

## Appendix Test Data

|                  |                 |                    |                   |
|------------------|-----------------|--------------------|-------------------|
| Report No.:      | 18220EC20005701 | Test Sample No.:   | 1-2-2             |
| Start Test Date: | 2022.2.28       | Finish Test Date:  | 2022.3.4          |
| Test Engineer:   | <i>Jony.He</i>  | Auditor:           | <i>Edward.Pan</i> |
| Temperature:     | 23.2℃           | Relative Humidity: | 55 %              |
| Pressure:        | 1012 hPa        |                    |                   |

## Appendix A: DTS Bandwidth

## Test Result

| Test Mode | Antenna | Channel | DTS BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|---------|--------------|----------|----------|------------|---------|
| 11B       | Ant1    | 2412    | 7.640        | 2408.440 | 2416.080 | ≥0.5       | PASS    |
|           |         | 2437    | 7.640        | 2433.400 | 2441.040 | ≥0.5       | PASS    |
|           |         | 2462    | 7.640        | 2457.960 | 2465.600 | ≥0.5       | PASS    |
| 11G       | Ant1    | 2412    | 13.960       | 2405.640 | 2419.600 | ≥0.5       | PASS    |
|           |         | 2437    | 15.440       | 2429.080 | 2444.520 | ≥0.5       | PASS    |
|           |         | 2462    | 15.160       | 2454.400 | 2469.560 | ≥0.5       | PASS    |
| 11N20     | Ant1    | 2412    | 13.920       | 2405.640 | 2419.560 | ≥0.5       | PASS    |
|           |         | 2437    | 16.040       | 2429.480 | 2445.520 | ≥0.5       | PASS    |
|           |         | 2462    | 15.160       | 2454.400 | 2469.560 | ≥0.5       | PASS    |

## Test Graphs

11B\_Ant1\_2412



11B\_Ant1\_2437



11B\_Ant1\_2462

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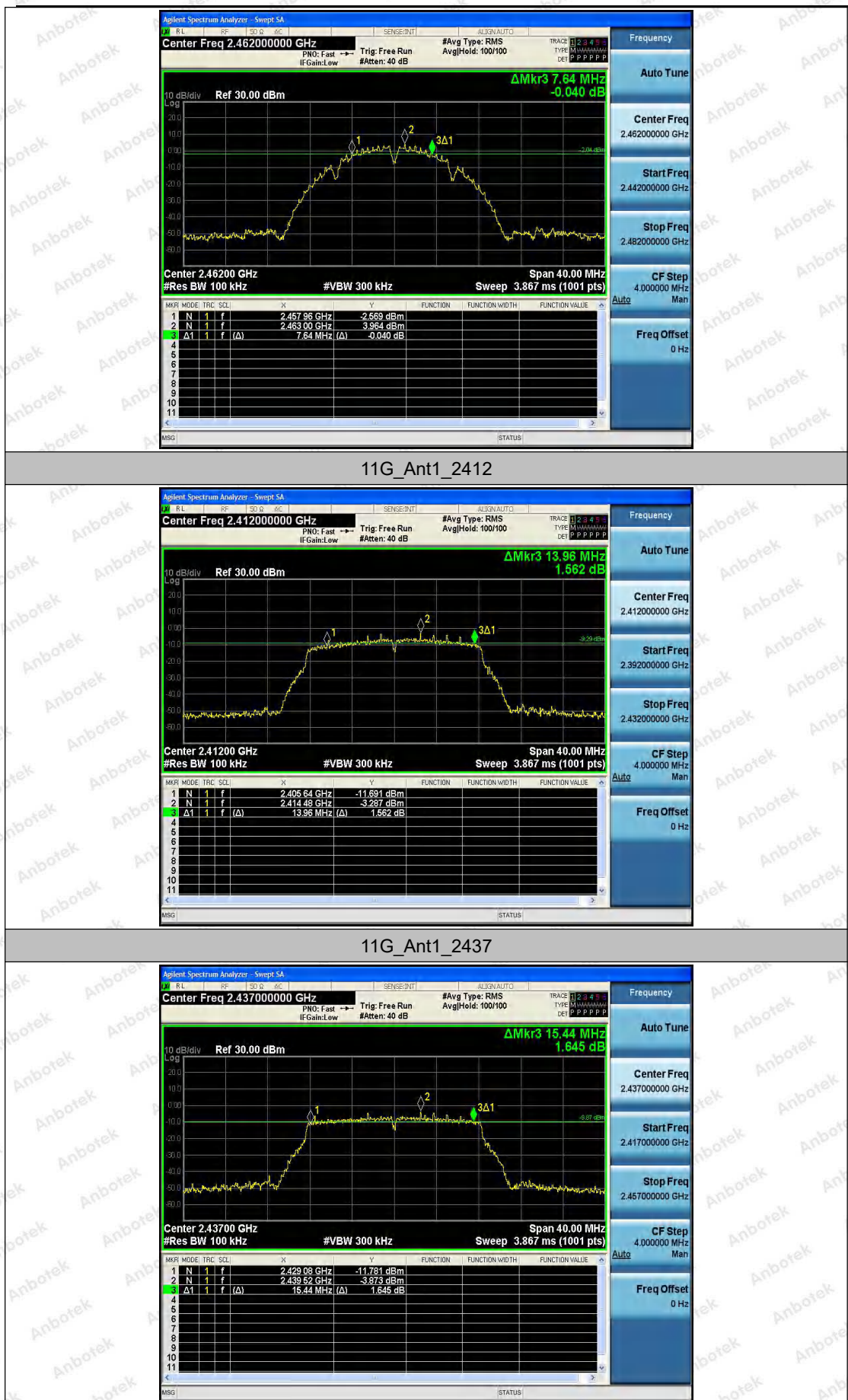
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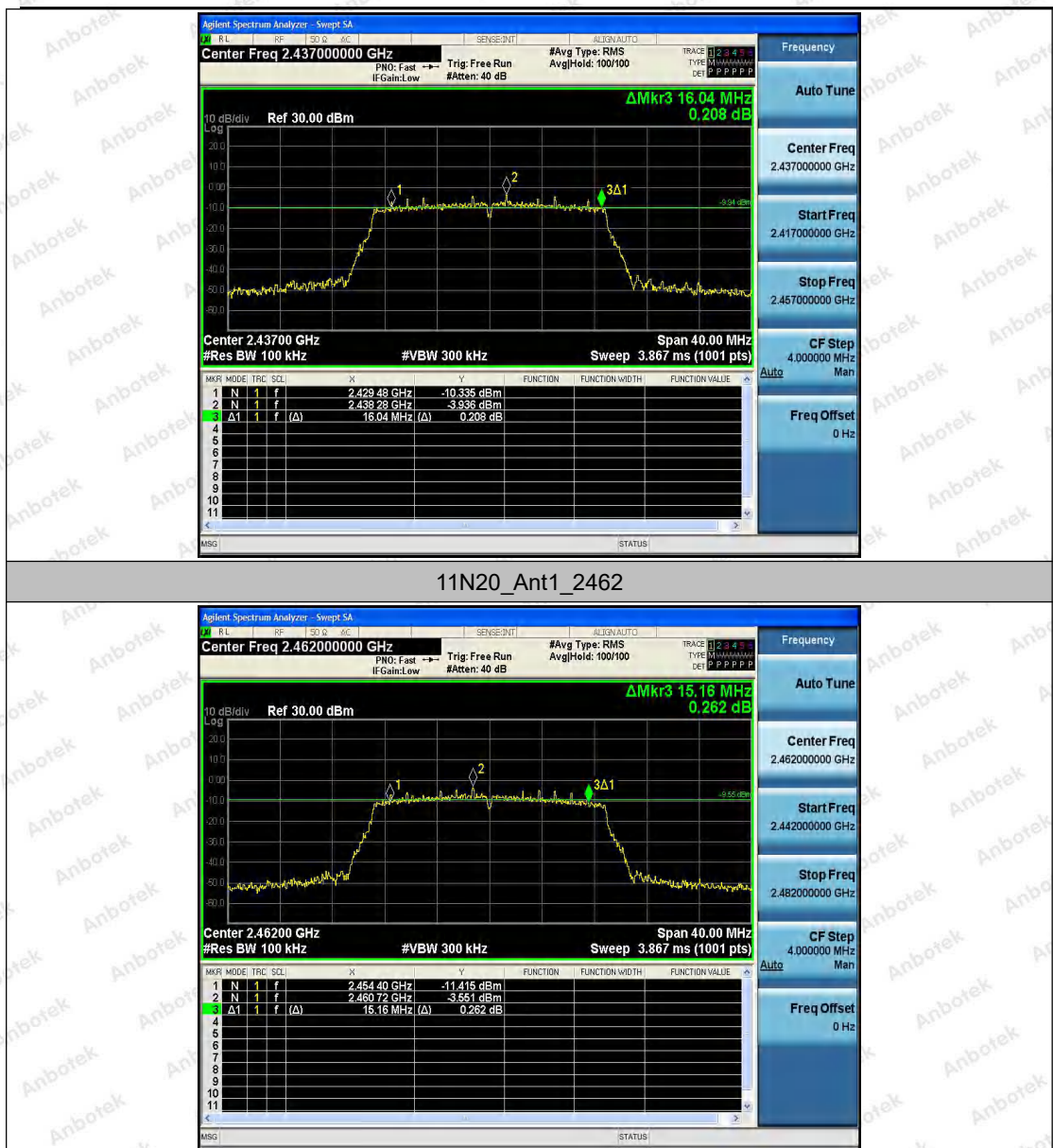
11G\_Ant1\_2462



11N20\_Ant1\_2412



11N20\_Ant1\_2437



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## Appendix B: Occupied Channel Bandwidth

### Test Result

| Test Mode | Antenna | Channel | OCB [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|---------|-----------|----------|----------|------------|---------|
| 11B       | Ant1    | 2412    | 12.524    | 2405.918 | 2418.442 | ---        | PASS    |
|           |         | 2437    | 12.935    | 2430.567 | 2443.502 | ---        | PASS    |
|           |         | 2462    | 12.729    | 2455.569 | 2468.298 | ---        | PASS    |
| 11G       | Ant1    | 2412    | 16.671    | 2403.765 | 2420.436 | ---        | PASS    |
|           |         | 2437    | 16.914    | 2428.597 | 2445.511 | ---        | PASS    |
|           |         | 2462    | 16.789    | 2453.570 | 2470.359 | ---        | PASS    |
| 11N20     | Ant1    | 2412    | 17.691    | 2403.242 | 2420.933 | ---        | PASS    |
|           |         | 2437    | 17.903    | 2428.118 | 2446.021 | ---        | PASS    |
|           |         | 2462    | 17.805    | 2453.084 | 2470.889 | ---        | PASS    |

## Test Graphs

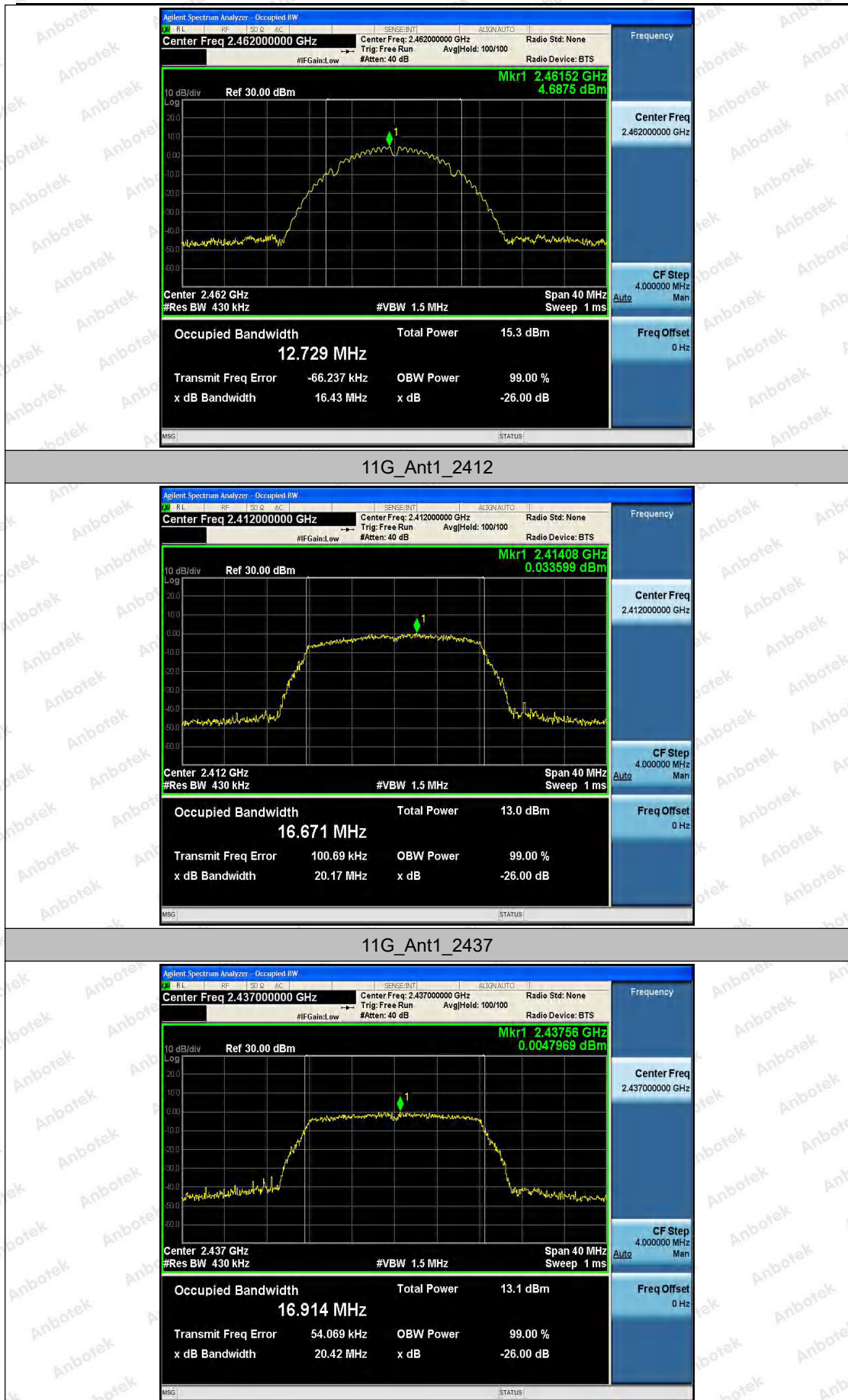


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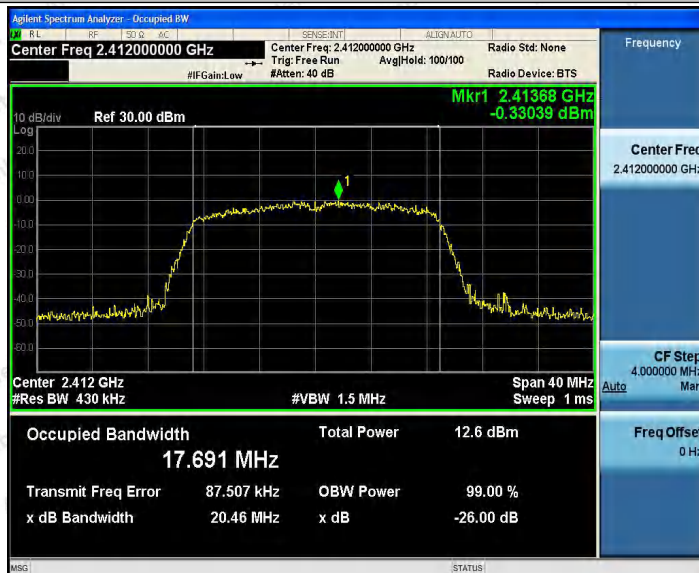
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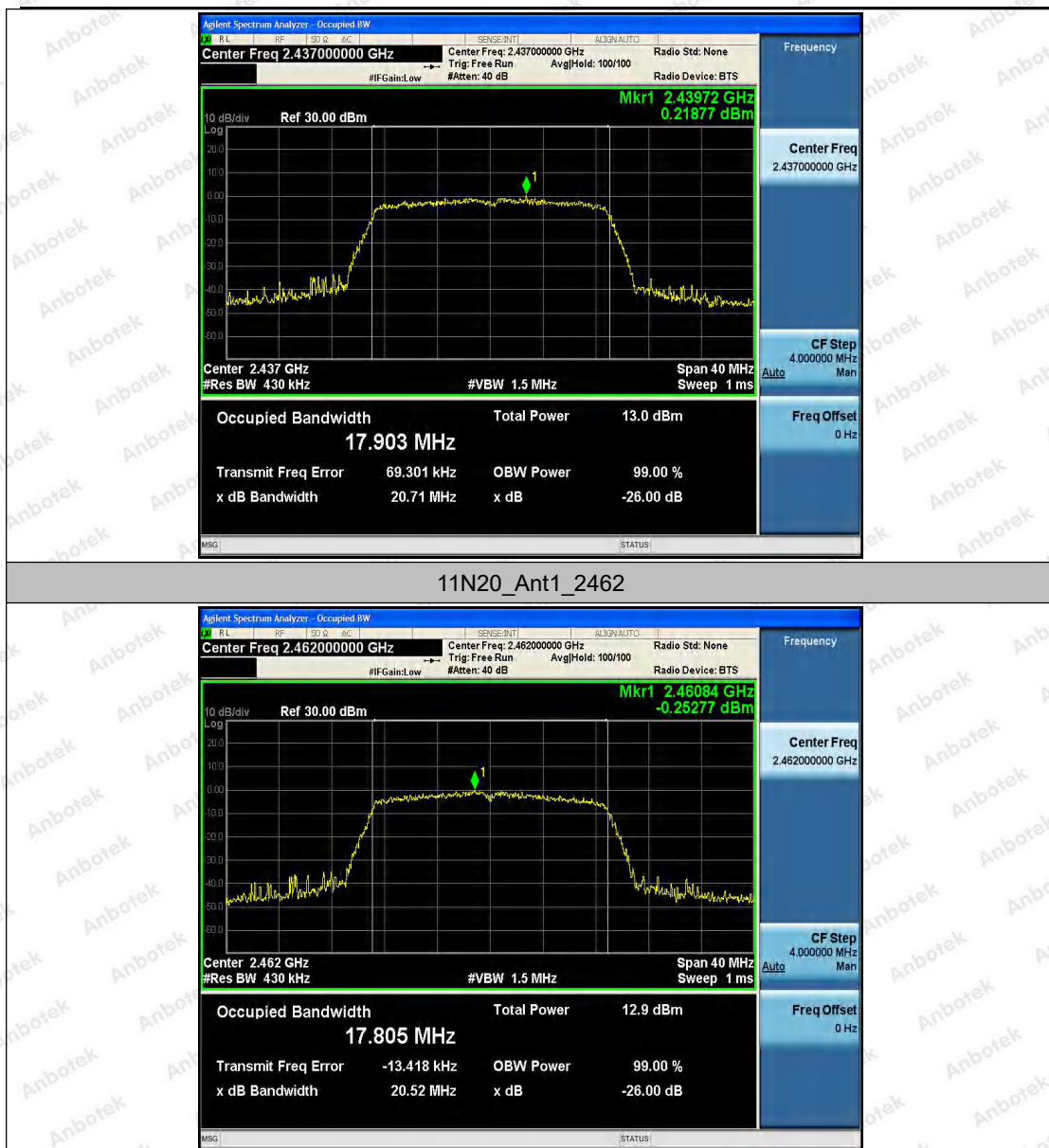
11G\_Ant1\_2462



11N20\_Ant1\_2412



11N20\_Ant1\_2437



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## Appendix C: Maximum conducted output power

### Test Result

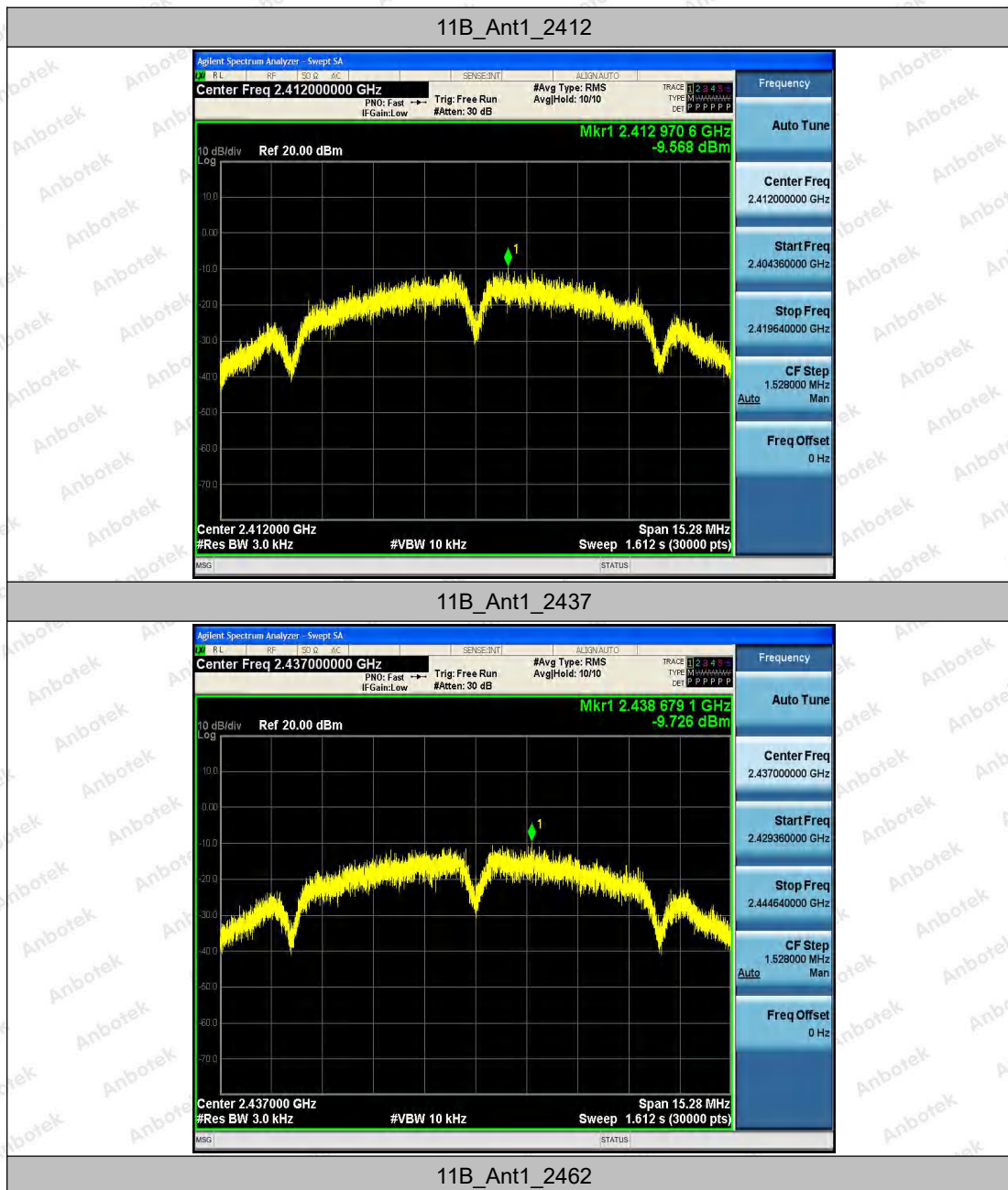
| Test Mode | Antenna | Channel | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|---------|-------------|------------|---------|
| 11B       | Ant1    | 2412    | 14.85       | ≤30        | PASS    |
|           |         | 2437    | 15.12       | ≤30        | PASS    |
|           |         | 2462    | 15.33       | ≤30        | PASS    |
| 11G       | Ant1    | 2412    | 14.17       | ≤30        | PASS    |
|           |         | 2437    | 14.22       | ≤30        | PASS    |
|           |         | 2462    | 14.18       | ≤30        | PASS    |
| 11N20     | Ant1    | 2412    | 13.75       | ≤30        | PASS    |
|           |         | 2437    | 14.00       | ≤30        | PASS    |
|           |         | 2462    | 13.97       | ≤30        | PASS    |

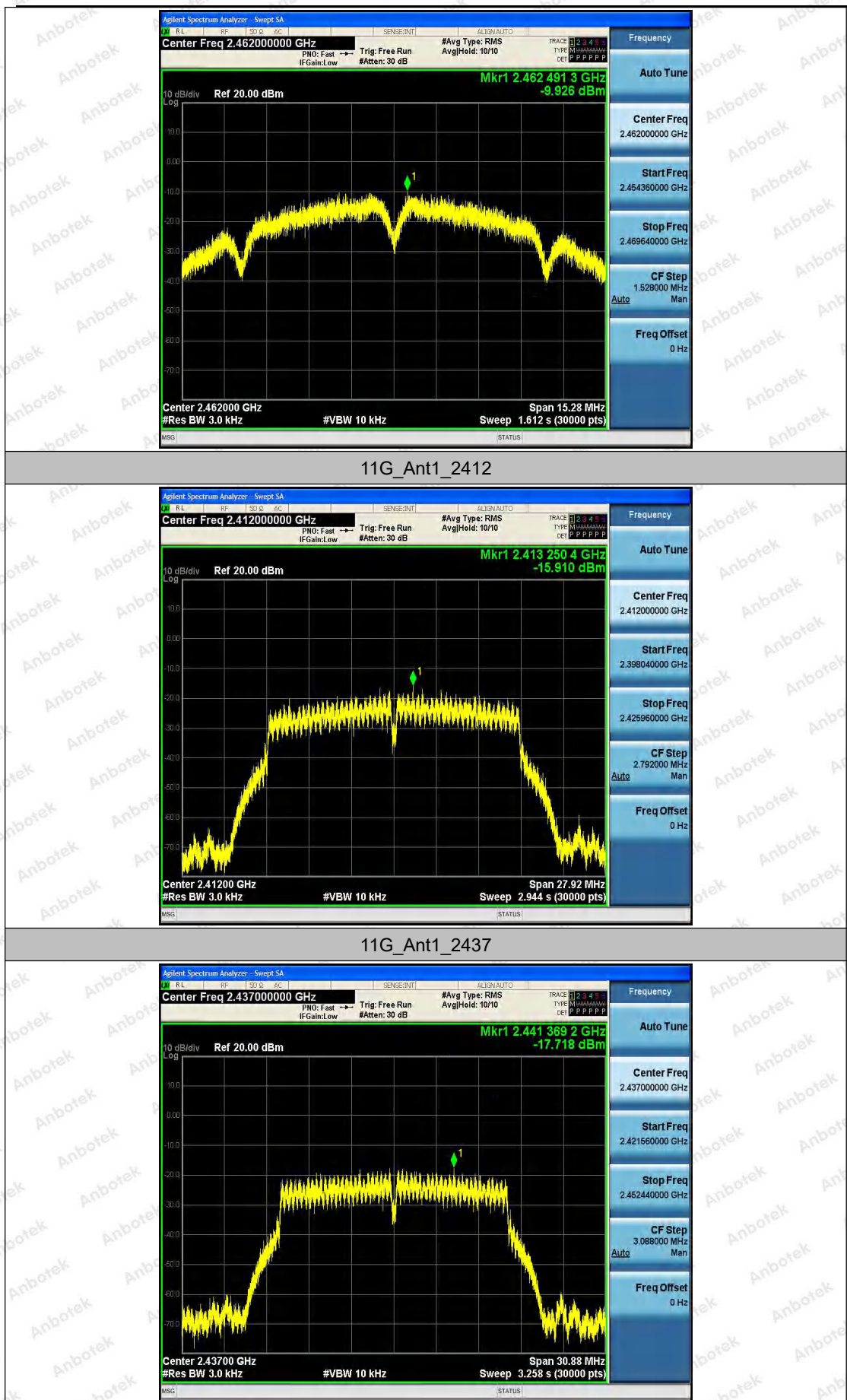
## Appendix D: Maximum power spectral density

### Test Result

| Test Mode | Antenna | Channel | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|-----------|---------|---------|------------------|-----------------|---------|
| 11B       | Ant1    | 2412    | -9.57            | ≤8              | PASS    |
|           |         | 2437    | -9.73            | ≤8              | PASS    |
|           |         | 2462    | -9.93            | ≤8              | PASS    |
| 11G       | Ant1    | 2412    | -15.91           | ≤8              | PASS    |
|           |         | 2437    | -17.72           | ≤8              | PASS    |
|           |         | 2462    | -17.16           | ≤8              | PASS    |
| 11N20     | Ant1    | 2412    | -18.57           | ≤8              | PASS    |
|           |         | 2437    | -17.82           | ≤8              | PASS    |
|           |         | 2462    | -17.52           | ≤8              | PASS    |

## Test Graphs



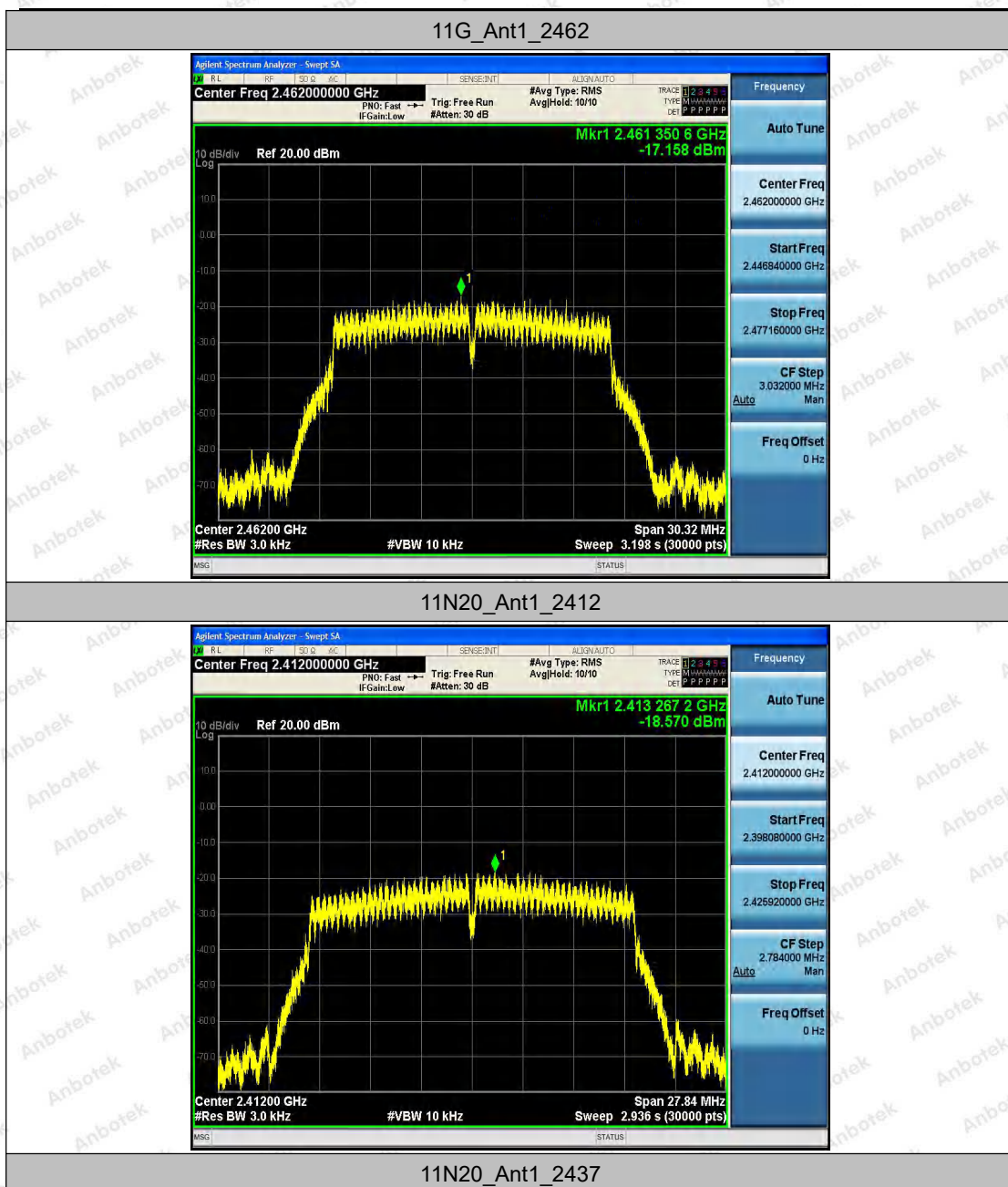


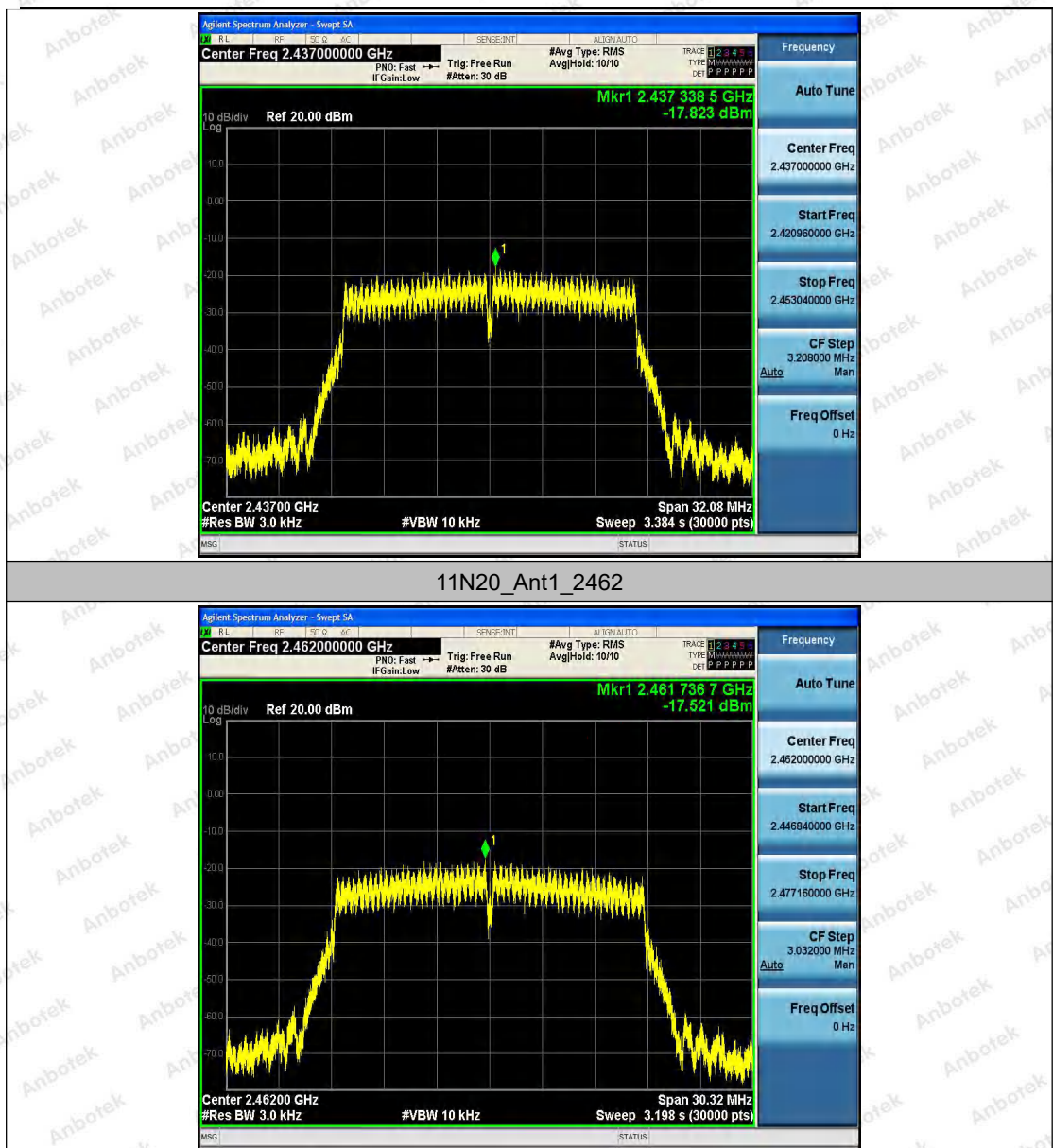
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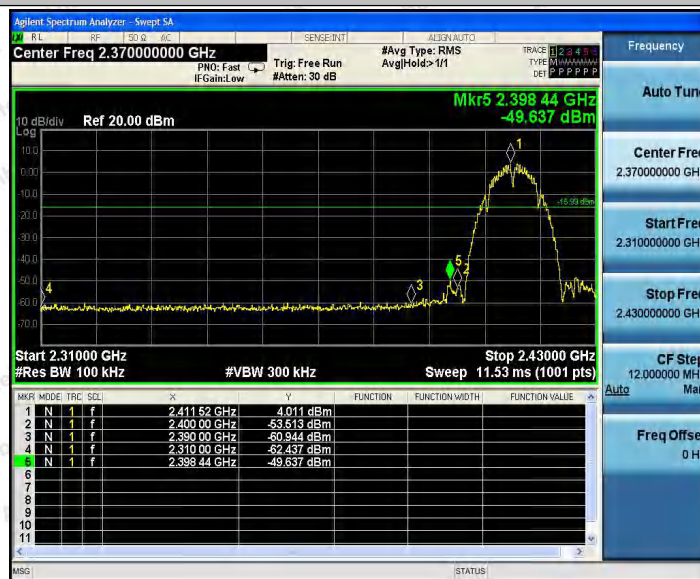
## Appendix E: Band edge measurements

### Test Result

| Test Mode | Antenna | Ch Name | Channel | Ref Level[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|---------|---------|----------------|-------------|------------|---------|
| 11B       | Ant1    | Low     | 2412    | 4.01           | -49.64      | ≤-15.99    | PASS    |
|           |         | High    | 2462    | 4.34           | -56.18      | ≤-15.66    | PASS    |
| 11G       | Ant1    | Low     | 2412    | -3.04          | -50.43      | ≤-23.04    | PASS    |
|           |         | High    | 2462    | -3.95          | -55.99      | ≤-23.95    | PASS    |
| 11N20     | Ant1    | Low     | 2412    | -2.84          | -48.71      | ≤-22.84    | PASS    |
|           |         | High    | 2462    | -3.49          | -54.97      | ≤-23.49    | PASS    |

## Test Graphs

11B\_Ant1\_Low\_2412



11B\_Ant1\_High\_2462



11G\_Ant1\_Low\_2412

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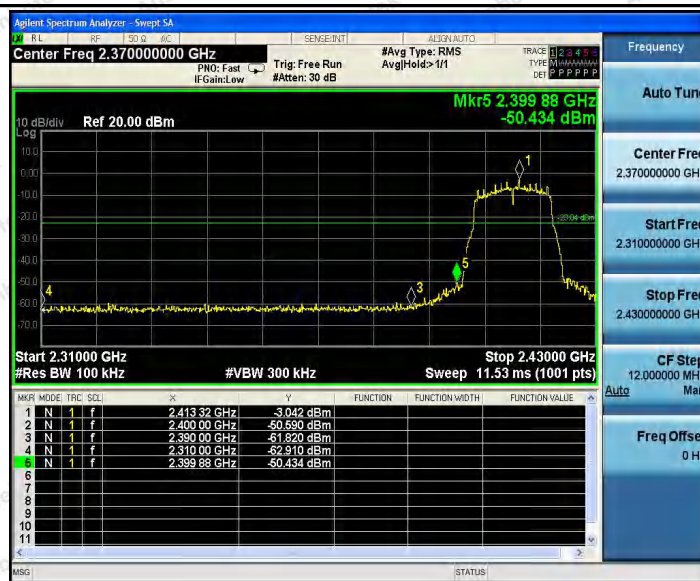
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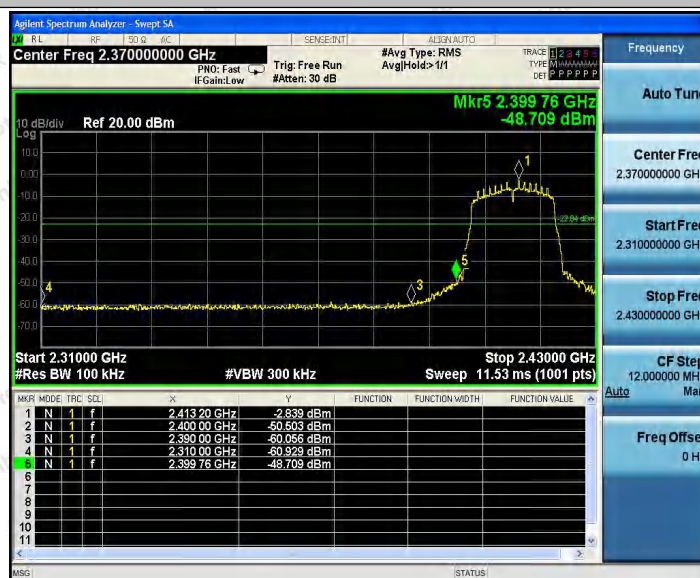
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11G\_Ant1\_High\_2462



11N20\_Ant1\_Low\_2412

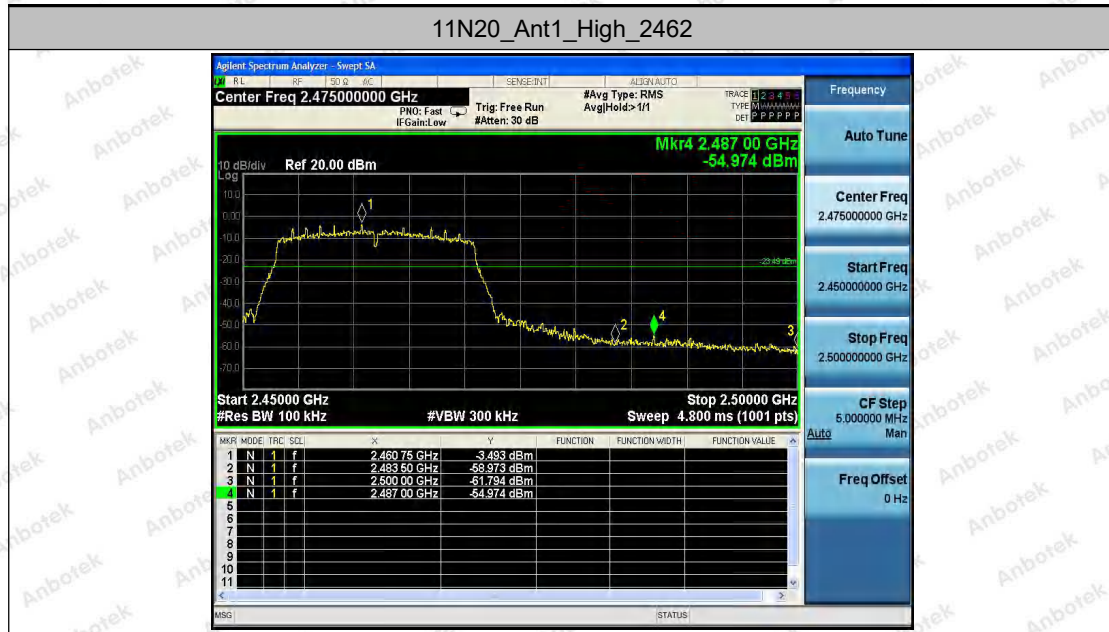


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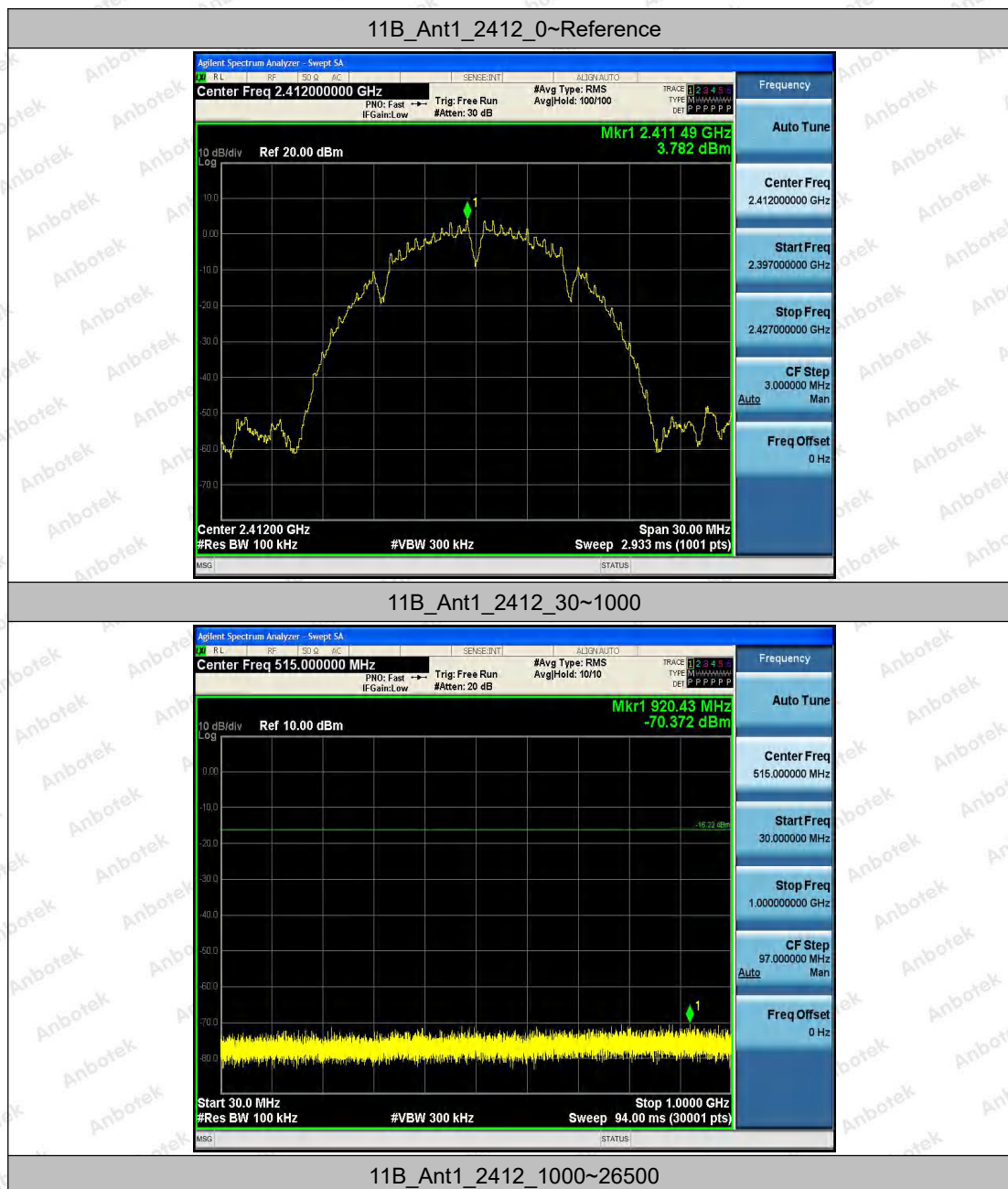
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## Appendix F: Conducted Spurious Emission

### Test Result

| Test Mode | Antenna | Channel | Freq Range [Mhz] | Ref Level [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|---------|------------------|-----------------|--------------|-------------|---------|
| 11B       | Ant1    | 2412    | Reference        | 3.78            | 3.78         | ---         | PASS    |
|           |         |         | 30~1000          | 3.78            | -70.37       | ≤-16.22     | PASS    |
|           |         |         | 1000~26500       | 3.78            | -49.49       | ≤-16.22     | PASS    |
|           |         | 2437    | Reference        | 4.12            | 4.12         | ---         | PASS    |
|           |         |         | 30~1000          | 4.12            | -70.77       | ≤-15.88     | PASS    |
|           |         |         | 1000~26500       | 4.12            | -48.44       | ≤-15.88     | PASS    |
|           |         | 2462    | Reference        | 4.20            | 4.20         | ---         | PASS    |
|           |         |         | 30~1000          | 4.20            | -70.19       | ≤-15.8      | PASS    |
|           |         |         | 1000~26500       | 4.20            | -50.66       | ≤-15.8      | PASS    |
| 11G       | Ant1    | 2412    | Reference        | -4.23           | -4.23        | ---         | PASS    |
|           |         |         | 30~1000          | -4.23           | -70.73       | ≤-24.23     | PASS    |
|           |         |         | 1000~26500       | -4.23           | -55.41       | ≤-24.23     | PASS    |
|           |         | 2437    | Reference        | -3.58           | -3.58        | ---         | PASS    |
|           |         |         | 30~1000          | -3.58           | -70.72       | ≤-23.58     | PASS    |
|           |         |         | 1000~26500       | -3.58           | -55.86       | ≤-23.58     | PASS    |
|           |         | 2462    | Reference        | -4.43           | -4.43        | ---         | PASS    |
|           |         |         | 30~1000          | -4.43           | -70.45       | ≤-24.43     | PASS    |
|           |         |         | 1000~26500       | -4.43           | -56.07       | ≤-24.43     | PASS    |
| 11N20     | Ant1    | 2412    | Reference        | -3.35           | -3.35        | ---         | PASS    |
|           |         |         | 30~1000          | -3.35           | -70.25       | ≤-23.35     | PASS    |
|           |         |         | 1000~26500       | -3.35           | -55.5        | ≤-23.35     | PASS    |
|           |         | 2437    | Reference        | -4.90           | -4.90        | ---         | PASS    |
|           |         |         | 30~1000          | -4.90           | -70.71       | ≤-24.9      | PASS    |
|           |         |         | 1000~26500       | -4.90           | -55.46       | ≤-24.9      | PASS    |
|           |         | 2462    | Reference        | -4.44           | -4.44        | ---         | PASS    |
|           |         |         | 30~1000          | -4.44           | -70.01       | ≤-24.44     | PASS    |
|           |         |         | 1000~26500       | -4.44           | -55.92       | ≤-24.44     | PASS    |

## Test Graphs



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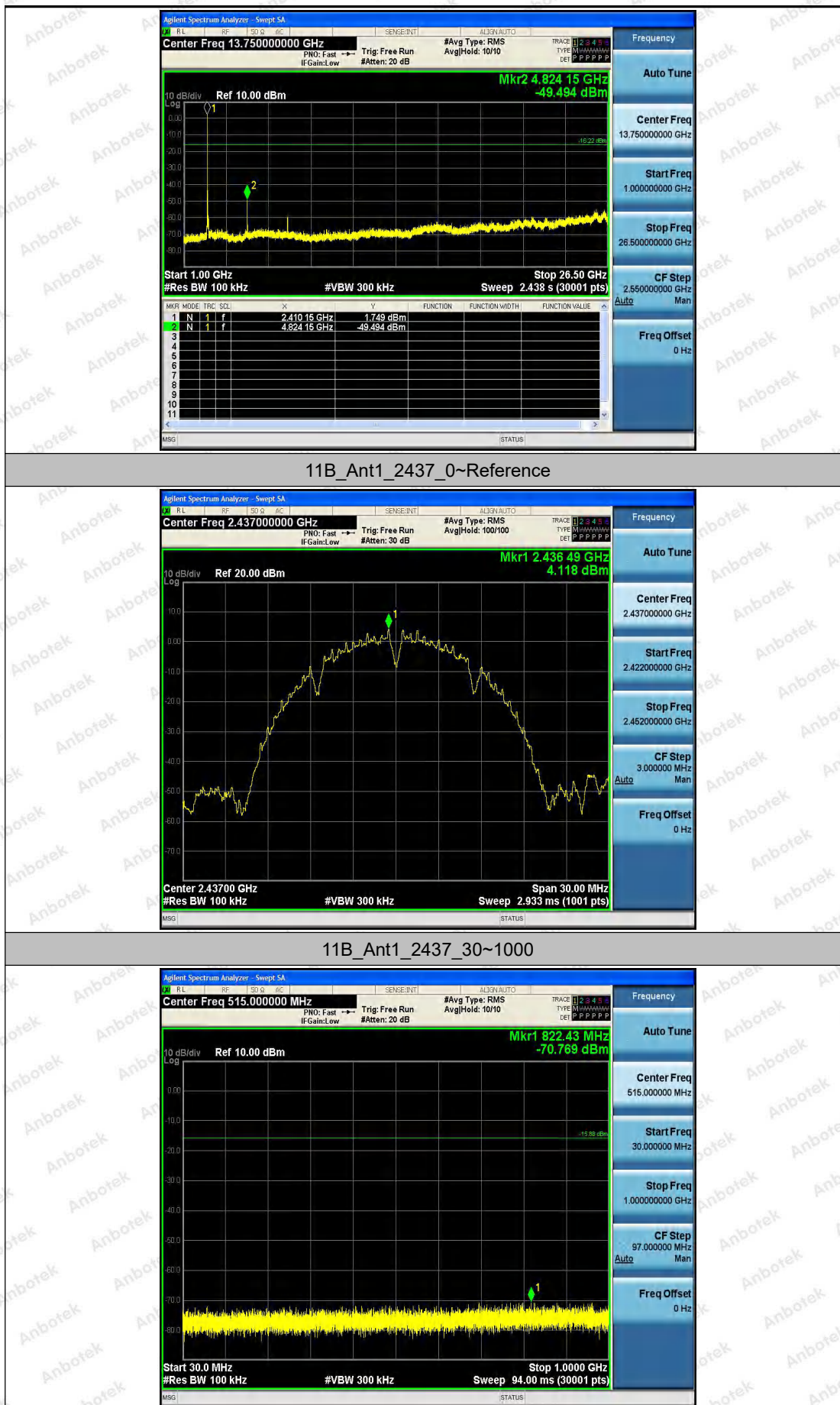
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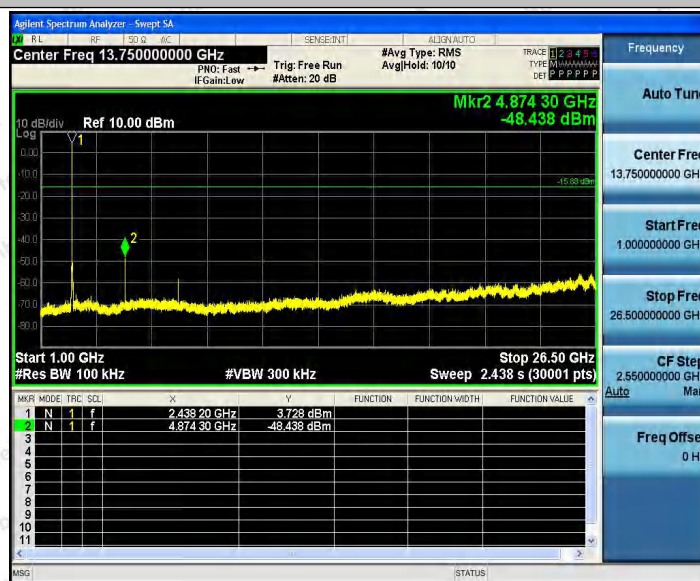
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## 11B\_Ant1\_2437\_1000~26500



## 11B\_Ant1\_2462\_0~Reference



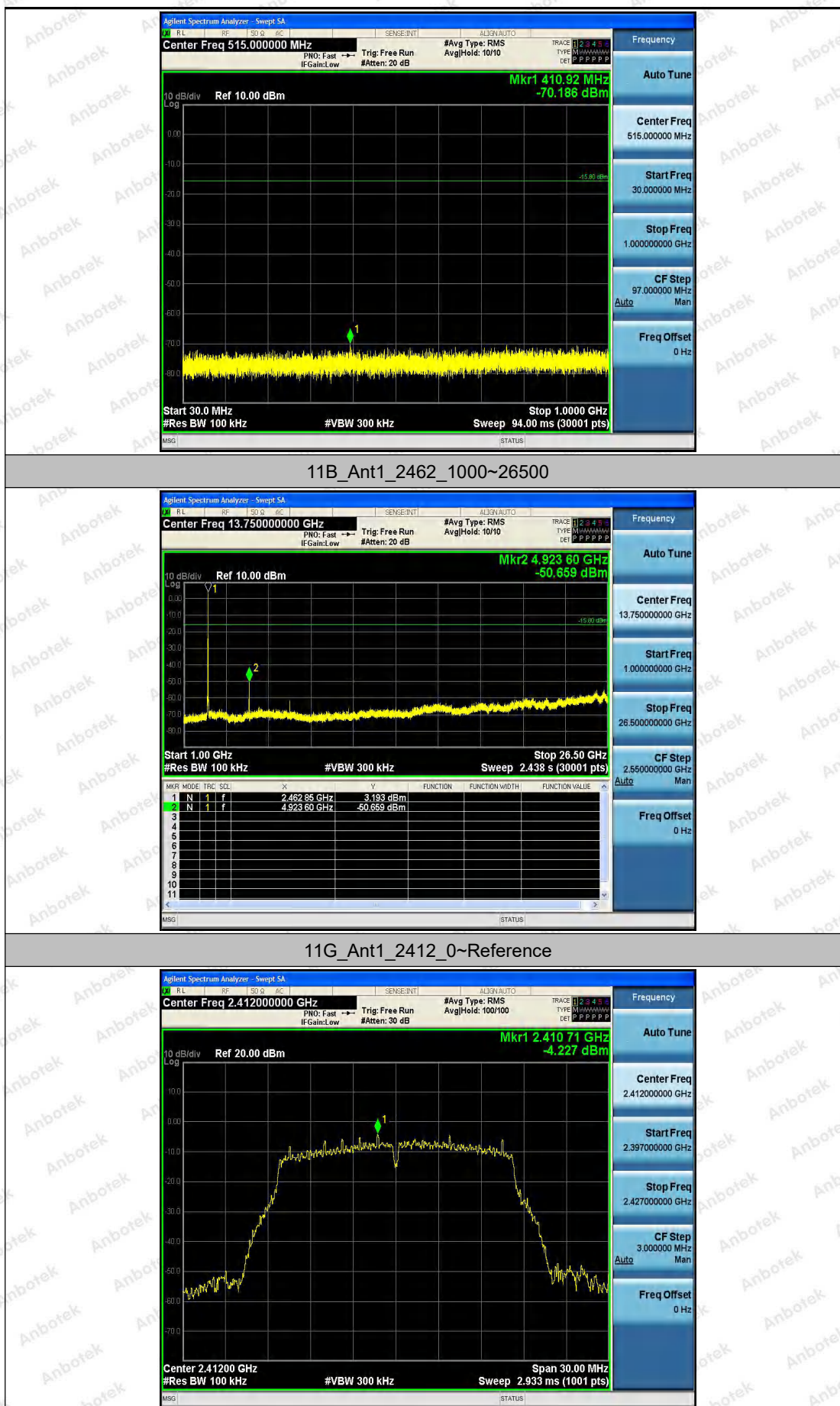
## 11B\_Ant1\_2462\_30~1000

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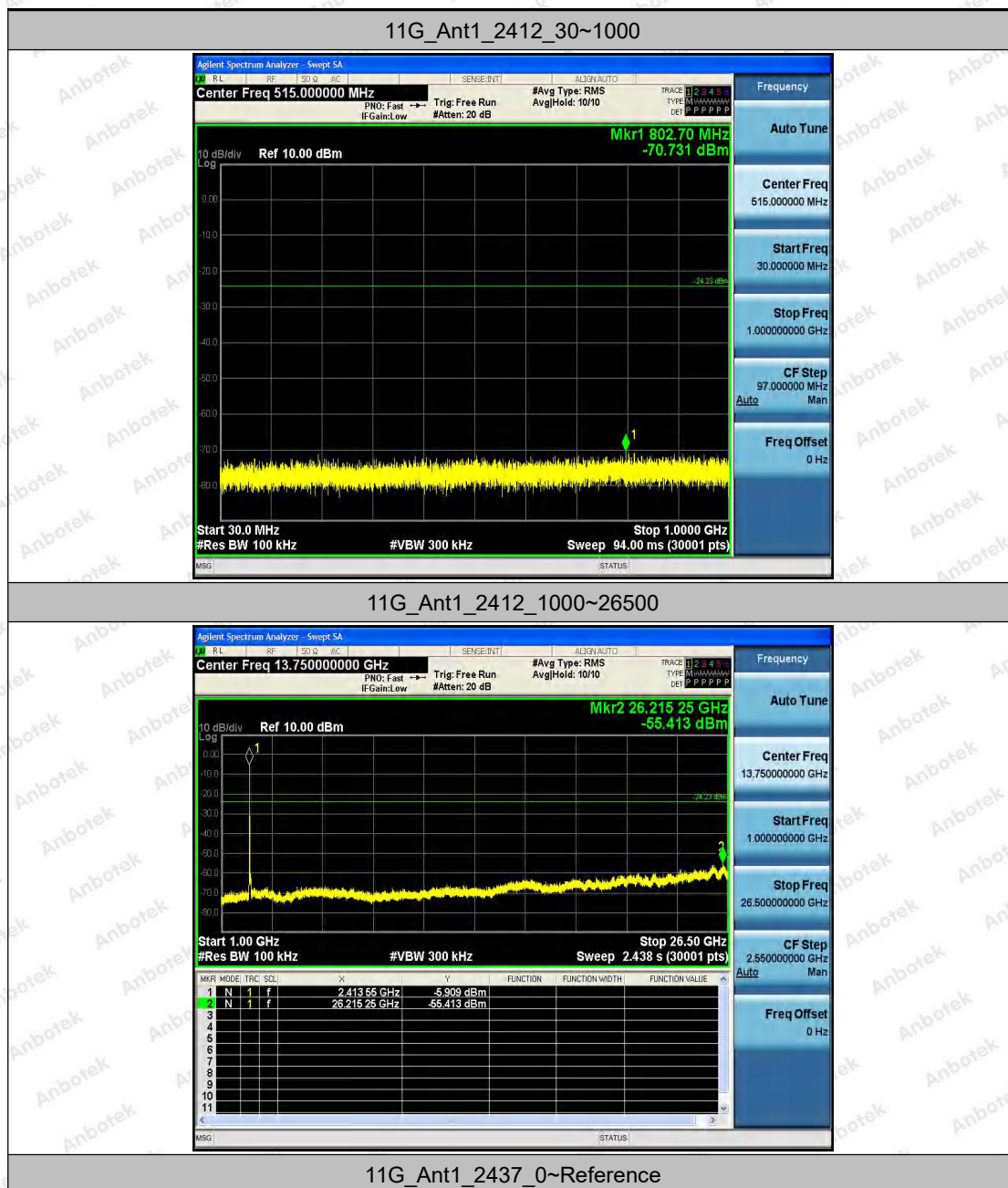


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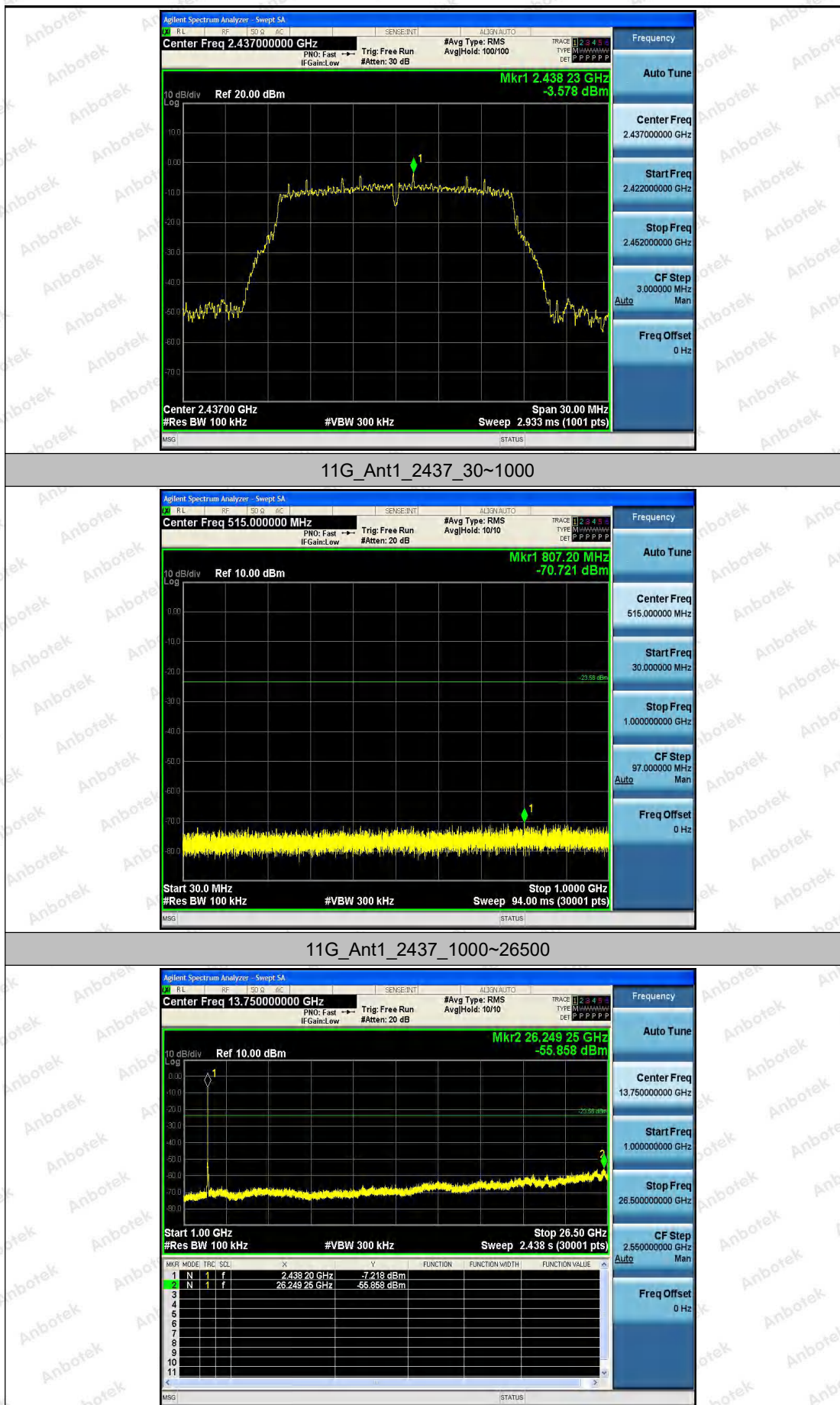


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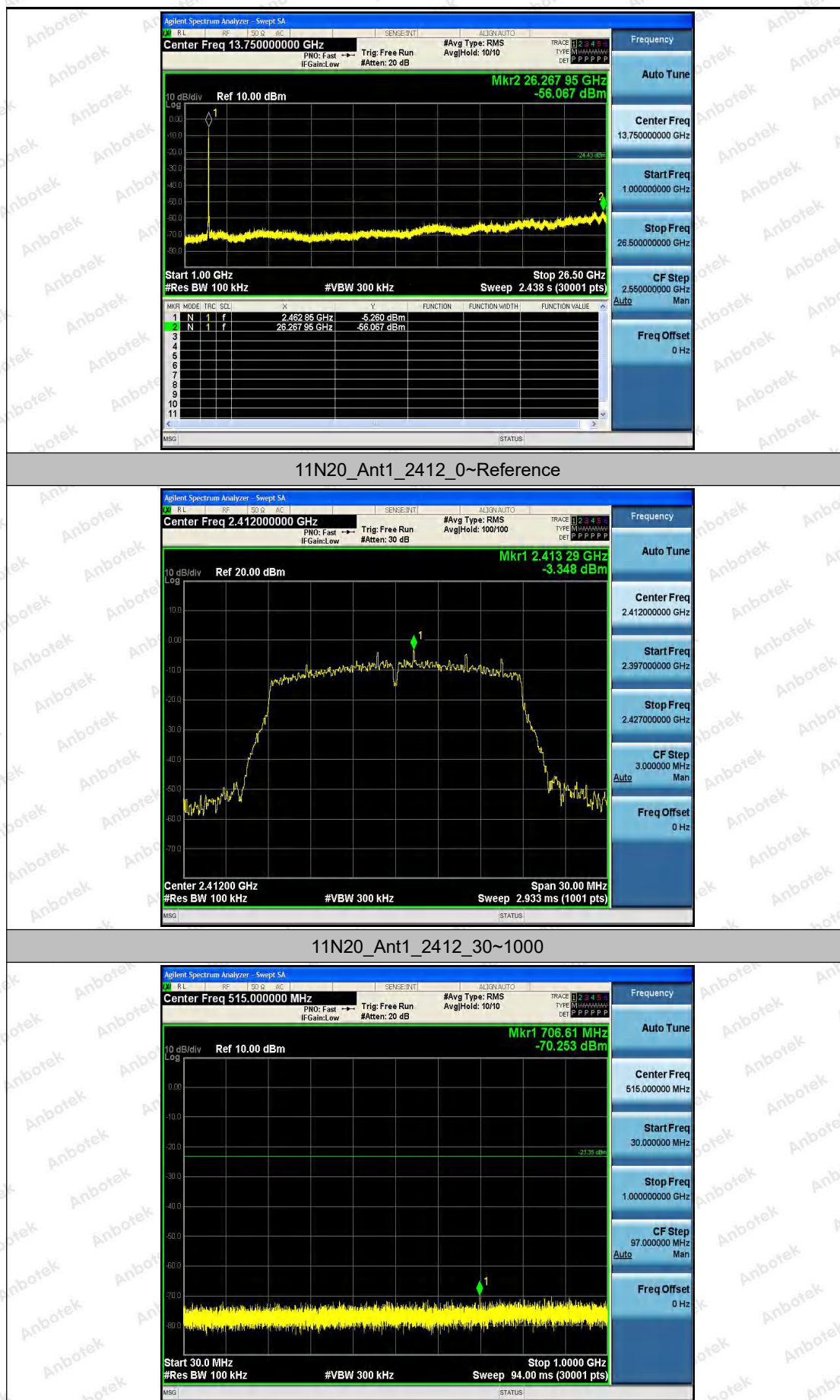


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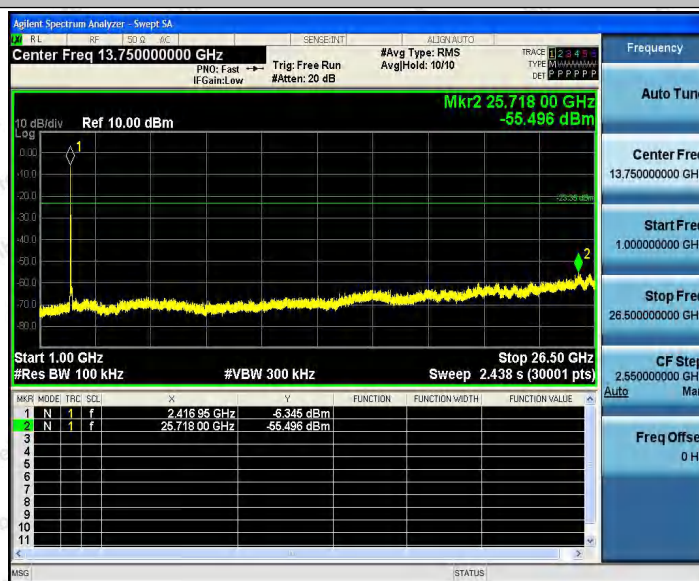
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11N20\_Ant1\_2412\_1000~26500



11N20\_Ant1\_2437\_0~Reference



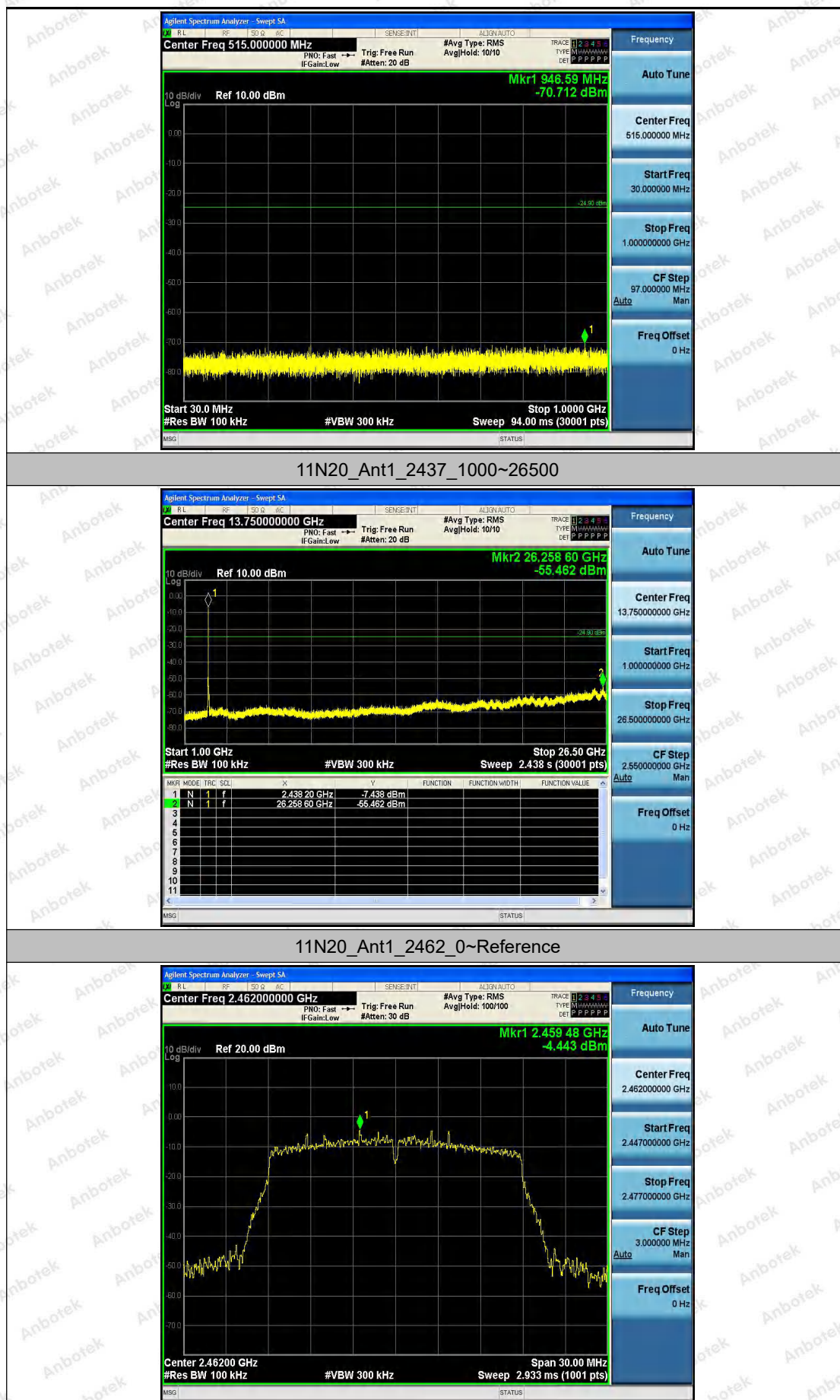
11N20\_Ant1\_2437\_30~1000

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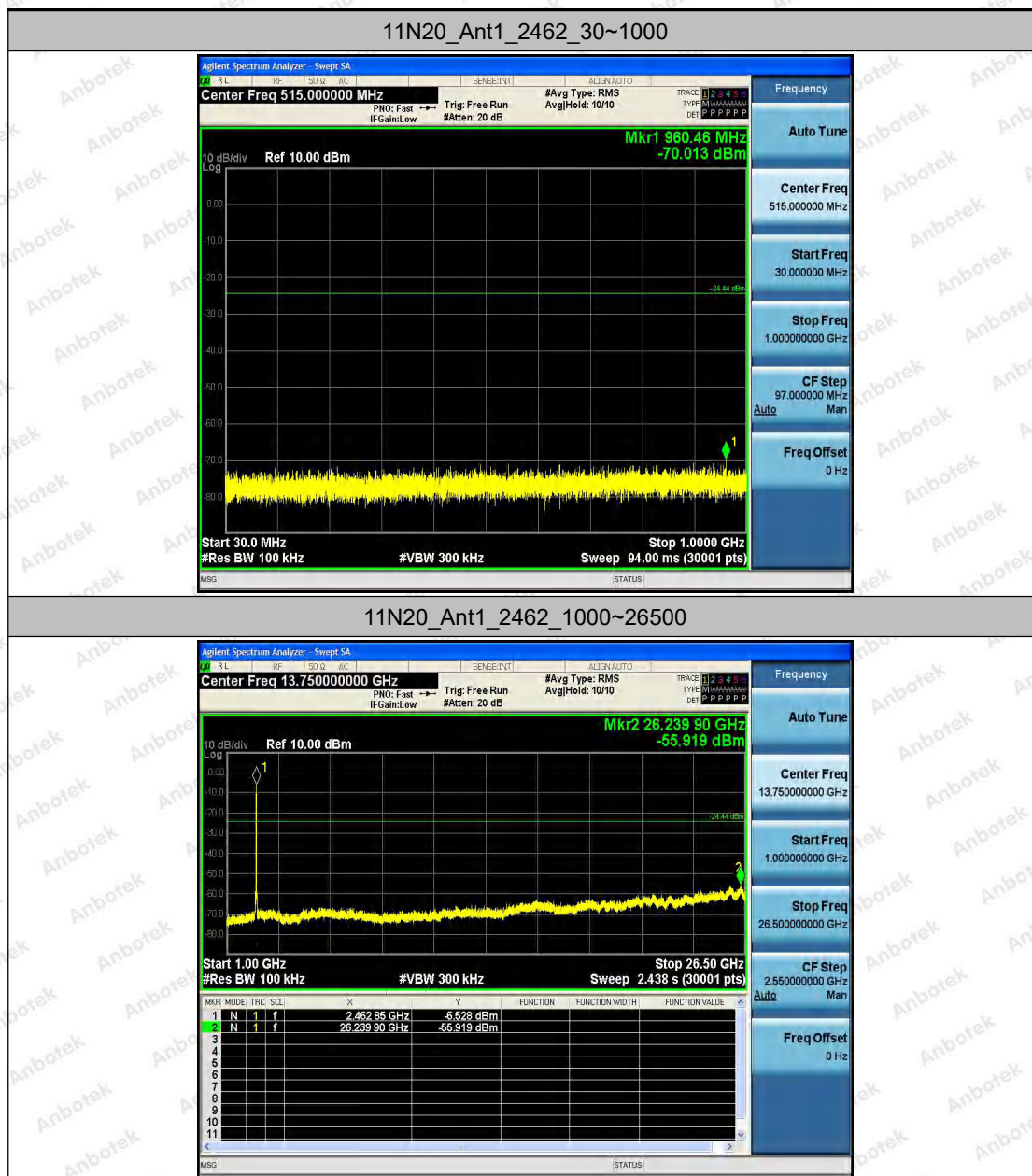


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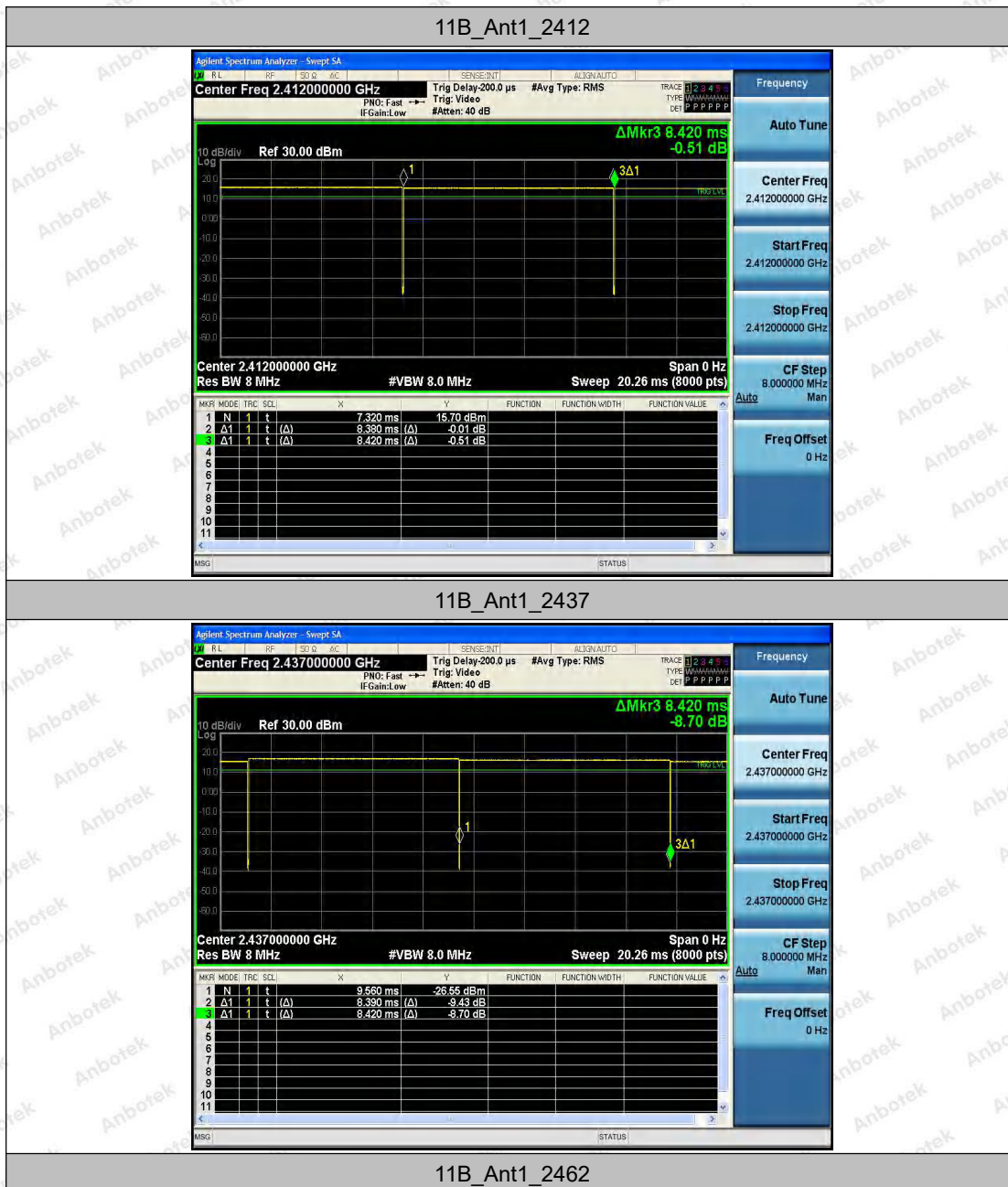
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## Appendix G: Duty Cycle

### Test Result

| Test Mode | Antenna | Channel | Transmission Duration [ms] | Transmission Period [ms] | Duty Cycle [%] | Limit | Verdict |
|-----------|---------|---------|----------------------------|--------------------------|----------------|-------|---------|
| 11B       | Ant1    | 2412    | 8.38                       | 8.42                     | 99.52          | ---   | PASS    |
|           |         | 2437    | 8.39                       | 8.42                     | 99.64          | ---   | PASS    |
|           |         | 2462    | 8.38                       | 8.42                     | 99.52          | ---   | PASS    |
| 11G       | Ant1    | 2412    | 1.39                       | 1.44                     | 96.53          | ---   | PASS    |
|           |         | 2437    | 1.39                       | 1.43                     | 97.20          | ---   | PASS    |
|           |         | 2462    | 1.39                       | 1.43                     | 97.20          | ---   | PASS    |
| 11N20     | Ant1    | 2412    | 1.28                       | 1.33                     | 96.24          | ---   | PASS    |
|           |         | 2437    | 1.29                       | 1.33                     | 96.99          | ---   | PASS    |
|           |         | 2462    | 1.28                       | 1.33                     | 96.24          | ---   | PASS    |

## Test Graphs



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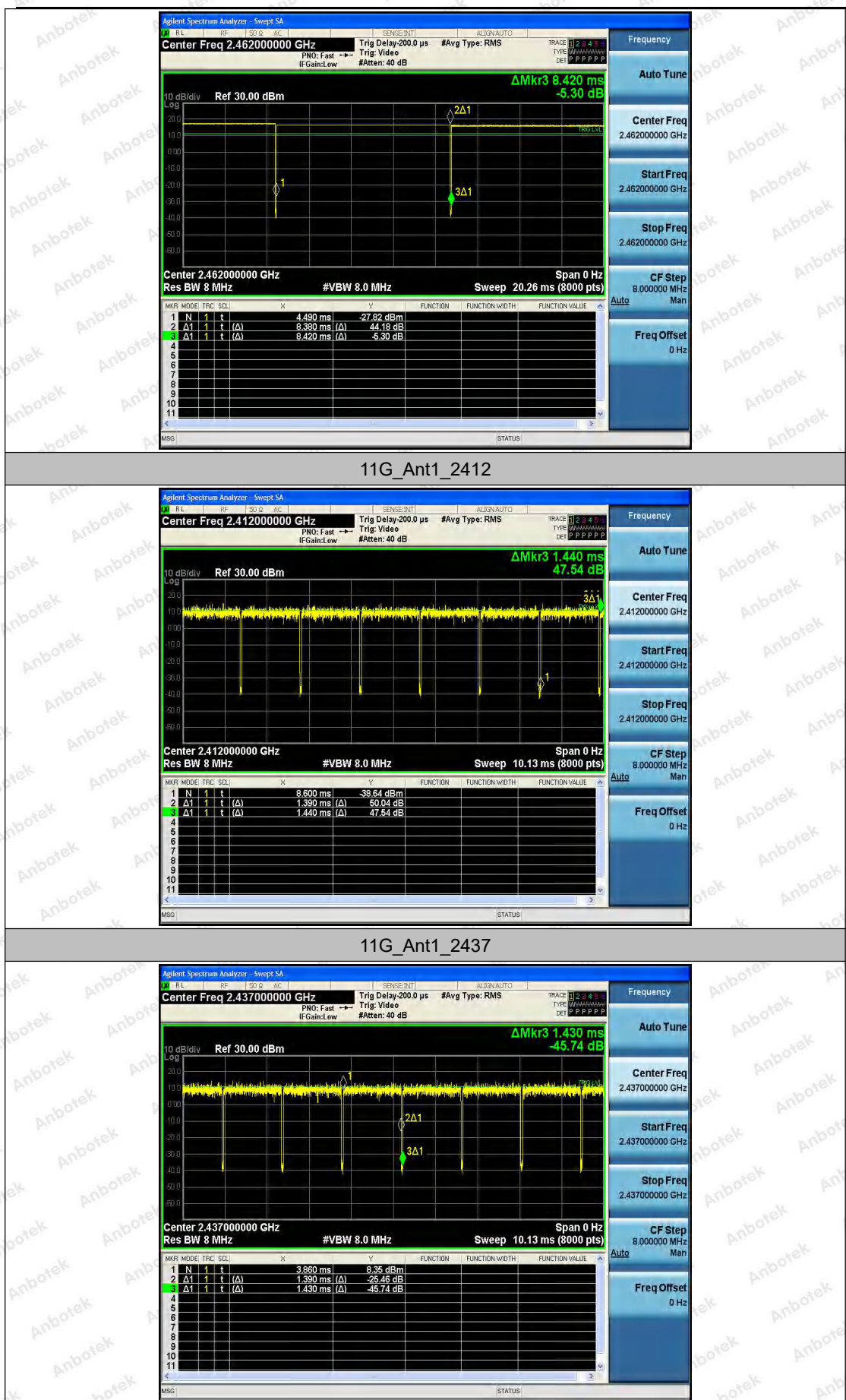
Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

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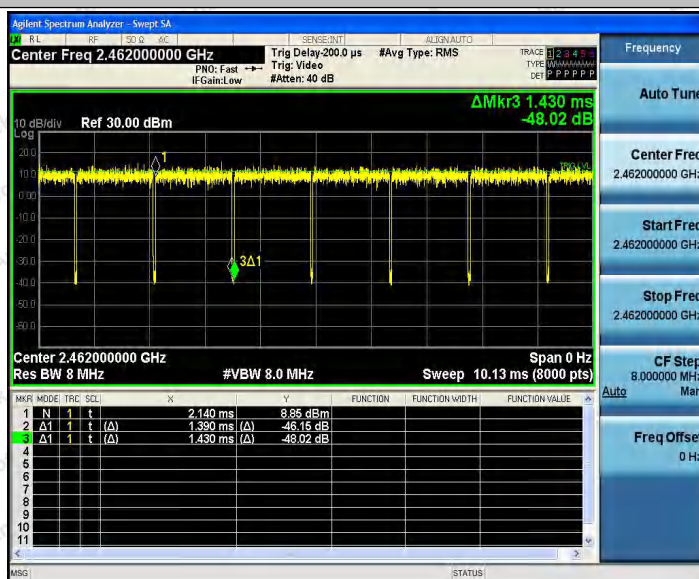
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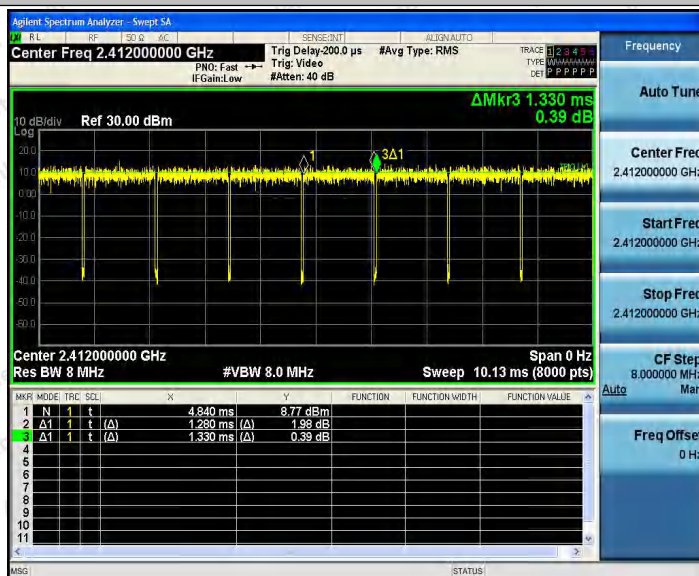
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## 11G\_Ant1\_2462



## 11N20\_Ant1\_2412



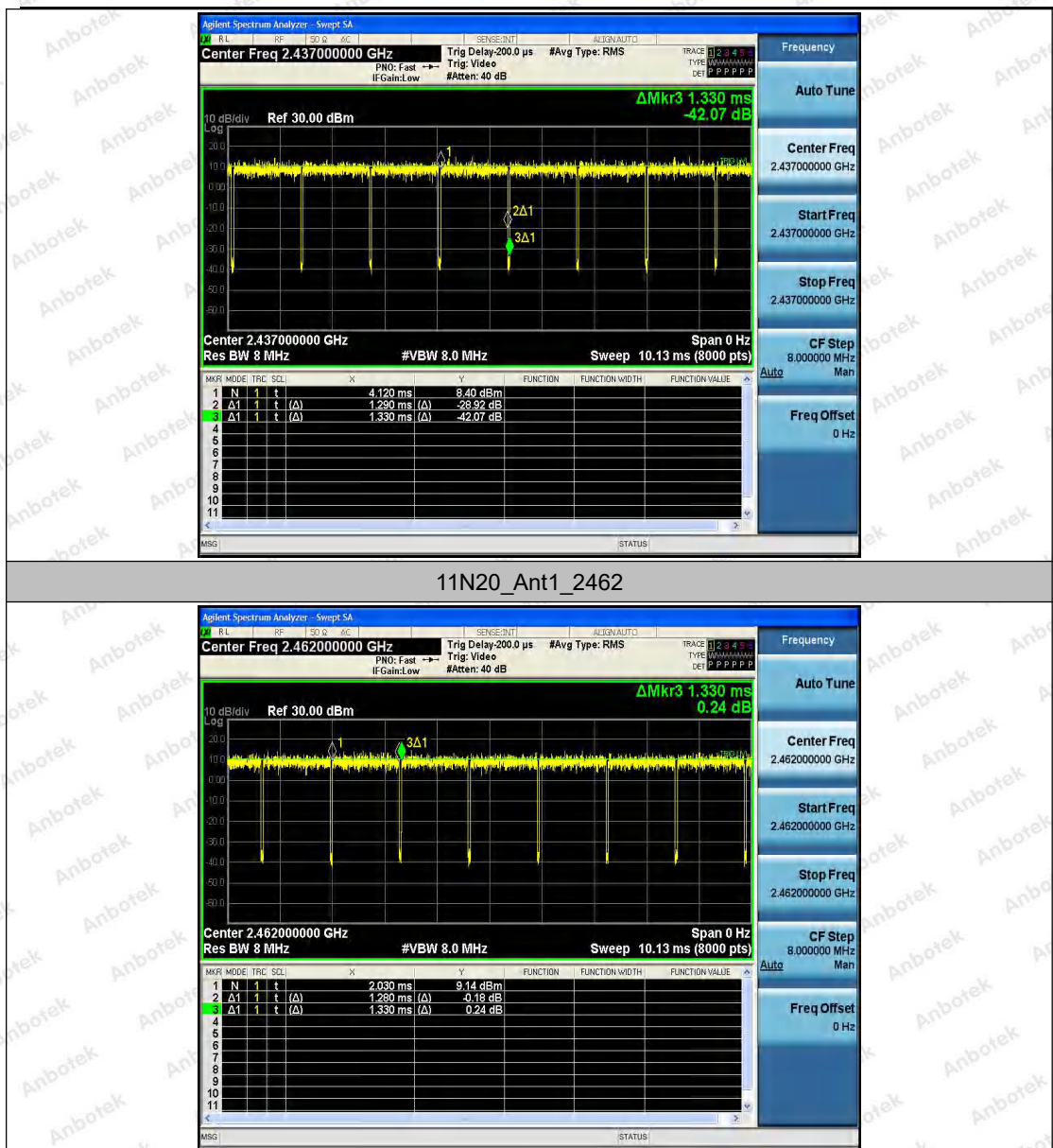
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