

## Appendix Test Data

|                  |                 |                    |            |
|------------------|-----------------|--------------------|------------|
| Report No.:      | 18220WC30249103 | Test Sample No.:   | 1-2-2      |
| Start Test Date: | 2023.12.02      | Finish Test Date:  | 2023.12.04 |
| Test Engineer:   | Hayman Chen     | Auditor:           | Rick Luo   |
| Temperature:     | 25.7°C          | Relative Humidity: | 43%        |
| Pressure:        | 101kPa          |                    |            |

## Appendix A: DTS Bandwidth

## Test Result

| TestMode   | Antenna | Frequency[MHz] | DTS BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|------------|---------|----------------|--------------|----------|----------|------------|---------|
| 11B        | Ant1    | 2412           | 7.040        | 2408.440 | 2415.480 | 0.5        | PASS    |
|            |         | 2437           | 7.040        | 2433.440 | 2440.480 | 0.5        | PASS    |
|            |         | 2462           | 8.040        | 2457.960 | 2466.000 | 0.5        | PASS    |
| 11G        | Ant1    | 2412           | 16.280       | 2403.840 | 2420.120 | 0.5        | PASS    |
|            |         | 2437           | 16.320       | 2428.840 | 2445.160 | 0.5        | PASS    |
|            |         | 2462           | 16.360       | 2453.800 | 2470.160 | 0.5        | PASS    |
| 11N20SISO  | Ant1    | 2412           | 17.560       | 2403.200 | 2420.760 | 0.5        | PASS    |
|            |         | 2437           | 17.320       | 2428.440 | 2445.760 | 0.5        | PASS    |
|            |         | 2462           | 17.160       | 2453.600 | 2470.760 | 0.5        | PASS    |
| 11AX20SISO | Ant1    | 2412           | 17.760       | 2403.360 | 2421.120 | 0.5        | PASS    |
|            |         | 2437           | 18.560       | 2427.880 | 2446.440 | 0.5        | PASS    |
|            |         | 2462           | 17.720       | 2453.640 | 2471.360 | 0.5        | PASS    |



## Test Graphs

11B\_Ant1\_2412



11B\_Ant1\_2437



11B\_Ant1\_2462

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11G\_Ant1\_2412



11G\_Ant1\_2437

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11G\_Ant1\_2462



11N20SISO\_Ant1\_2412

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11N20SISO\_Ant1\_2437



11N20SISO\_Ant1\_2462

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11AX20SISO\_Ant1\_2412



11AX20SISO\_Ant1\_2437

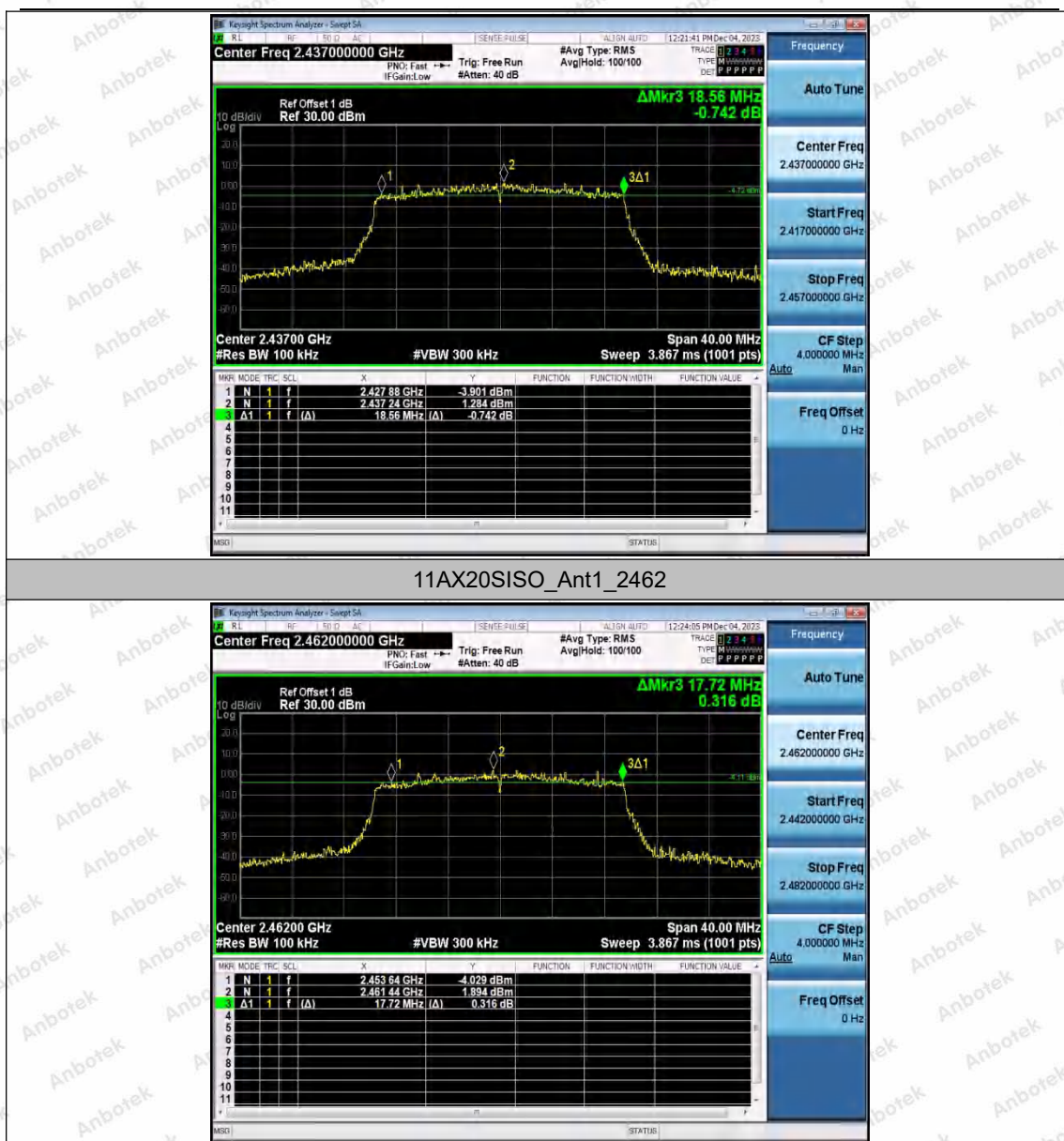
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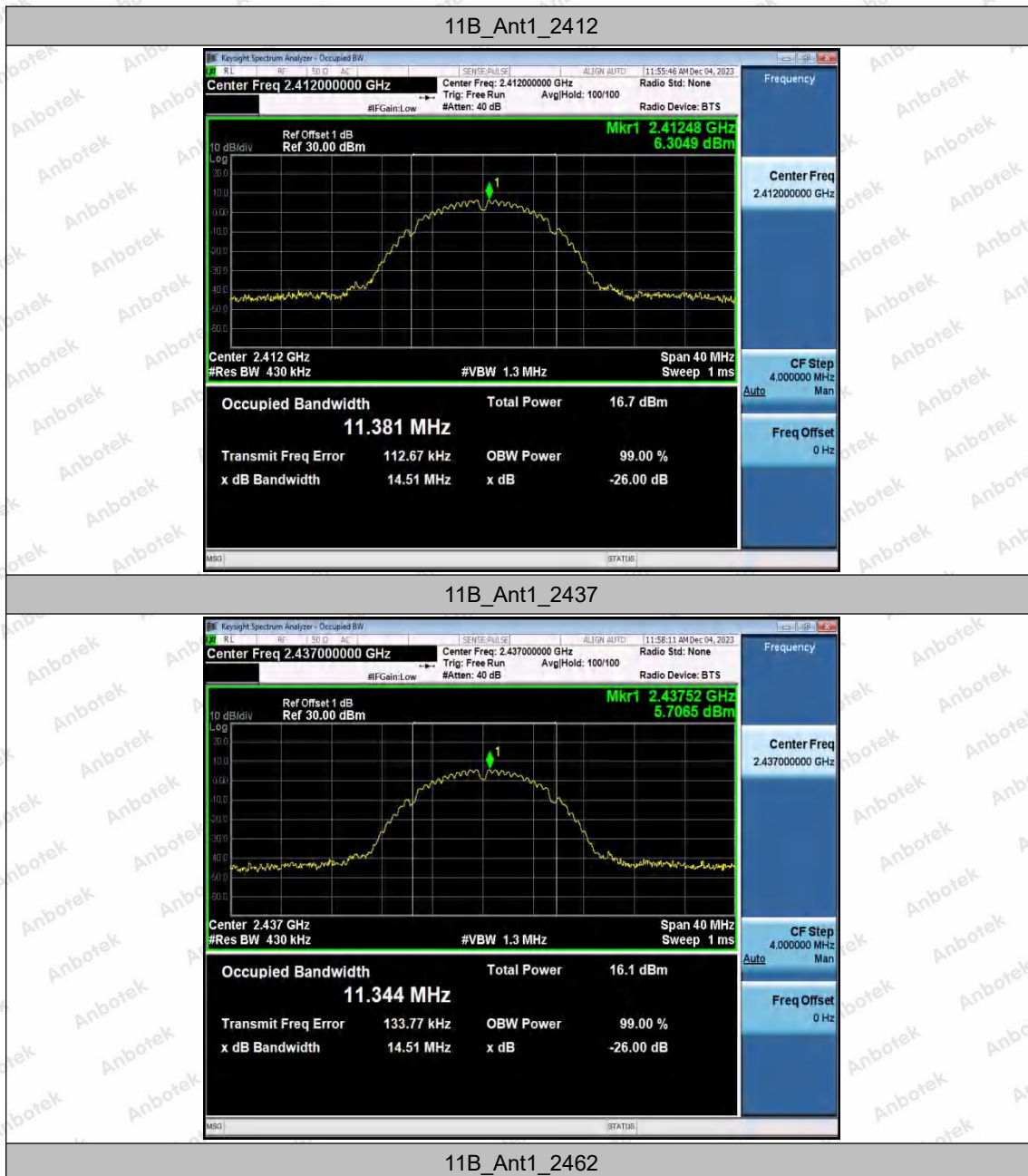
## Appendix B: Occupied Channel Bandwidth

### Test Result

| TestMode   | Antenna | Channel Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|------------|---------|------------------------|-----------|-----------|-----------|------------|---------|
| 11B        | Ant1    | 2412                   | 11.381    | 2406.4222 | 2417.8032 | ---        | ---     |
|            |         | 2437                   | 11.344    | 2431.4618 | 2442.8058 | ---        | ---     |
|            |         | 2462                   | 11.433    | 2456.4298 | 2467.8628 | ---        | ---     |
| 11G        | Ant1    | 2412                   | 17.154    | 2403.4738 | 2420.6278 | ---        | ---     |
|            |         | 2437                   | 17.083    | 2428.4864 | 2445.5694 | ---        | ---     |
|            |         | 2462                   | 17.066    | 2453.5231 | 2470.5891 | ---        | ---     |
| 11N20SISO  | Ant1    | 2412                   | 18.103    | 2402.9924 | 2421.0954 | ---        | ---     |
|            |         | 2437                   | 18.197    | 2427.9838 | 2446.1808 | ---        | ---     |
|            |         | 2462                   | 18.152    | 2452.9956 | 2471.1476 | ---        | ---     |
| 11AX20SISO | Ant1    | 2412                   | 18.957    | 2402.5452 | 2421.5022 | ---        | ---     |
|            |         | 2437                   | 18.987    | 2427.5093 | 2446.4963 | ---        | ---     |
|            |         | 2462                   | 19.001    | 2452.5565 | 2471.5575 | ---        | ---     |



## Test Graphs



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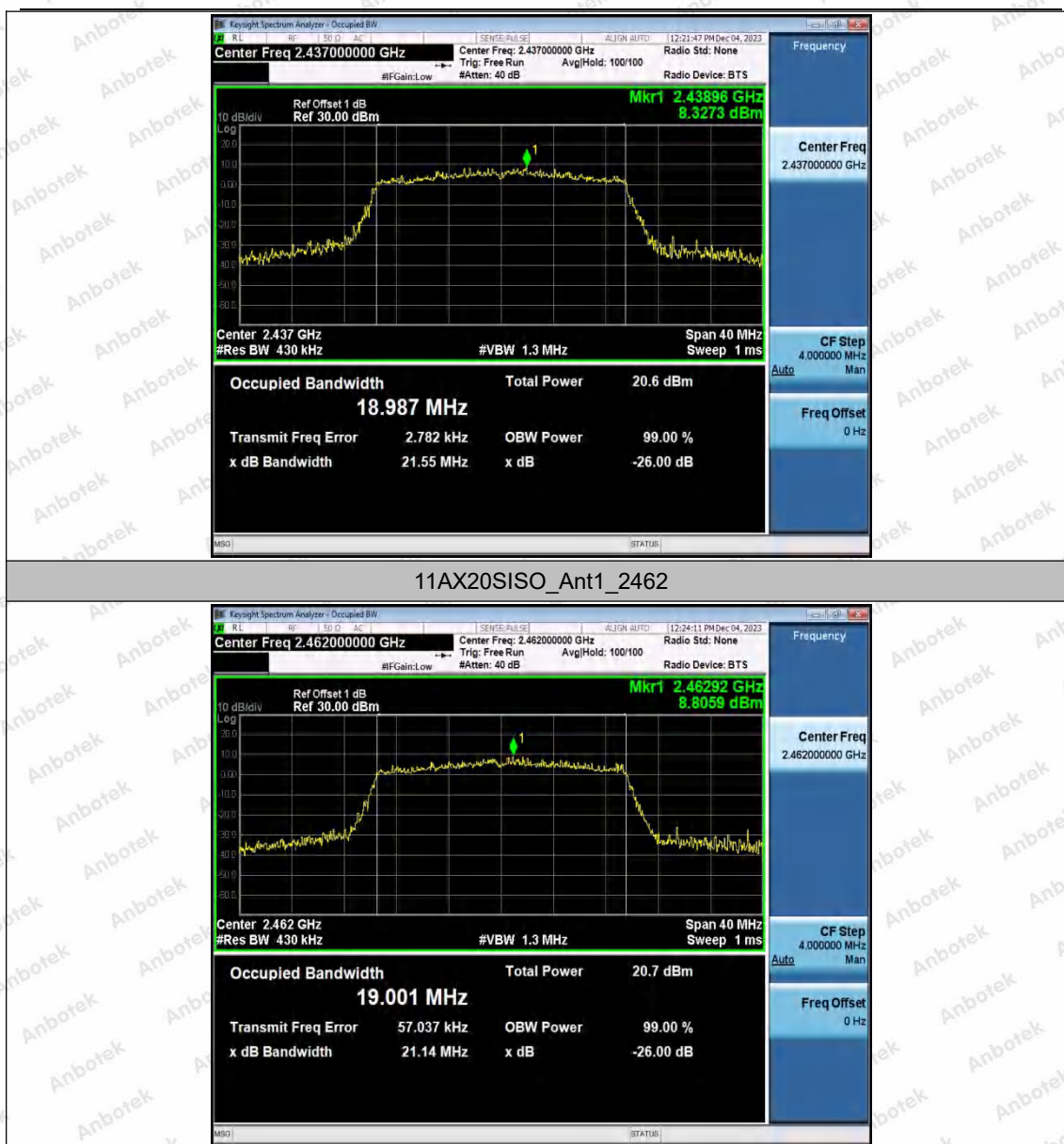
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## Appendix C: Maximum conducted output power

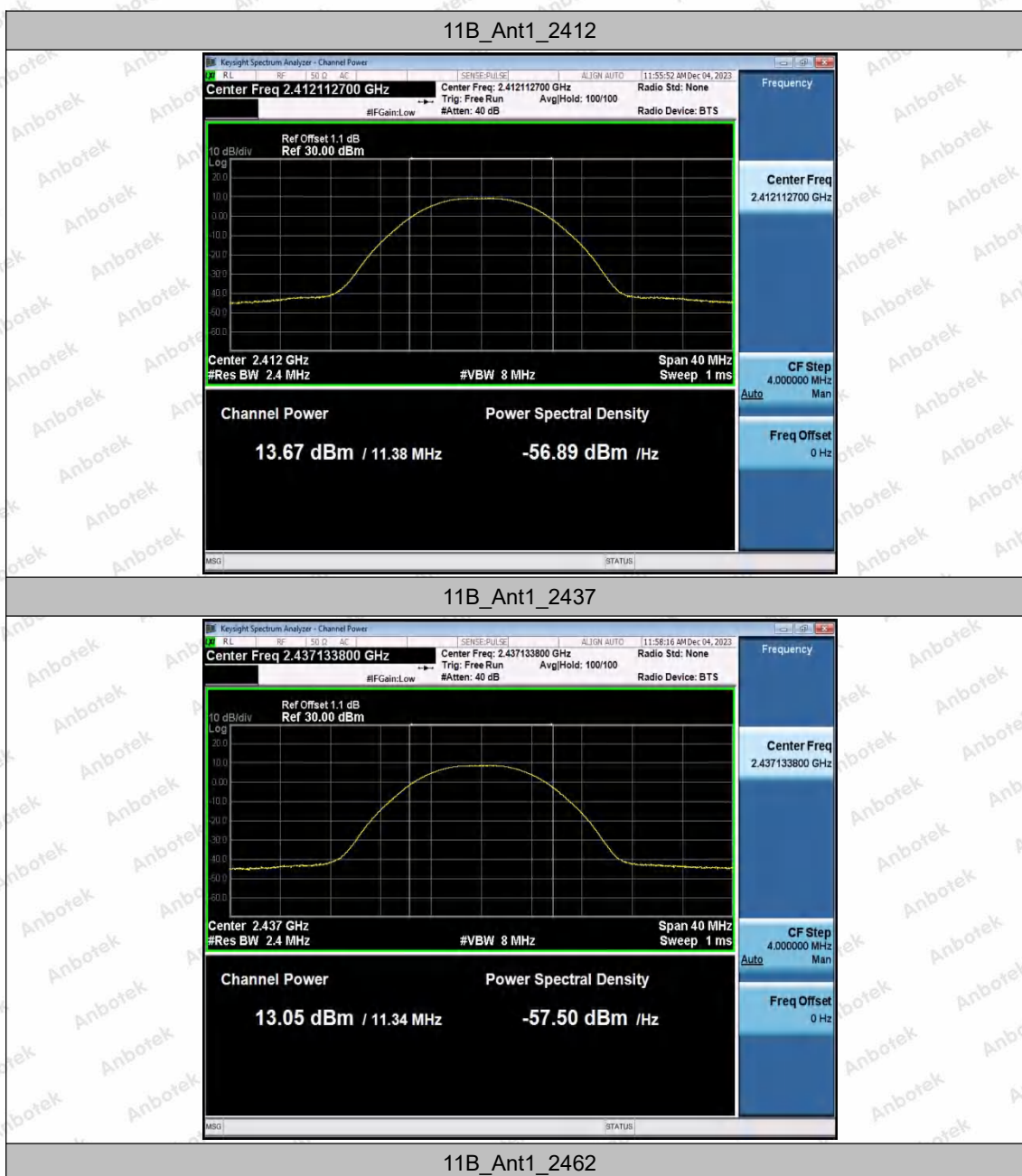
### Test Result

| TestMode   | Antenna | Frequency[MHz] | Average Output Power[dBm] | Conducted Limit[dBm] |
|------------|---------|----------------|---------------------------|----------------------|
| 11B        | Ant1    | 2412           | 13.67                     | ≤30.00               |
|            |         | 2437           | 13.05                     | ≤30.00               |
|            |         | 2462           | 13.10                     | ≤30.00               |
| 11G        | Ant1    | 2412           | 13.00                     | ≤30.00               |
|            |         | 2437           | 13.53                     | ≤30.00               |
|            |         | 2462           | 13.03                     | ≤30.00               |
| 11N20SISO  | Ant1    | 2412           | 13.72                     | ≤30.00               |
|            |         | 2437           | 13.20                     | ≤30.00               |
|            |         | 2462           | 13.09                     | ≤30.00               |
| 11AX20SISO | Ant1    | 2412           | <b>14.18</b>              | ≤30.00               |
|            |         | 2437           | 13.34                     | ≤30.00               |
|            |         | 2462           | 13.42                     | ≤30.00               |

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



## Test Graphs



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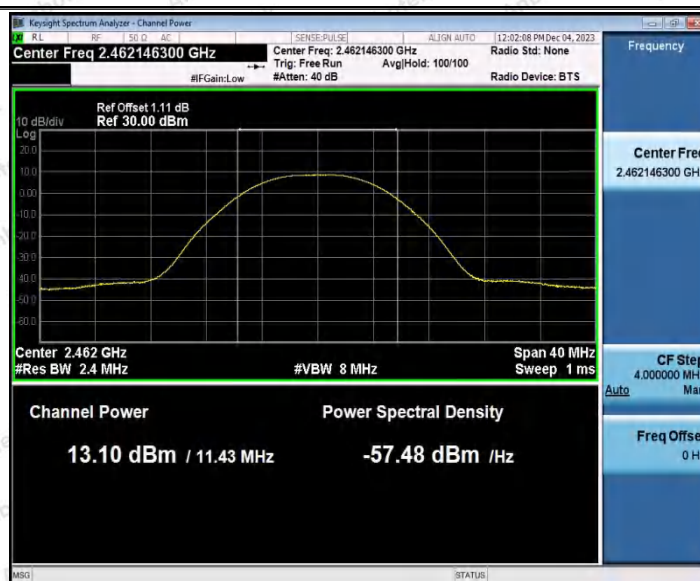


Hotline

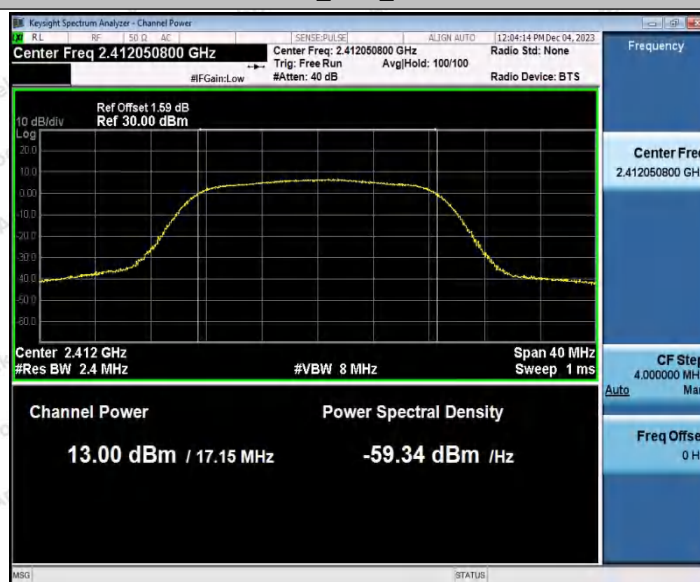
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11G\_Ant1\_2412



11G\_Ant1\_2437

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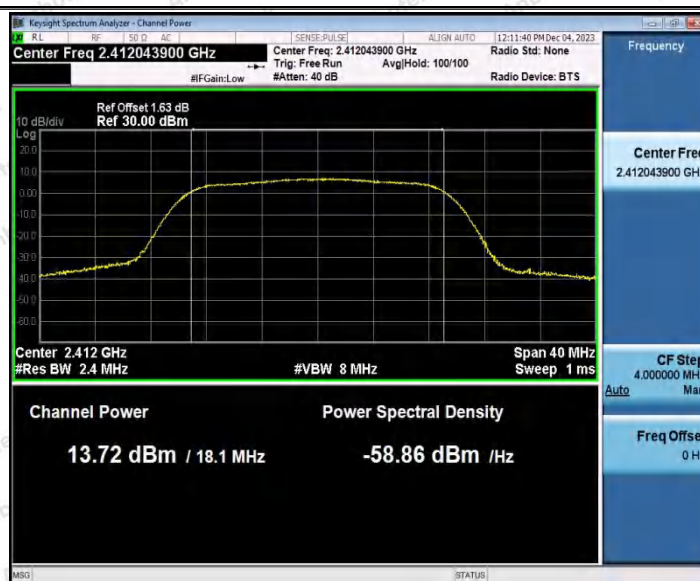
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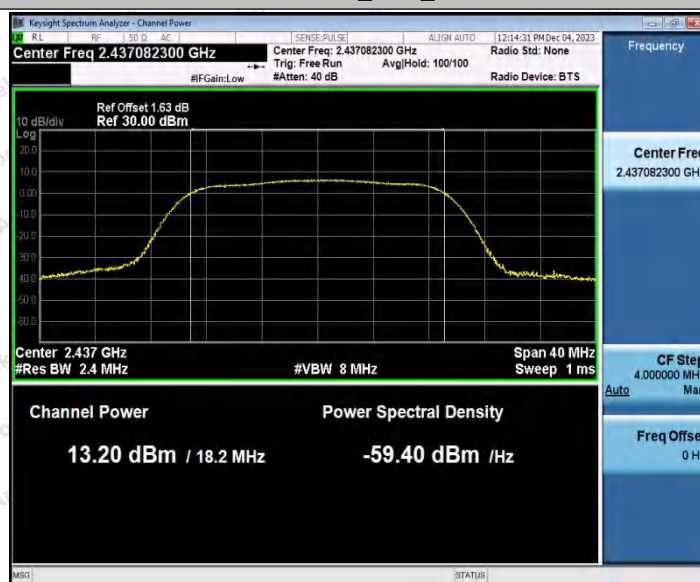


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11N20SISO\_Ant1\_2437



11N20SISO\_Ant1\_2462

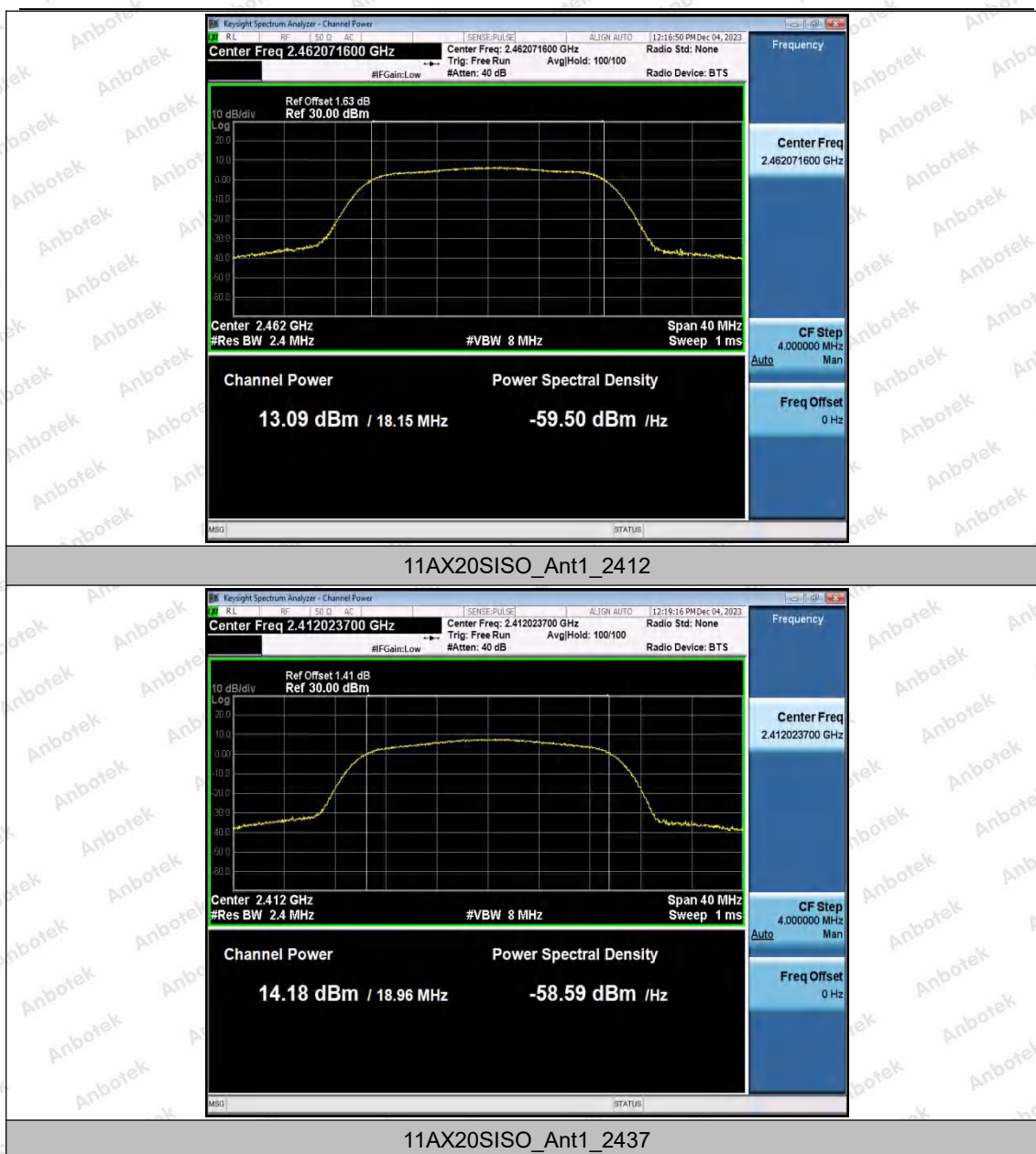
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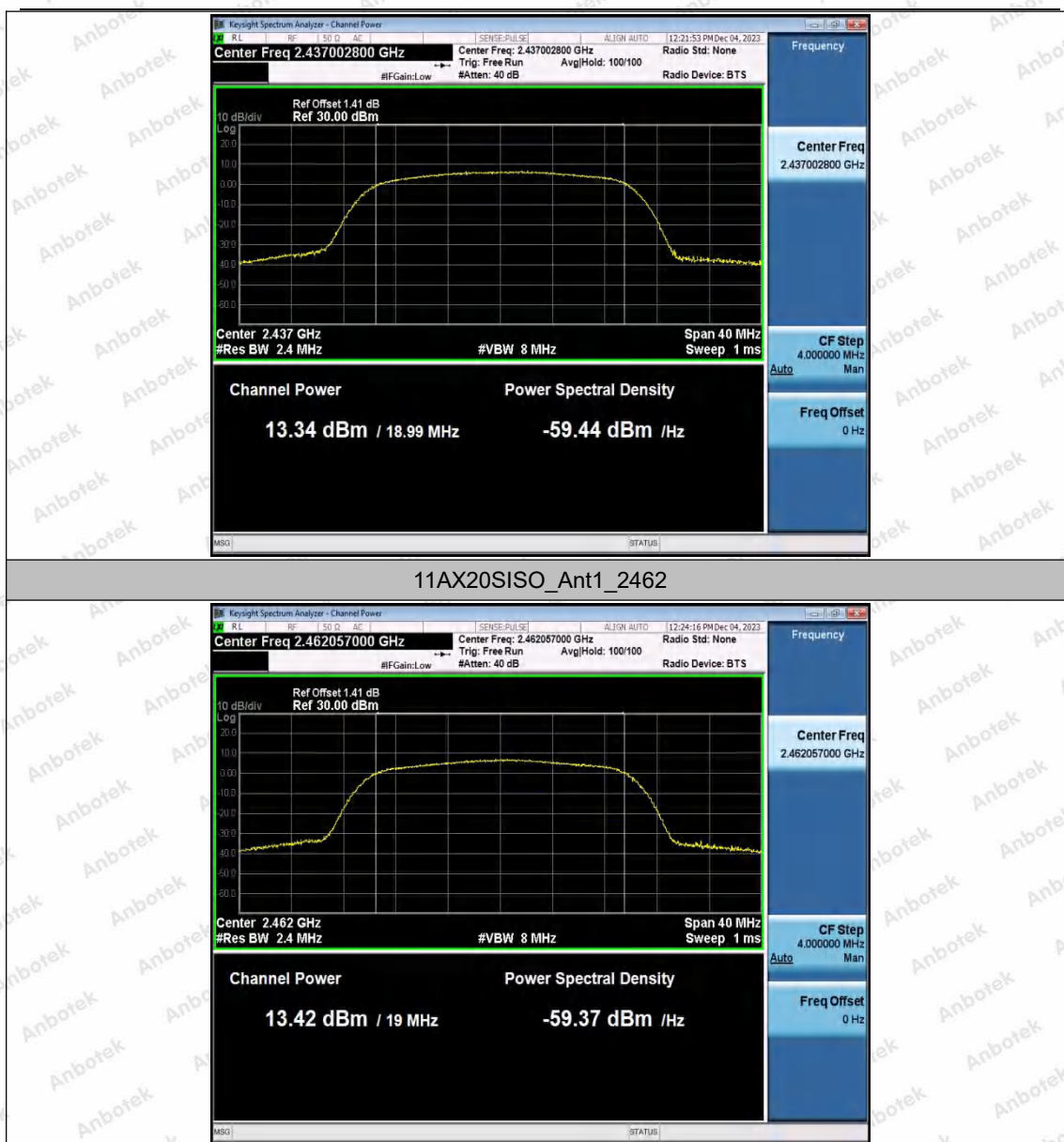
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## Maximum conducted output power

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## Appendix D: Maximum power spectral density

### Test Result

| TestMode   | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|------------|---------|----------------|------------------|-----------------|---------|
| 11B        | Ant1    | 2412           | -15.42           | ≤8.00           | PASS    |
|            |         | 2437           | -15.51           | ≤8.00           | PASS    |
|            |         | 2462           | -15.31           | ≤8.00           | PASS    |
| 11G        | Ant1    | 2412           | -16.87           | ≤8.00           | PASS    |
|            |         | 2437           | -17.51           | ≤8.00           | PASS    |
|            |         | 2462           | -15.97           | ≤8.00           | PASS    |
| 11N20SISO  | Ant1    | 2412           | -17.12           | ≤8.00           | PASS    |
|            |         | 2437           | -17.44           | ≤8.00           | PASS    |
|            |         | 2462           | -17.8            | ≤8.00           | PASS    |
| 11AX20SISO | Ant1    | 2412           | -18.19           | ≤8.00           | PASS    |
|            |         | 2437           | -16.91           | ≤8.00           | PASS    |
|            |         | 2462           | -18.28           | ≤8.00           | PASS    |



## Test Graphs

11B\_Ant1\_2412



11B\_Ant1\_2437



11B\_Ant1\_2462





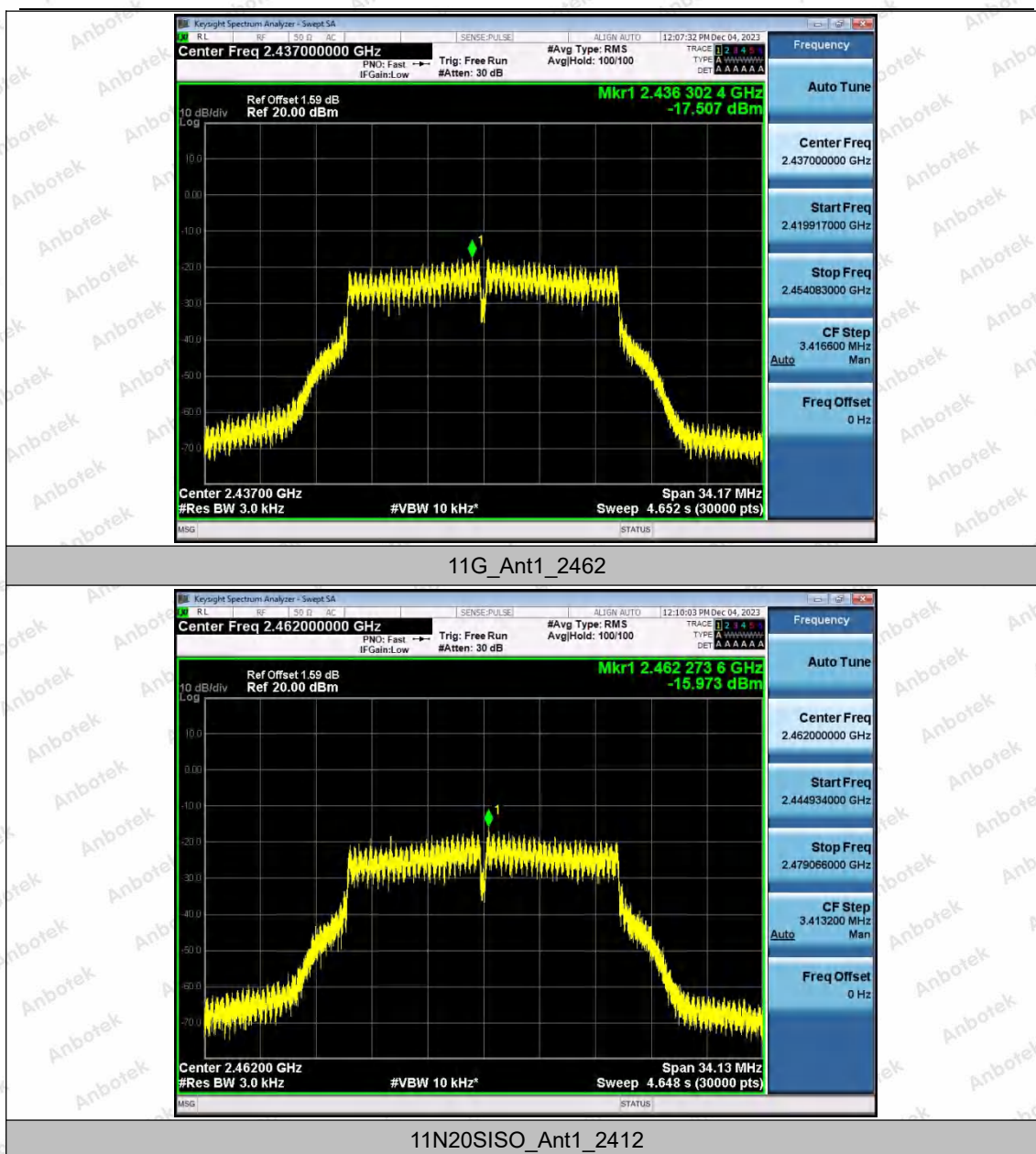
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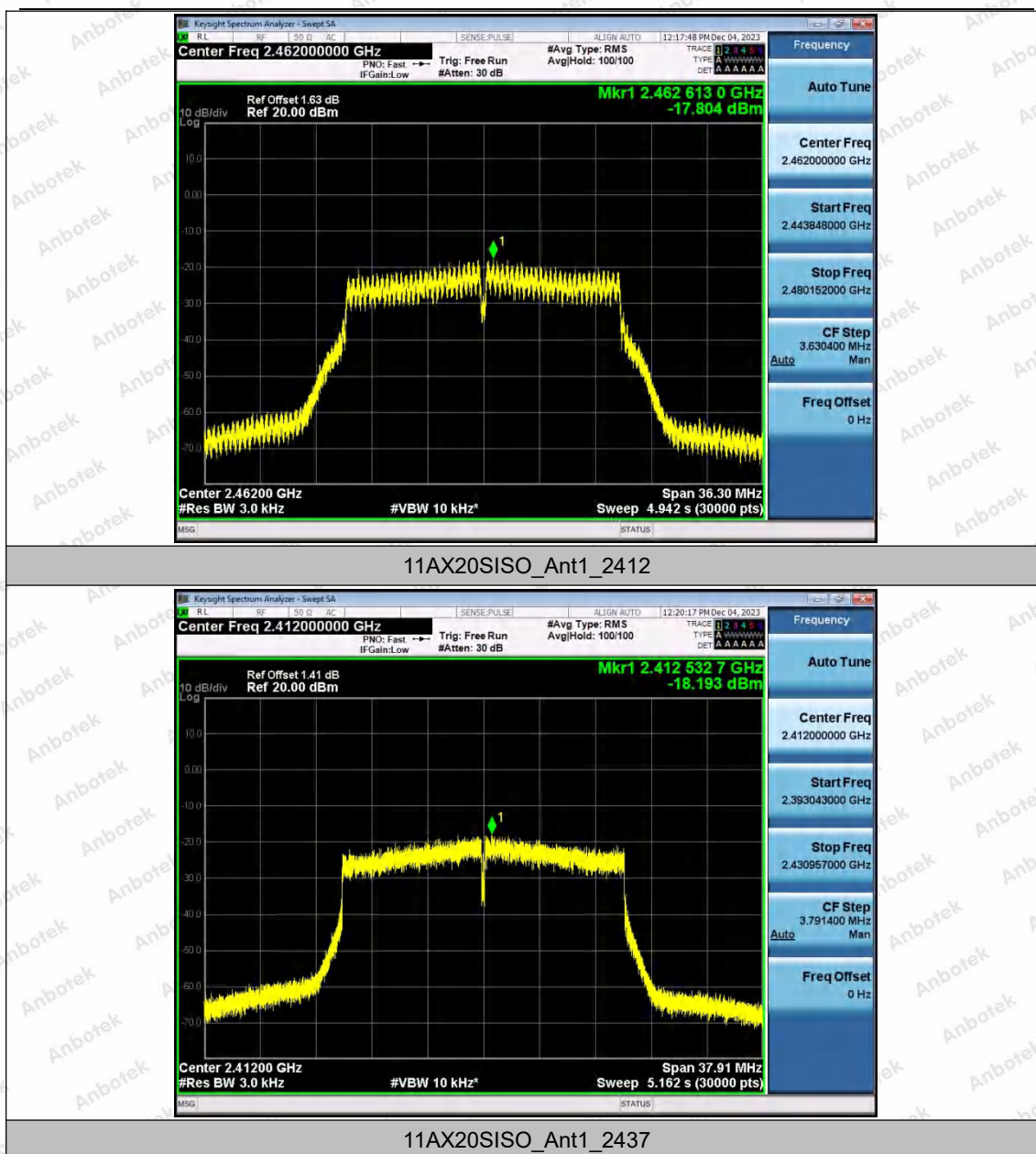
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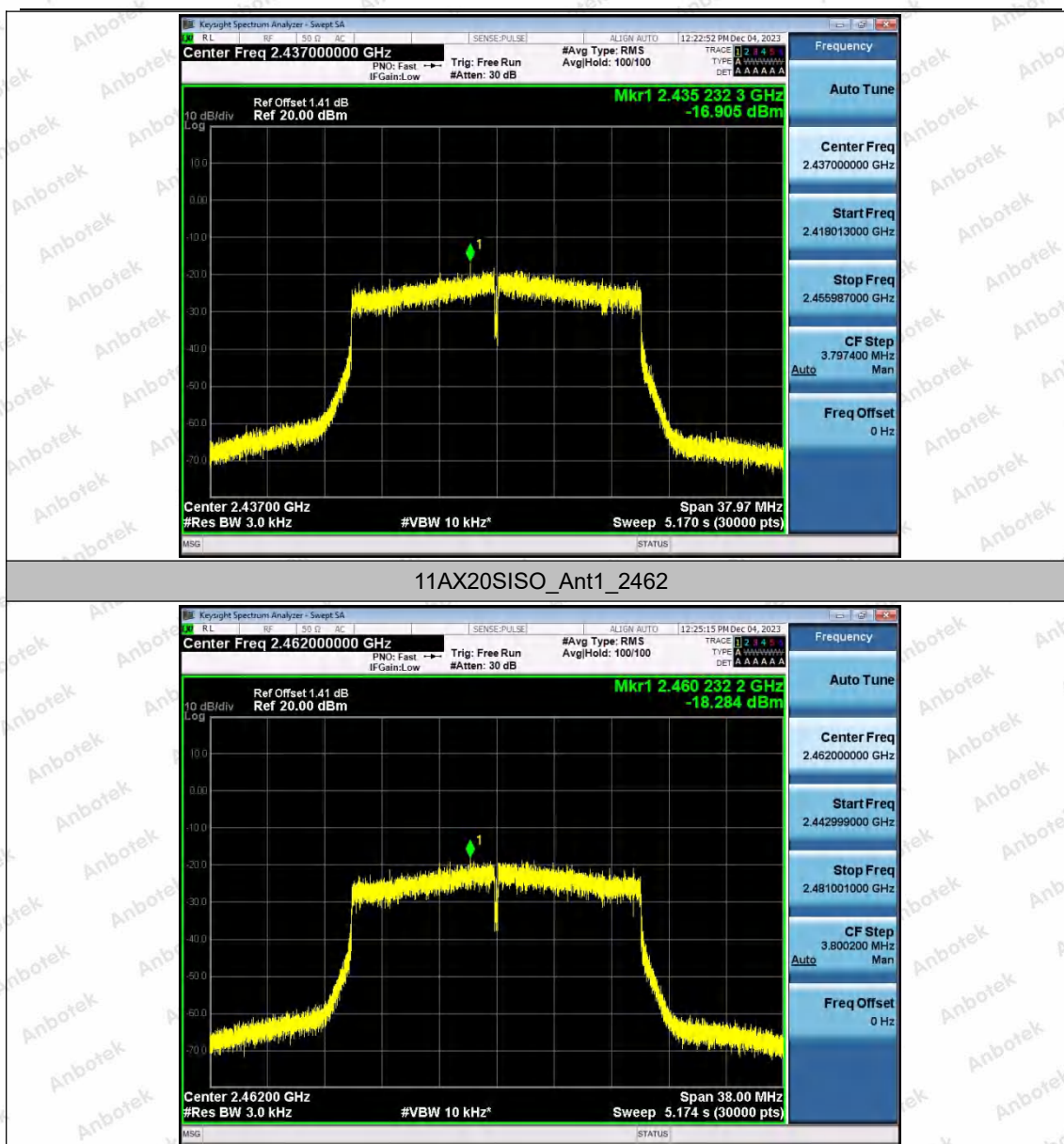
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## Appendix E: Band edge measurements

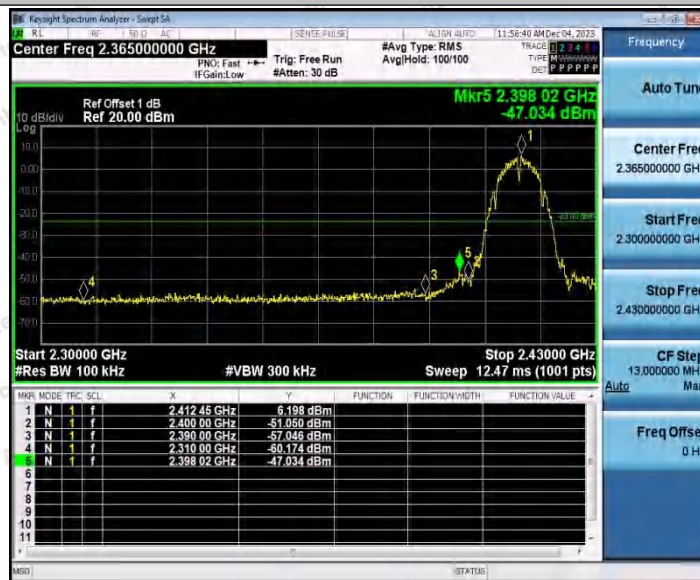
### Test Result

| TestMode   | Antenna | Channel Name | Frequency[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|------------|---------|--------------|----------------|---------------|-------------|------------|---------|
| 11B        | Ant1    | Low          | 2412           | 6.20          | -47.03      | ≤-23.8     | PASS    |
|            |         | High         | 2462           | 5.68          | -49.5       | ≤-24.32    | PASS    |
| 11G        | Ant1    | Low          | 2412           | 0.01          | -38.02      | ≤-29.99    | PASS    |
|            |         | High         | 2462           | 1.31          | -42.97      | ≤-28.69    | PASS    |
| 11N20SISO  | Ant1    | Low          | 2412           | 0.73          | -34.51      | ≤-29.28    | PASS    |
|            |         | High         | 2462           | 1.49          | -41.71      | ≤-28.51    | PASS    |
| 11AX20SISO | Ant1    | Low          | 2412           | 1.77          | -33.43      | ≤-28.23    | PASS    |
|            |         | High         | 2462           | 1.79          | -43.27      | ≤-28.21    | PASS    |

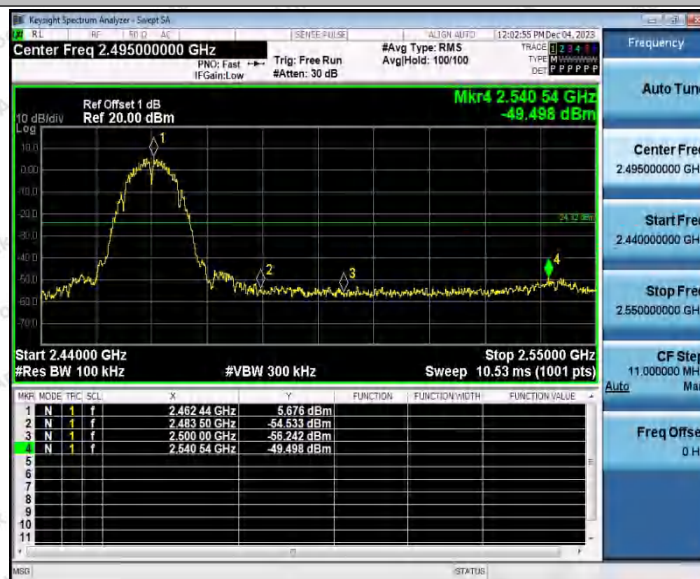


## Test Graphs

11B\_Ant1\_Low\_2412



11B\_Ant1\_High\_2462



11G\_Ant1\_Low\_2412

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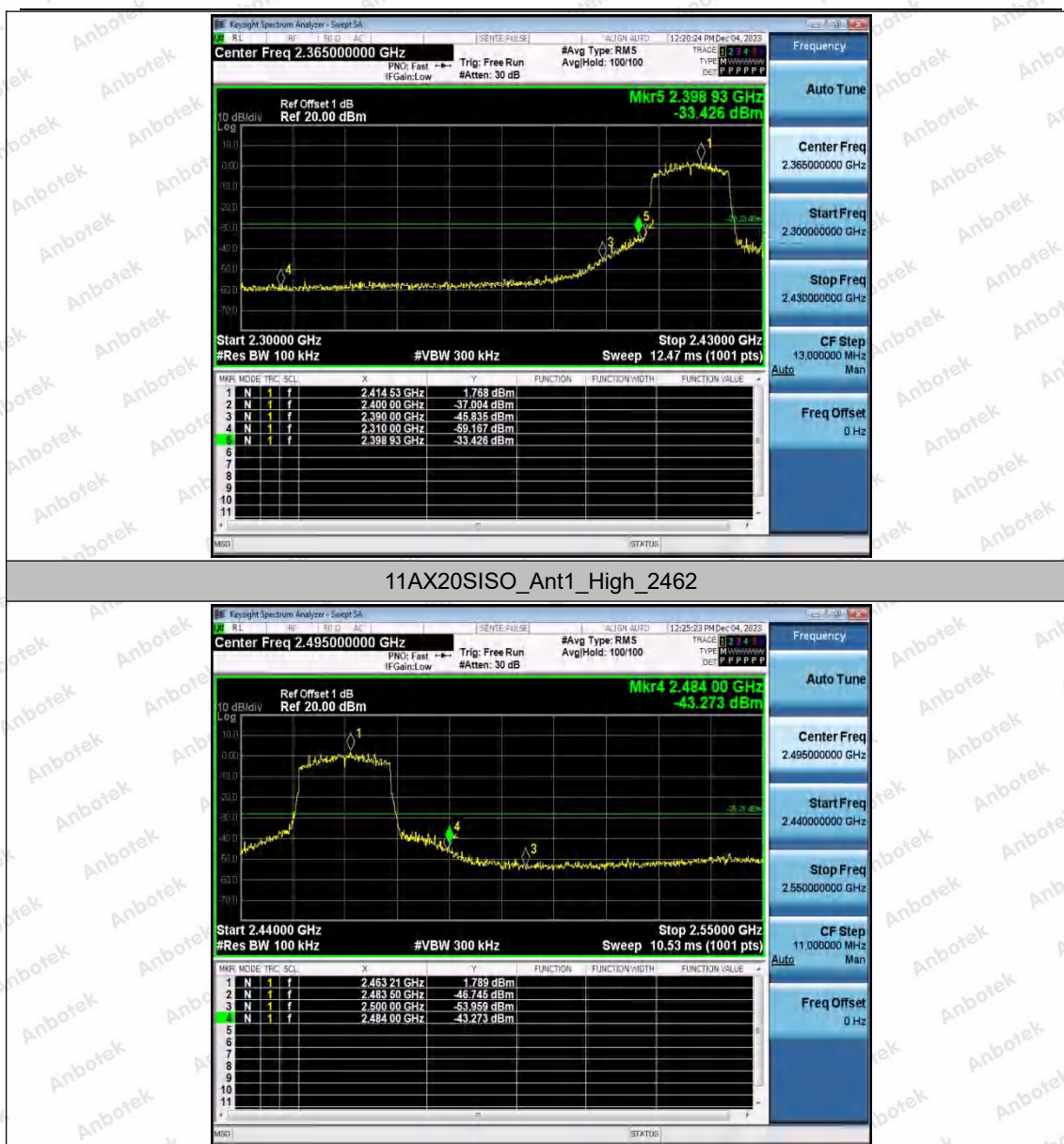
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## Appendix F: Conducted Spurious Emission

### Test Result

| TestMode   | Antenna | Frequency[MHz] | FreqRange [Mhz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|------------|---------|----------------|-----------------|----------------|--------------|-------------|---------|
| 11B        | Ant1    | 2412           | Reference       | 4.60           | 4.60         | ---         | PASS    |
|            |         |                | 30~1000         | 4.60           | -68.28       | ≤-25.4      | PASS    |
|            |         |                | 1000~26500      | 4.60           | -50.34       | ≤-25.4      | PASS    |
|            |         | 2437           | Reference       | 3.81           | 3.81         | ---         | PASS    |
|            |         |                | 30~1000         | 3.81           | -67.36       | ≤-26.19     | PASS    |
|            |         |                | 1000~26500      | 3.81           | -50.04       | ≤-26.19     | PASS    |
|            |         | 2462           | Reference       | 3.64           | 3.64         | ---         | PASS    |
|            |         |                | 30~1000         | 3.64           | -69.29       | ≤-26.36     | PASS    |
|            |         |                | 1000~26500      | 3.64           | -52.78       | ≤-26.36     | PASS    |
| 11G        | Ant1    | 2412           | Reference       | -1.05          | -1.05        | ---         | PASS    |
|            |         |                | 30~1000         | -1.05          | -69.2        | ≤-31.05     | PASS    |
|            |         |                | 1000~26500      | -1.05          | -50.93       | ≤-31.05     | PASS    |
|            |         | 2437           | Reference       | -0.30          | -0.30        | ---         | PASS    |
|            |         |                | 30~1000         | -0.30          | -68.59       | ≤-30.3      | PASS    |
|            |         |                | 1000~26500      | -0.30          | -50.18       | ≤-30.3      | PASS    |
|            |         | 2462           | Reference       | 0.48           | 0.48         | ---         | PASS    |
|            |         |                | 30~1000         | 0.48           | -69.1        | ≤-29.52     | PASS    |
|            |         |                | 1000~26500      | 0.48           | -50.66       | ≤-29.52     | PASS    |
| 11N20SISO  | Ant1    | 2412           | Reference       | 1.28           | 1.28         | ---         | PASS    |
|            |         |                | 30~1000         | 1.28           | -69.33       | ≤-28.72     | PASS    |
|            |         |                | 1000~26500      | 1.28           | -49.84       | ≤-28.72     | PASS    |
|            |         | 2437           | Reference       | -0.18          | -0.18        | ---         | PASS    |
|            |         |                | 30~1000         | -0.18          | -69.34       | ≤-30.18     | PASS    |
|            |         |                | 1000~26500      | -0.18          | -50.6        | ≤-30.18     | PASS    |
|            |         | 2462           | Reference       | 1.08           | 1.08         | ---         | PASS    |
|            |         |                | 30~1000         | 1.08           | -69.1        | ≤-28.92     | PASS    |
|            |         |                | 1000~26500      | 1.08           | -50.49       | ≤-28.92     | PASS    |
| 11AX20SISO | Ant1    | 2412           | Reference       | 0.60           | 0.60         | ---         | PASS    |
|            |         |                | 30~1000         | 0.60           | -68.5        | ≤-29.4      | PASS    |
|            |         |                | 1000~26500      | 0.60           | -49.55       | ≤-29.4      | PASS    |
|            |         | 2437           | Reference       | -0.26          | -0.26        | ---         | PASS    |
|            |         |                | 30~1000         | -0.26          | -68.74       | ≤-30.26     | PASS    |
|            |         |                | 1000~26500      | -0.26          | -49.57       | ≤-30.26     | PASS    |
|            |         | 2462           | Reference       | 0.19           | 0.19         | ---         | PASS    |
|            |         |                | 30~1000         | 0.19           | -68.76       | ≤-29.81     | PASS    |
|            |         |                |                 |                |              |             |         |

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|  |  |  |            |      |       |         |      |
|--|--|--|------------|------|-------|---------|------|
|  |  |  | 1000~26500 | 0.19 | -49.6 | ≤-29.81 | PASS |
|--|--|--|------------|------|-------|---------|------|

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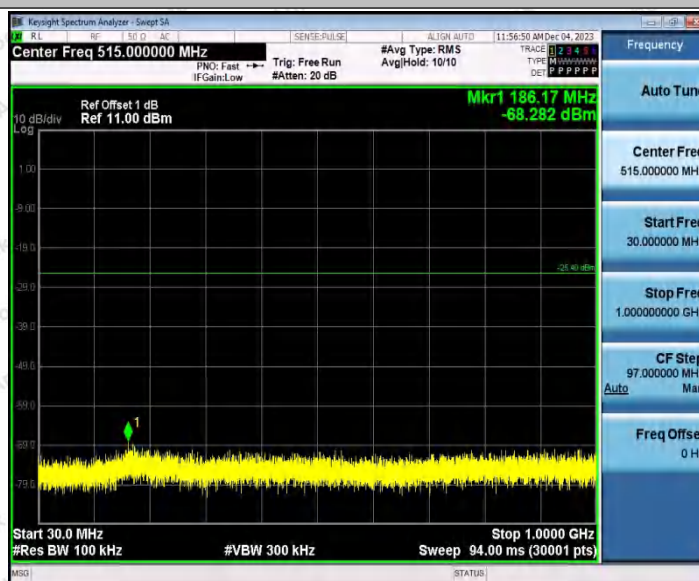


## Test Graphs

11B\_Ant1\_2412\_0~Reference



11B\_Ant1\_2412\_30~1000



11B\_Ant1\_2412\_1000~26500

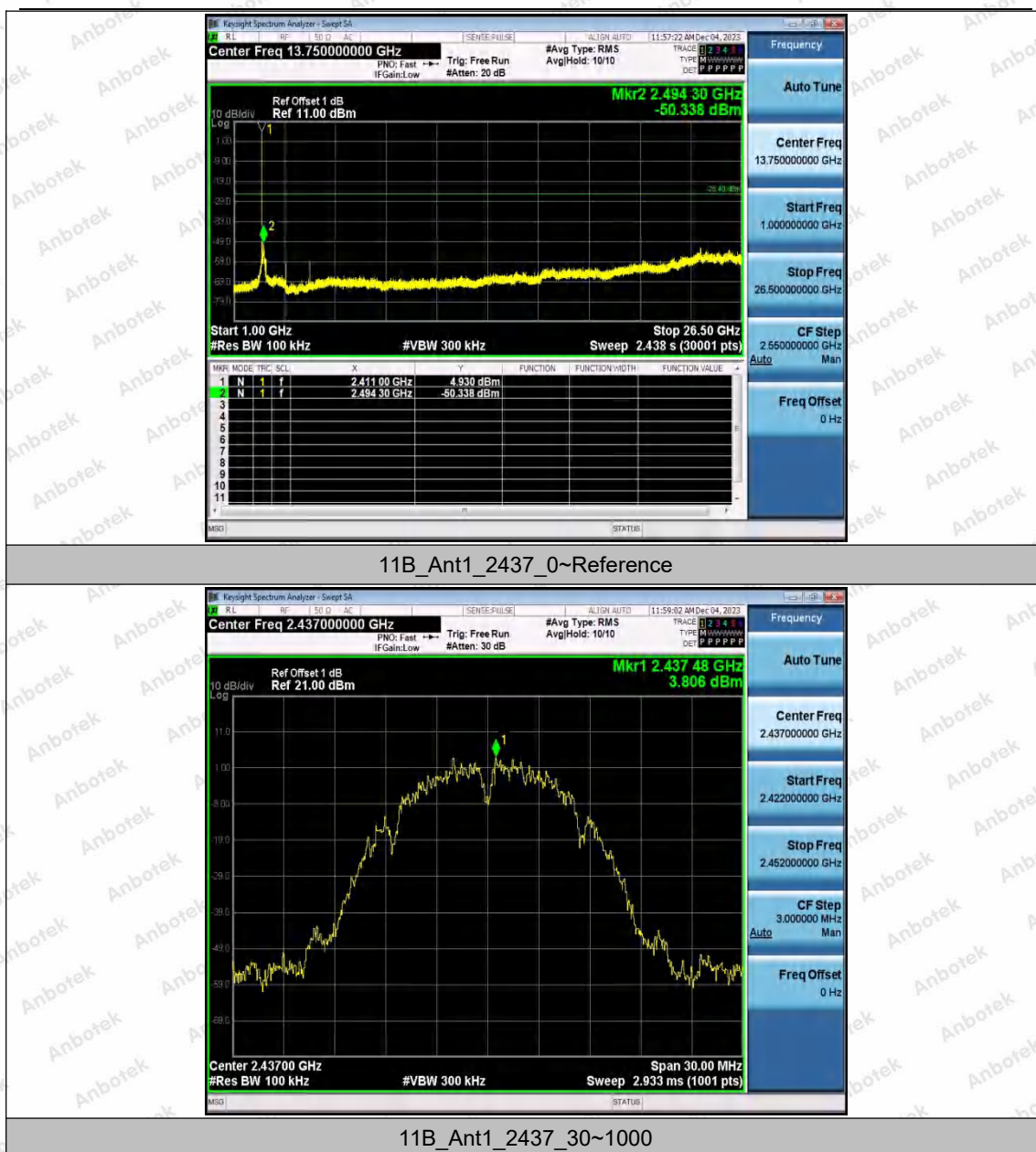
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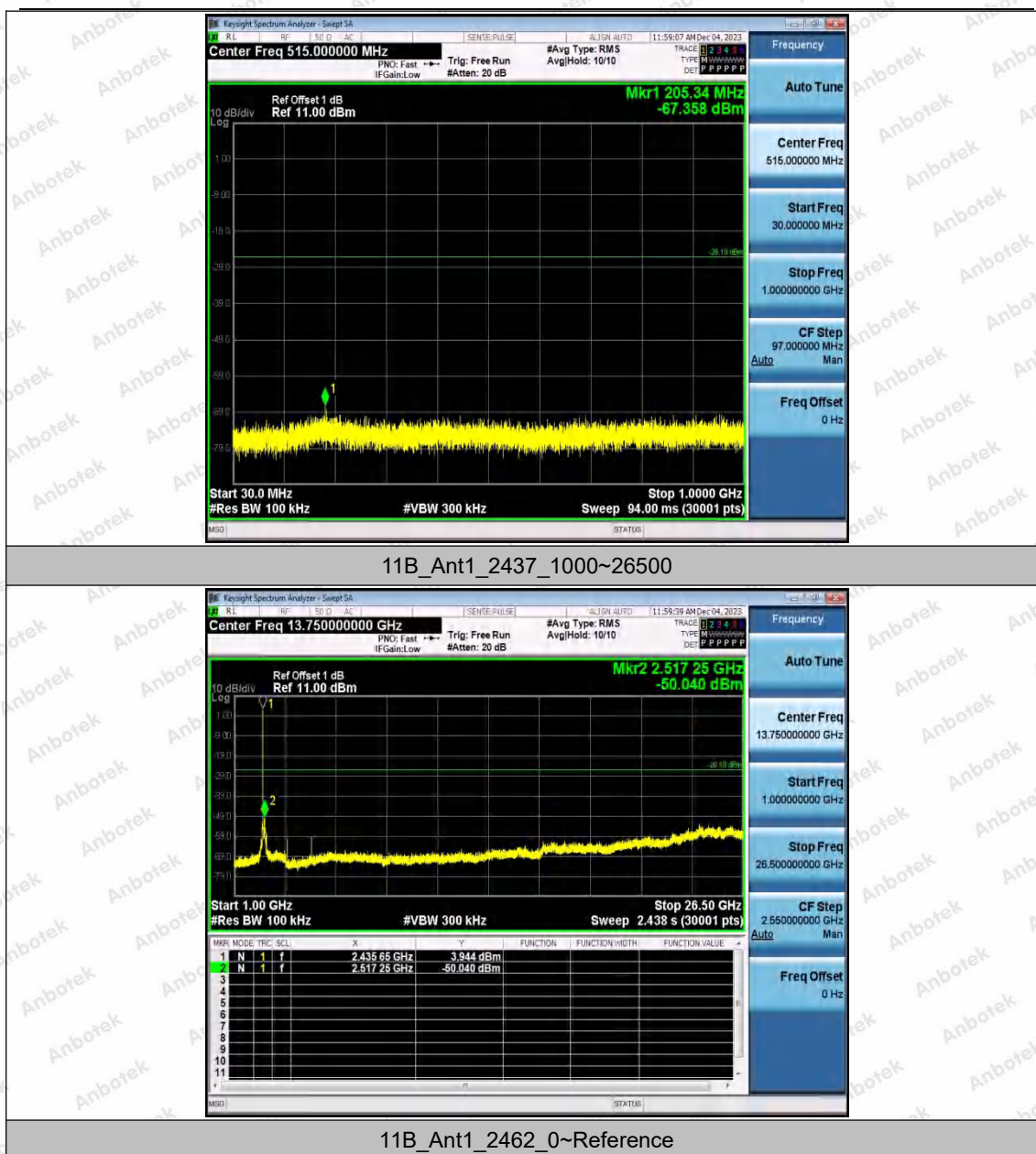
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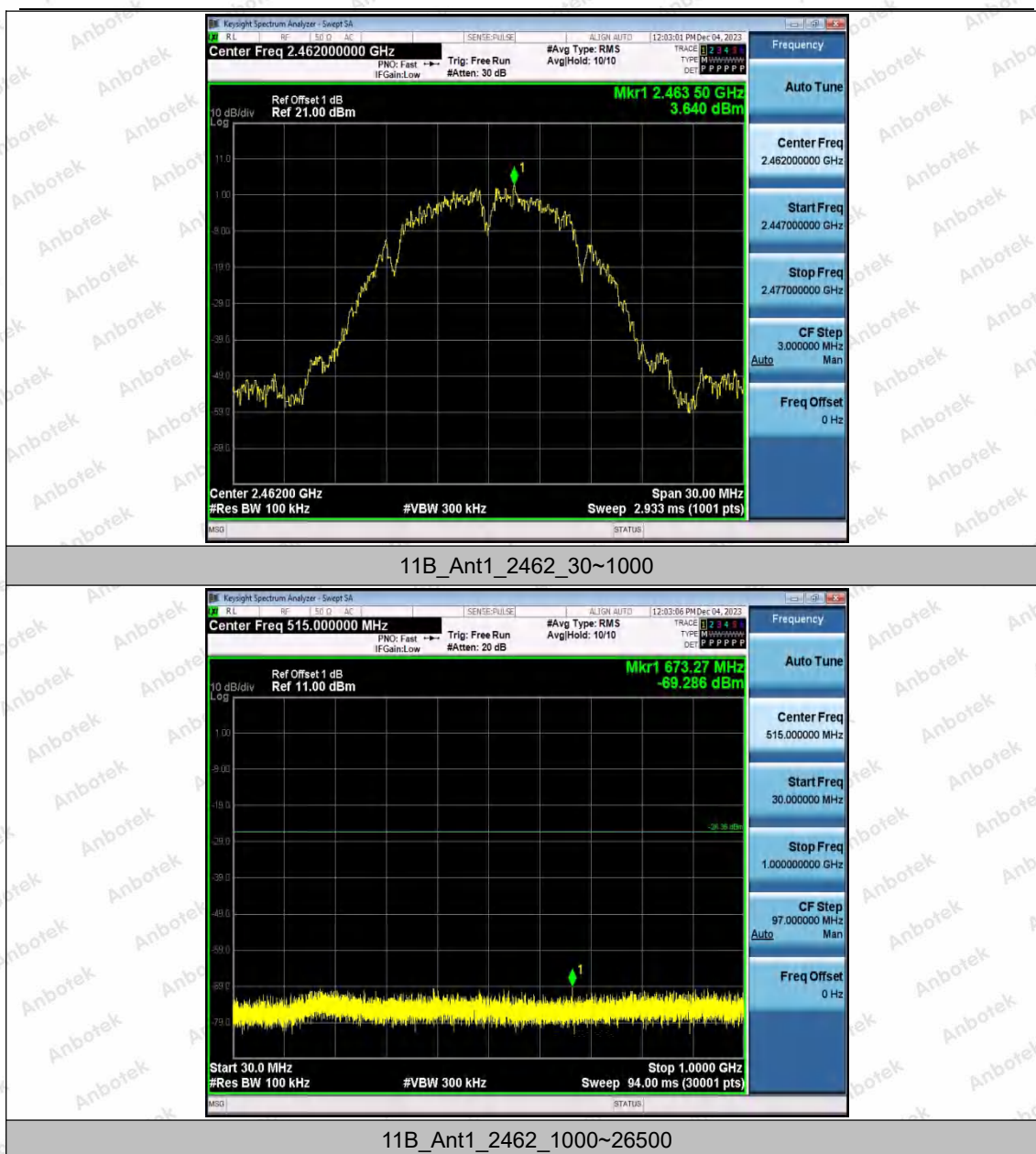
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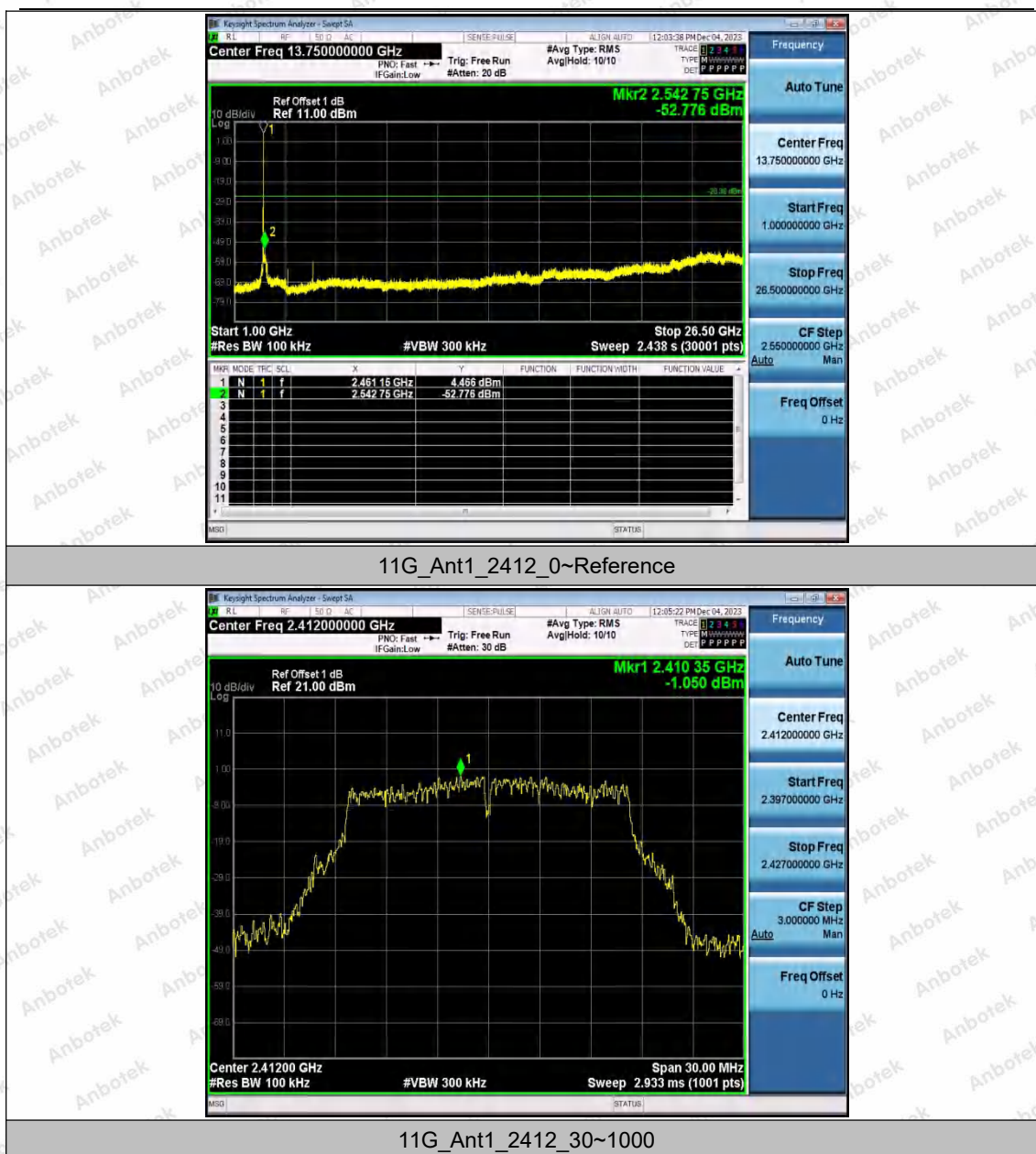
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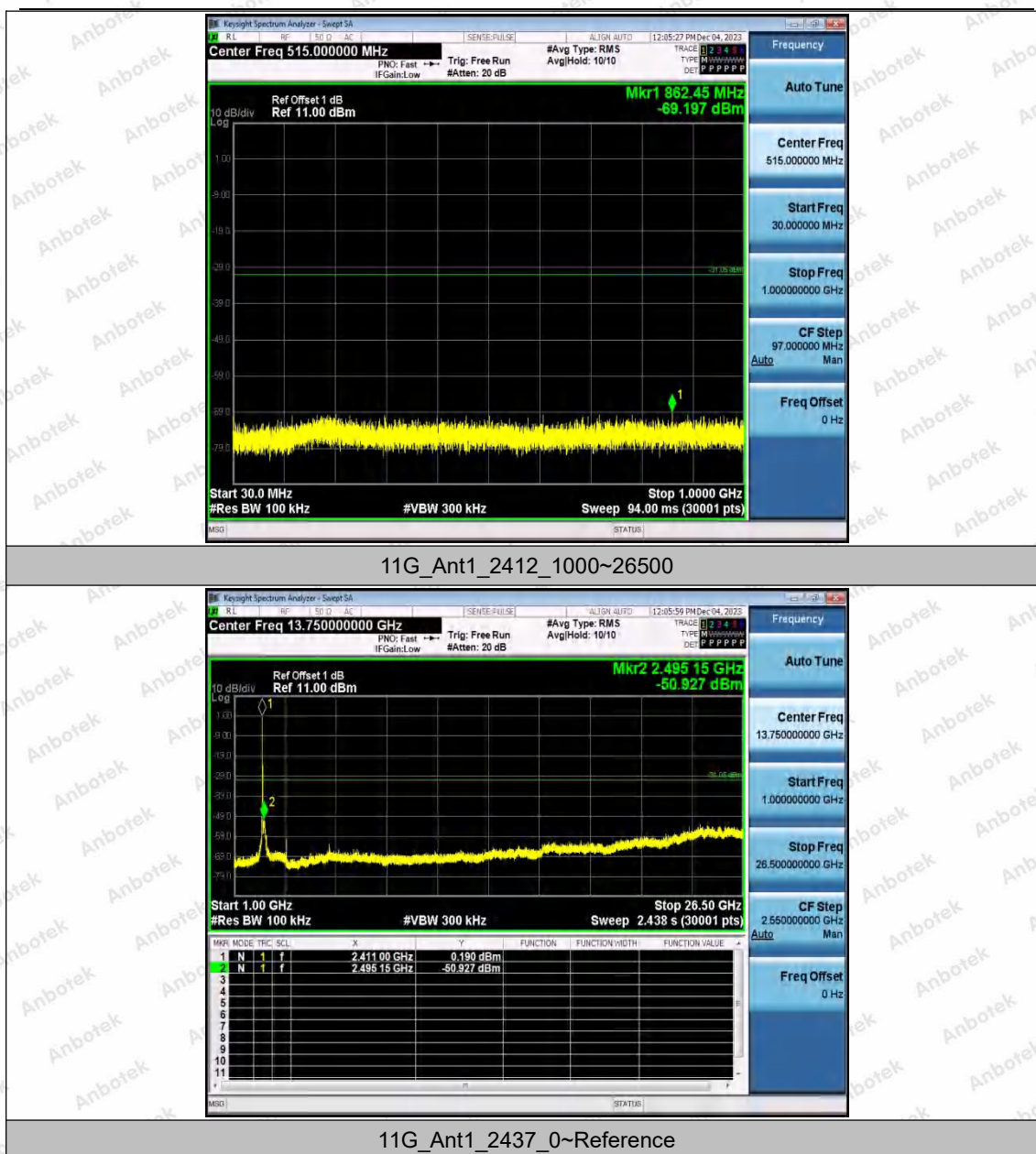
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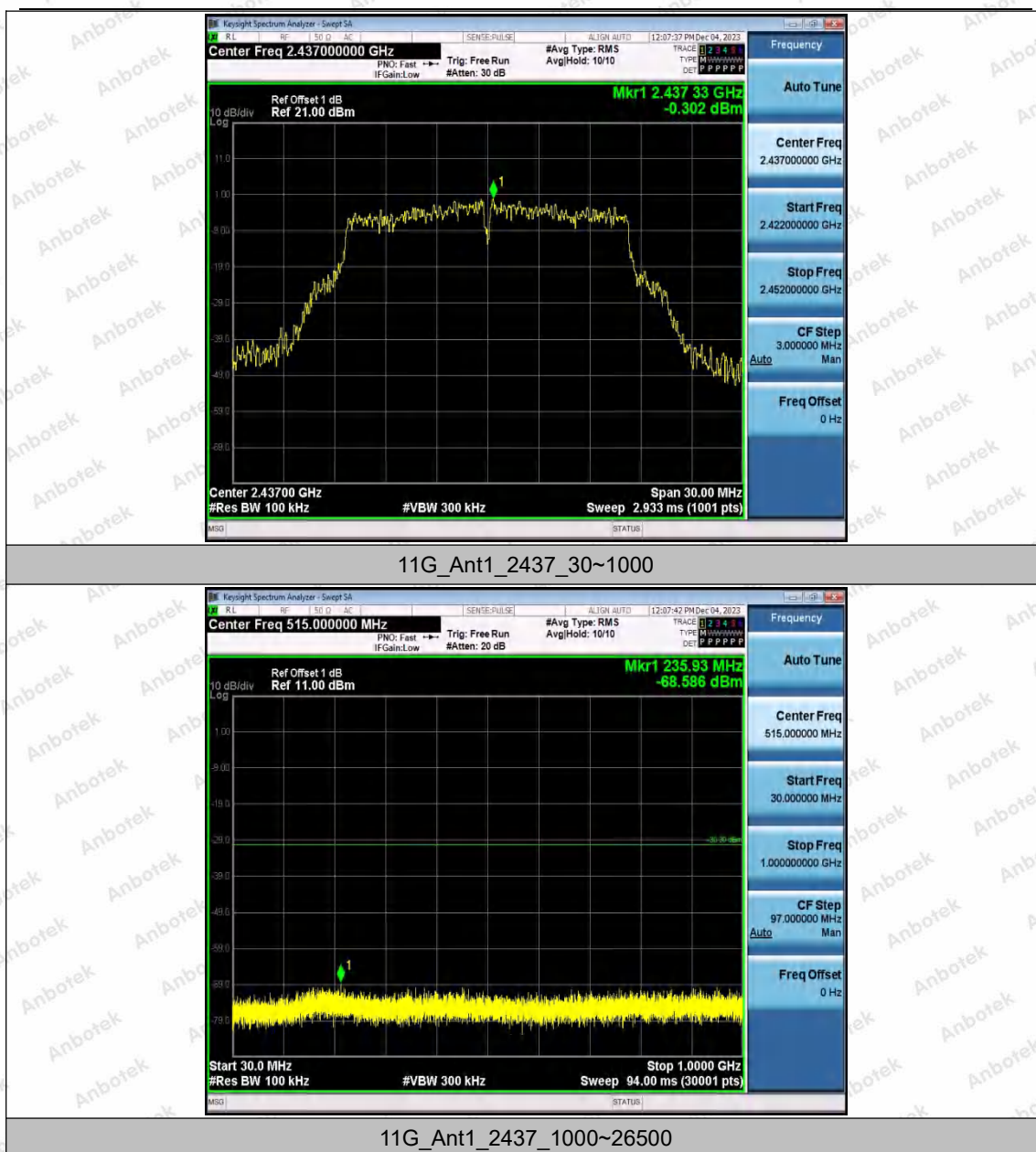
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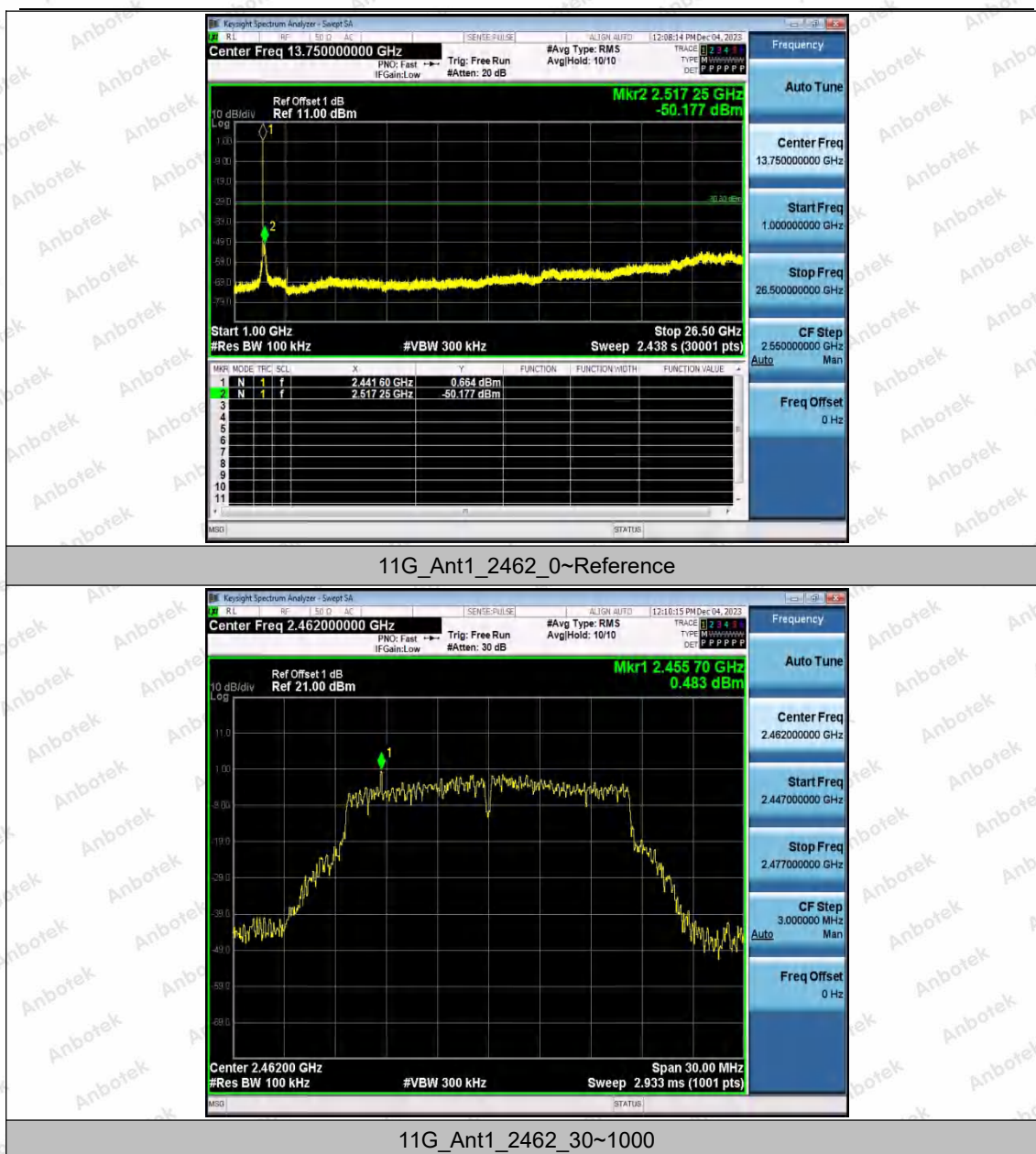
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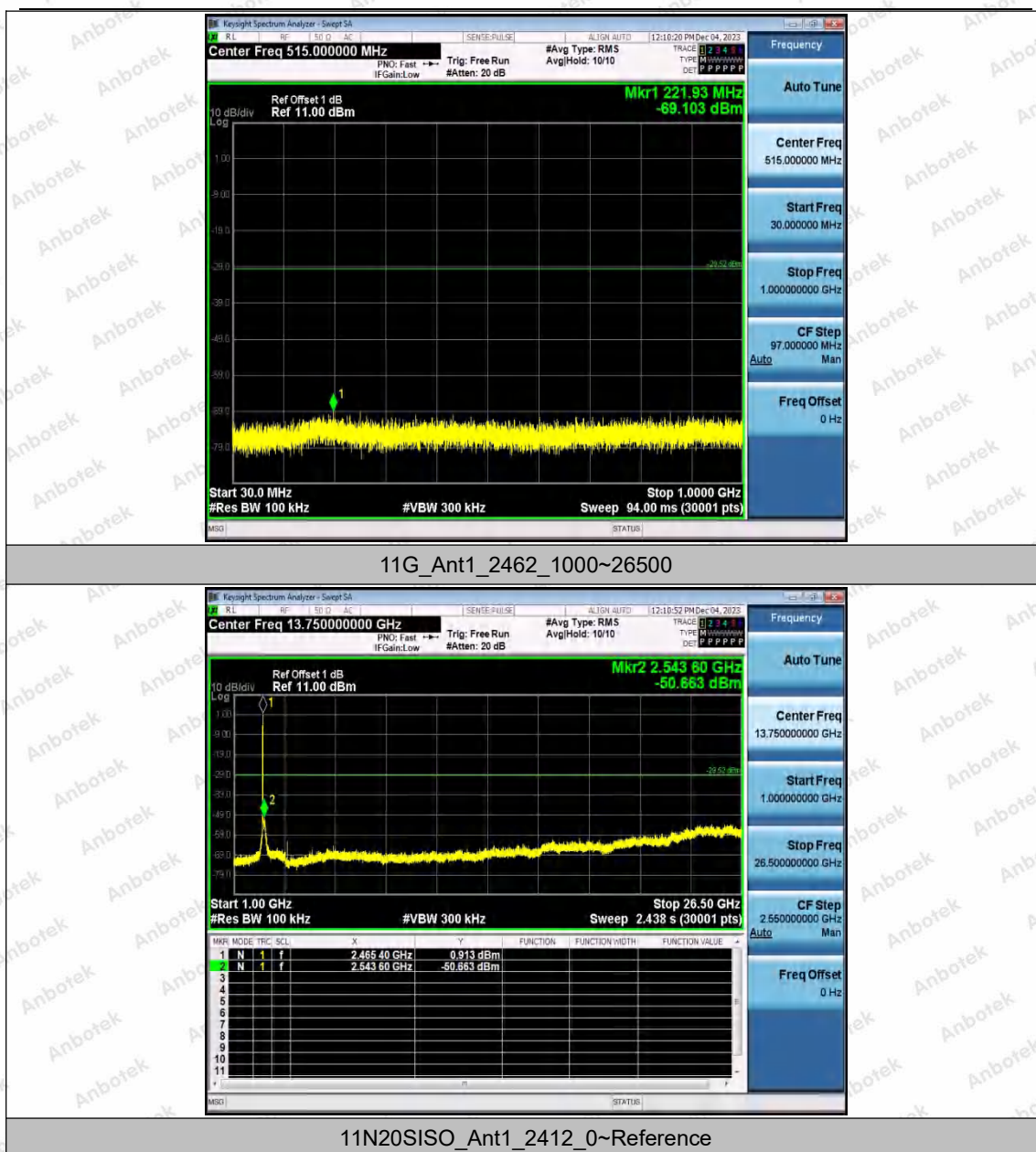
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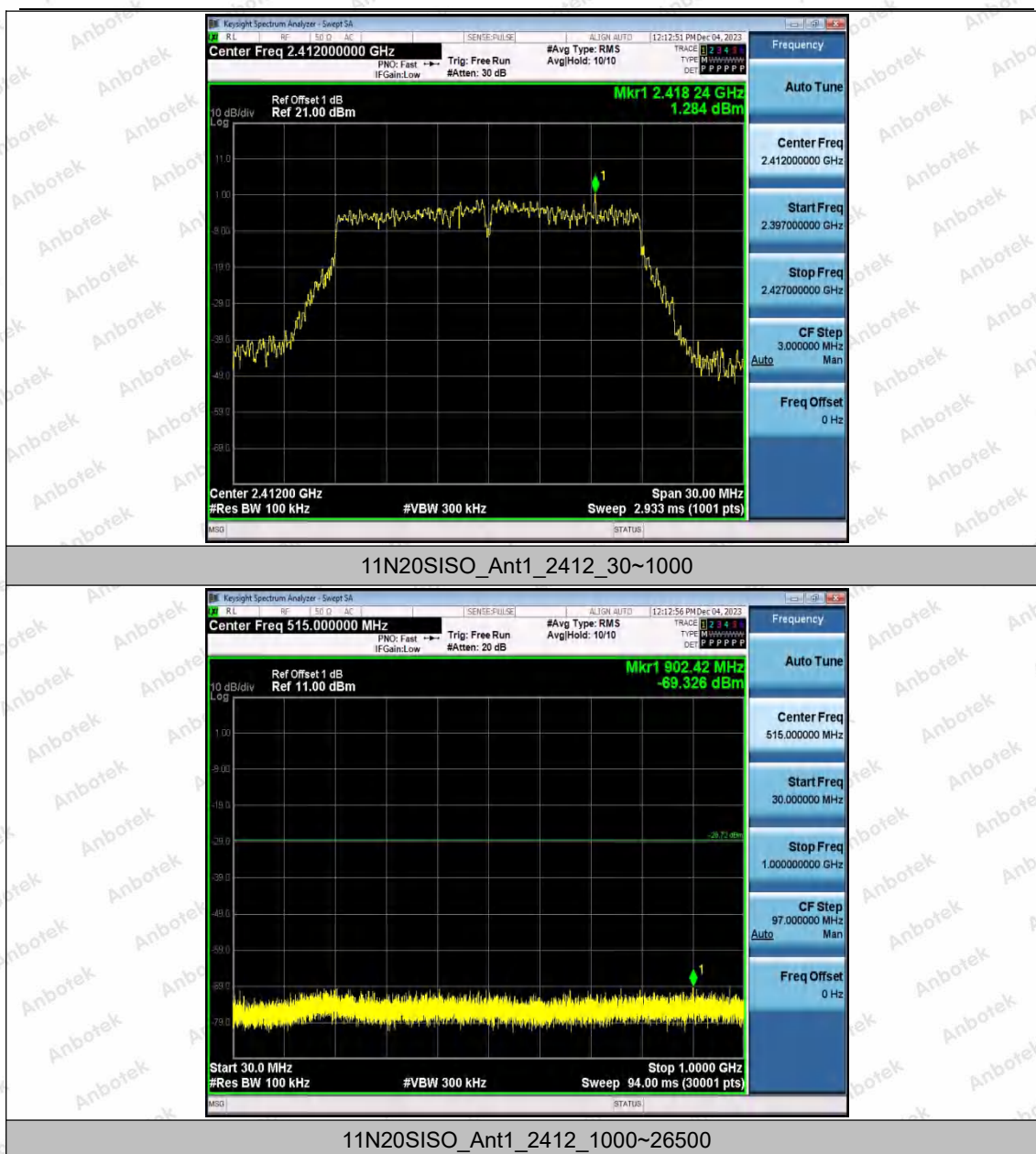
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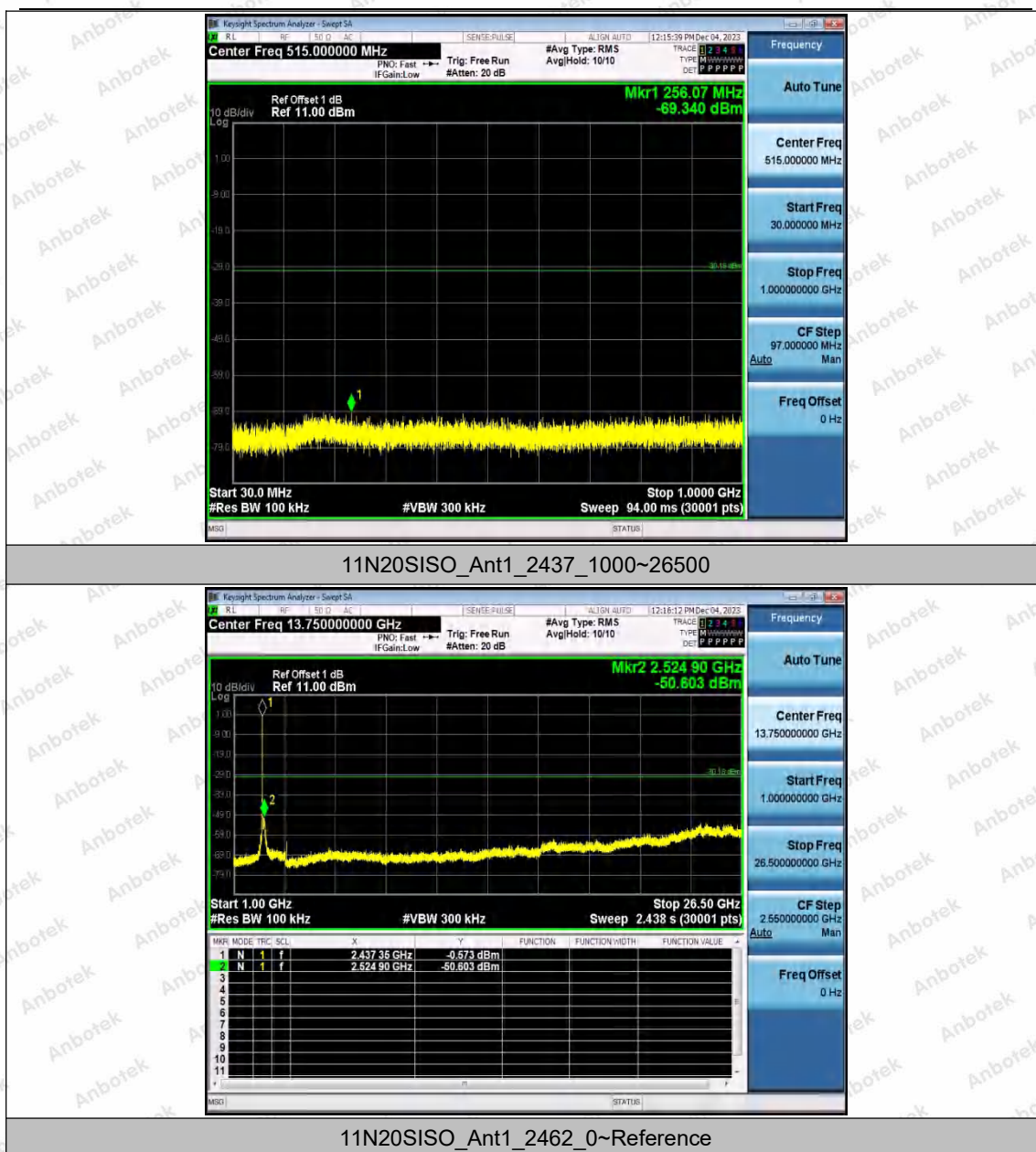
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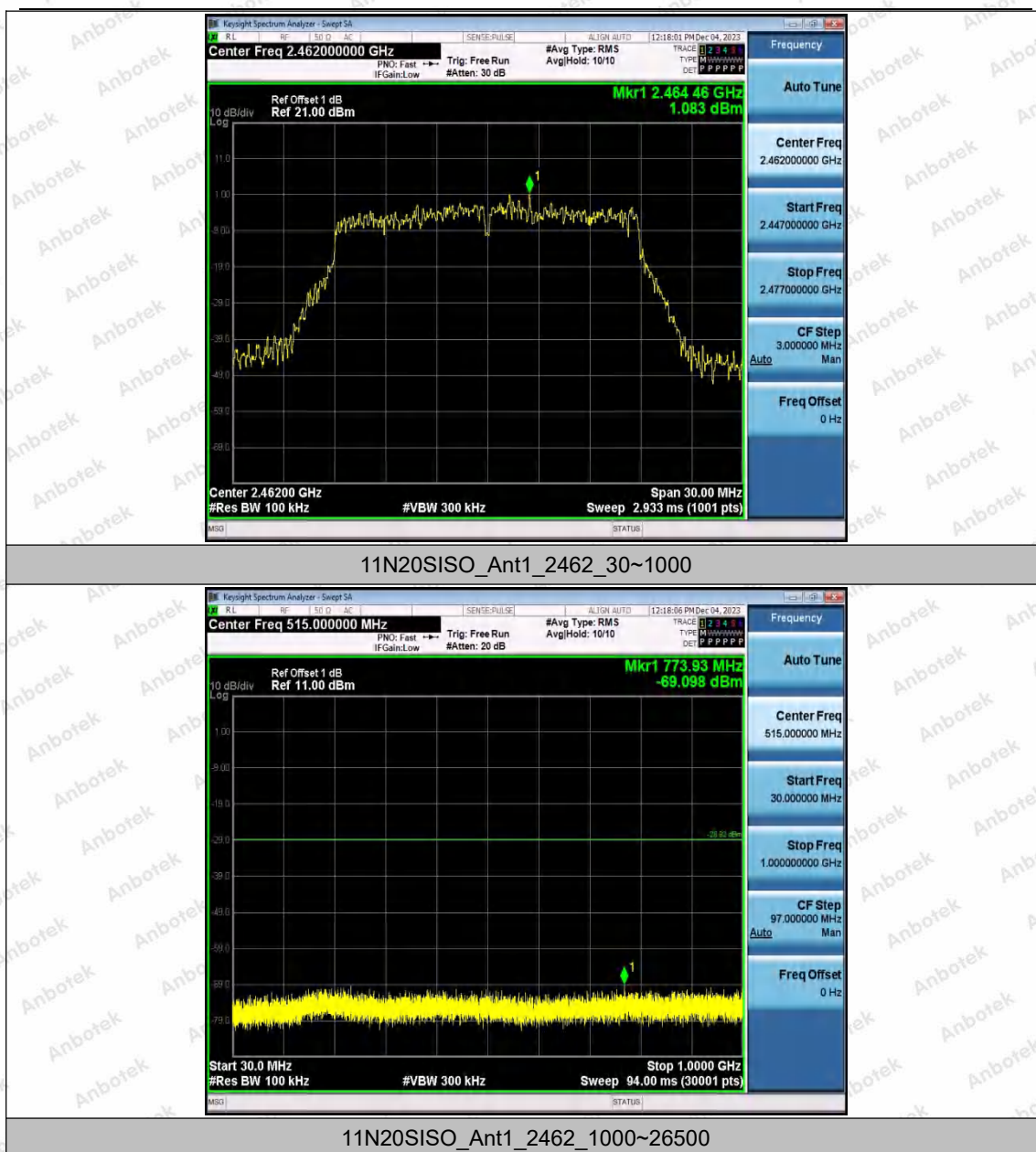
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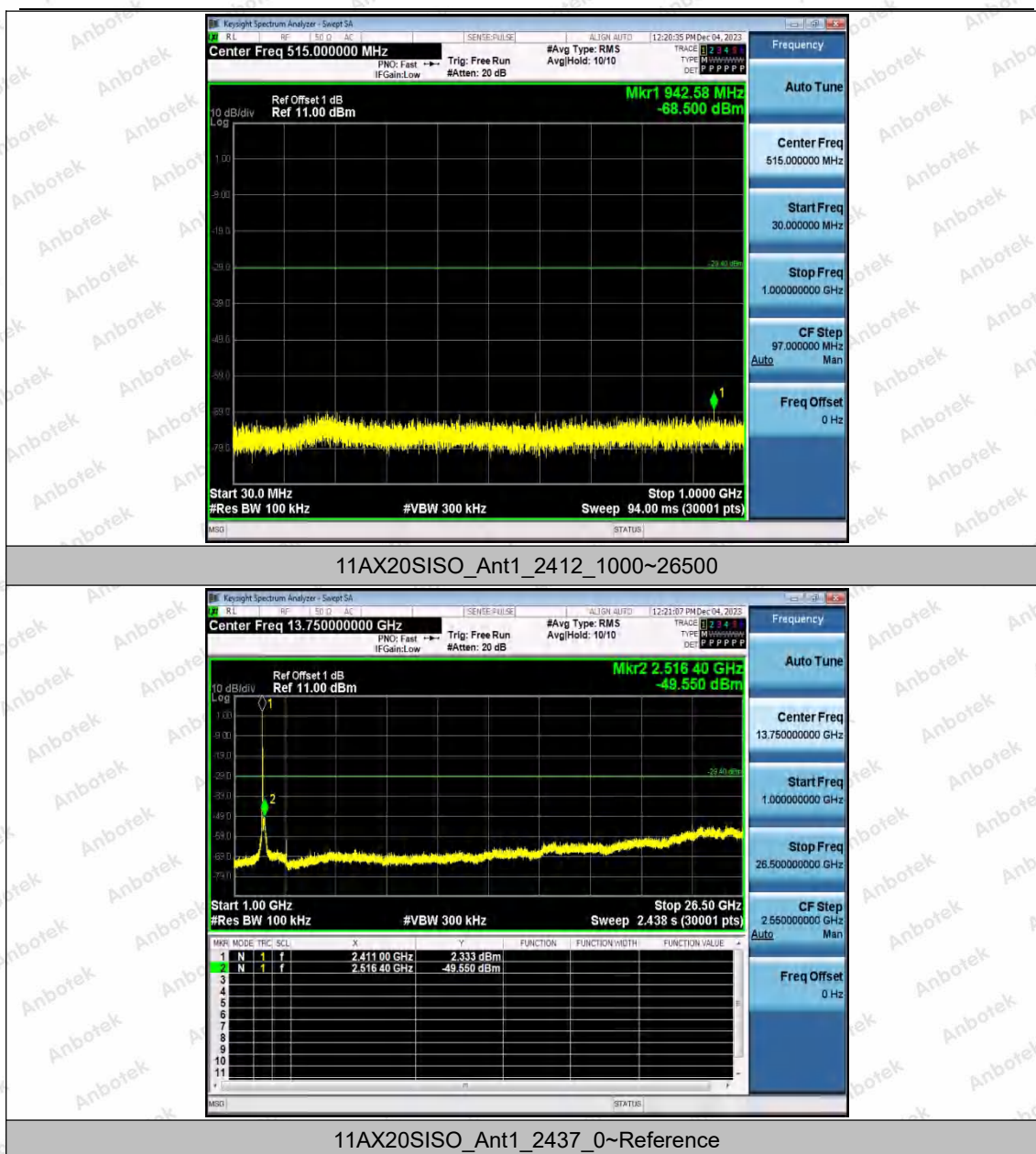
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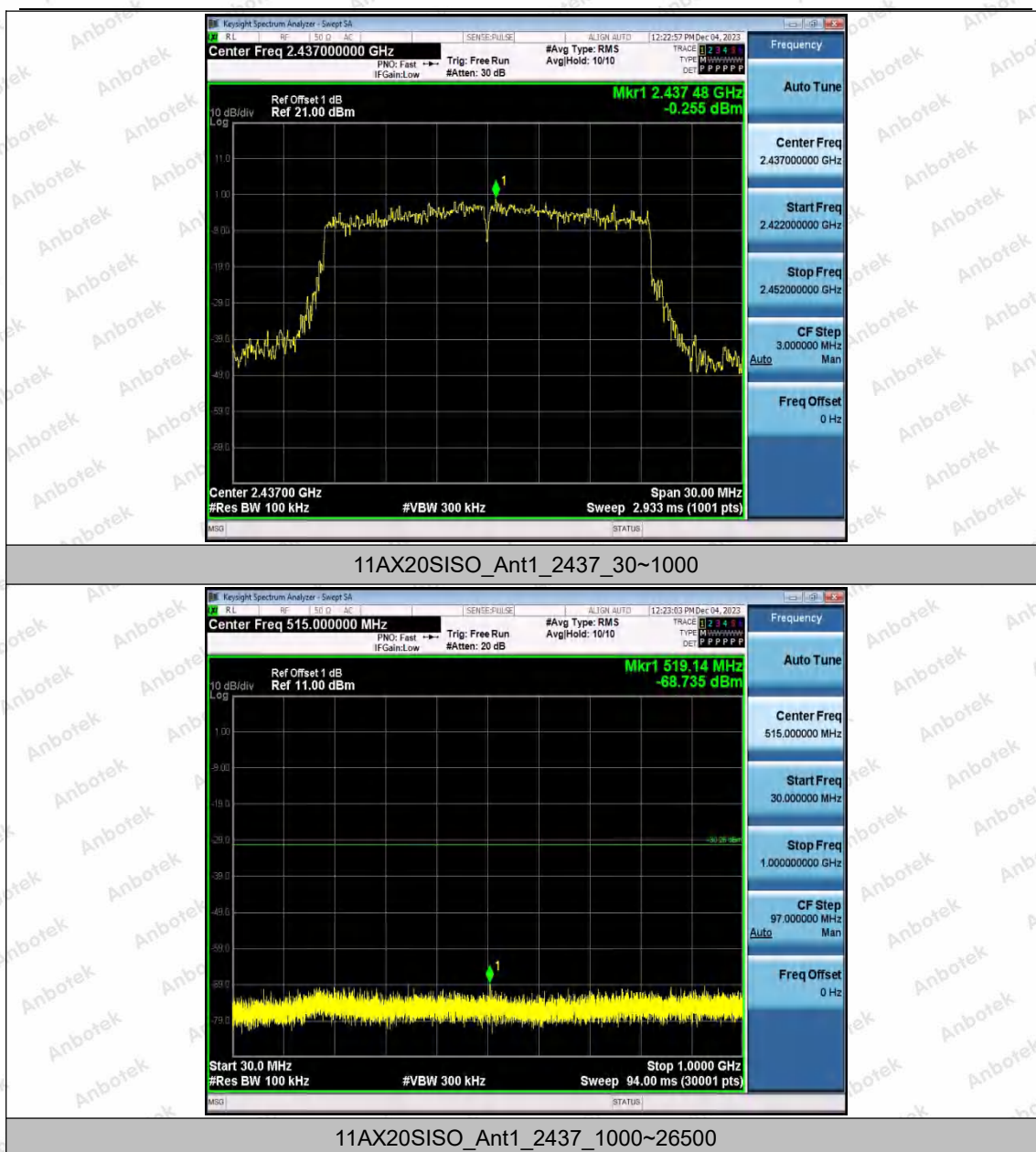
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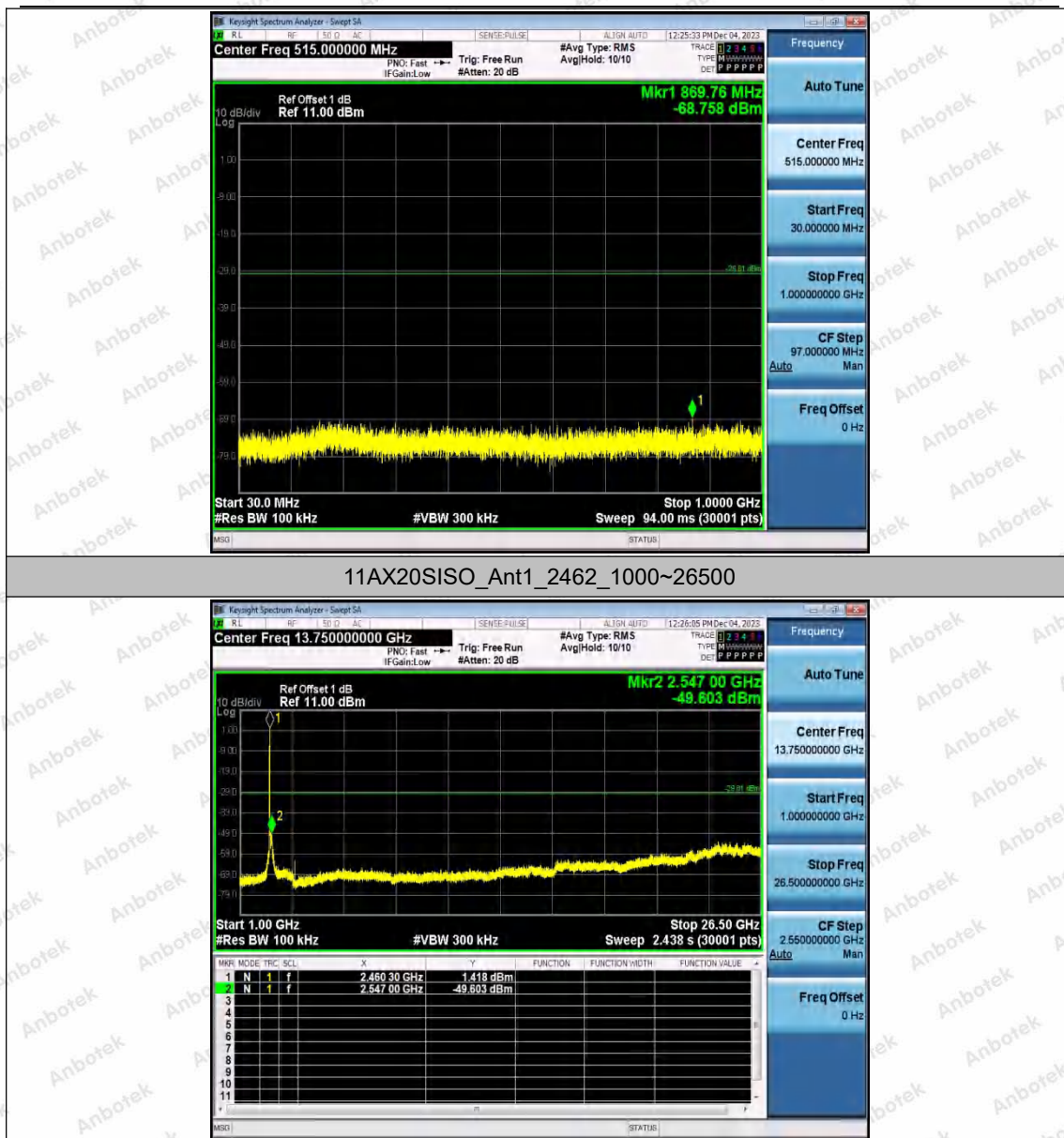
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## Appendix G: Duty Cycle

### Test Result

| TestMode   | Antenna | Frequency[MHz] | Transmission<br>Duration<br>[ms] | Transmission<br>Period [ms] | Duty<br>Cycle<br>[%] | Factor |
|------------|---------|----------------|----------------------------------|-----------------------------|----------------------|--------|
| 11B        | Ant1    | 2412           | 12.40                            | 12.70                       | 97.64                | 0.10   |
|            |         | 2437           | 12.43                            | 12.71                       | 97.80                | 0.10   |
|            |         | 2462           | 12.41                            | 12.72                       | 97.56                | 0.11   |
| 11G        | Ant1    | 2412           | 2.06                             | 2.36                        | 87.29                | 0.59   |
|            |         | 2437           | 2.06                             | 2.36                        | 87.29                | 0.59   |
|            |         | 2462           | 2.06                             | 2.36                        | 87.29                | 0.59   |
| 11N20SISO  | Ant1    | 2412           | 1.92                             | 2.22                        | 86.49                | 0.63   |
|            |         | 2437           | 1.92                             | 2.22                        | 86.49                | 0.63   |
|            |         | 2462           | 1.92                             | 2.22                        | 86.49                | 0.63   |
| 11AX20SISO | Ant1    | 2412           | 1.02                             | 1.12                        | 91.07                | 0.41   |
|            |         | 2437           | 1.02                             | 1.12                        | 91.07                | 0.41   |
|            |         | 2462           | 1.02                             | 1.12                        | 91.07                | 0.41   |

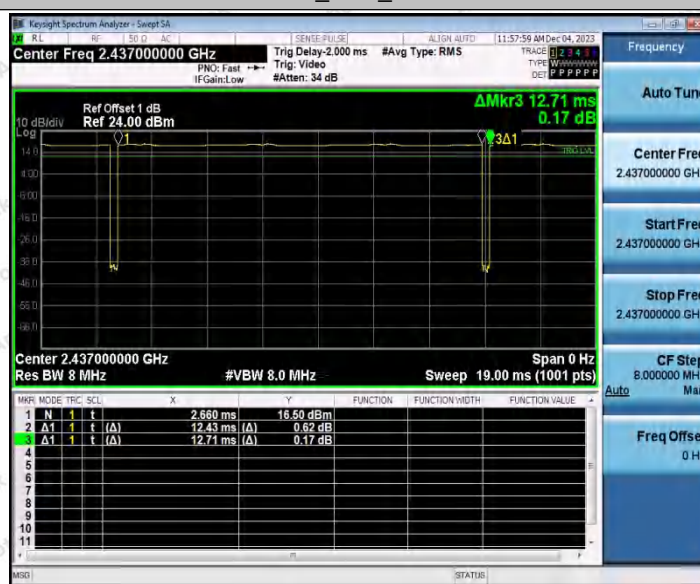


## Test Graphs

11B\_Ant1\_2412



11B\_Ant1\_2437



11B\_Ant1\_2462

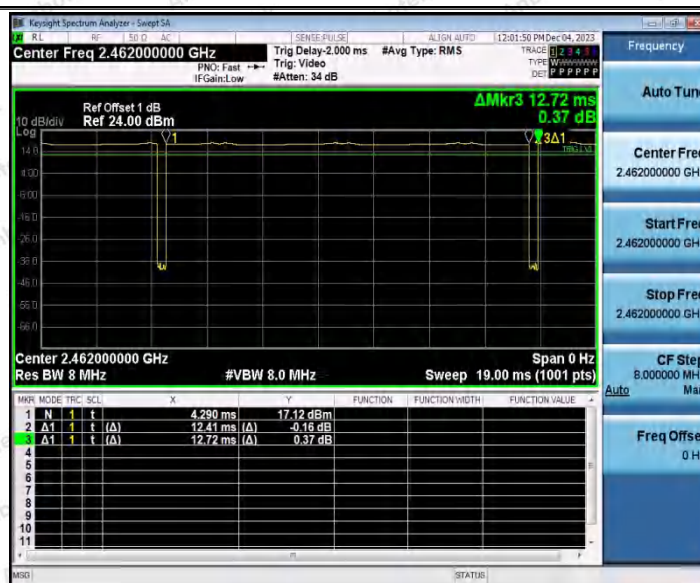
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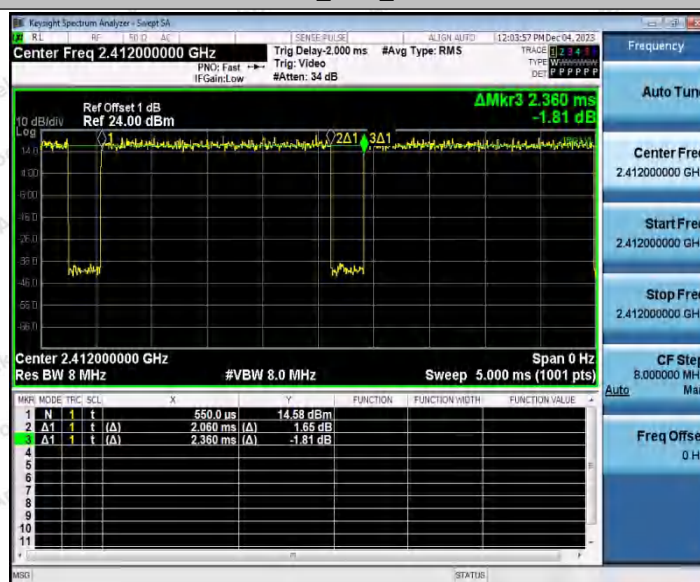


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11G\_Ant1\_2412



11G\_Ant1\_2437

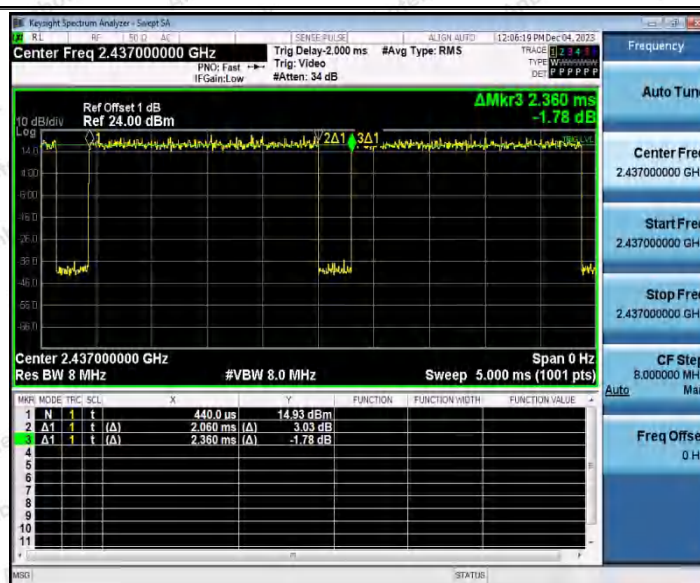
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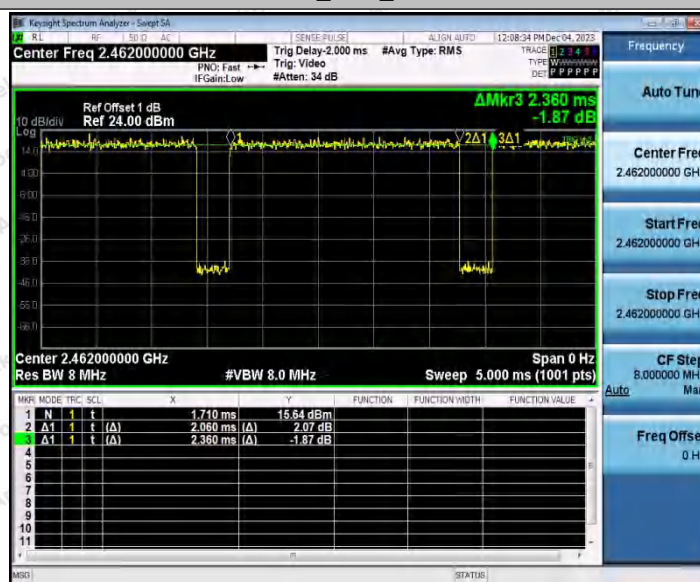


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11G\_Ant1\_2462



11N20SISO\_Ant1\_2412

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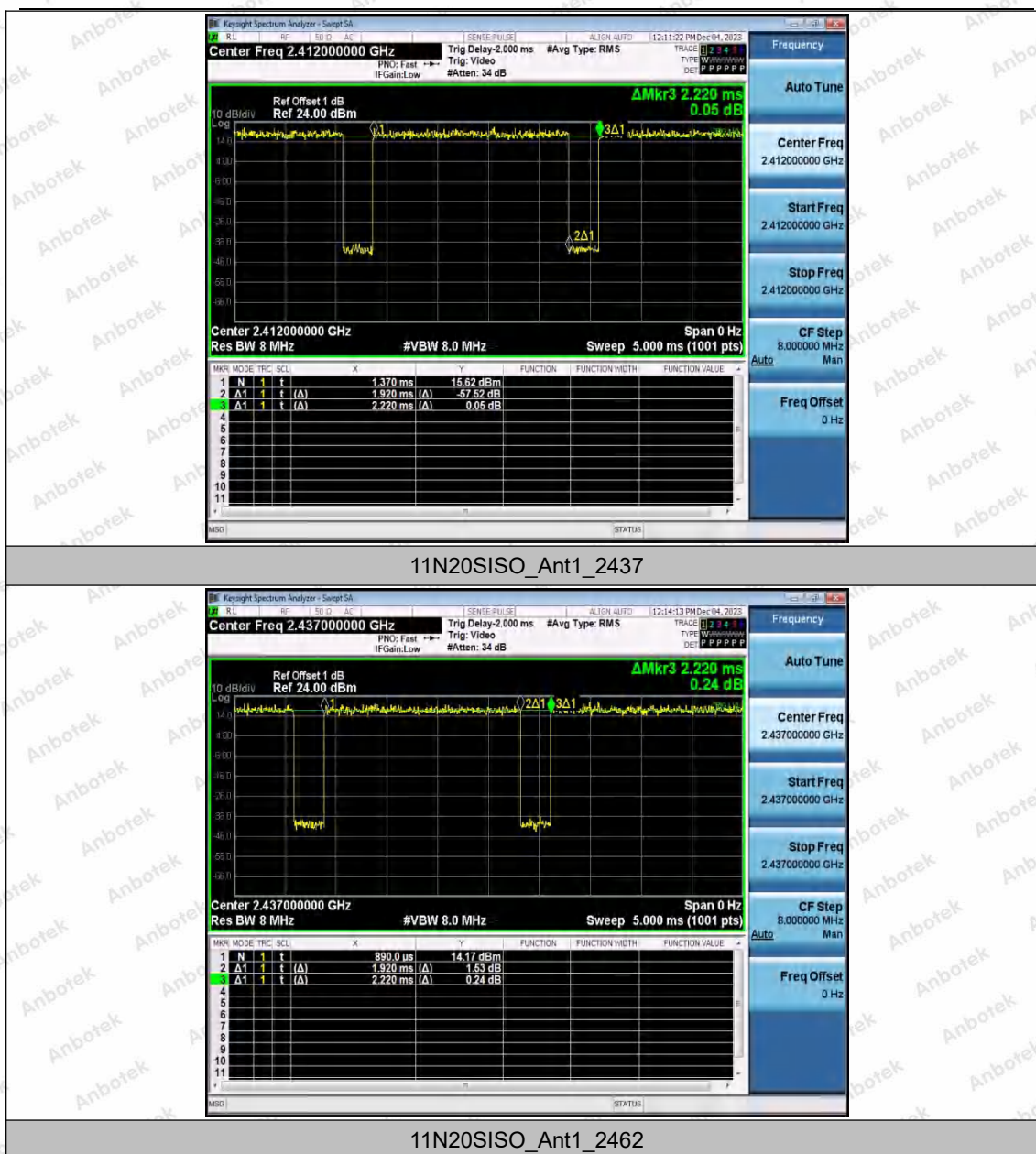


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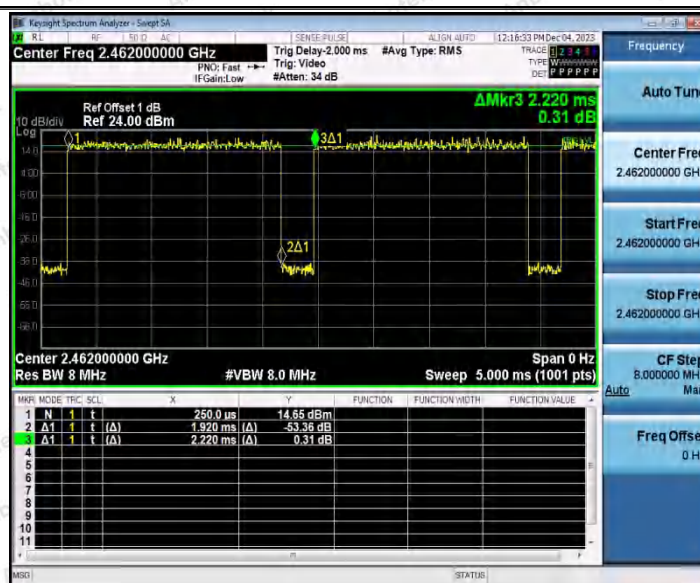
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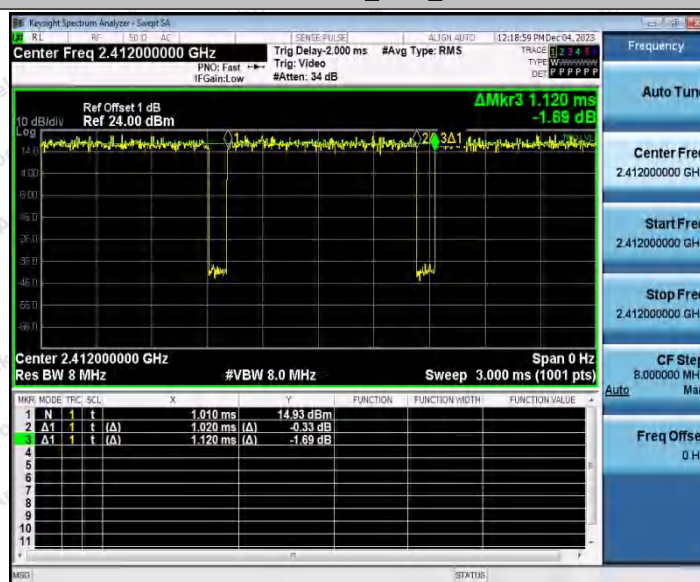


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11AX20SISO\_Ant1\_2412



11AX20SISO\_Ant1\_2437

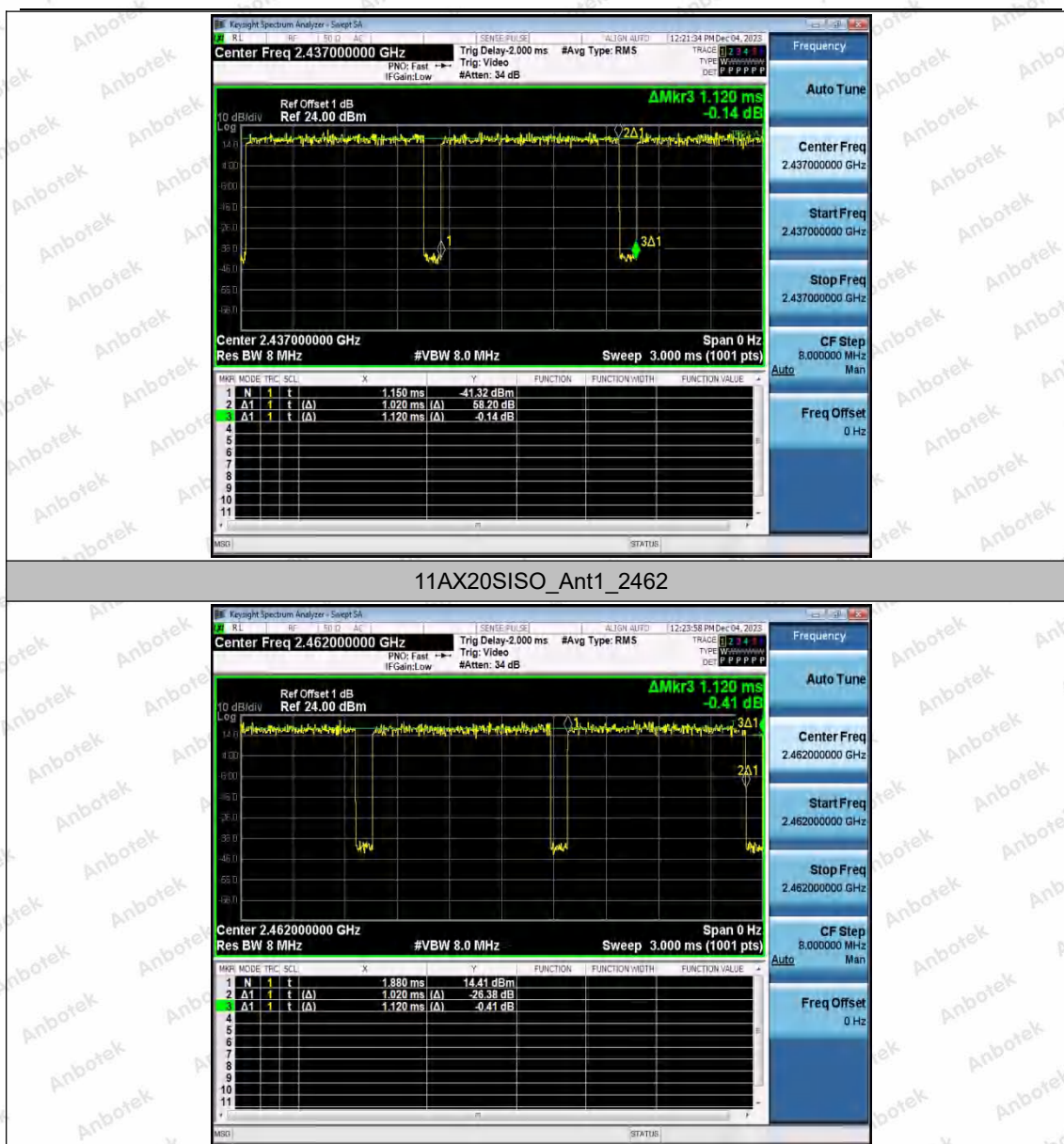
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