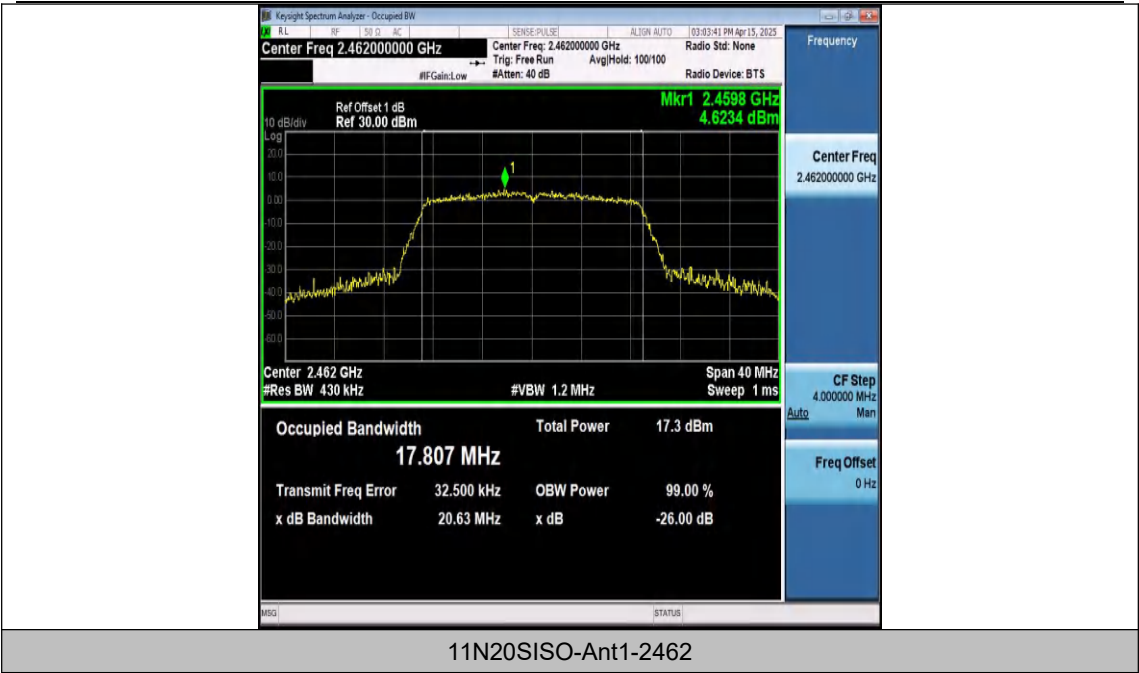
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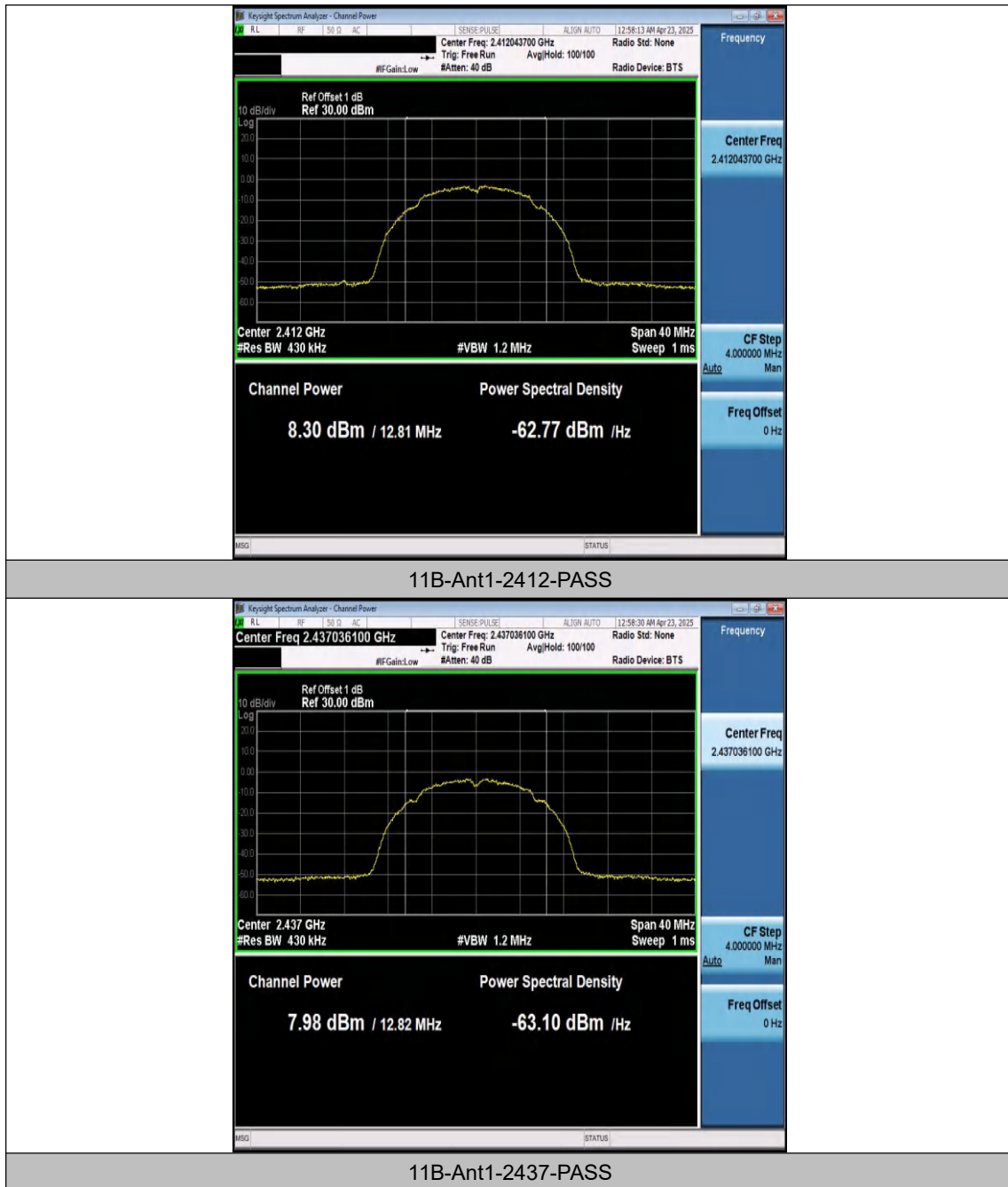
## Appendix C: Maximum conducted output power

### Test Result Average

| Test Mode     | Antenna | Frequency [MHz] | Average power [dBm] | Duty Cycle [%] | DC Factor [dB] | Result [dBm] | Limit [dBm] | Verdict |
|---------------|---------|-----------------|---------------------|----------------|----------------|--------------|-------------|---------|
| 11B           | Ant1    | 2412            | 8.30                | 100.00         | 0.00           | <b>8.30</b>  | ≤30.0<br>0  | PASS    |
| 11B           | Ant1    | 2437            | 7.98                | 100.00         | 0.00           | 7.98         | ≤30.0<br>0  | PASS    |
| 11B           | Ant1    | 2462            | 7.82                | 100.00         | 0.00           | 7.82         | ≤30.0<br>0  | PASS    |
| 11G           | Ant1    | 2412            | 7.36                | 100.00         | 0.00           | 7.36         | ≤30.0<br>0  | PASS    |
| 11G           | Ant1    | 2437            | 7.08                | 100.00         | 0.00           | 7.08         | ≤30.0<br>0  | PASS    |
| 11G           | Ant1    | 2462            | 6.96                | 100.00         | 0.00           | 6.96         | ≤30.0<br>0  | PASS    |
| 11N20SI<br>SO | Ant1    | 2412            | 7.75                | 100.00         | 0.00           | 7.75         | ≤30.0<br>0  | PASS    |
| 11N20SI<br>SO | Ant1    | 2437            | 7.64                | 100.00         | 0.00           | 7.64         | ≤30.0<br>0  | PASS    |
| 11N20SI<br>SO | Ant1    | 2462            | 7.43                | 100.00         | 0.00           | 7.43         | ≤30.0<br>0  | PASS    |

Note: The Duty Cycle Factor( $10 \cdot \log(1/D)$ ) and cable loss are compensated in the graph.

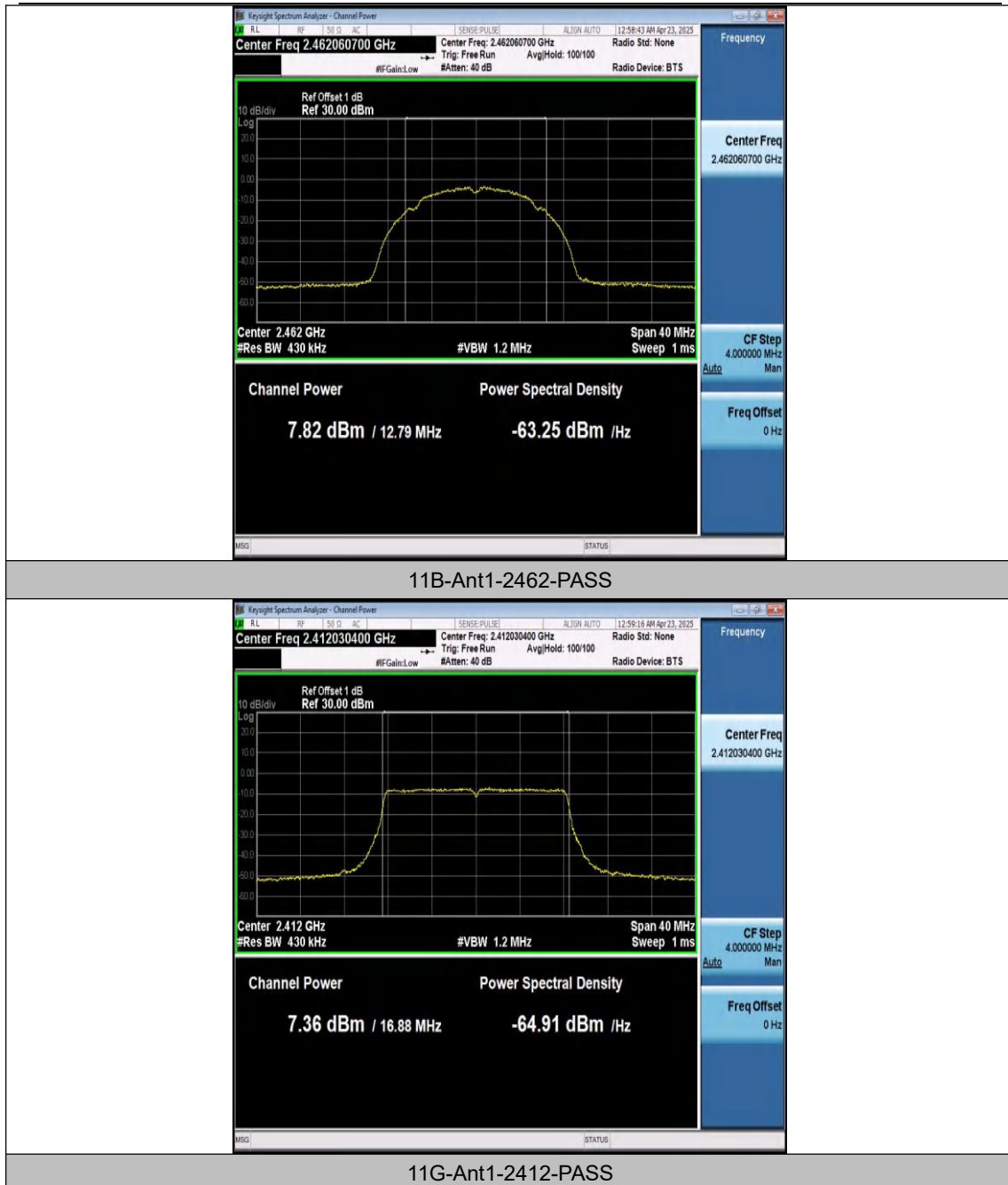
## Test Graphs Average

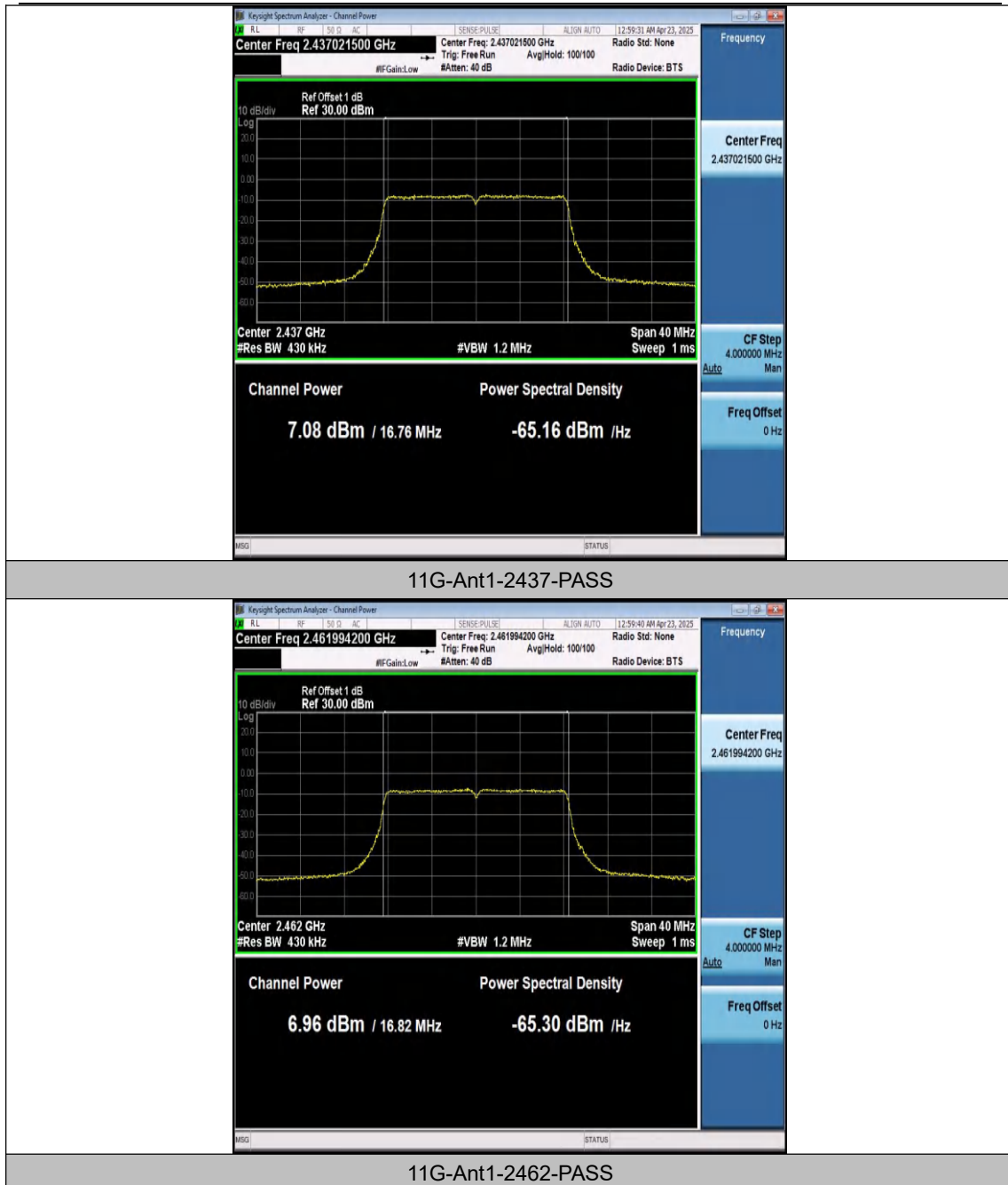


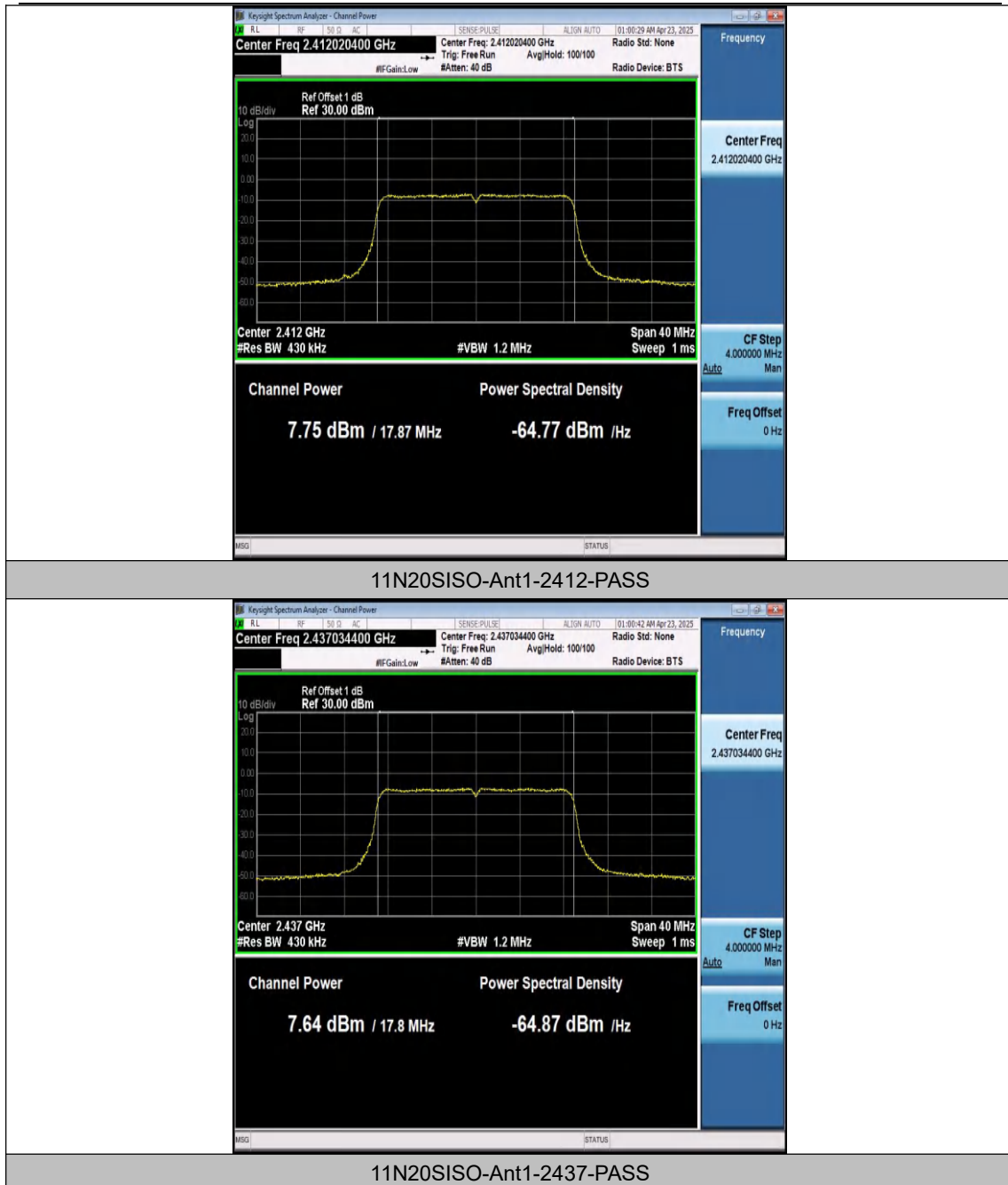
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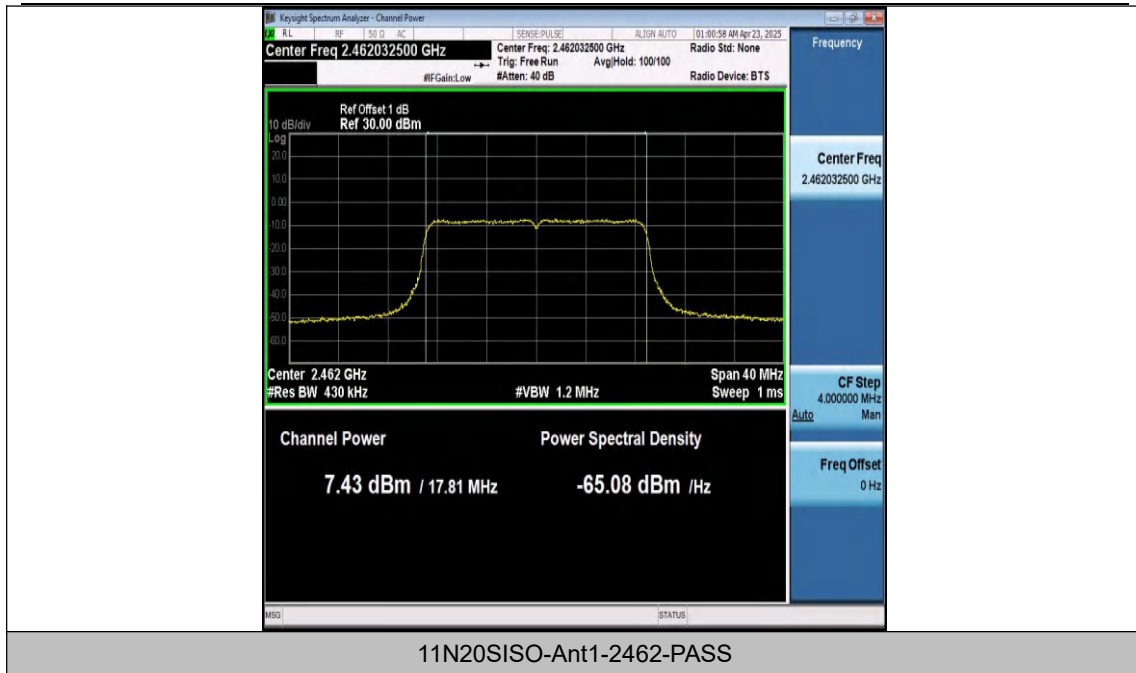


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## Appendix D: Maximum power spectral density

### Test Result

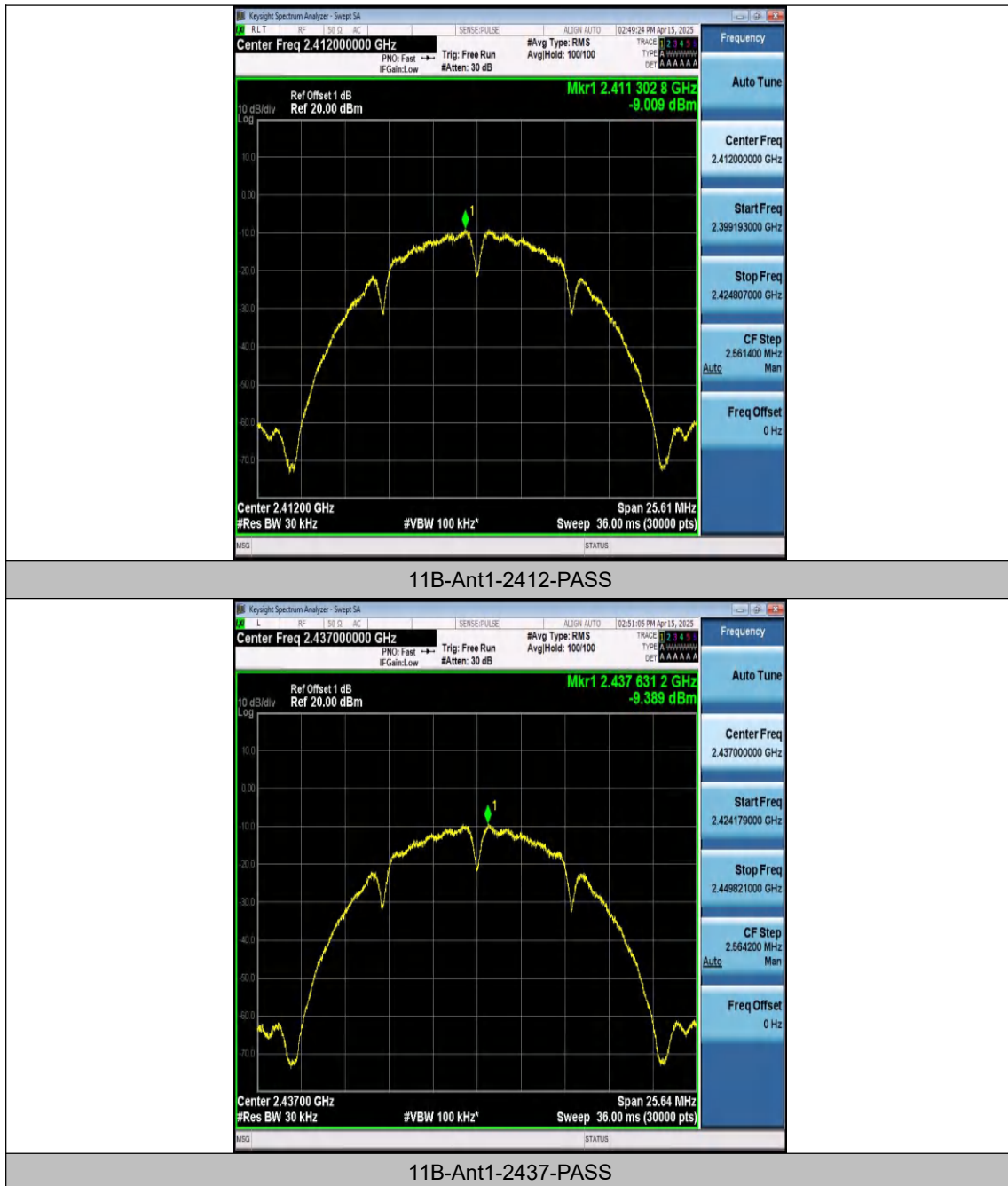
| Test Mode     | Antenna | Frequency [MHz] | Result[dBm/30kHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|---------------|---------|-----------------|-------------------|------------------|-----------------|---------|
| 11B           | Ant1    | 2412            | -9.01             | -19.01           | ≤8.00           | PASS    |
| 11B           | Ant1    | 2437            | -9.39             | -19.39           | ≤8.00           | PASS    |
| 11B           | Ant1    | 2462            | -9.52             | -19.52           | ≤8.00           | PASS    |
| 11G           | Ant1    | 2412            | -13.32            | -23.32           | ≤8.00           | PASS    |
| 11G           | Ant1    | 2437            | -11.84            | -21.84           | ≤8.00           | PASS    |
| 11G           | Ant1    | 2462            | -12.24            | -22.24           | ≤8.00           | PASS    |
| 11N20SIS<br>O | Ant1    | 2412            | -12.07            | -22.07           | ≤8.00           | PASS    |
| 11N20SIS<br>O | Ant1    | 2437            | -11.91            | -21.91           | ≤8.00           | PASS    |
| 11N20SIS<br>O | Ant1    | 2462            | -12.71            | -22.71           | ≤8.00           | PASS    |

**Note:**

1. The Duty Cycle Factor( $10 \cdot \log(1/D)$ ) and cable loss are compensated in the graph.
2.  $PSD(dBm/3kHz) = PSD(dBm/30kHz) - (10 \cdot \log(30/3))$



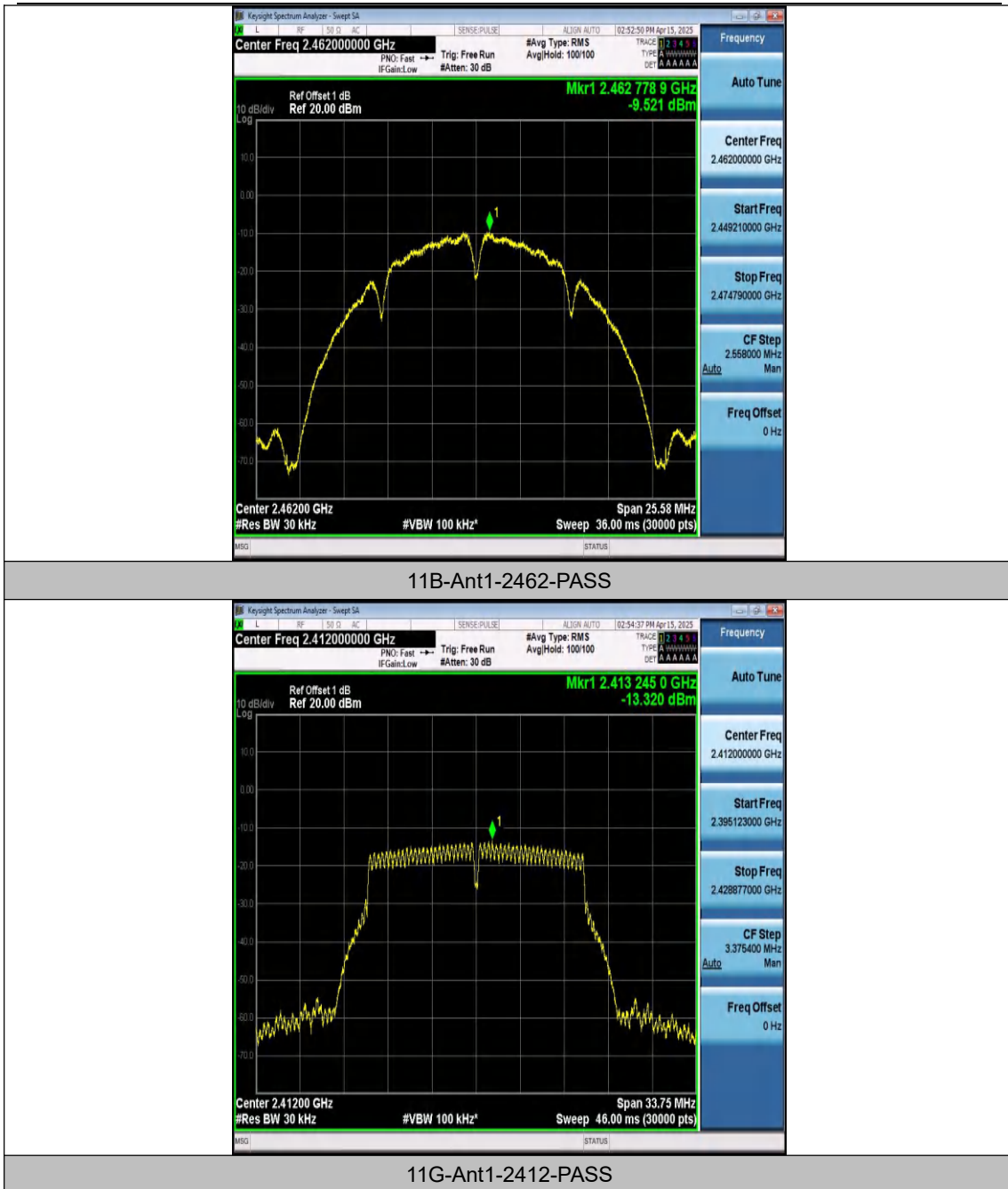
## Test Graphs



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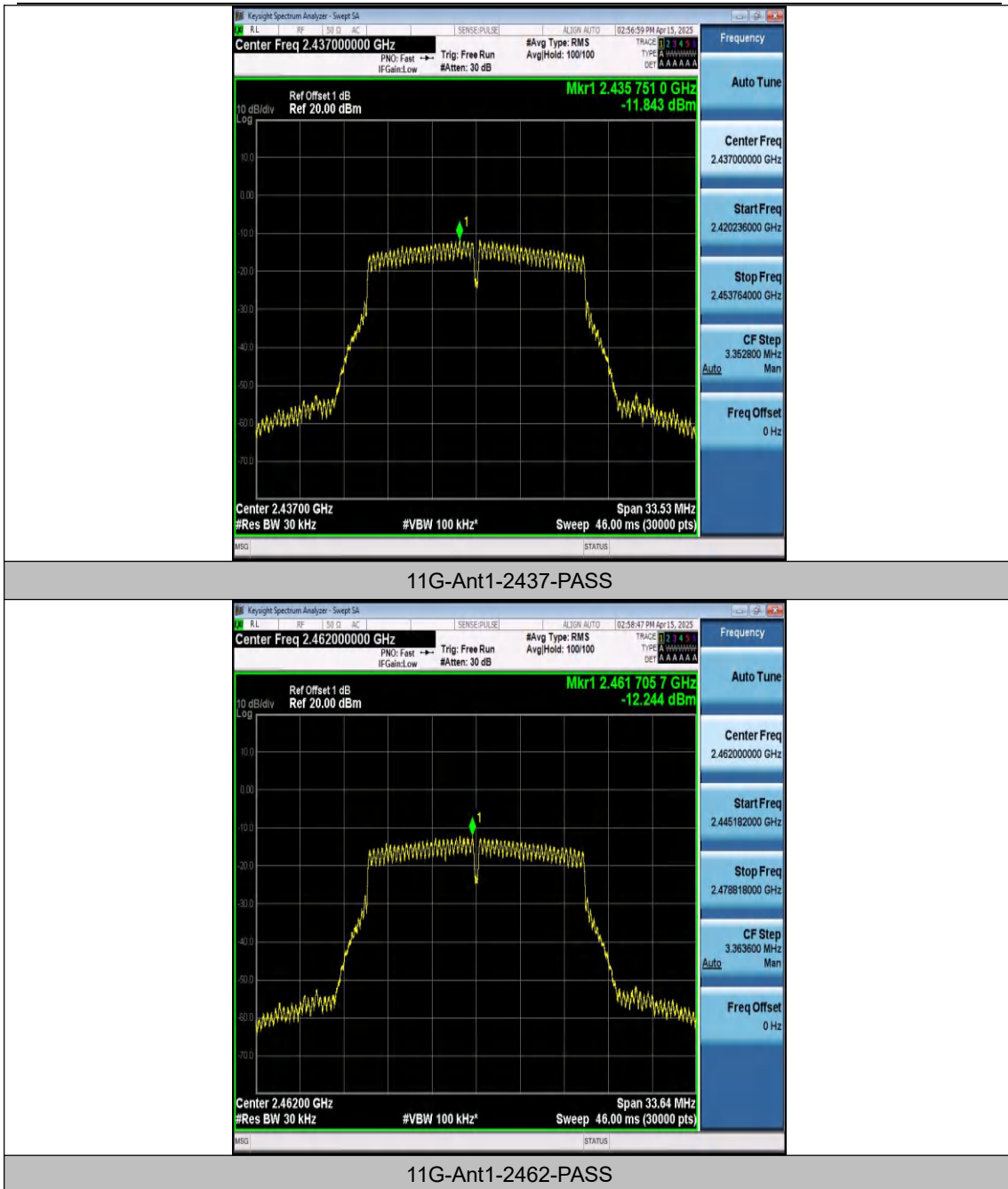
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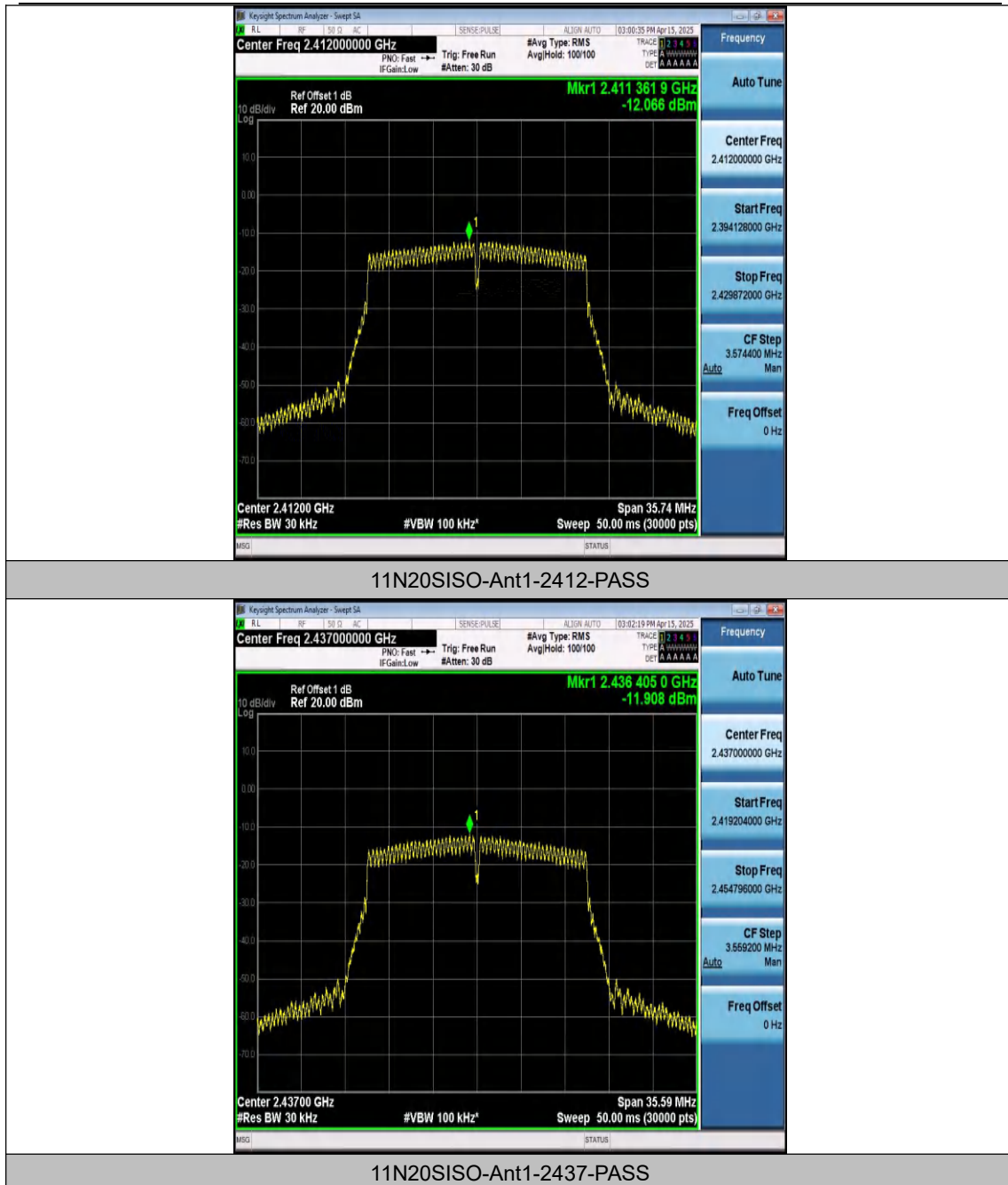
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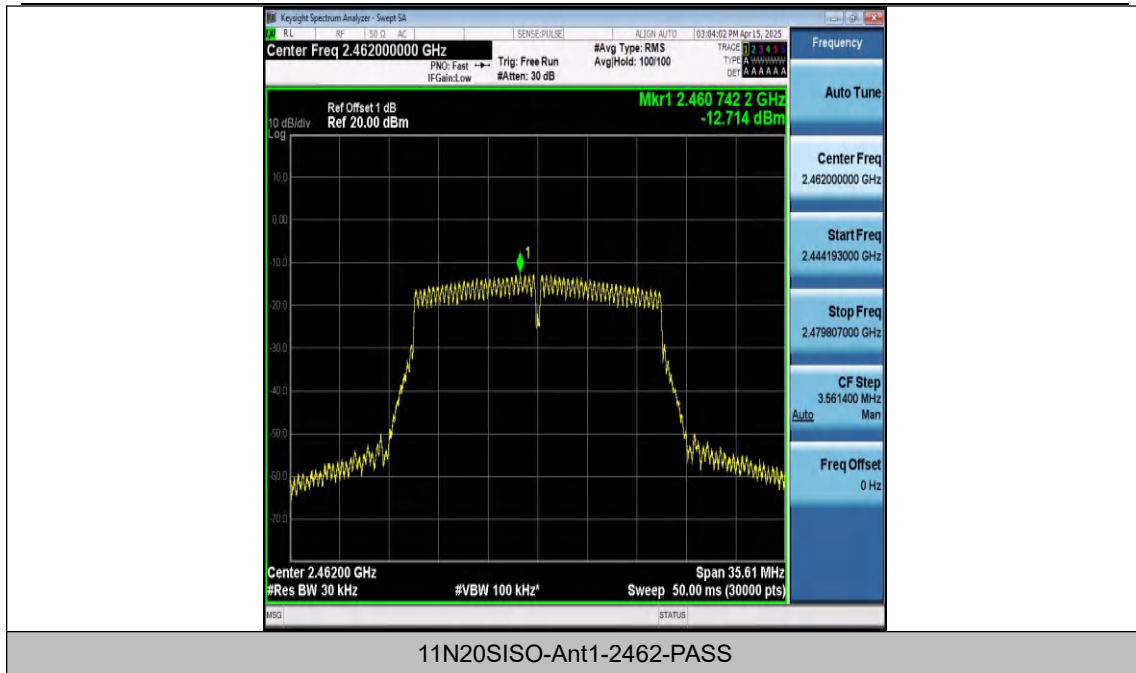


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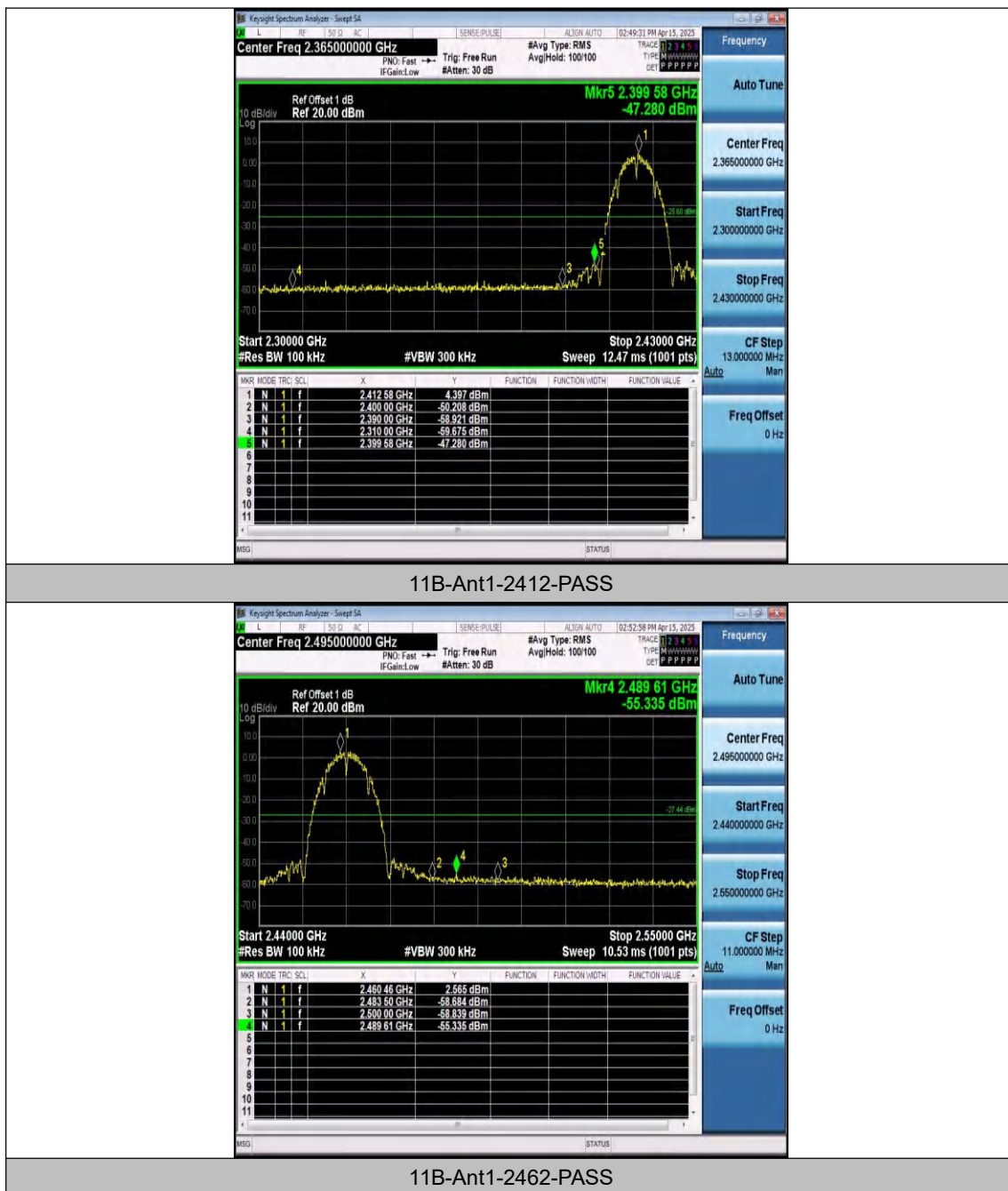
## Appendix E: Conducted Band edge

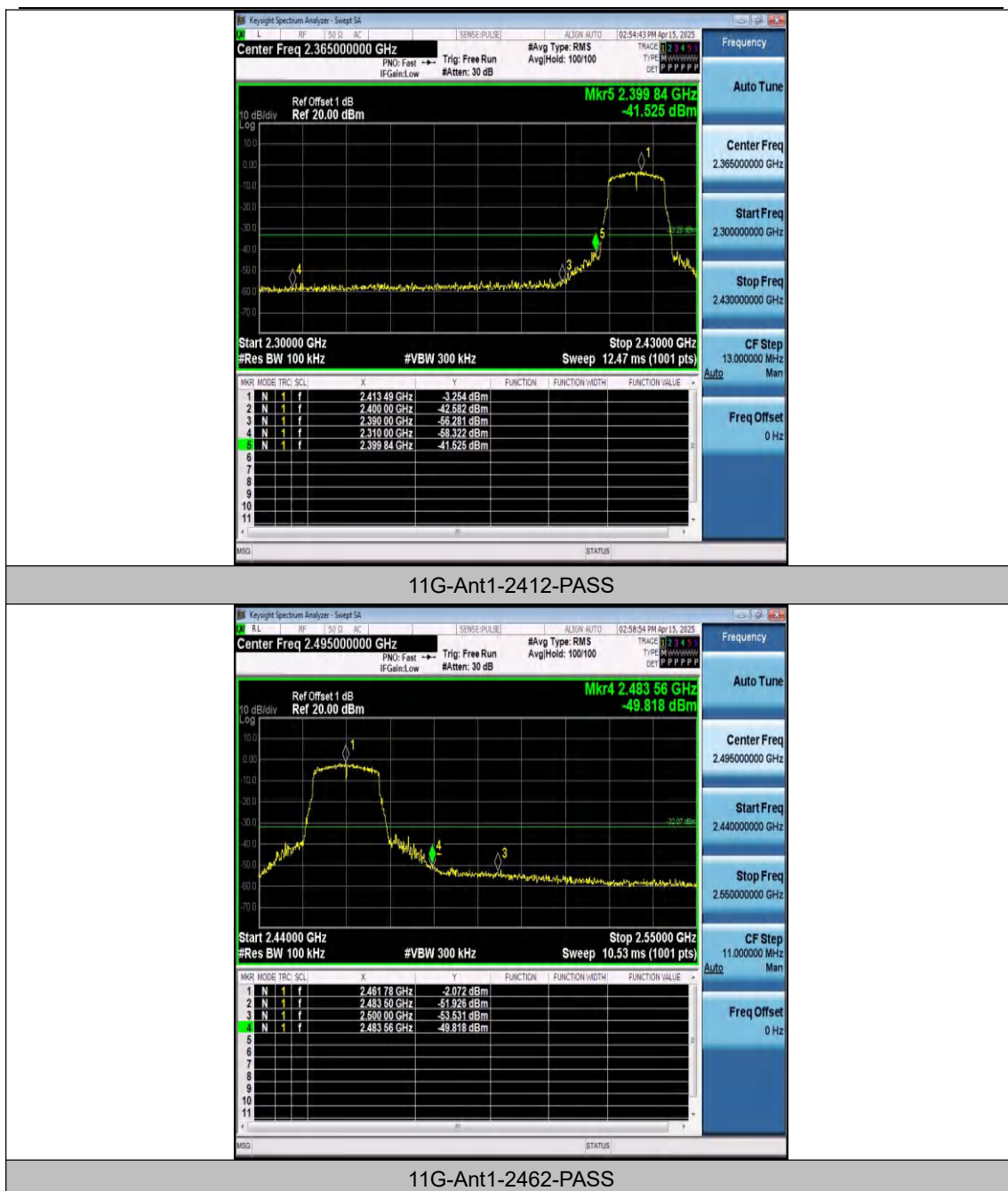
### Test Result

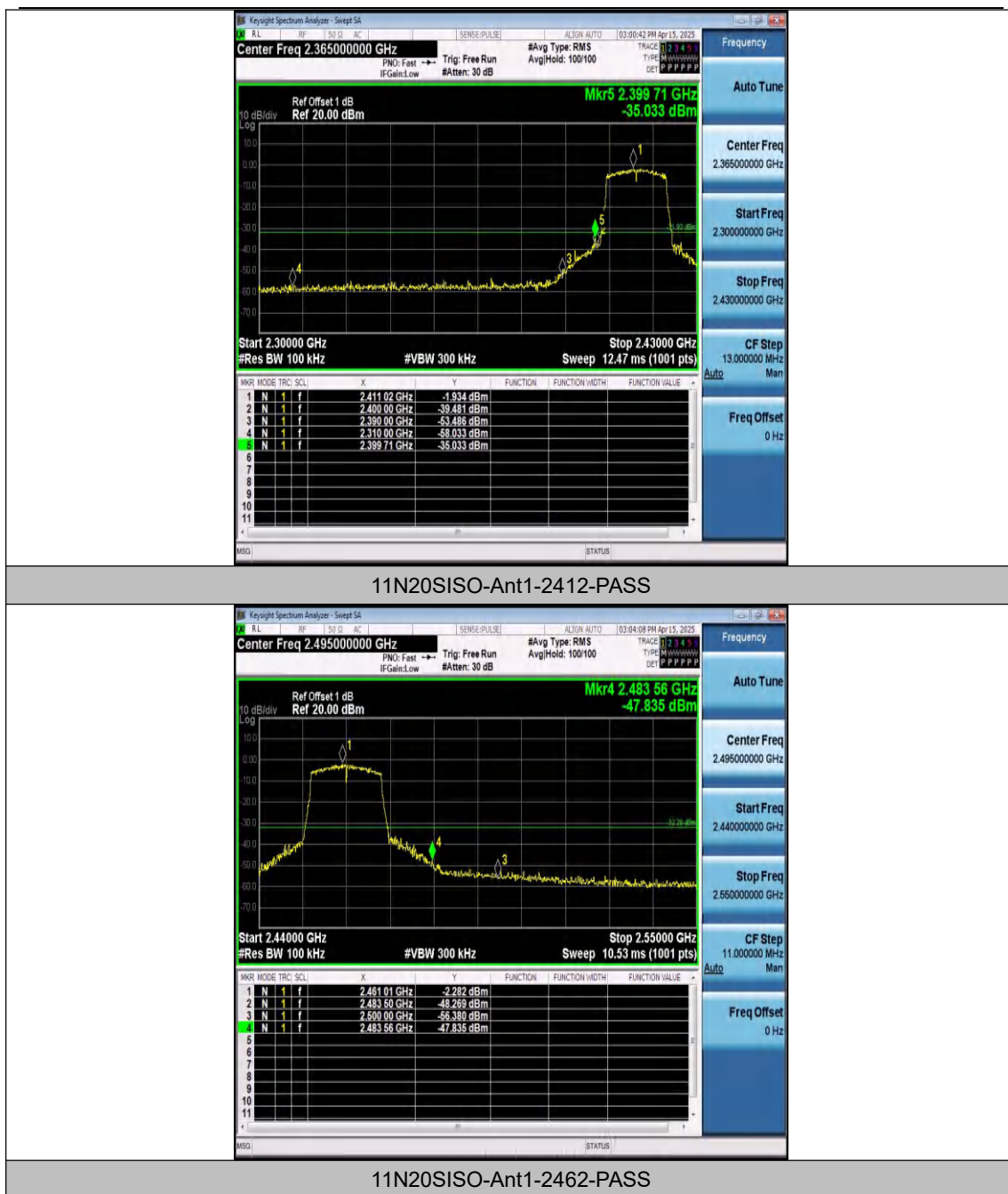
| Test Mode | Antenna | Ch. Name | Frequency[MHz] | Ref. Level[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|----------|----------------|-----------------|-------------|------------|---------|
| 11B       | Ant1    | Low      | 2412           | 4.40            | -47.28      | ≤-25.6     | PASS    |
| 11B       | Ant1    | High     | 2462           | 2.57            | -55.34      | ≤-27.44    | PASS    |
| 11G       | Ant1    | Low      | 2412           | -3.25           | -41.53      | ≤-33.25    | PASS    |
| 11G       | Ant1    | High     | 2462           | -2.07           | -49.82      | ≤-32.07    | PASS    |
| 11N20SISO | Ant1    | Low      | 2412           | -1.93           | -35.03      | ≤-31.93    | PASS    |
| 11N20SISO | Ant1    | High     | 2462           | -2.28           | -47.84      | ≤-32.28    | PASS    |



## Test Graphs







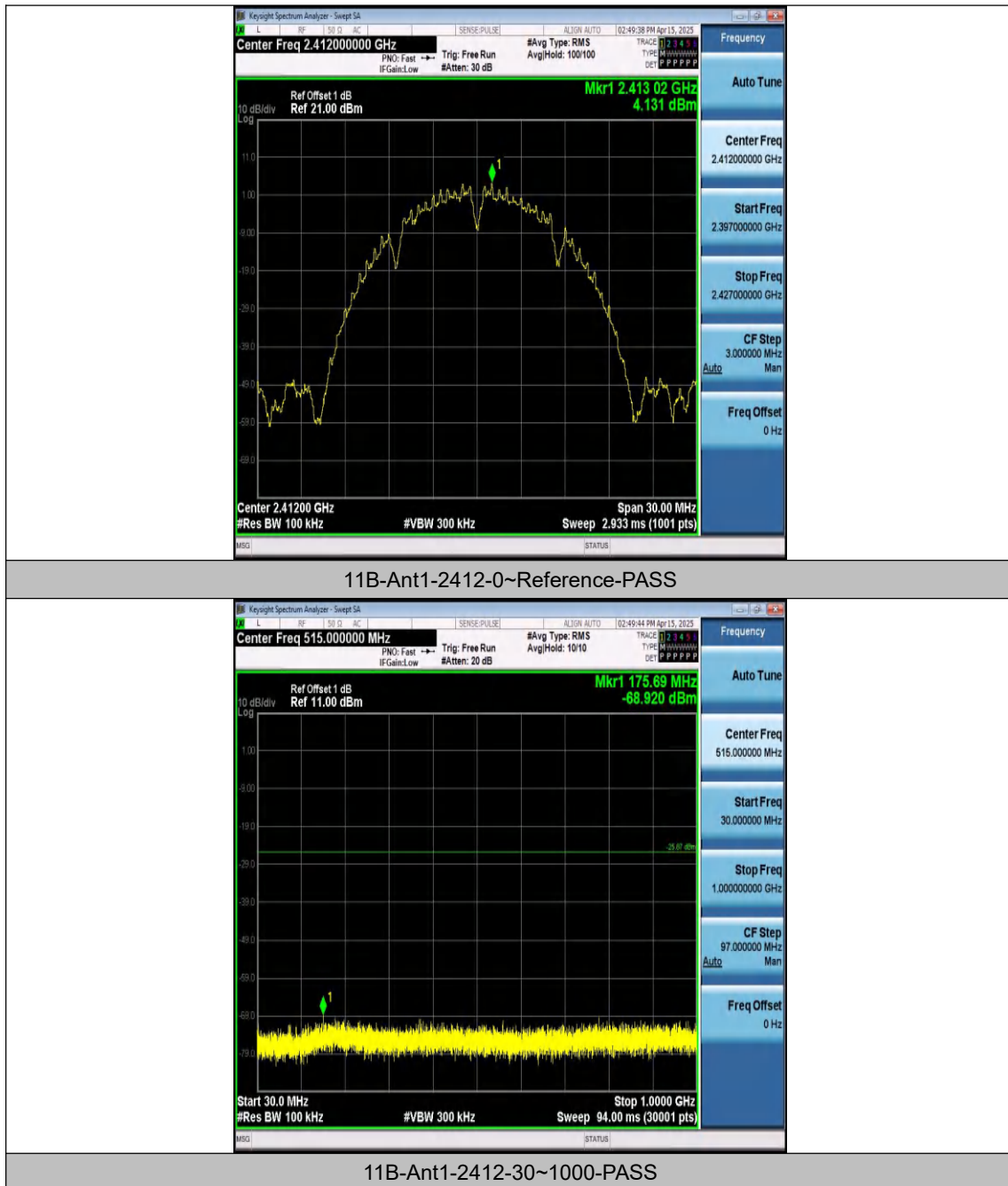
## Appendix F: Conducted Spurious Emission

### Test Result

| Test Mode | Antenna | Frequency[MHz] | Freq. Range [Mhz] | Ref. Level [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|----------------|-------------------|------------------|--------------|-------------|---------|
| 11B       | Ant1    | 2412           | 0~Reference       | 4.13             | 4.13         | ---         | PASS    |
| 11B       | Ant1    | 2412           | 30~1000           | 4.13             | -68.92       | ≤-25.87     | PASS    |
| 11B       | Ant1    | 2412           | 1000~26500        | 4.13             | -47.21       | ≤-25.87     | PASS    |
| 11B       | Ant1    | 2437           | 0~Reference       | 3.81             | 3.81         | ---         | PASS    |
| 11B       | Ant1    | 2437           | 30~1000           | 3.81             | -68.53       | ≤-26.19     | PASS    |
| 11B       | Ant1    | 2437           | 1000~26500        | 3.81             | -48.85       | ≤-26.19     | PASS    |
| 11B       | Ant1    | 2462           | 0~Reference       | 2.67             | 2.67         | ---         | PASS    |
| 11B       | Ant1    | 2462           | 30~1000           | 2.67             | -68.19       | ≤-27.33     | PASS    |
| 11B       | Ant1    | 2462           | 1000~26500        | 2.67             | -51.81       | ≤-27.33     | PASS    |
| 11G       | Ant1    | 2412           | 0~Reference       | -3.13            | -3.13        | ---         | PASS    |
| 11G       | Ant1    | 2412           | 30~1000           | -3.13            | -68.74       | ≤-33.13     | PASS    |
| 11G       | Ant1    | 2412           | 1000~26500        | -3.13            | -53.32       | ≤-33.13     | PASS    |
| 11G       | Ant1    | 2437           | 0~Reference       | -1.63            | -1.63        | ---         | PASS    |
| 11G       | Ant1    | 2437           | 30~1000           | -1.63            | -68.98       | ≤-31.63     | PASS    |
| 11G       | Ant1    | 2437           | 1000~26500        | -1.63            | -53.03       | ≤-31.63     | PASS    |
| 11G       | Ant1    | 2462           | 0~Reference       | -2.08            | -2.08        | ---         | PASS    |
| 11G       | Ant1    | 2462           | 30~1000           | -2.08            | -69.18       | ≤-32.08     | PASS    |
| 11G       | Ant1    | 2462           | 1000~26500        | -2.08            | -52.76       | ≤-32.08     | PASS    |
| 11N20SISO | Ant1    | 2412           | 0~Reference       | -1.66            | -1.66        | ---         | PASS    |
| 11N20SISO | Ant1    | 2412           | 30~1000           | -1.66            | -68.87       | ≤-31.66     | PASS    |
| 11N20SISO | Ant1    | 2412           | 1000~26500        | -1.66            | -53.78       | ≤-31.66     | PASS    |
| 11N20SISO | Ant1    | 2437           | 0~Reference       | -1.98            | -1.98        | ---         | PASS    |
| 11N20SISO | Ant1    | 2437           | 30~1000           | -1.98            | -68.39       | ≤-31.98     | PASS    |
| 11N20SISO | Ant1    | 2437           | 1000~26500        | -1.98            | -52          | ≤-31.98     | PASS    |
| 11N20SISO | Ant1    | 2462           | 0~Reference       | -2.39            | -2.39        | ---         | PASS    |
| 11N20SISO | Ant1    | 2462           | 30~1000           | -2.39            | -69.19       | ≤-32.39     | PASS    |
| 11N20SISO | Ant1    | 2462           | 1000~26500        | -2.39            | -53.74       | ≤-32.39     | PASS    |



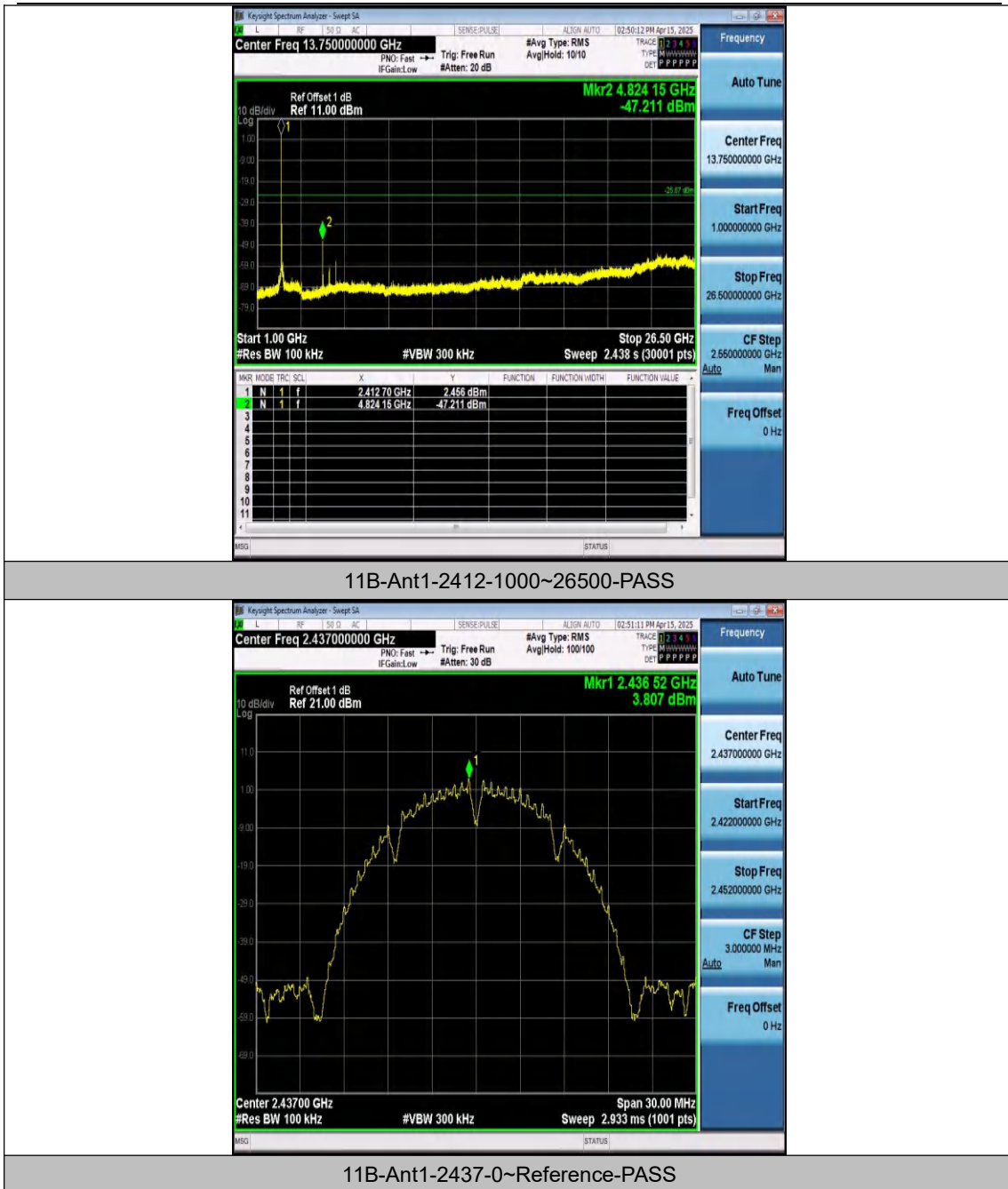
## Test Graphs

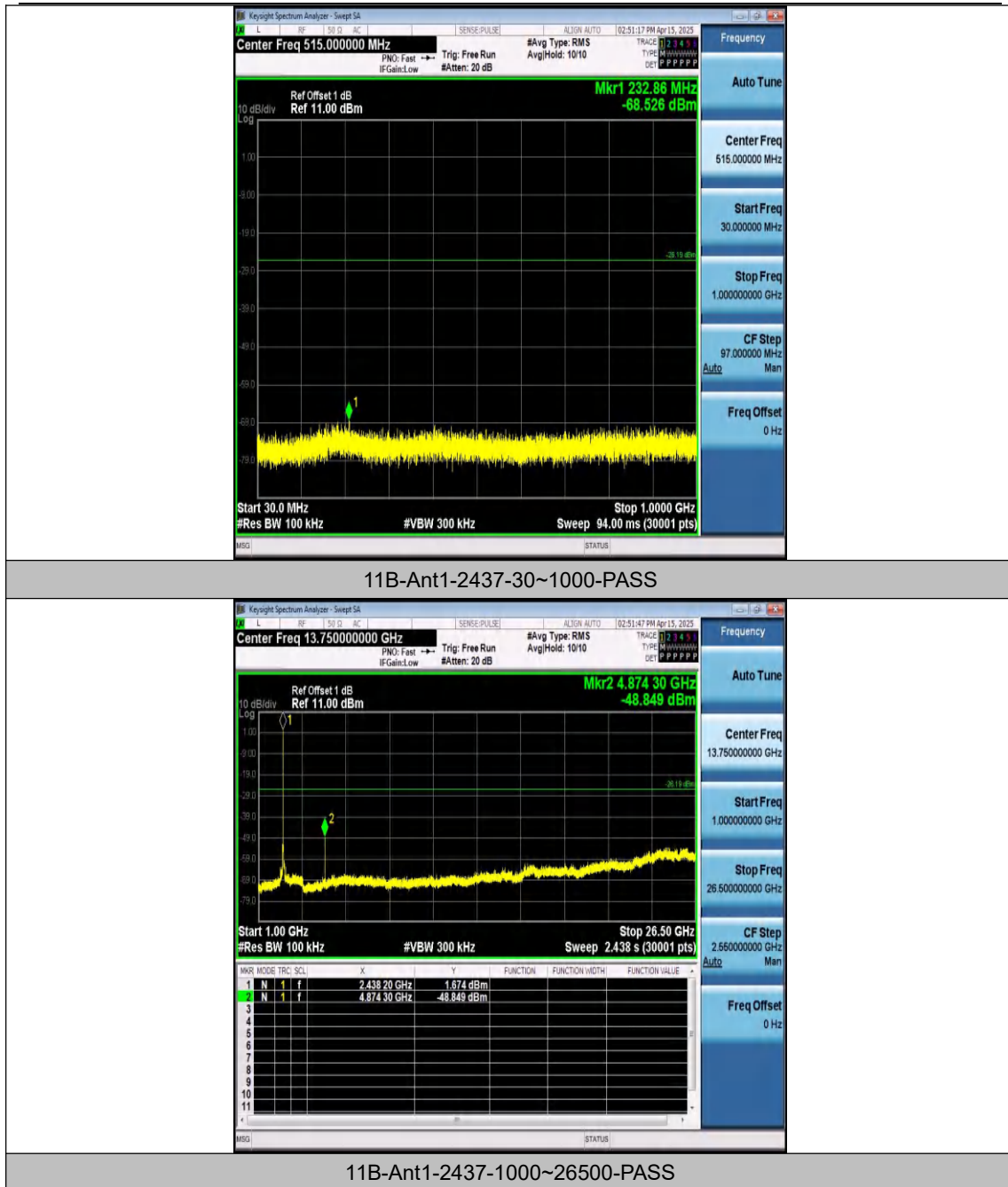


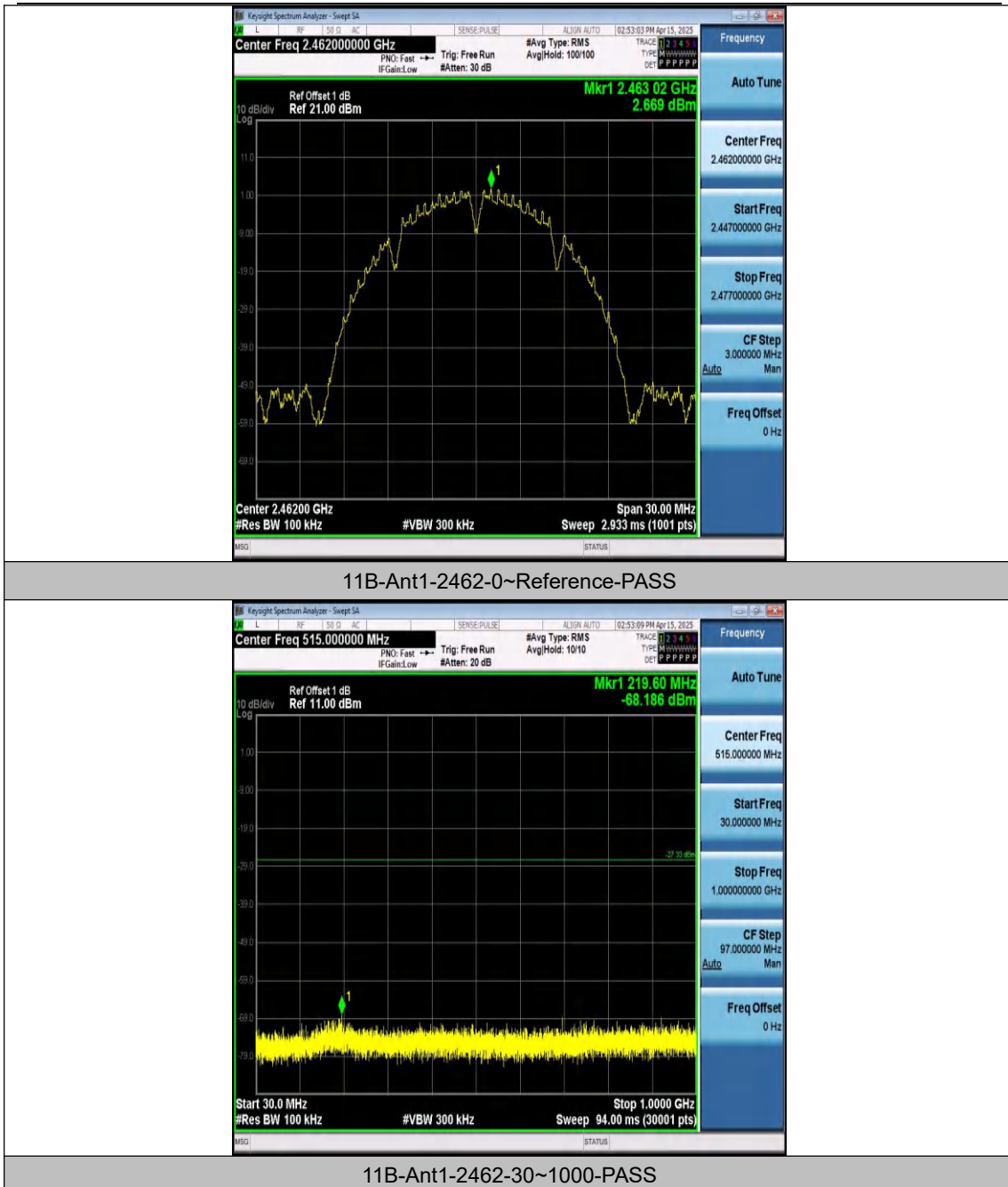
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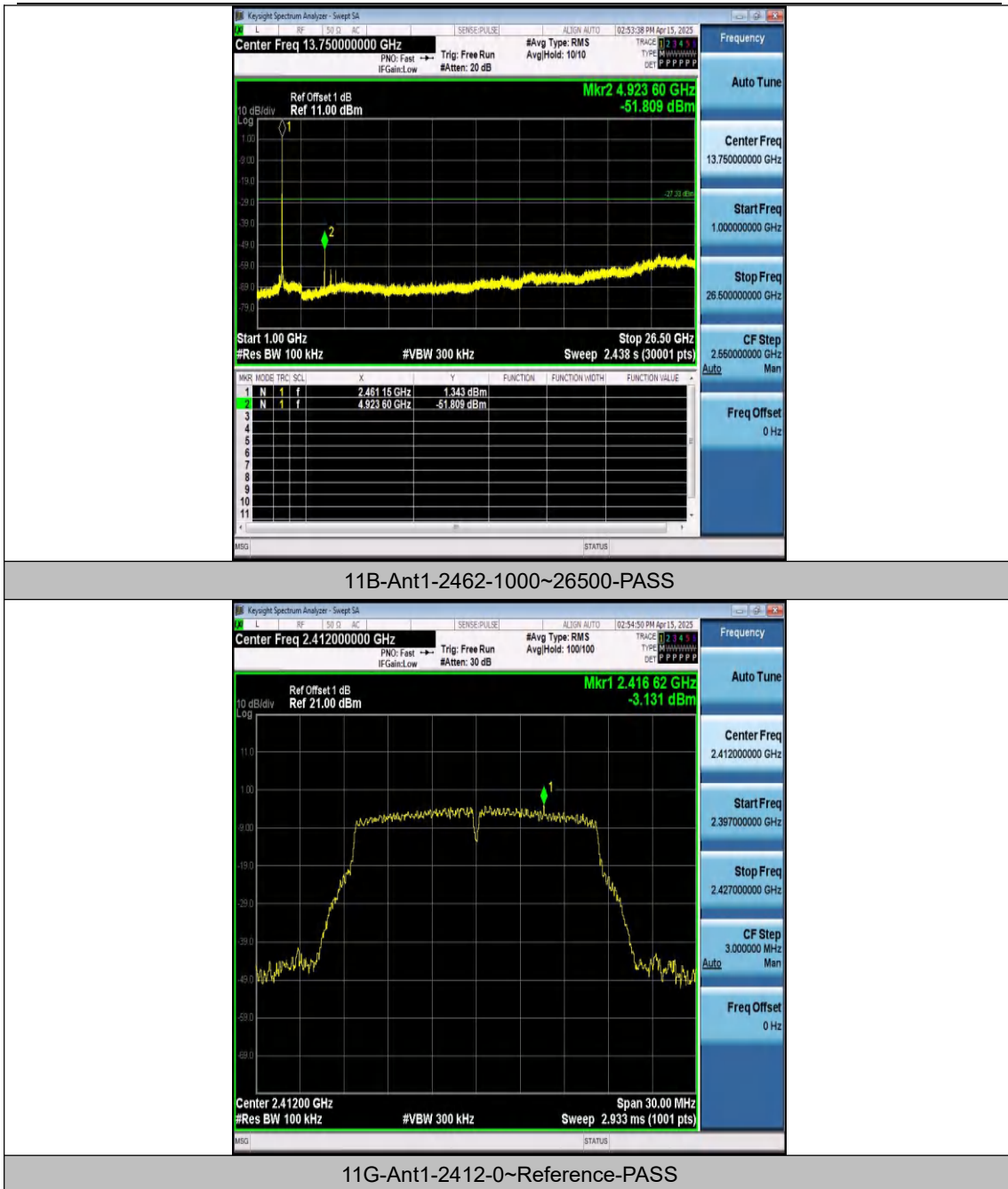




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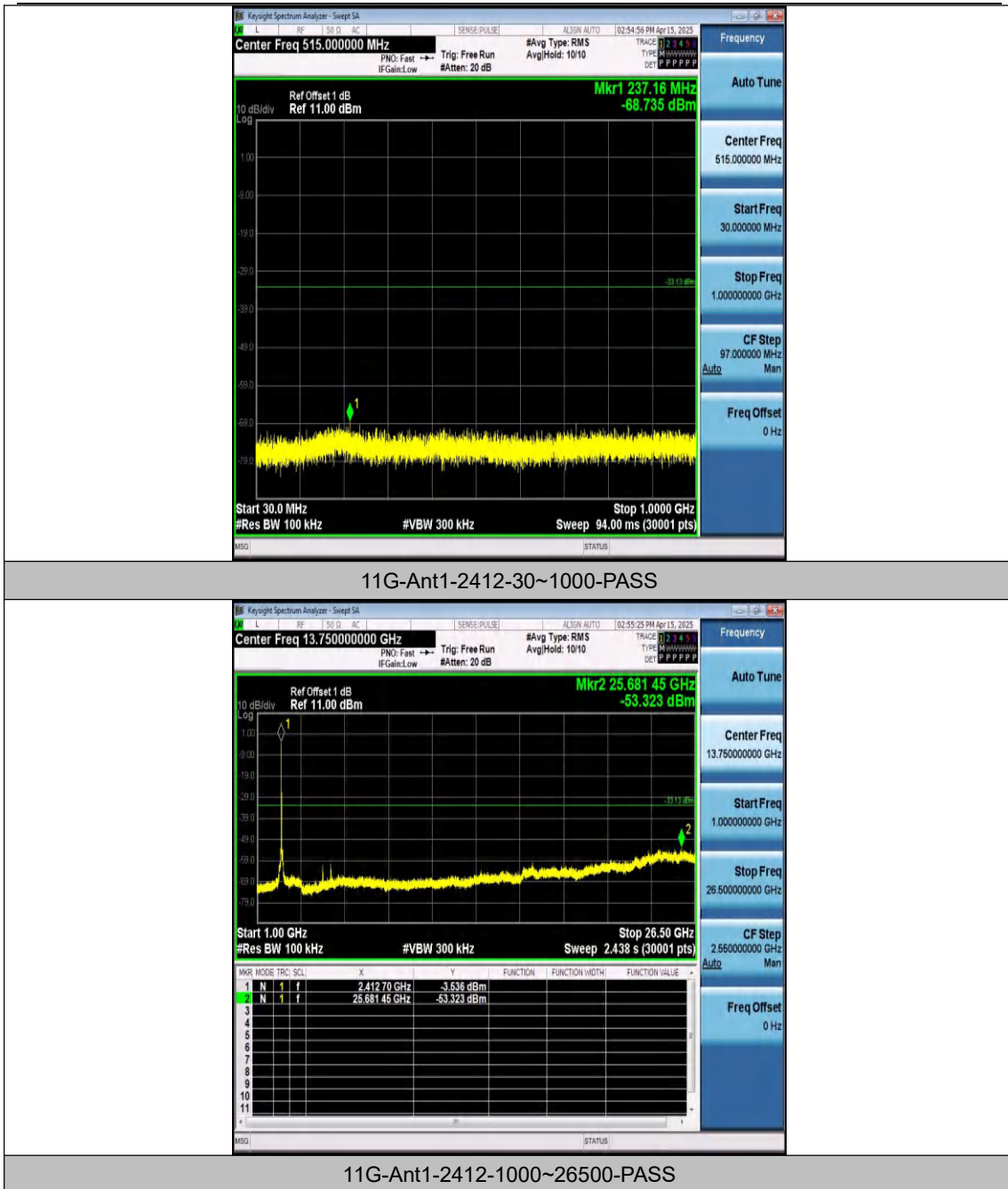


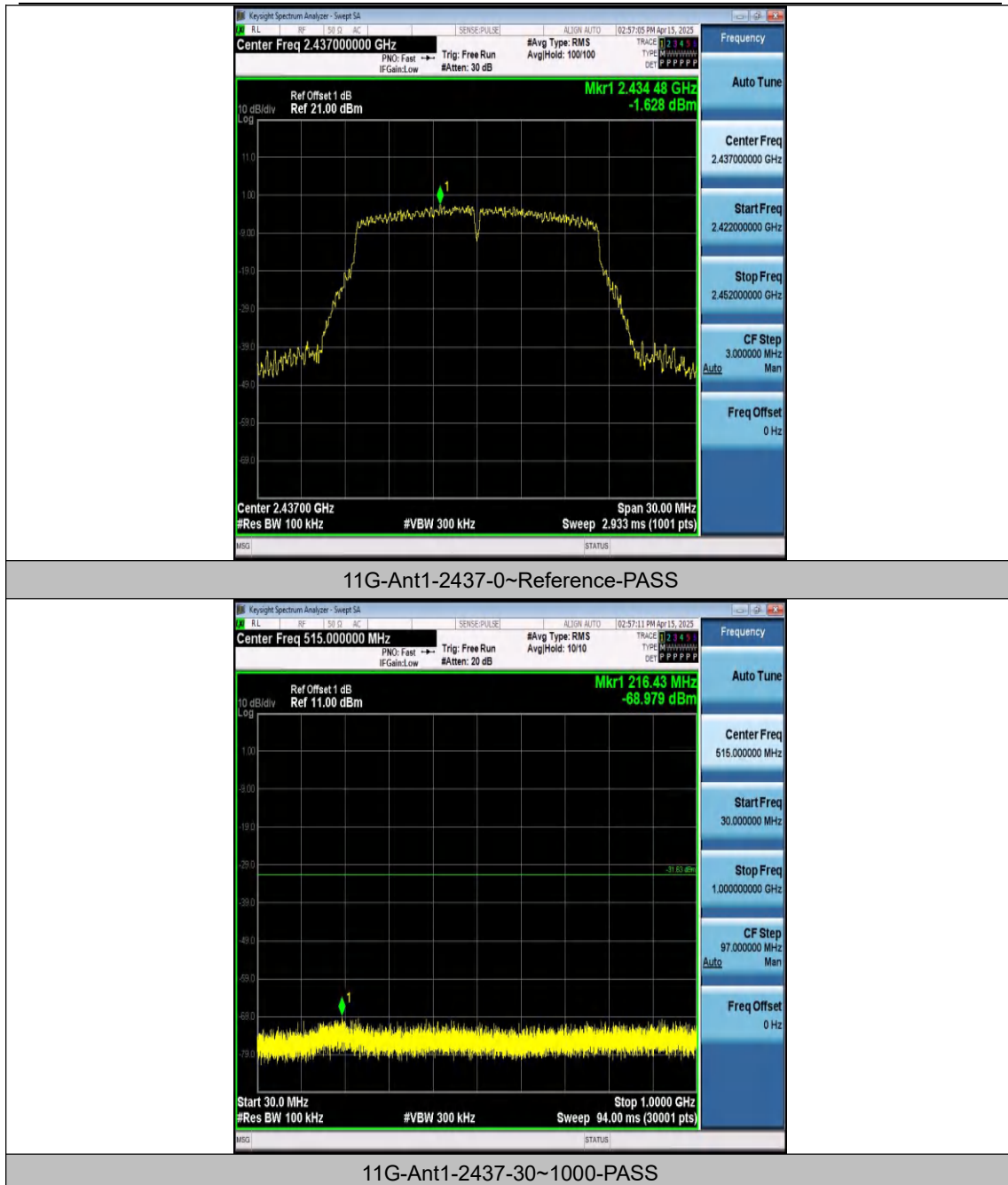
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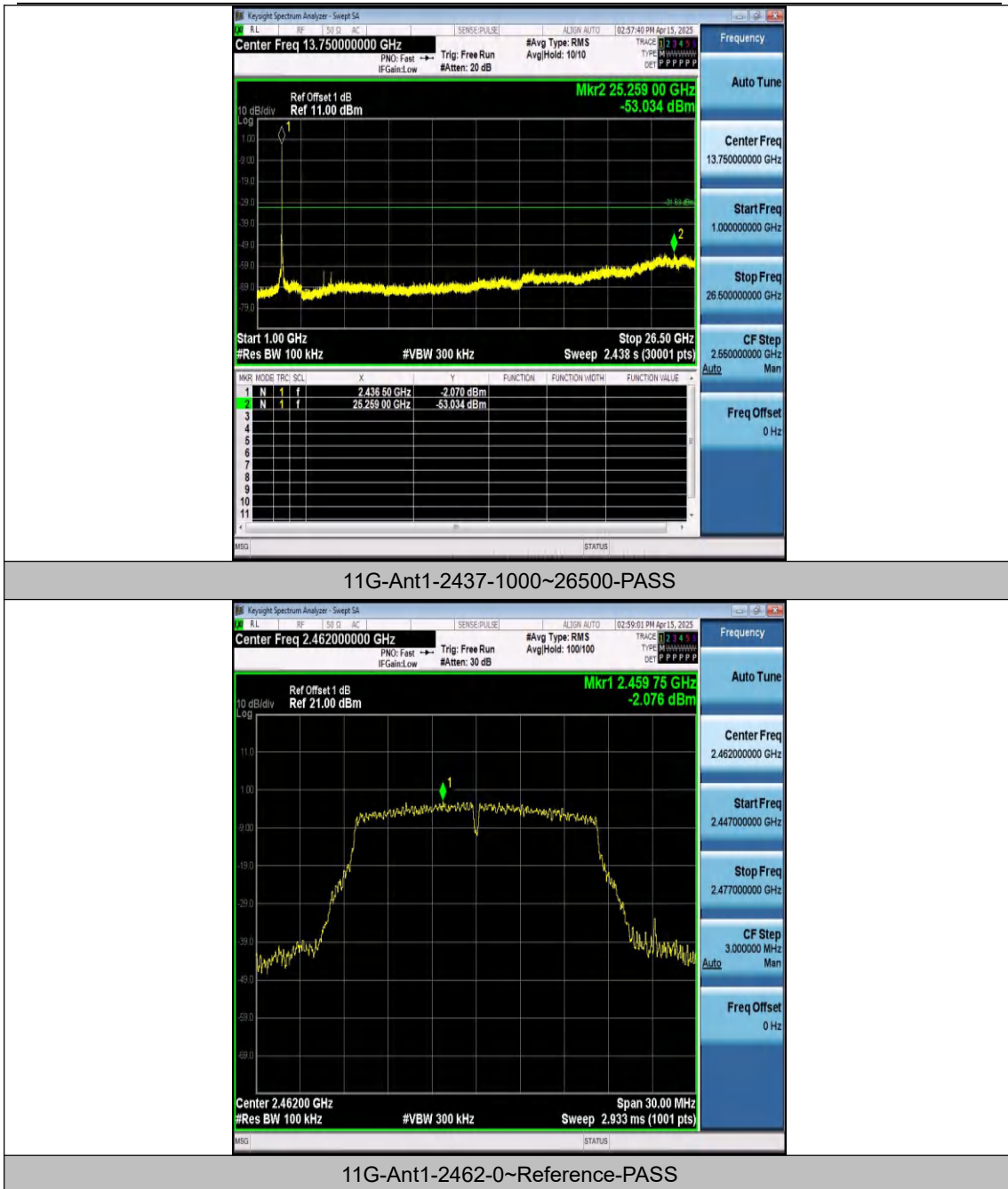
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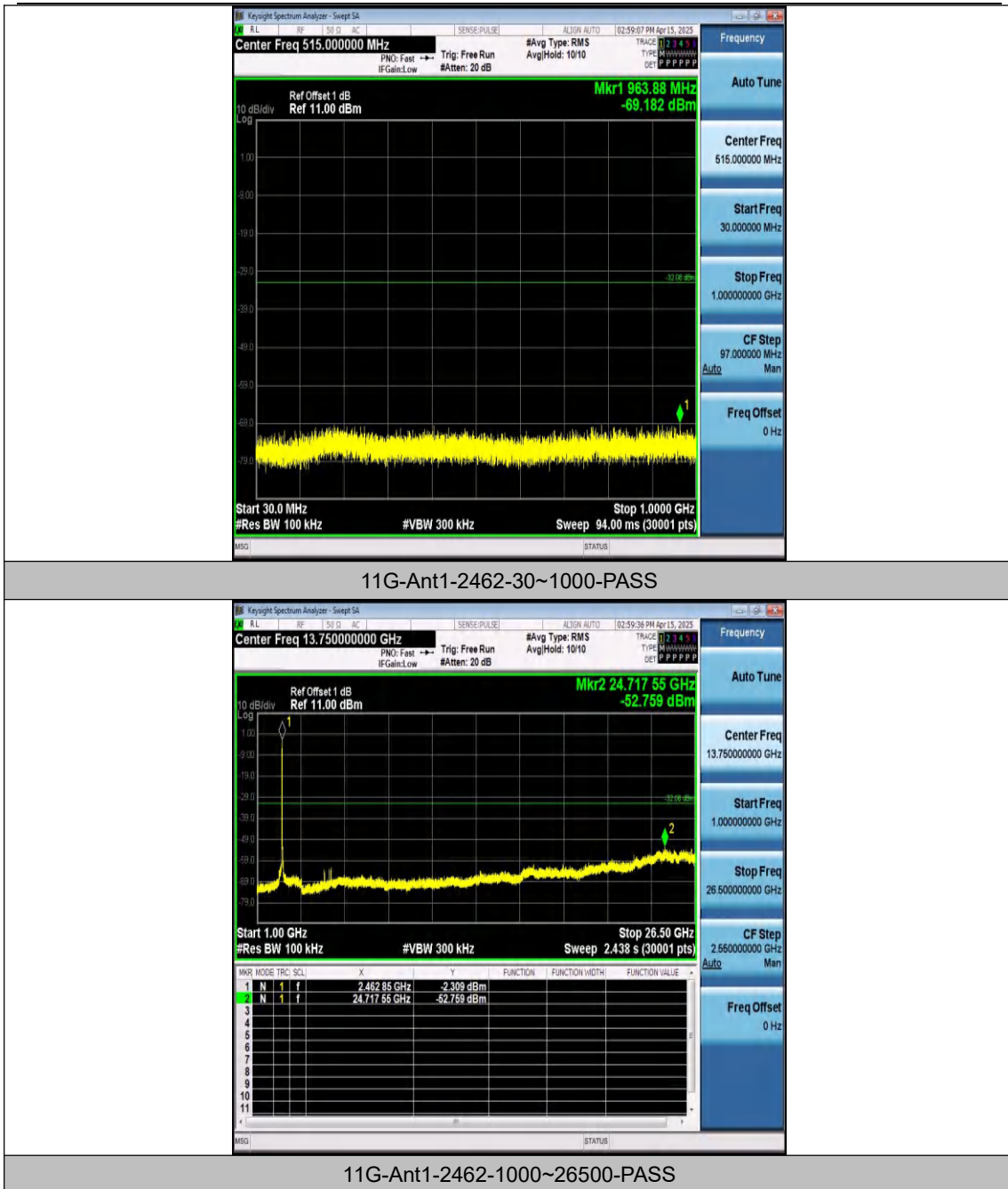


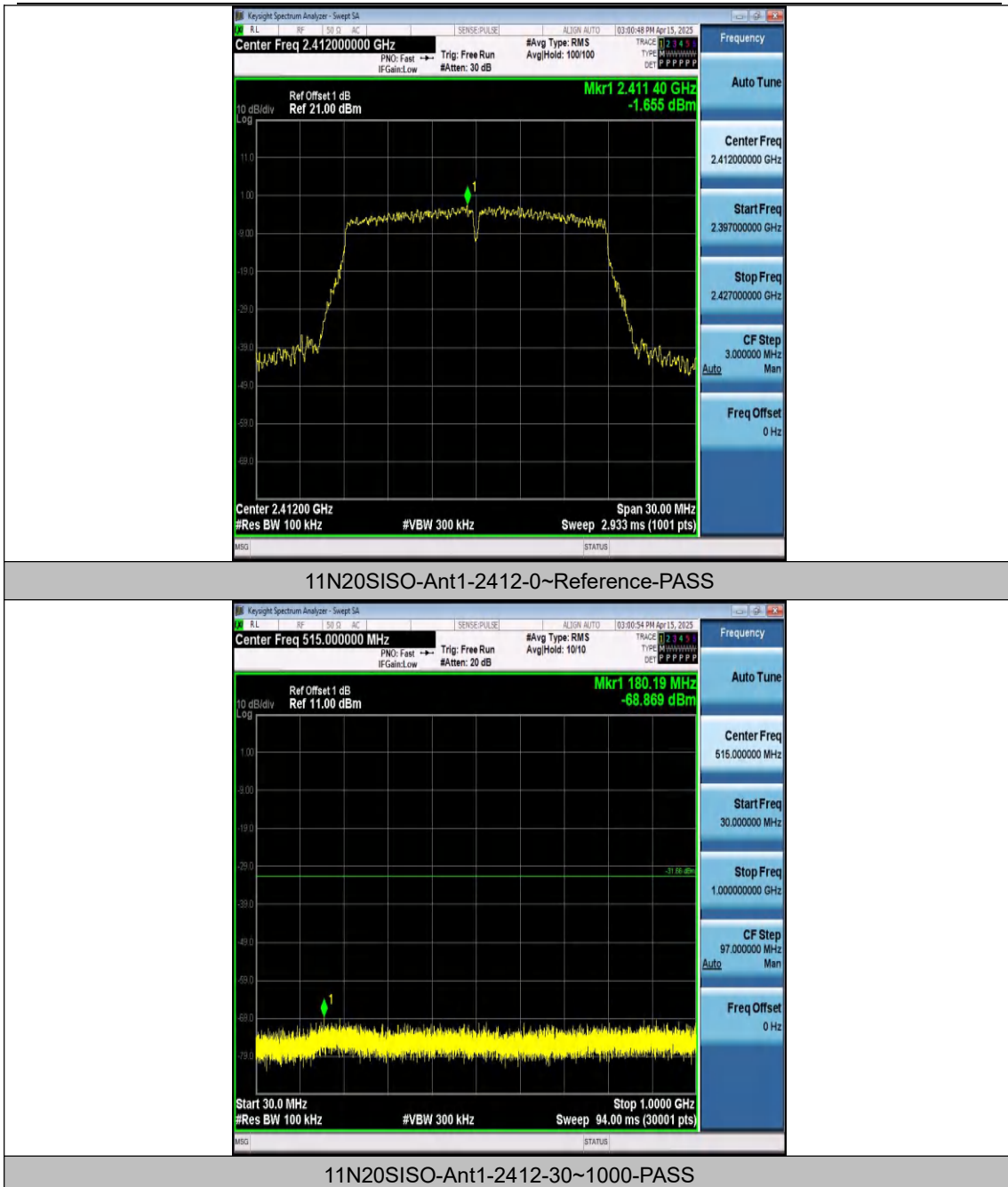
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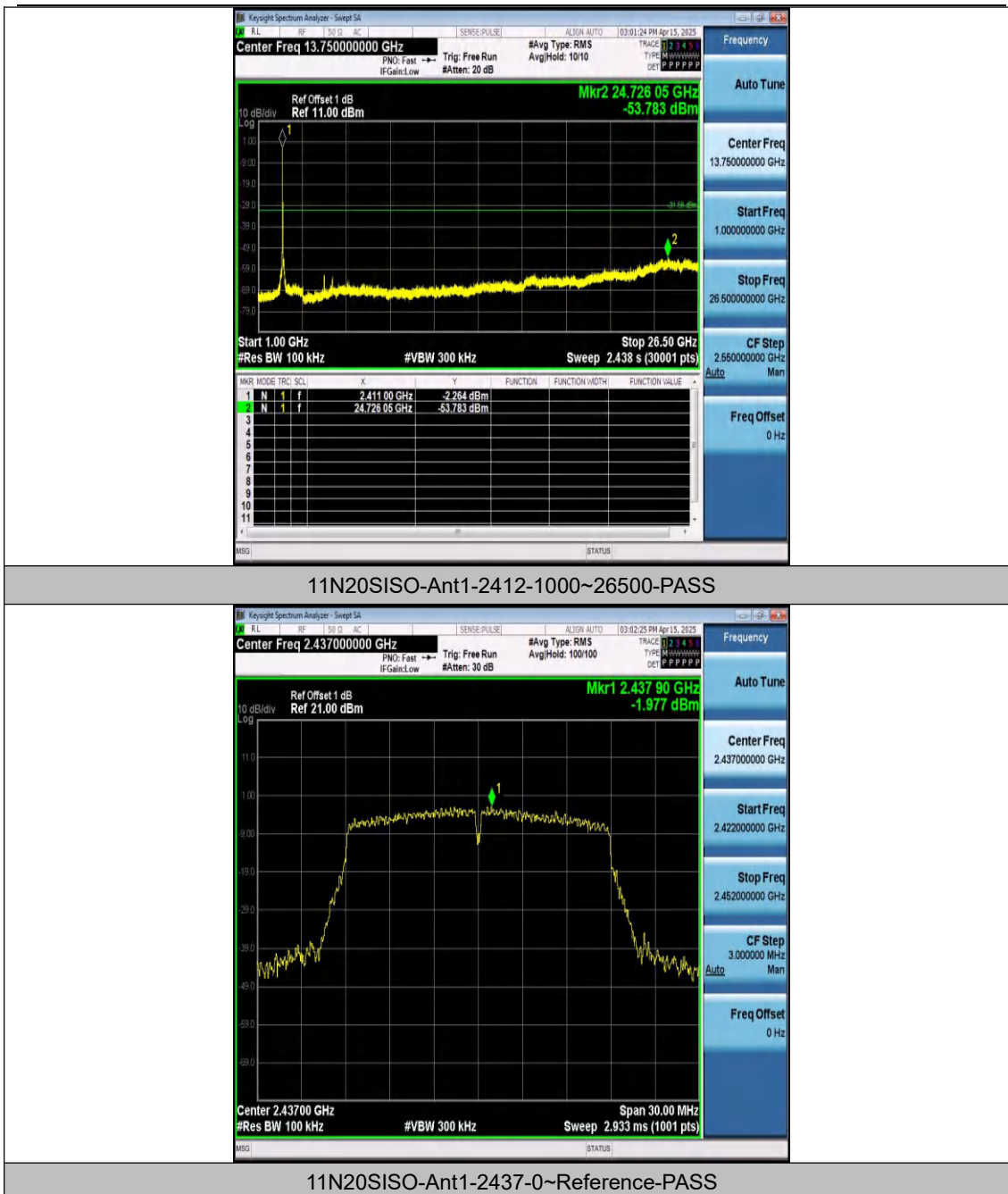


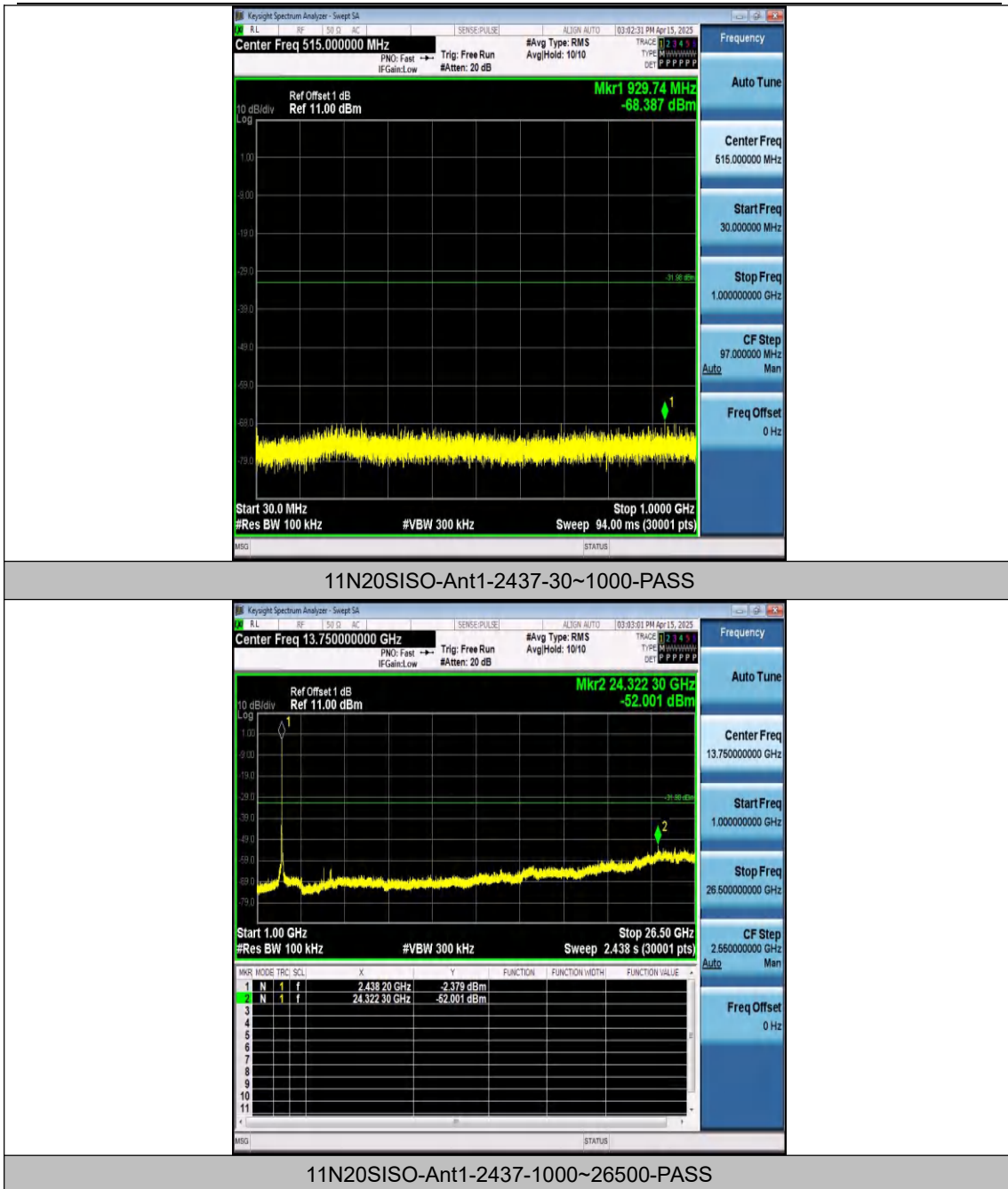


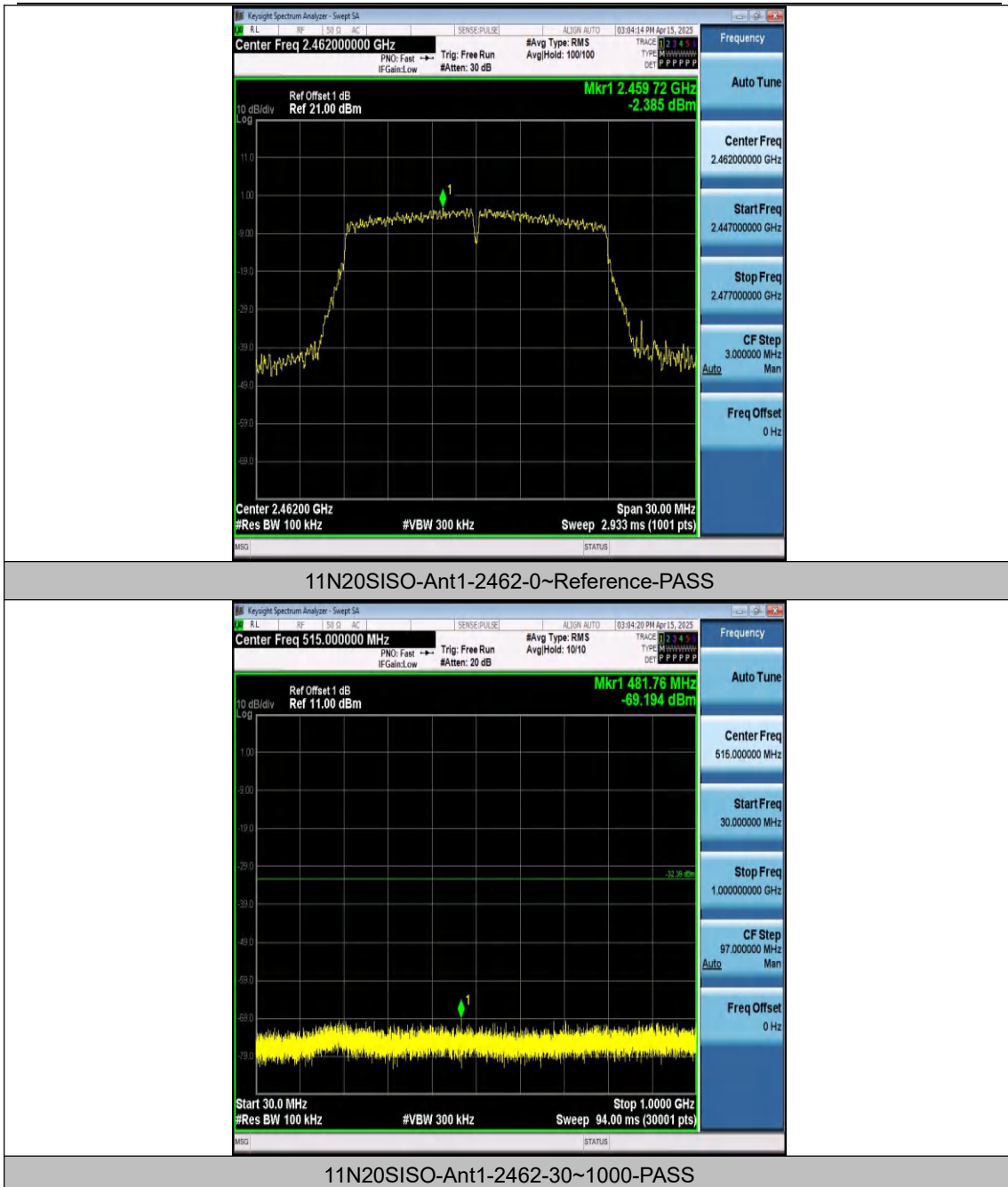


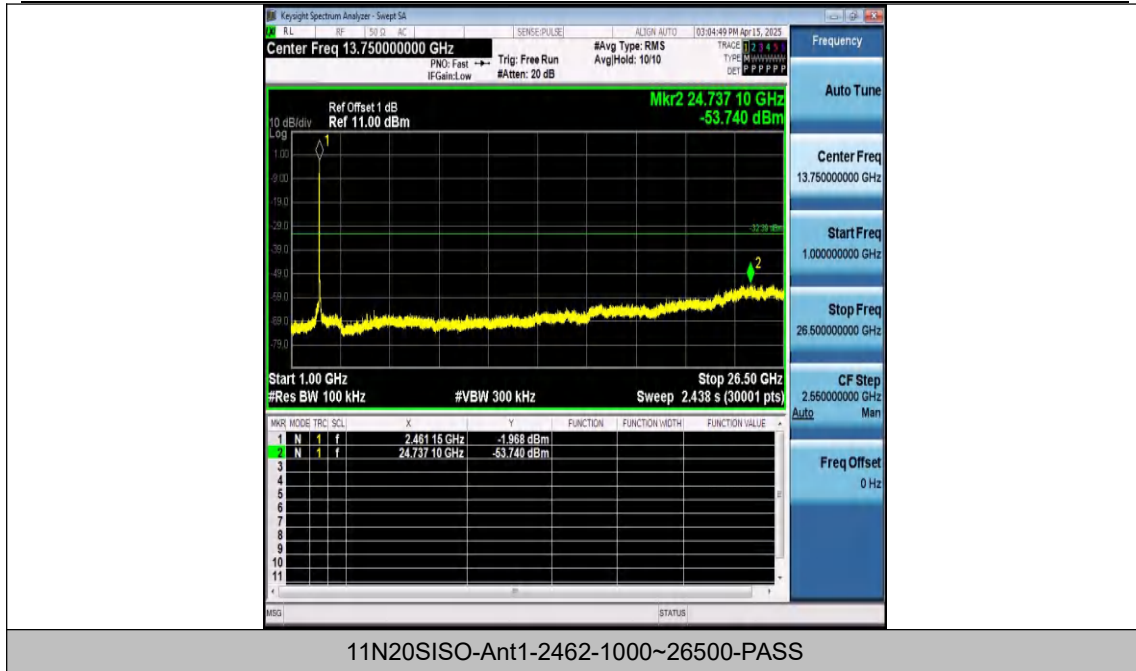












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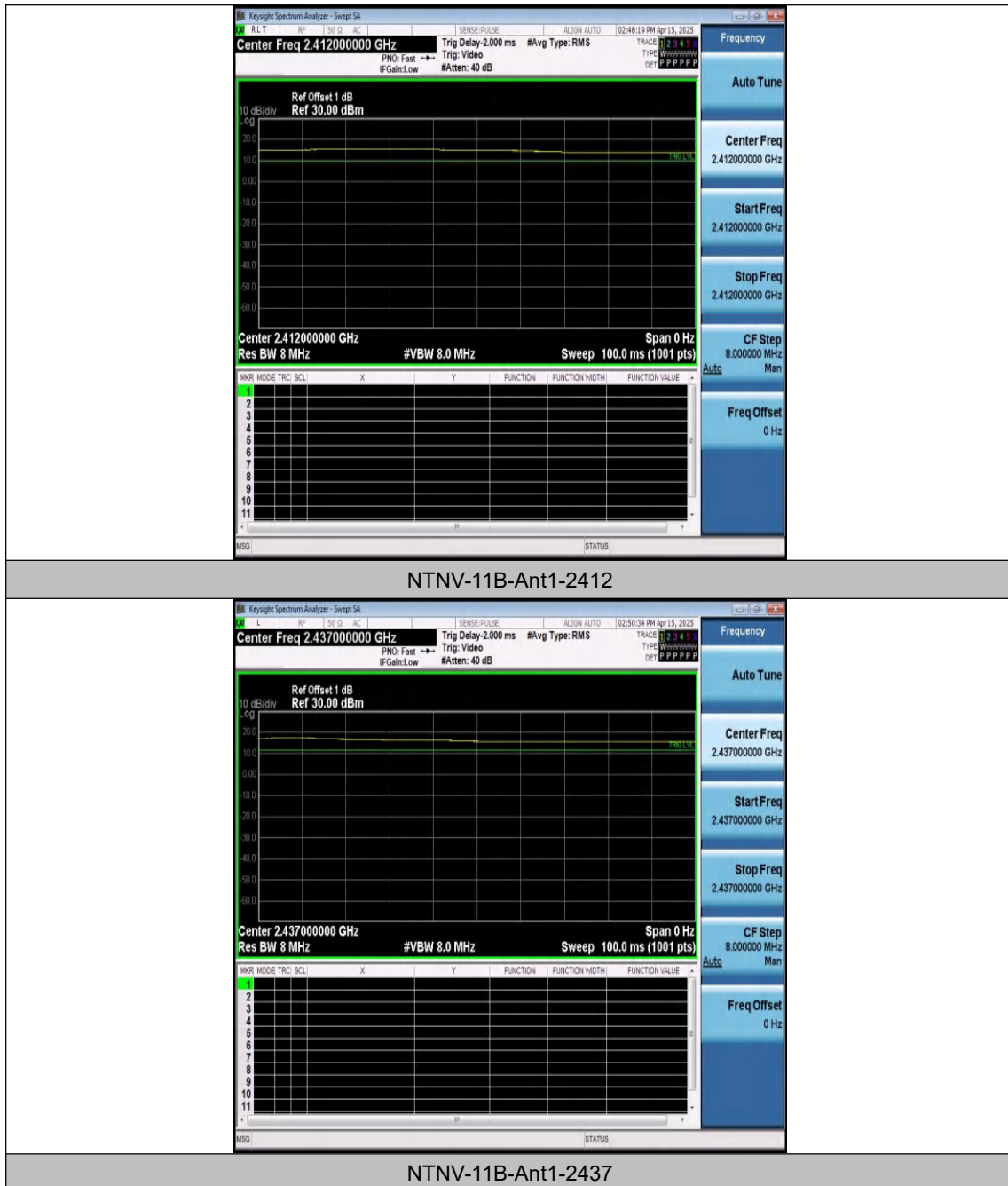
## Appendix G: Duty Cycle

### Test Result

| Test Mode | Antenna | Frequency[MHz] | Transmission Duration [ms] | Transmission Period [ms] | Duty Cycle [%] | Factor |
|-----------|---------|----------------|----------------------------|--------------------------|----------------|--------|
| 11B       | Ant1    | 2412           | 100.00                     | 100.00                   | 100.00         | 0.00   |
| 11B       | Ant1    | 2437           | 100.00                     | 100.00                   | 100.00         | 0.00   |
| 11B       | Ant1    | 2462           | 100.00                     | 100.00                   | 100.00         | 0.00   |
| 11G       | Ant1    | 2412           | 100.00                     | 100.00                   | 100.00         | 0.00   |
| 11G       | Ant1    | 2437           | 100.00                     | 100.00                   | 100.00         | 0.00   |
| 11G       | Ant1    | 2462           | 100.00                     | 100.00                   | 100.00         | 0.00   |
| 11N20SISO | Ant1    | 2412           | 100.00                     | 100.00                   | 100.00         | 0.00   |
| 11N20SISO | Ant1    | 2437           | 100.00                     | 100.00                   | 100.00         | 0.00   |
| 11N20SISO | Ant1    | 2462           | 100.00                     | 100.00                   | 100.00         | 0.00   |



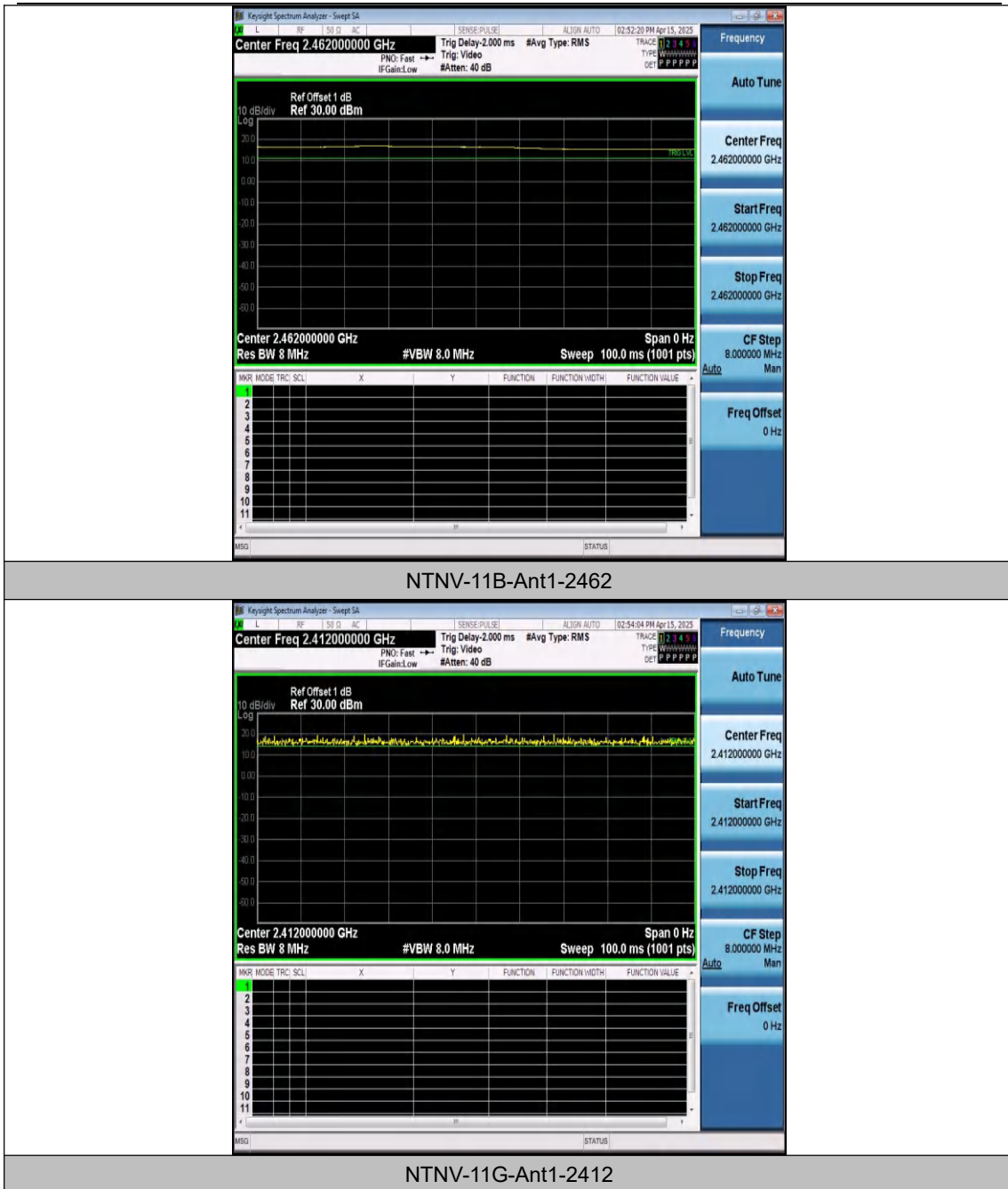
## Test Graphs

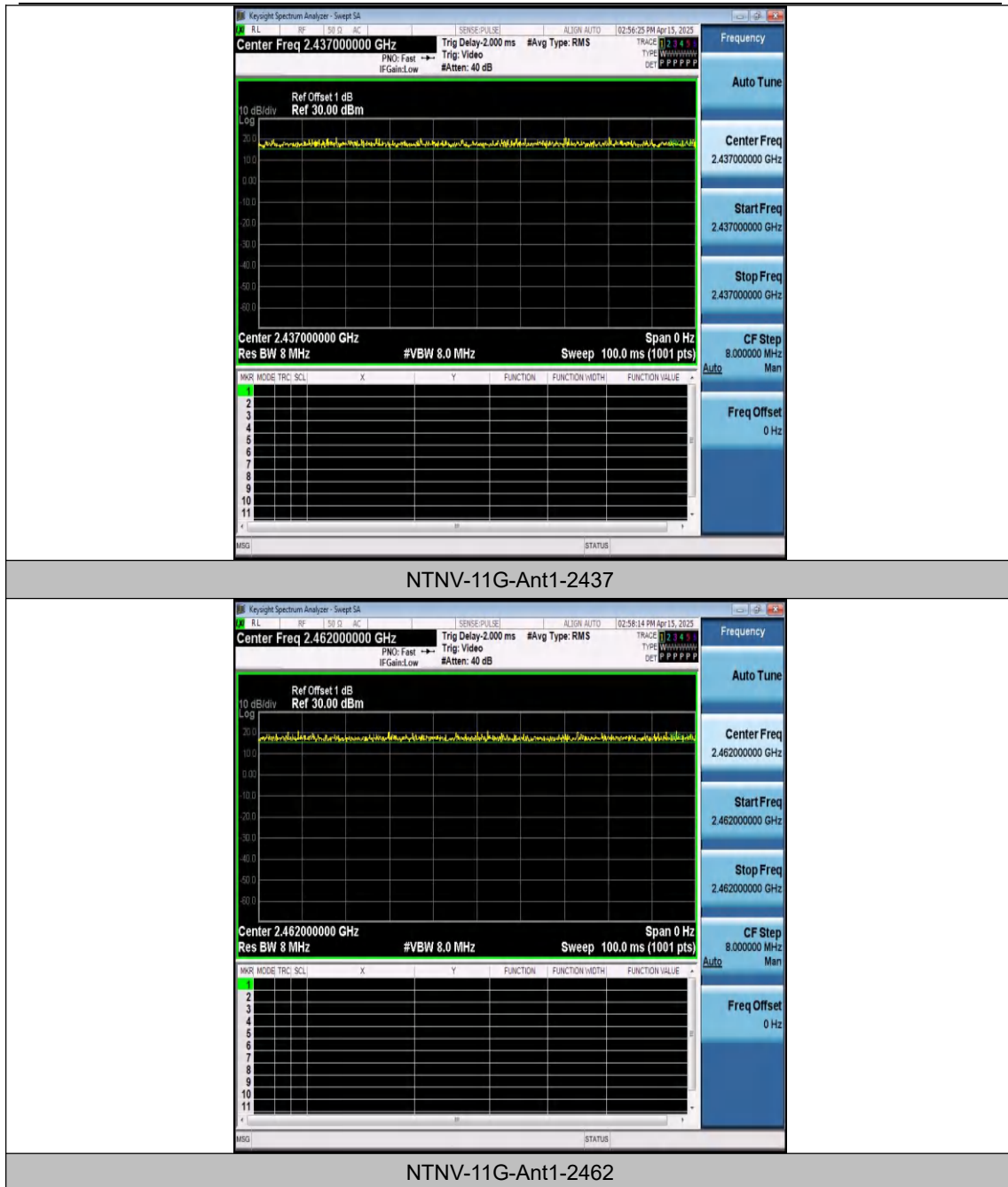


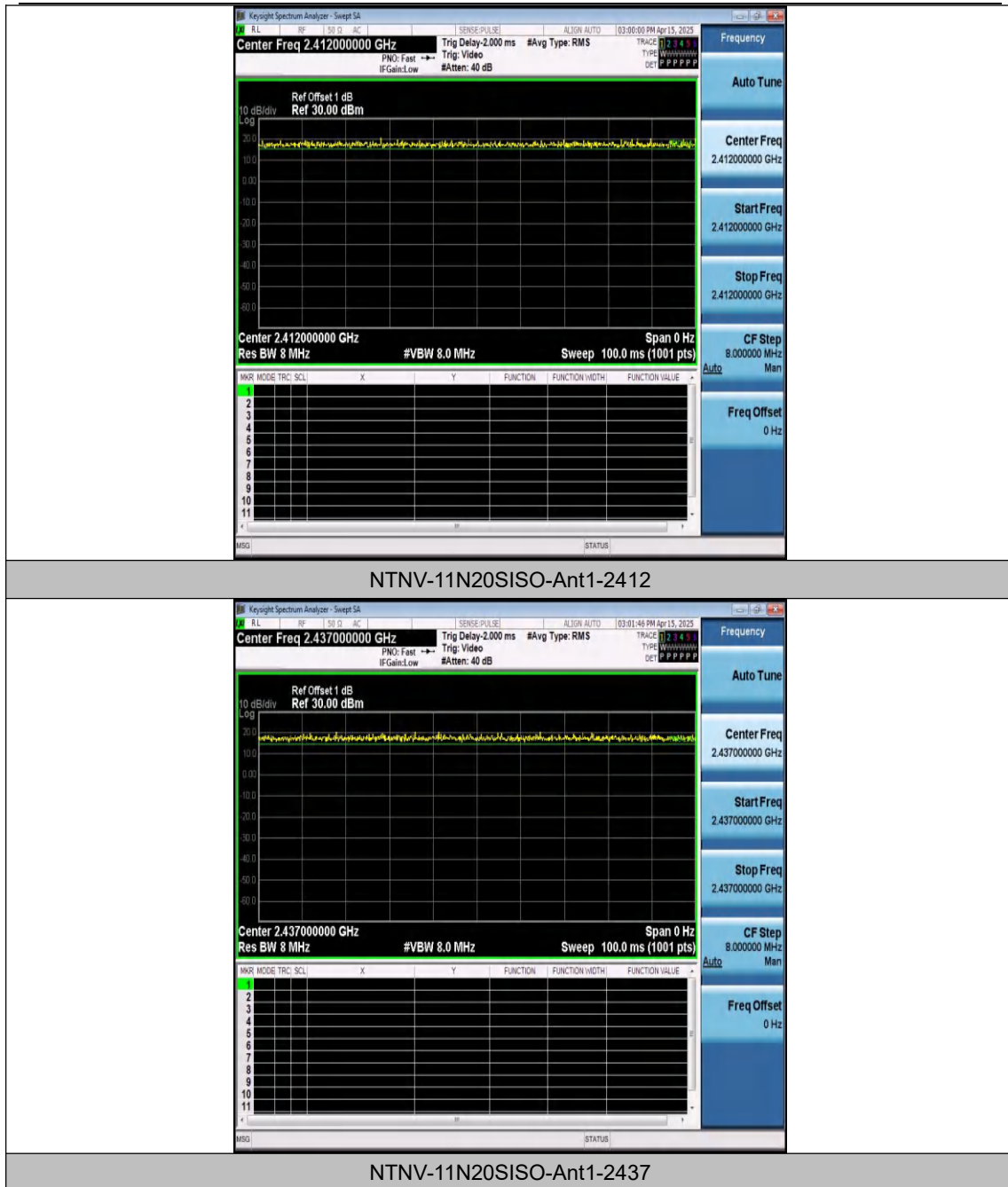
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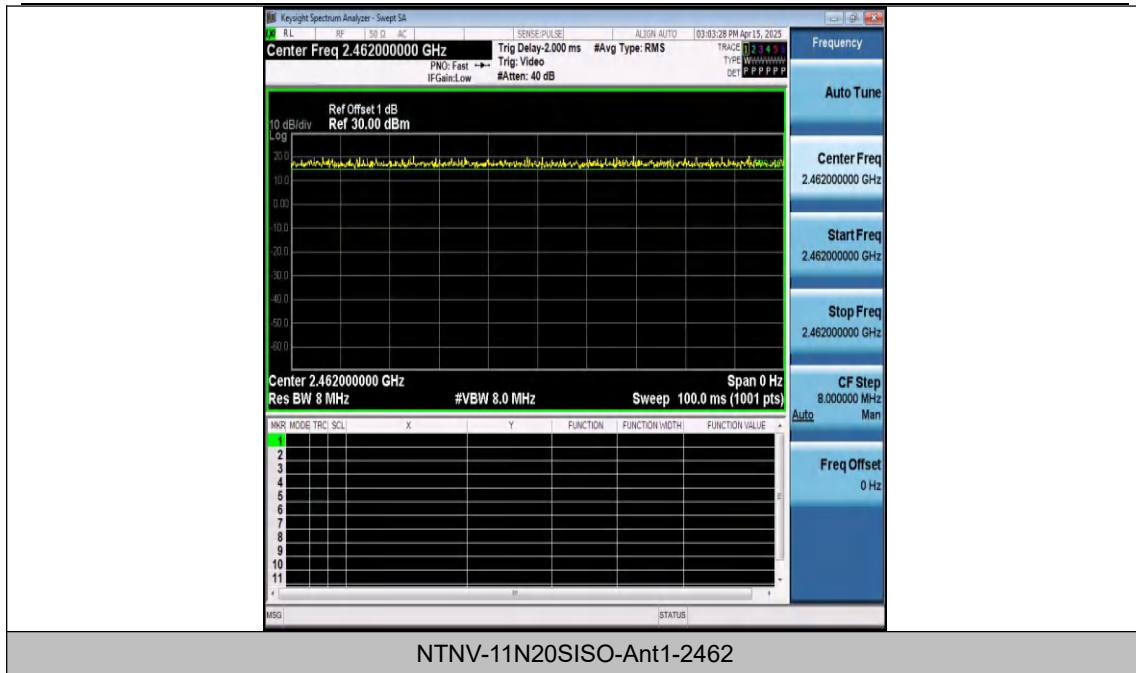


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