

## Appendix Test Data

|                  |                 |                    |                   |
|------------------|-----------------|--------------------|-------------------|
| Report No.:      | 18220WC30017202 | Test Sample No.:   | 1-2-2             |
| Start Test Date: | 2023.2.9        | Finish Test Date:  | 2023.2.15         |
| Test Engineer:   | <i>Tony He</i>  | Auditor:           | <i>Edward Pan</i> |
| Temperature:     | 22.3°C          | Relative Humidity: | 47 %              |
| Pressure:        | 1012 hPa        |                    |                   |

## Appendix A: DTS Bandwidth

## Test Result

| TestMode | Antenna | Frequency[MHz] | DTS BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|----------------|--------------|----------|----------|------------|---------|
| 11B      | Ant1    | 2412           | 9.520        | 2407.480 | 2417.000 | ≥0.5       | PASS    |
|          |         | 2437           | 9.560        | 2432.000 | 2441.560 | ≥0.5       | PASS    |
|          |         | 2462           | 8.600        | 2457.480 | 2466.080 | ≥0.5       | PASS    |
| 11G      | Ant1    | 2412           | 16.440       | 2403.800 | 2420.240 | ≥0.5       | PASS    |
|          |         | 2437           | 16.320       | 2428.840 | 2445.160 | ≥0.5       | PASS    |
|          |         | 2462           | 16.360       | 2453.800 | 2470.160 | ≥0.5       | PASS    |
| 11N20    | Ant1    | 2412           | 17.640       | 2403.200 | 2420.840 | ≥0.5       | PASS    |
|          |         | 2437           | 17.600       | 2428.200 | 2445.800 | ≥0.5       | PASS    |
|          |         | 2462           | 17.640       | 2453.160 | 2470.800 | ≥0.5       | PASS    |
| 11N40    | Ant1    | 2422           | 35.580       | 2404.240 | 2439.820 | ≥0.5       | PASS    |
|          |         | 2437           | 35.460       | 2419.120 | 2454.580 | ≥0.5       | PASS    |
|          |         | 2452           | 35.700       | 2433.880 | 2469.580 | ≥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



11N20\_Ant1\_2412

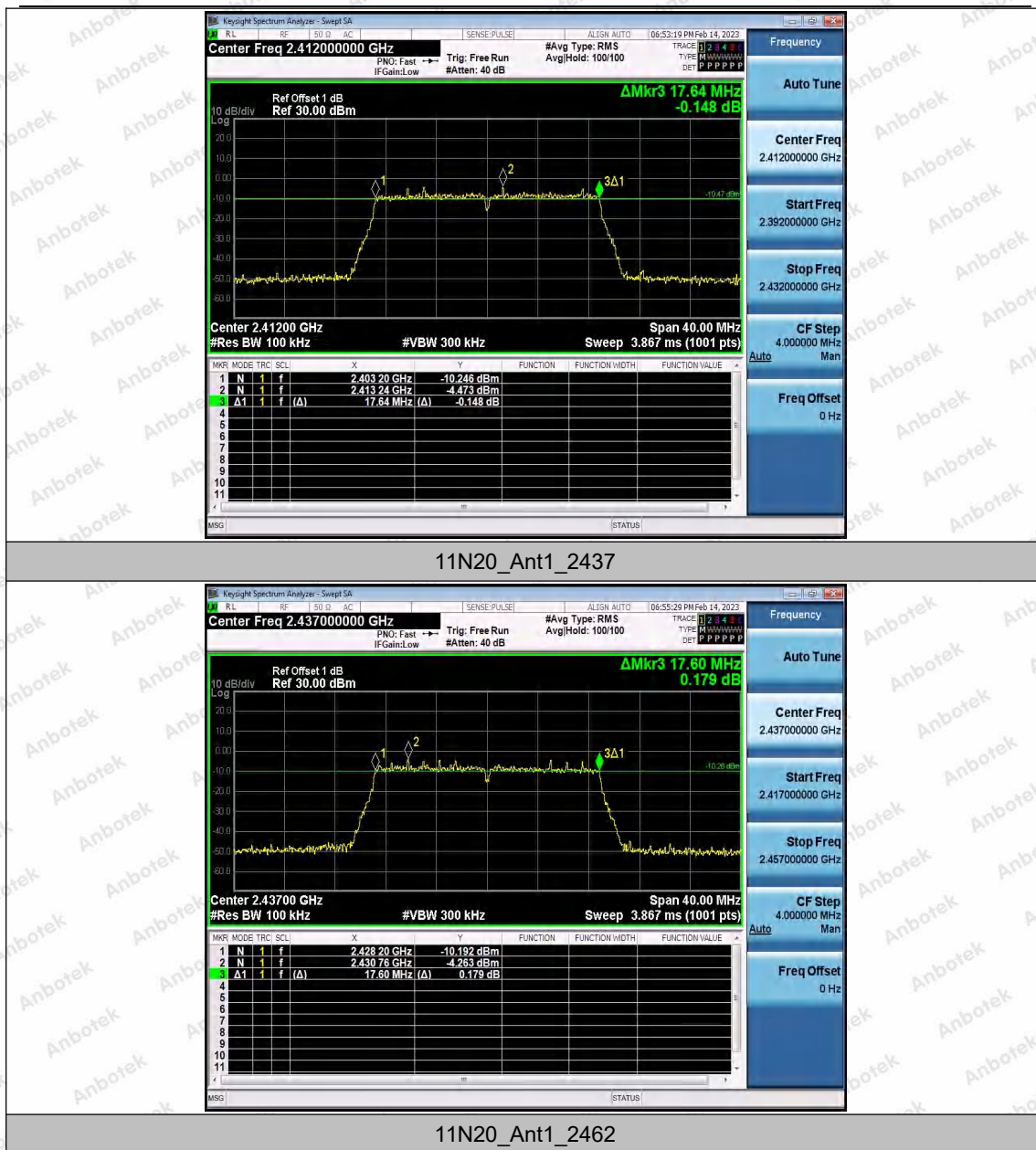
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11N40\_Ant1\_2422



11N40\_Ant1\_2437

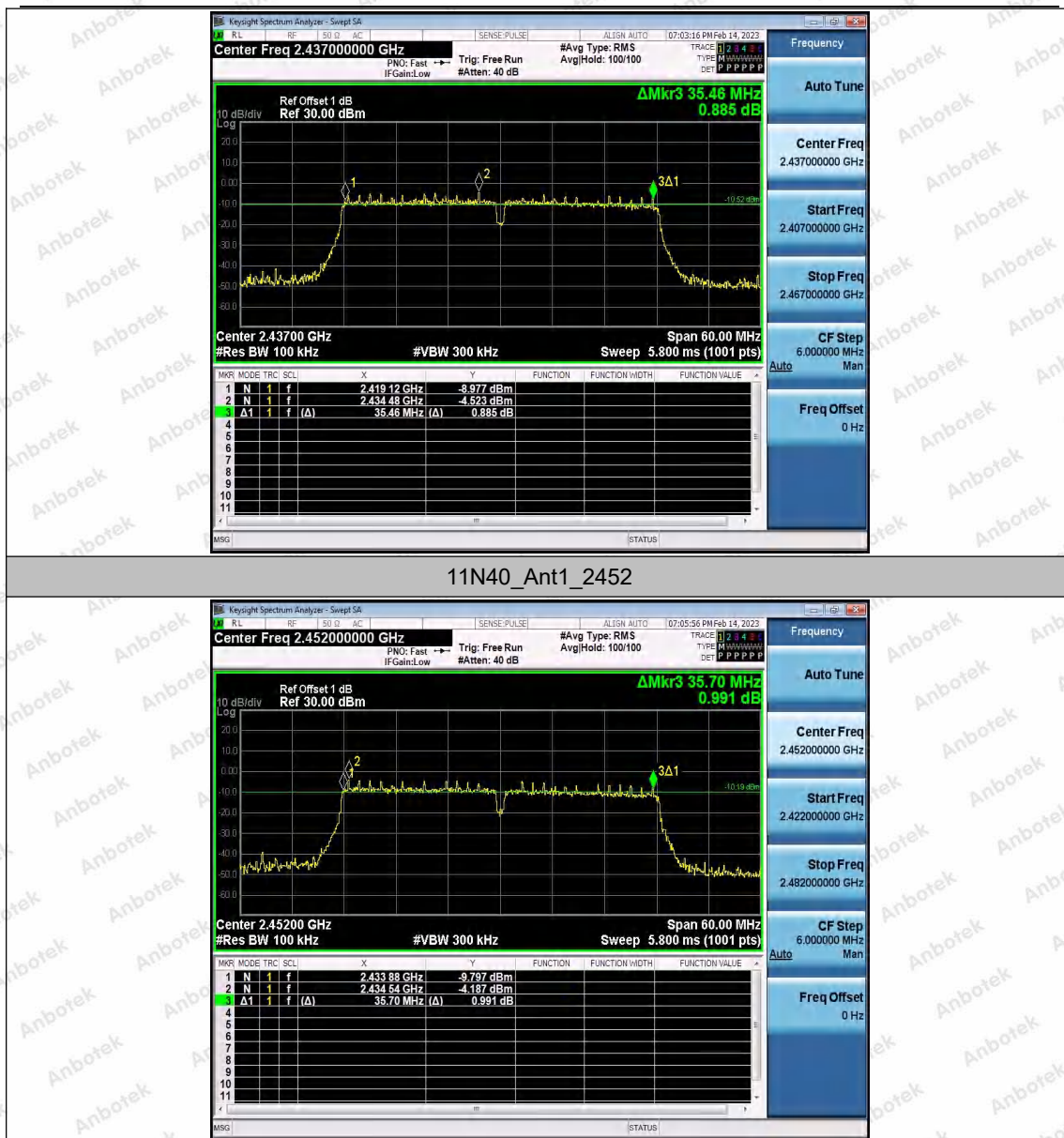
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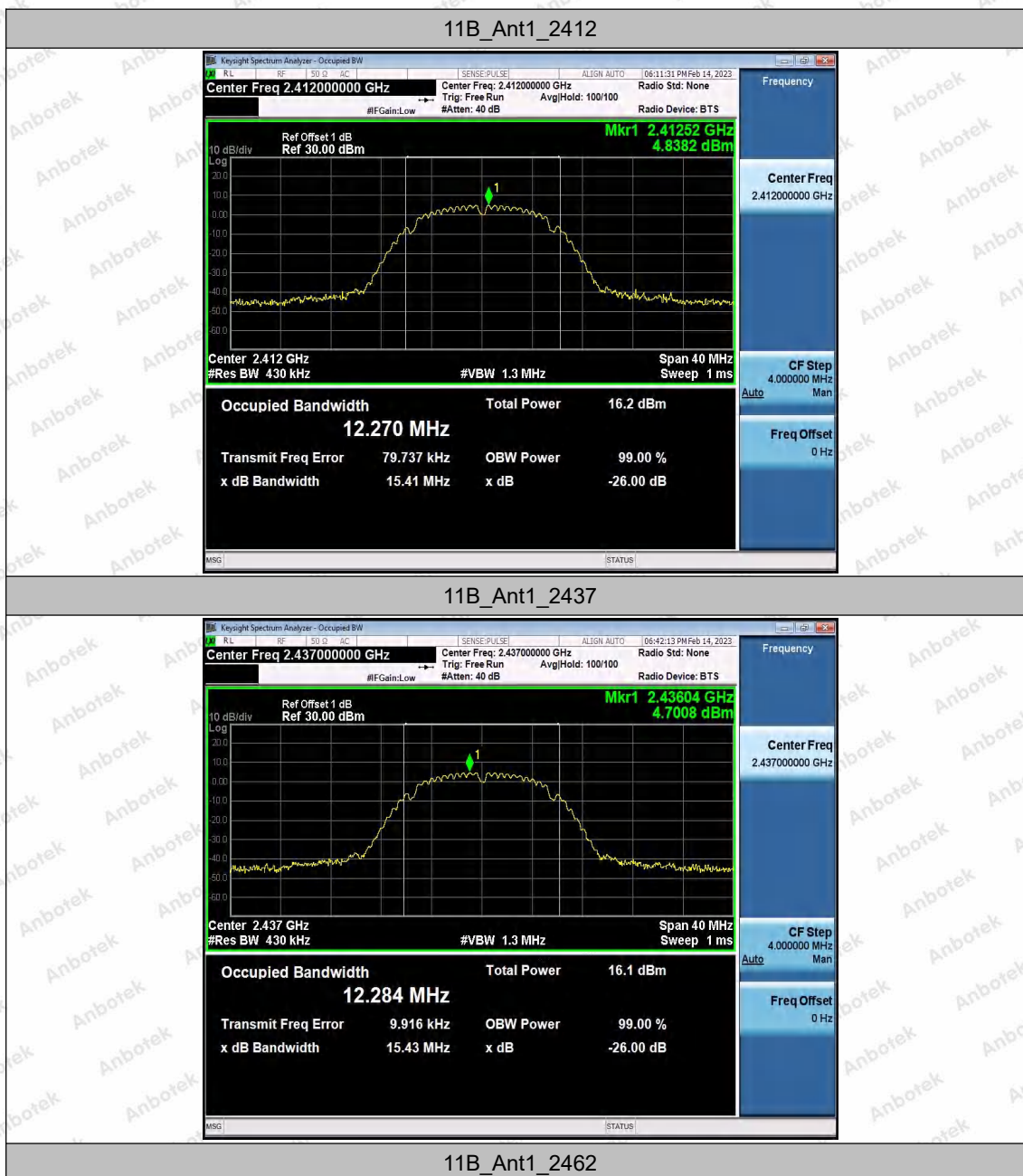
## Appendix B: Occupied Channel Bandwidth

### Test Result

| TestMode | Antenna | Channel Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|----------|---------|------------------------|-----------|-----------|-----------|------------|---------|
| 11B      | Ant1    | 2412                   | 12.270    | 2405.9447 | 2418.2147 | ---        | ---     |
|          |         | 2437                   | 12.284    | 2430.8679 | 2443.1519 | ---        | ---     |
|          |         | 2462                   | 12.374    | 2455.7870 | 2468.1610 | ---        | ---     |
| 11G      | Ant1    | 2412                   | 17.129    | 2403.4920 | 2420.6210 | ---        | ---     |
|          |         | 2437                   | 17.119    | 2428.4504 | 2445.5694 | ---        | ---     |
|          |         | 2462                   | 17.154    | 2453.3749 | 2470.5289 | ---        | ---     |
| 11N20    | Ant1    | 2412                   | 17.940    | 2403.0770 | 2421.0170 | ---        | ---     |
|          |         | 2437                   | 17.915    | 2428.0407 | 2445.9557 | ---        | ---     |
|          |         | 2462                   | 18.021    | 2453.0186 | 2471.0396 | ---        | ---     |
| 11N40    | Ant1    | 2422                   | 36.081    | 2404.0300 | 2440.1110 | ---        | ---     |
|          |         | 2437                   | 36.111    | 2418.9345 | 2455.0455 | ---        | ---     |
|          |         | 2452                   | 36.142    | 2433.9027 | 2470.0447 | ---        | ---     |



## Test Graphs



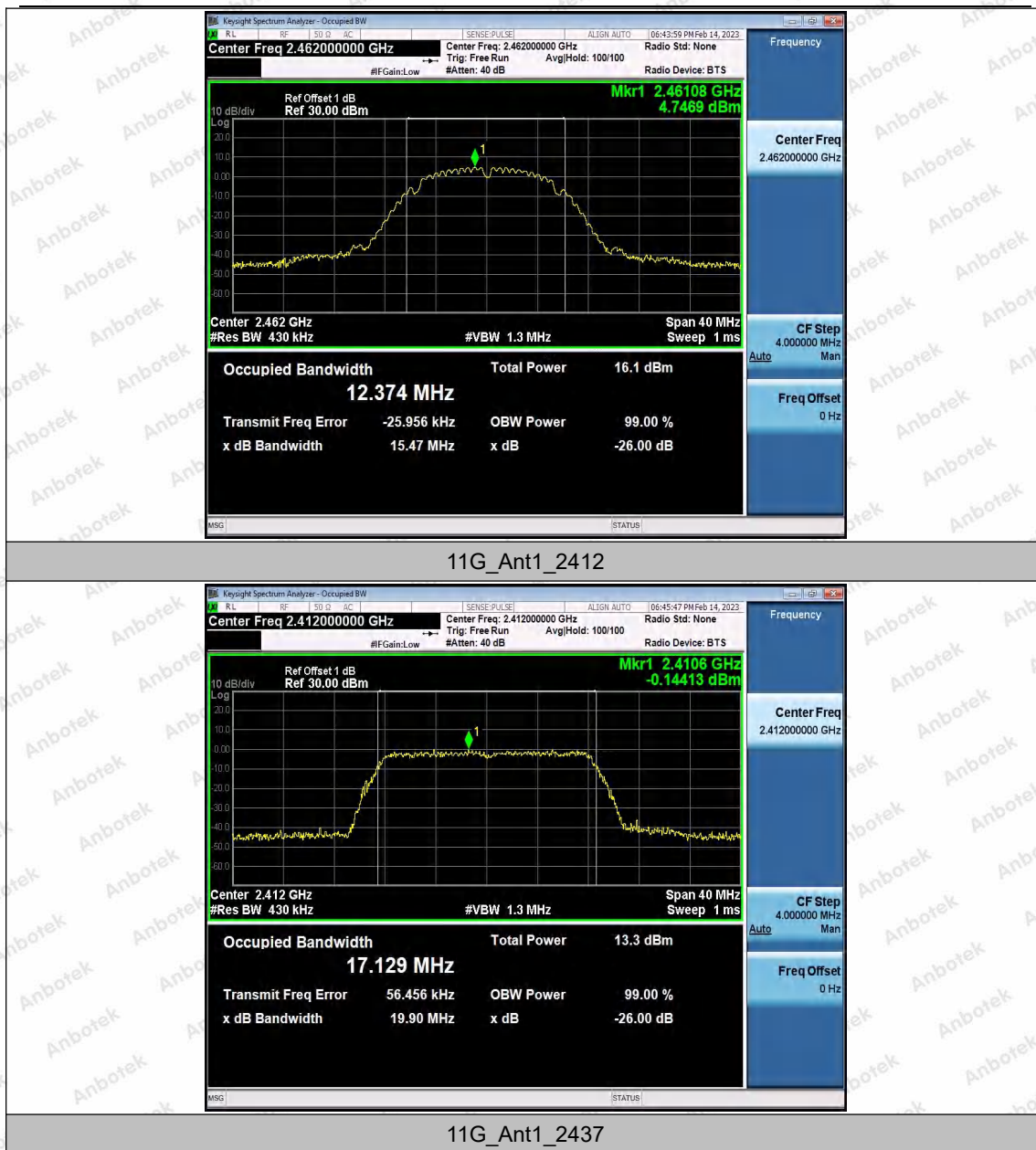
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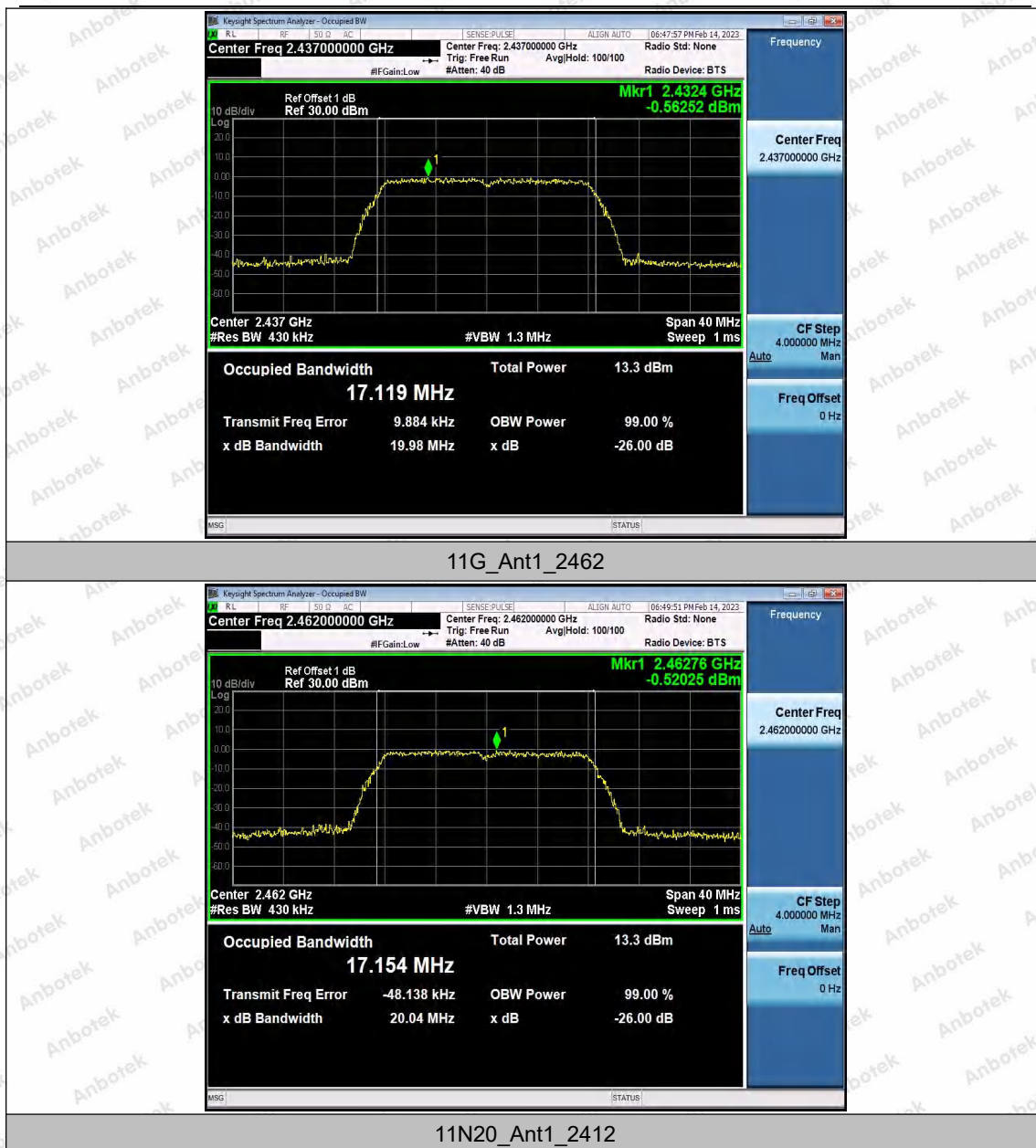
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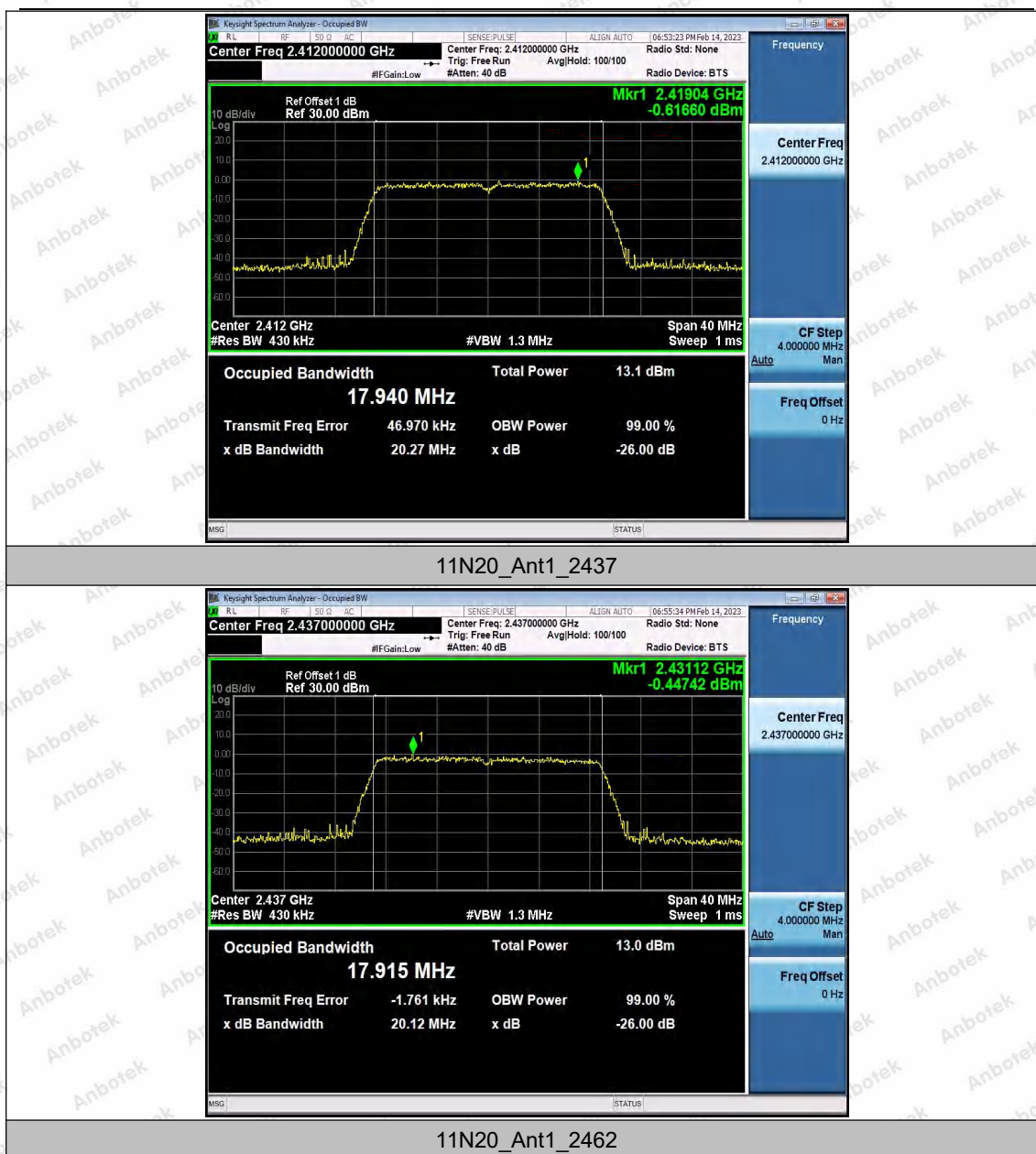
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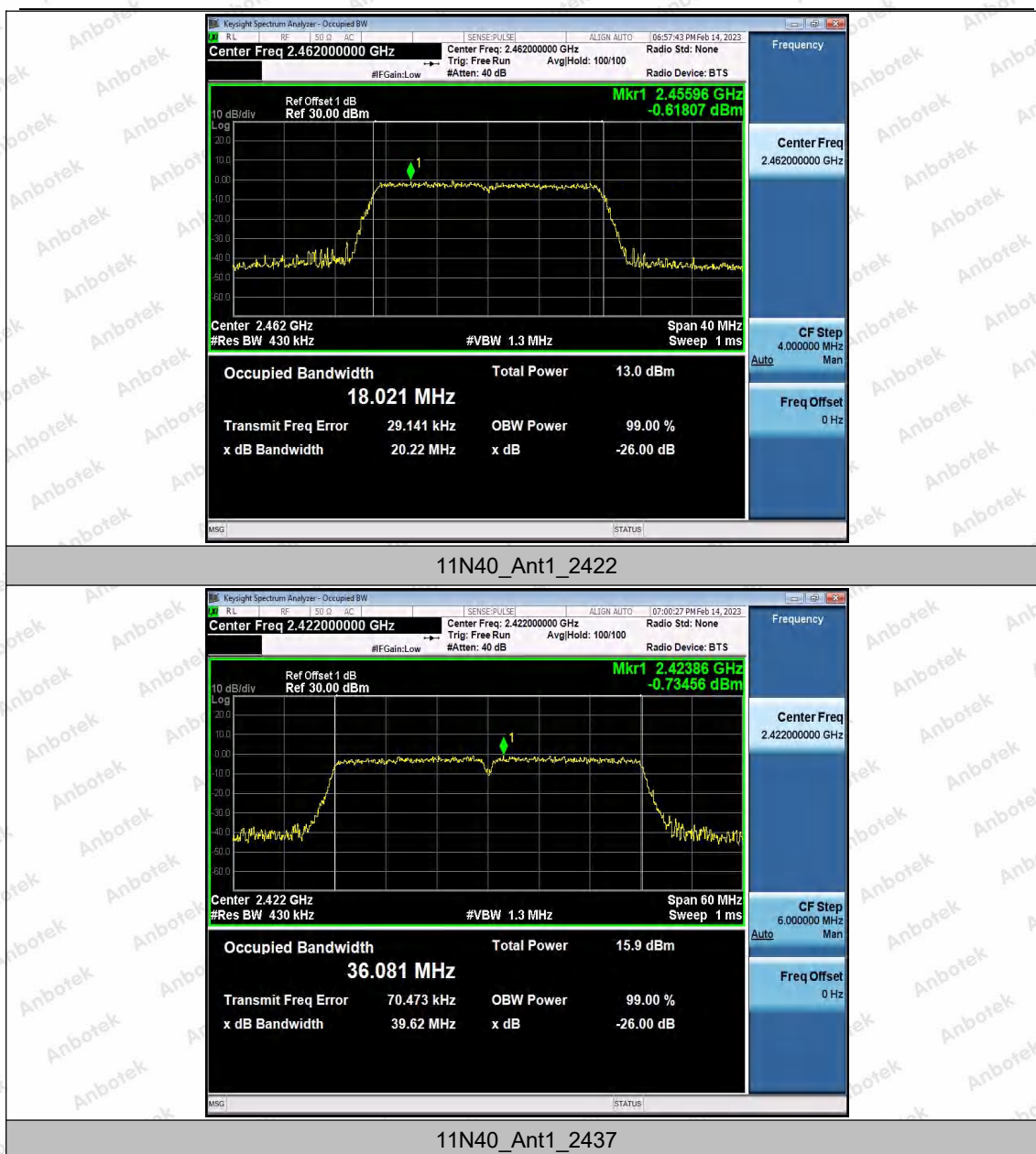
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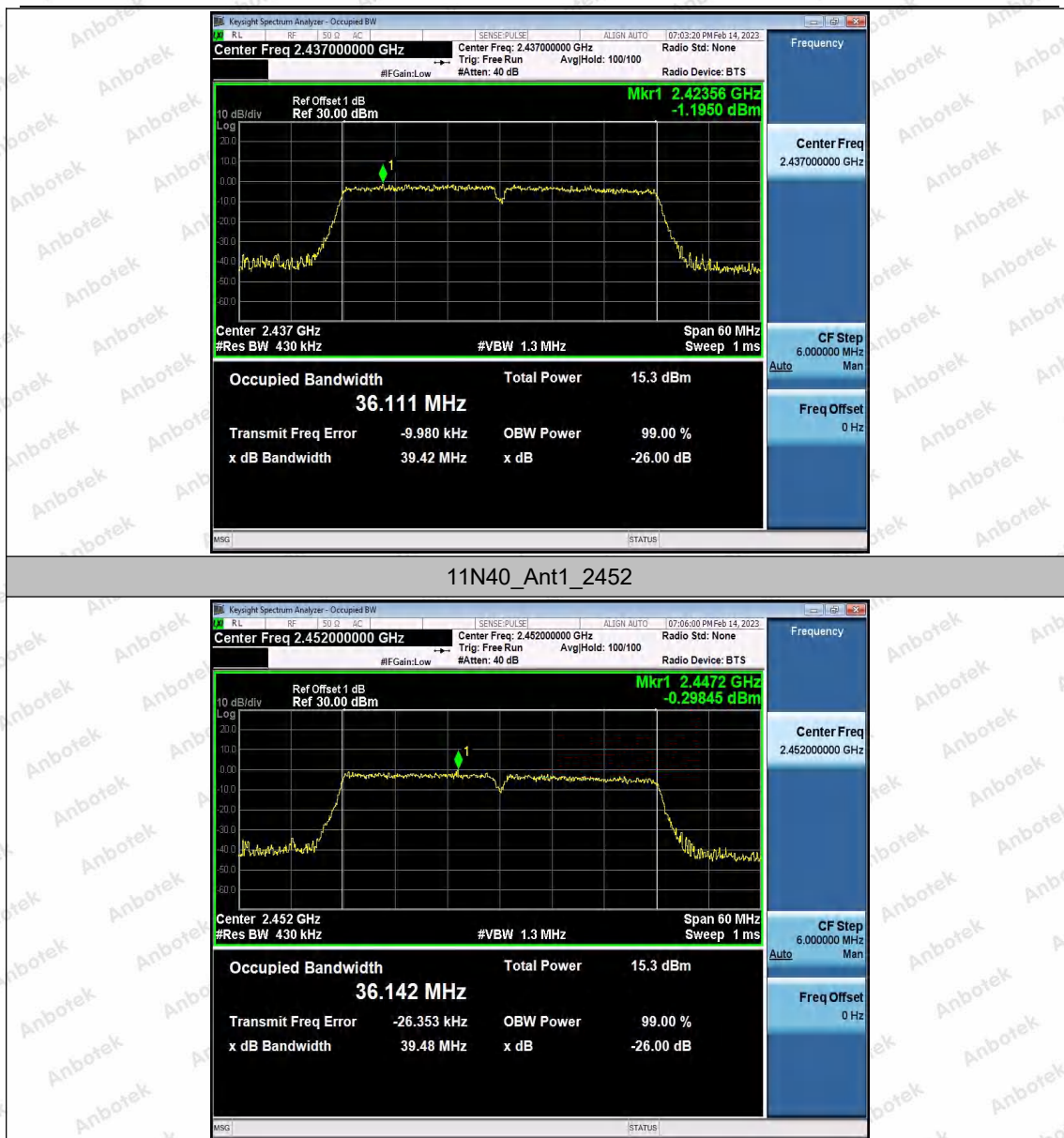
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## Appendix C: Maximum conducted output power

### Test Result Peak

| TestMode | Antenna | Frequency[MHz] | Peak Power[dBm] | Conducted Limit[dBm] |
|----------|---------|----------------|-----------------|----------------------|
| 11B      | Ant1    | 2412           | 16.24           | ≤30.00               |
|          |         | 2437           | 16.08           | ≤30.00               |
|          |         | 2462           | 16.09           | ≤30.00               |
| 11G      | Ant1    | 2412           | 14.40           | ≤30.00               |
|          |         | 2437           | 14.48           | ≤30.00               |
|          |         | 2462           | 14.41           | ≤30.00               |
| 11N20    | Ant1    | 2412           | 14.34           | ≤30.00               |
|          |         | 2437           | 14.14           | ≤30.00               |
|          |         | 2462           | 14.29           | ≤30.00               |
| 11N40    | Ant1    | 2422           | 14.58           | ≤30.00               |
|          |         | 2437           | 14.09           | ≤30.00               |
|          |         | 2452           | 13.90           | ≤30.00               |



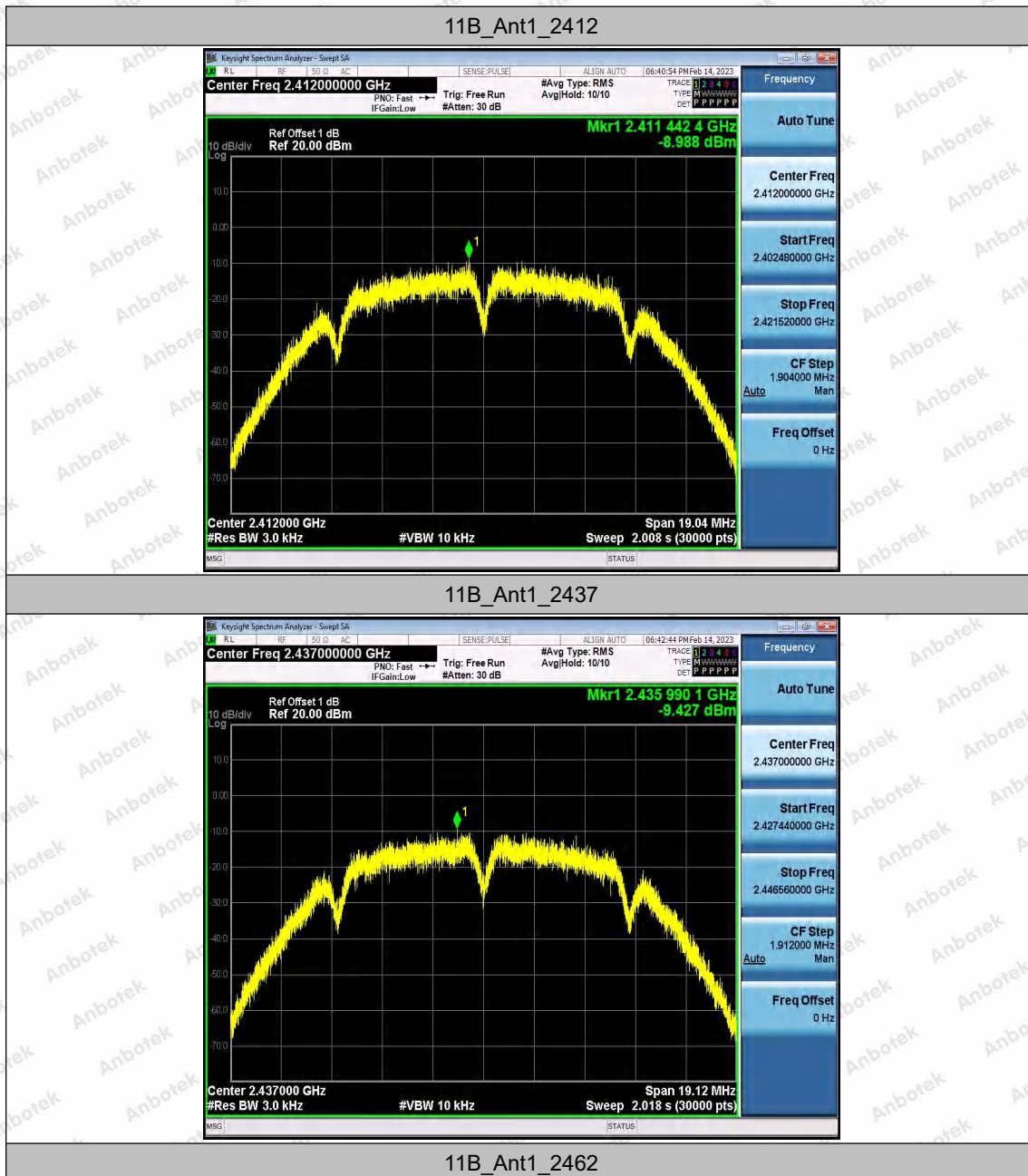
## Appendix D: Maximum power spectral density

### Test Result

| TestMode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|----------------|------------------|-----------------|---------|
| 11B      | Ant1    | 2412           | -8.99            | ≤8.00           | PASS    |
|          |         | 2437           | -9.43            | ≤8.00           | PASS    |
|          |         | 2462           | -10.5            | ≤8.00           | PASS    |
| 11G      | Ant1    | 2412           | -17.27           | ≤8.00           | PASS    |
|          |         | 2437           | -17.82           | ≤8.00           | PASS    |
|          |         | 2462           | -17.82           | ≤8.00           | PASS    |
| 11N20    | Ant1    | 2412           | -17.51           | ≤8.00           | PASS    |
|          |         | 2437           | -18.28           | ≤8.00           | PASS    |
|          |         | 2462           | -18.52           | ≤8.00           | PASS    |
| 11N40    | Ant1    | 2422           | -17.92           | ≤8.00           | PASS    |
|          |         | 2437           | -18.25           | ≤8.00           | PASS    |
|          |         | 2452           | -18.9            | ≤8.00           | PASS    |



## Test Graphs



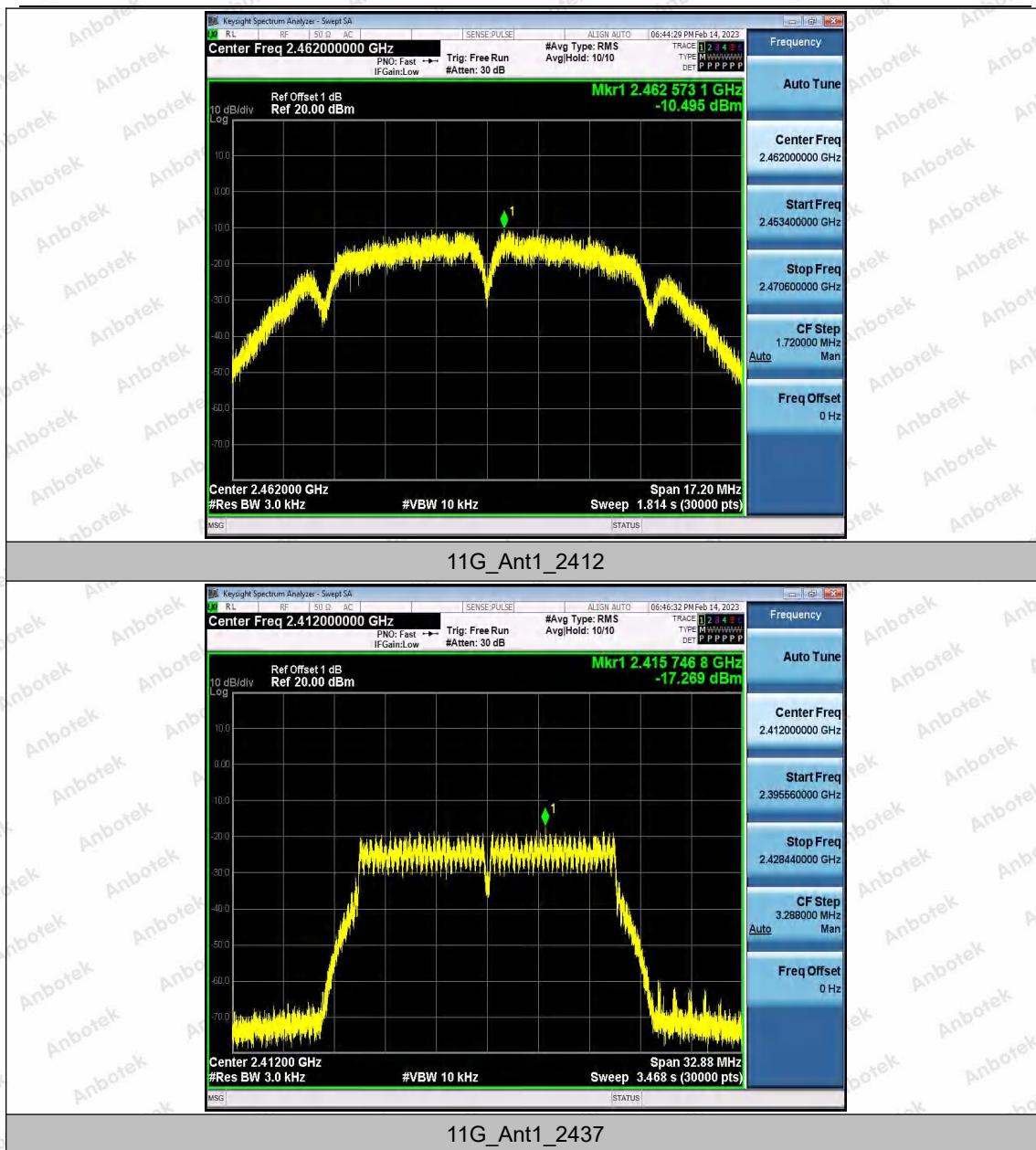
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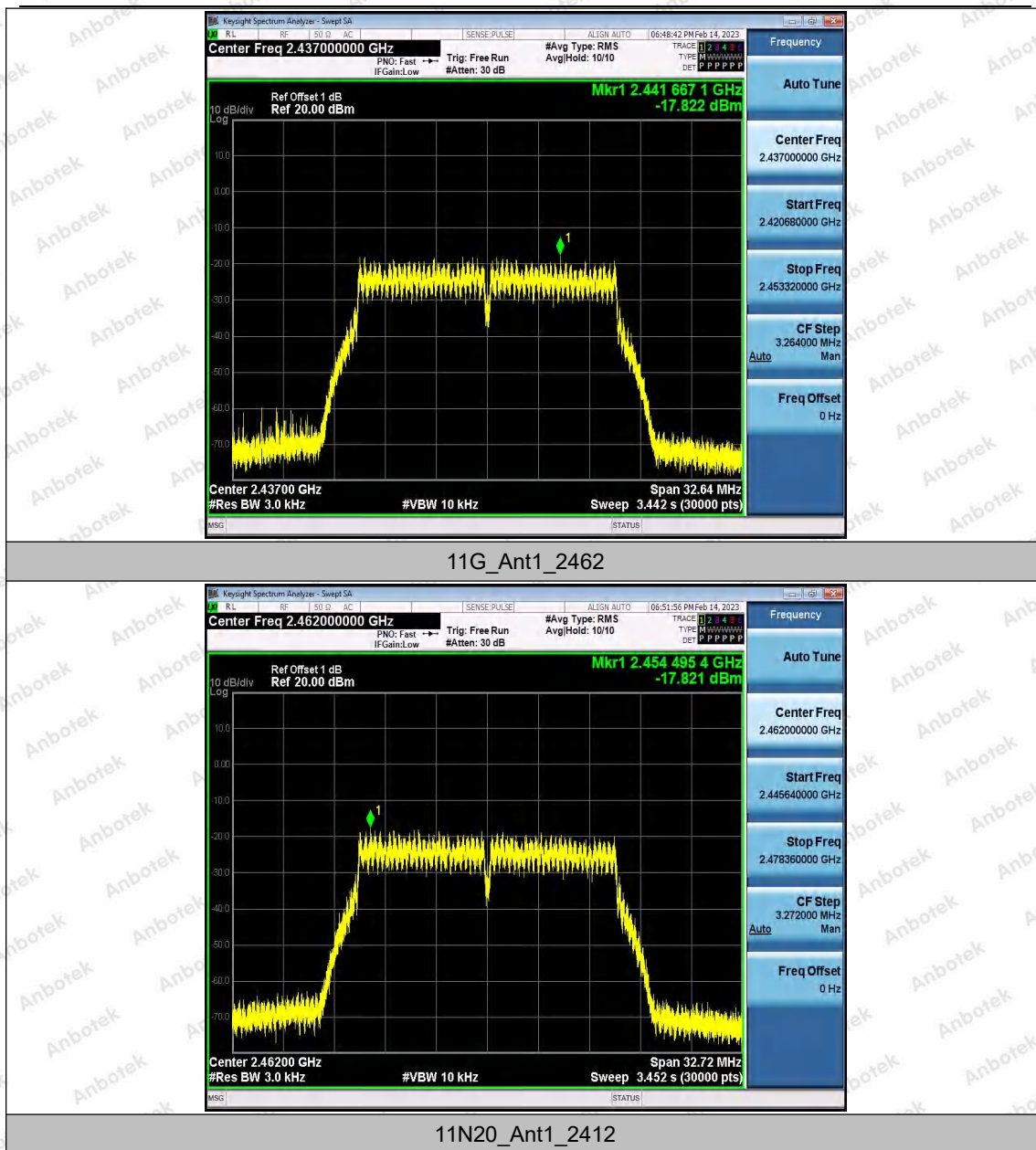
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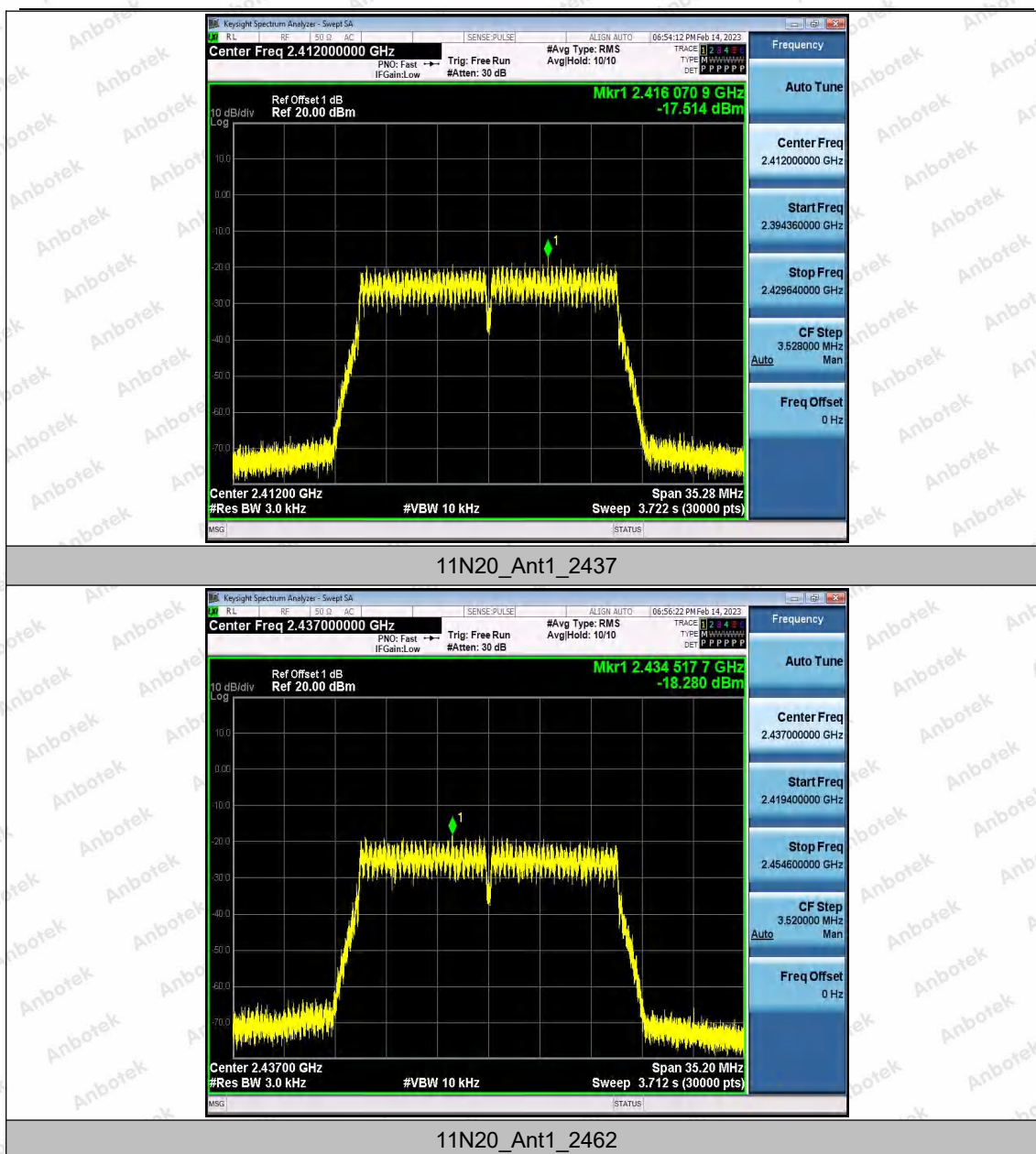
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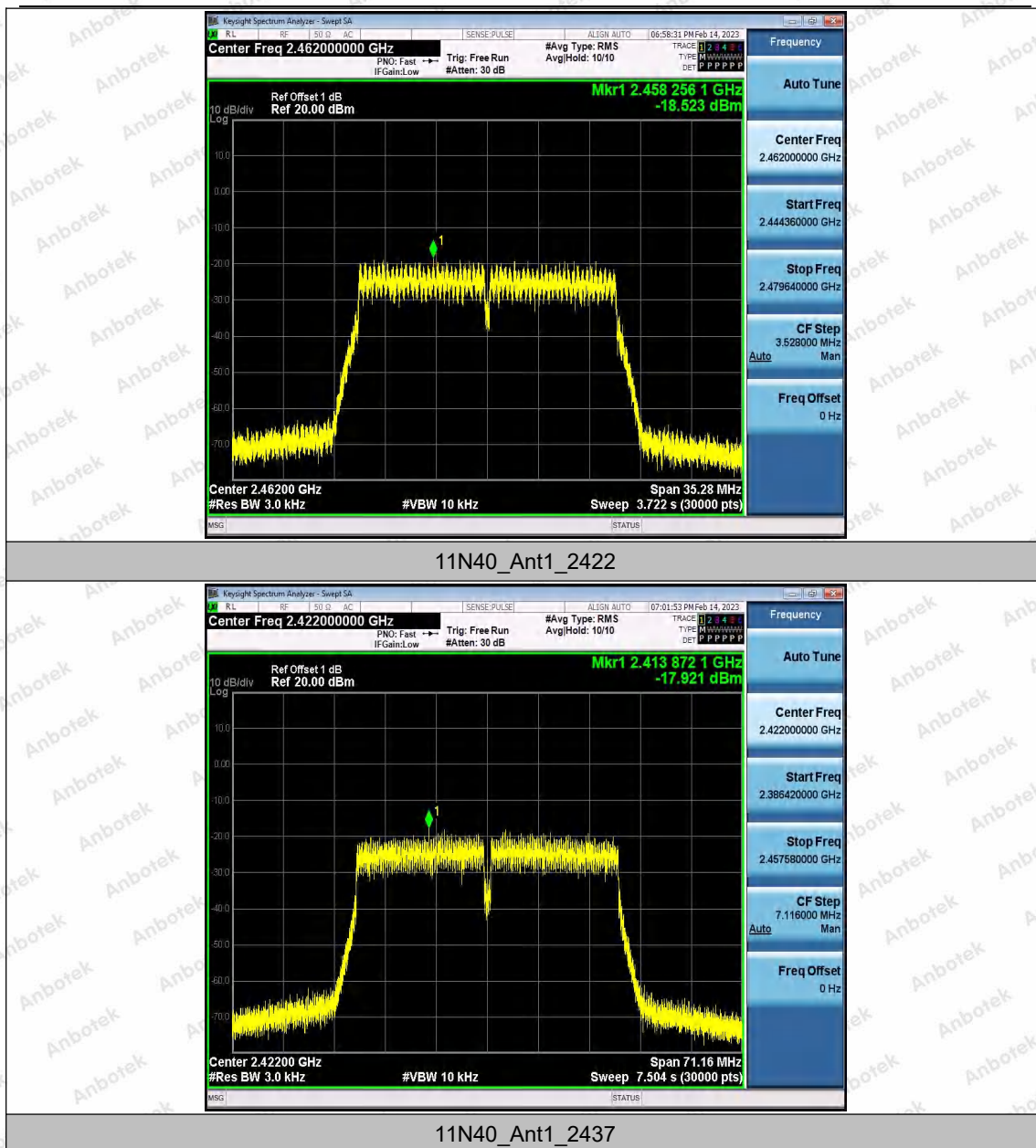
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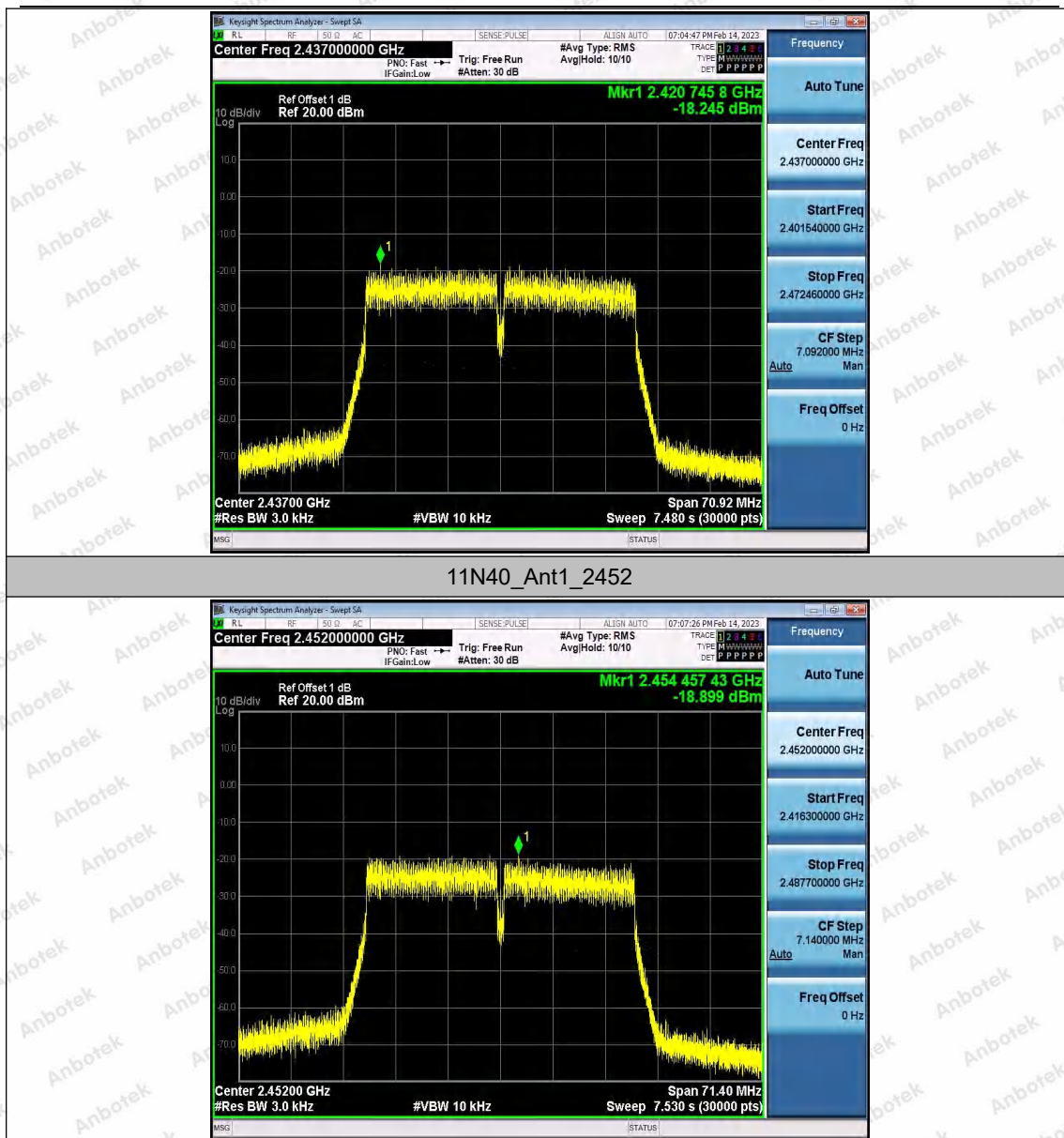
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## Appendix E: Band edge measurements

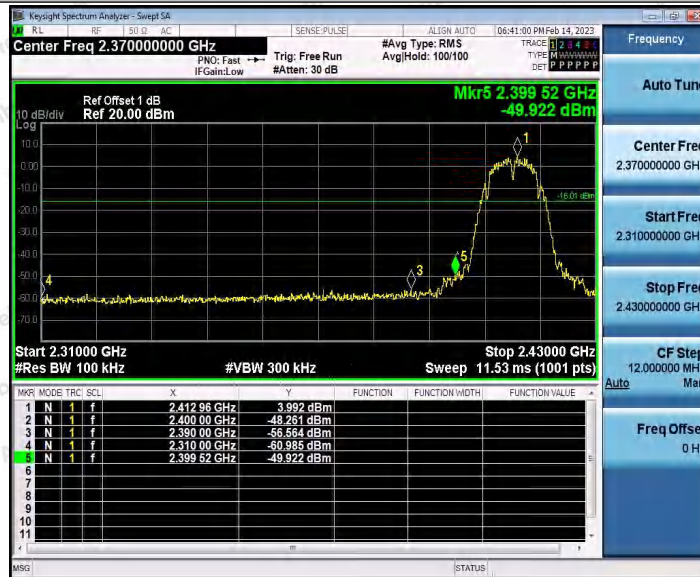
### Test Result

| TestMode | Antenna | Channel Name | Frequency[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|--------------|----------------|---------------|-------------|------------|---------|
| 11B      | Ant1    | Low          | 2412           | 3.99          | -49.92      | ≤-16.01    | PASS    |
|          |         | High         | 2462           | 4.19          | -56.34      | ≤-15.81    | PASS    |
| 11G      | Ant1    | Low          | 2412           | -4.12         | -51.28      | ≤-24.12    | PASS    |
|          |         | High         | 2462           | -3.79         | -54.46      | ≤-23.79    | PASS    |
| 11N20    | Ant1    | Low          | 2412           | -4.60         | -49.92      | ≤-24.6     | PASS    |
|          |         | High         | 2462           | -4.41         | -54.14      | ≤-24.41    | PASS    |
| 11N40    | Ant1    | Low          | 2422           | -4.44         | -43.36      | ≤-24.44    | PASS    |
|          |         | High         | 2452           | -4.57         | -49.19      | ≤-24.57    | PASS    |



## Test Graphs

11B\_Ant1\_Low\_2412



11B\_Ant1\_High\_2462



11G\_Ant1\_Low\_2412

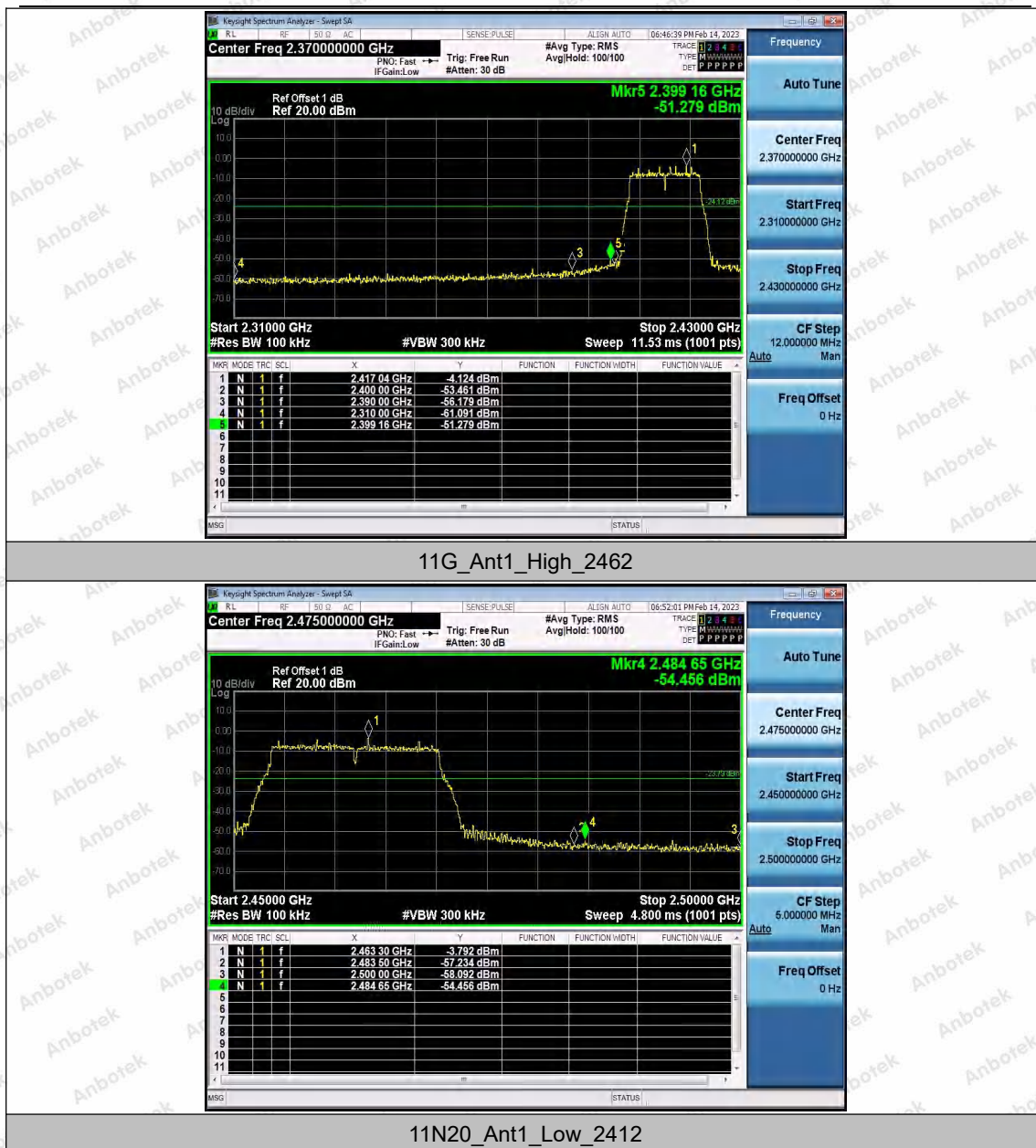
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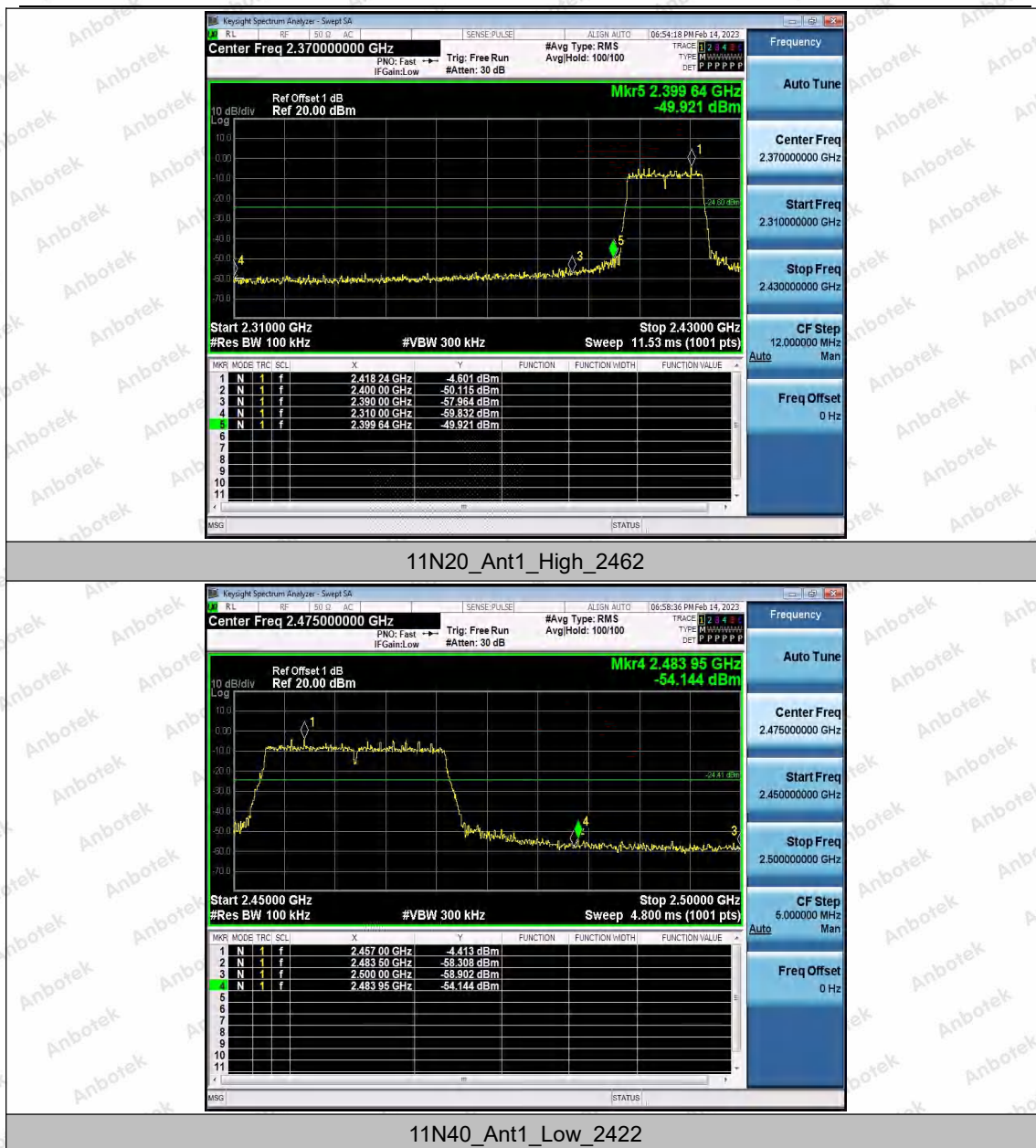
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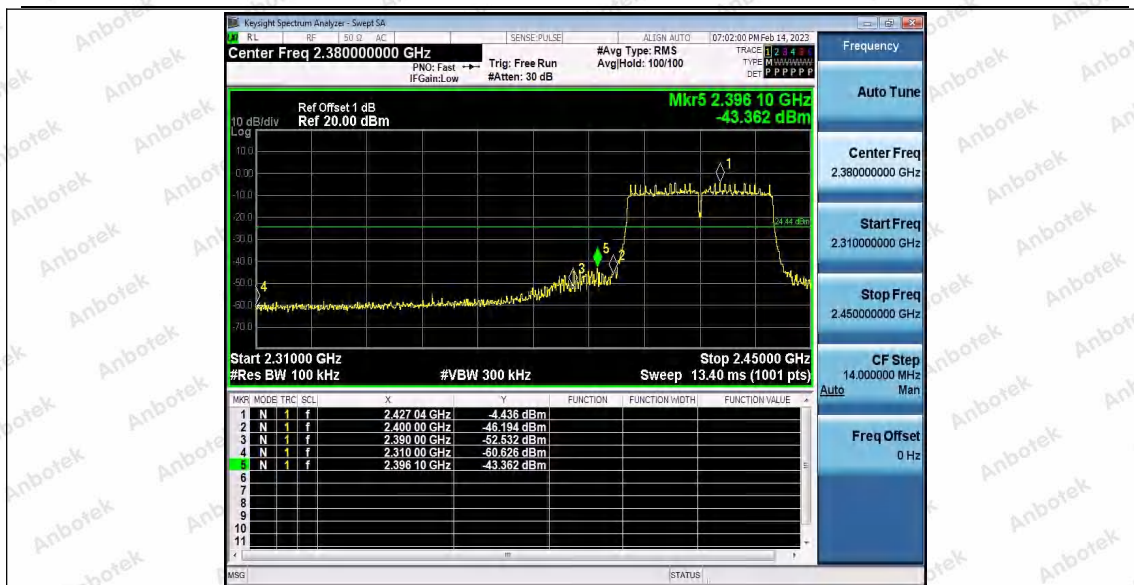
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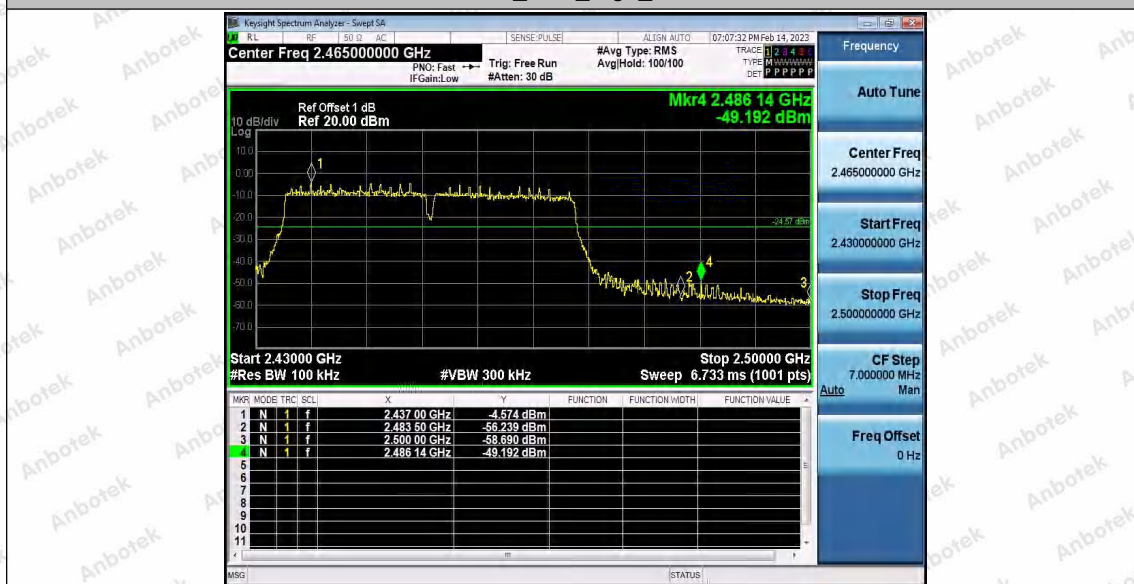


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11N40\_Ant1\_High\_2452



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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       | 3.24           | 3.24         | ---         | PASS    |
|          |         |                | 30~1000         | 3.24           | -68.52       | ≤-16.76     | PASS    |
|          |         |                | 1000~26500      | 3.24           | -50.34       | ≤-16.76     | PASS    |
|          |         | 2437           | Reference       | 3.26           | 3.26         | ---         | PASS    |
|          |         |                | 30~1000         | 3.26           | -69.09       | ≤-16.74     | PASS    |
|          |         |                | 1000~26500      | 3.26           | -46.66       | ≤-16.74     | PASS    |
|          |         | 2462           | Reference       | 1.70           | 1.70         | ---         | PASS    |
|          |         |                | 30~1000         | 1.70           | -68.3        | ≤-18.3      | PASS    |
|          |         |                | 1000~26500      | 1.70           | -53.11       | ≤-18.3      | PASS    |
| 11G      | Ant1    | 2412           | Reference       | -7.27          | -7.27        | ---         | PASS    |
|          |         |                | 30~1000         | -7.27          | -68.88       | ≤-27.27     | PASS    |
|          |         |                | 1000~26500      | -7.27          | -43.9        | ≤-27.27     | PASS    |
|          |         | 2437           | Reference       | -7.50          | -7.50        | ---         | PASS    |
|          |         |                | 30~1000         | -7.50          | -69.06       | ≤-27.5      | PASS    |
|          |         |                | 1000~26500      | -7.50          | -53.16       | ≤-27.5      | PASS    |
|          |         | 2462           | Reference       | -3.89          | -3.89        | ---         | PASS    |
|          |         |                | 30~1000         | -3.89          | -69.15       | ≤-23.89     | PASS    |
|          |         |                | 1000~26500      | -3.89          | -53.42       | ≤-23.89     | PASS    |
| 11N20    | Ant1    | 2412           | Reference       | -4.19          | -4.19        | ---         | PASS    |
|          |         |                | 30~1000         | -4.19          | -51.21       | ≤-24.19     | PASS    |
|          |         |                | 1000~26500      | -4.19          | -53.42       | ≤-24.19     | PASS    |
|          |         | 2437           | Reference       | -4.30          | -4.30        | ---         | PASS    |
|          |         |                | 30~1000         | -4.30          | -68.95       | ≤-24.3      | PASS    |
|          |         |                | 1000~26500      | -4.30          | -53.81       | ≤-24.3      | PASS    |
|          |         | 2462           | Reference       | -4.38          | -4.38        | ---         | PASS    |
|          |         |                | 30~1000         | -4.38          | -54.13       | ≤-24.38     | PASS    |
|          |         |                | 1000~26500      | -4.38          | -53.03       | ≤-24.38     | PASS    |
| 11N40    | Ant1    | 2422           | Reference       | -4.83          | -4.83        | ---         | PASS    |
|          |         |                | 30~1000         | -4.83          | -69.1        | ≤-24.83     | PASS    |
|          |         |                | 1000~26500      | -4.83          | -43.59       | ≤-24.83     | PASS    |
|          |         | 2437           | Reference       | -4.75          | -4.75        | ---         | PASS    |
|          |         |                | 30~1000         | -4.75          | -69.06       | ≤-24.75     | PASS    |
|          |         |                | 1000~26500      | -4.75          | -54.16       | ≤-24.75     | PASS    |
|          |         | 2452           | Reference       | -5.59          | -5.59        | ---         | PASS    |
|          |         |                | 30~1000         | -5.59          | -68.33       | ≤-25.59     | PASS    |
|          |         |                |                 |                |              |             |         |

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|  |  |  |            |       |        |         |      |
|--|--|--|------------|-------|--------|---------|------|
|  |  |  | 1000~26500 | -5.59 | -53.43 | ≤-25.59 | PASS |
|--|--|--|------------|-------|--------|---------|------|

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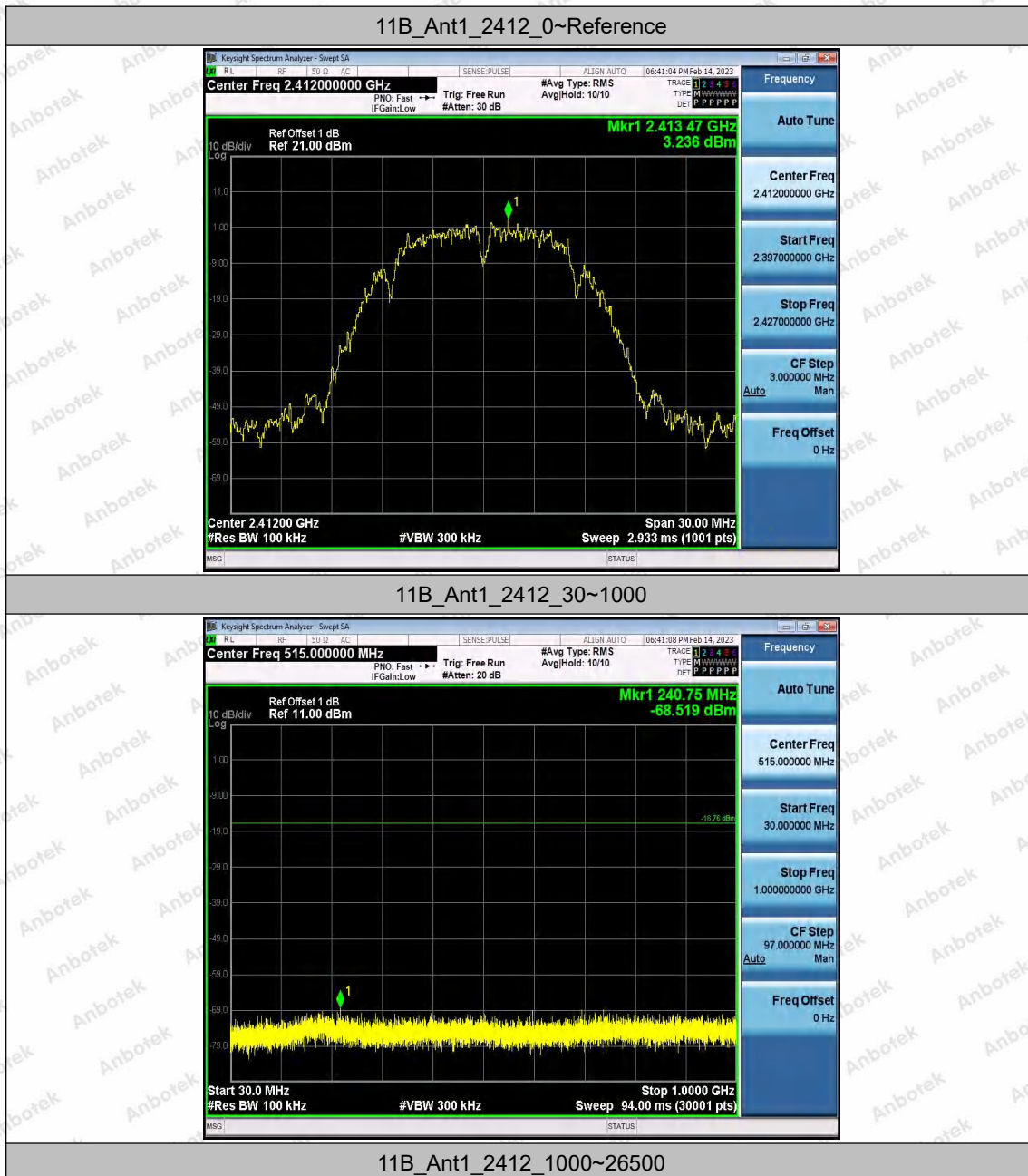
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Tel:(86) 0755-26066440 Fax:(86) 0755-26014772 Email:service@anbotech.com



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## Test Graphs



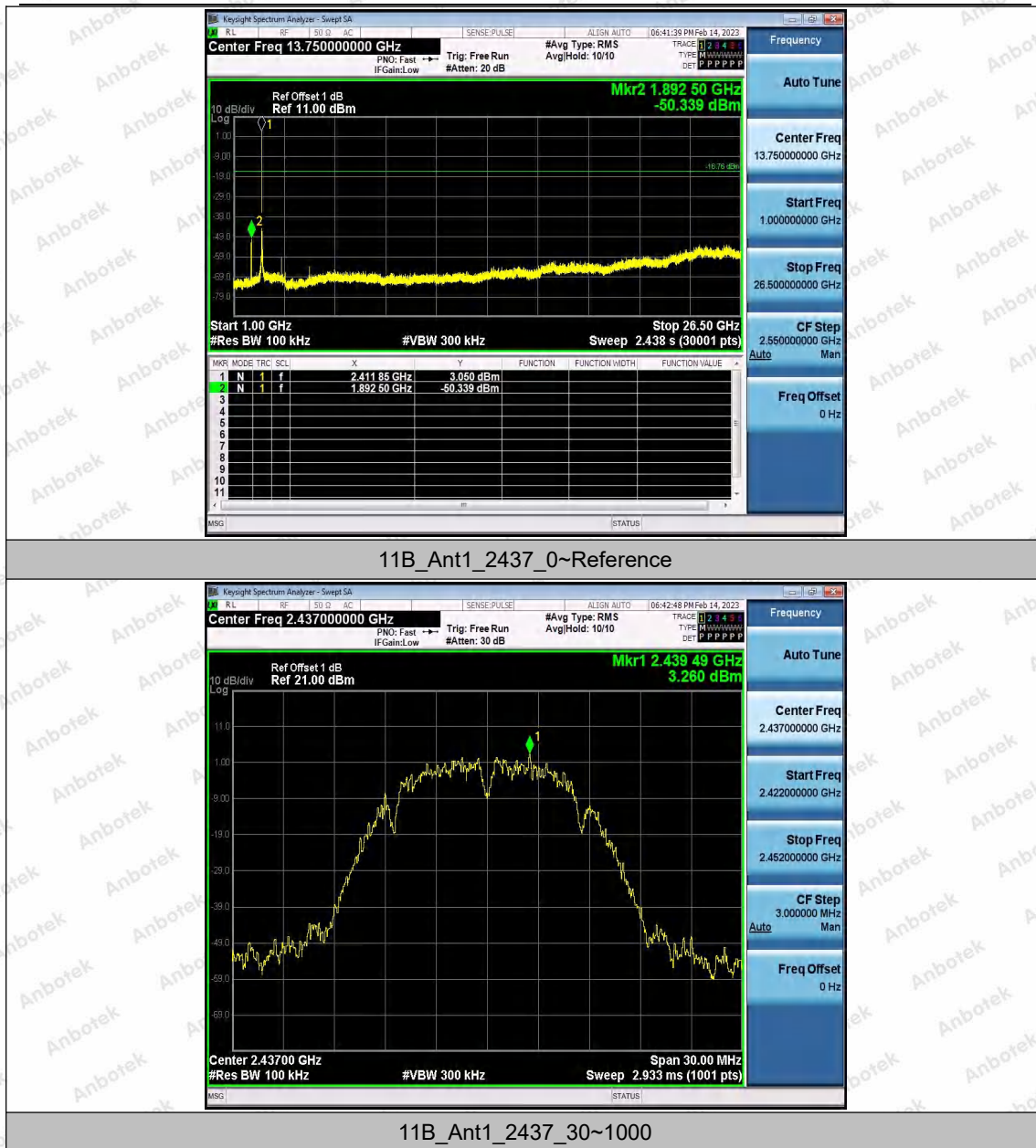
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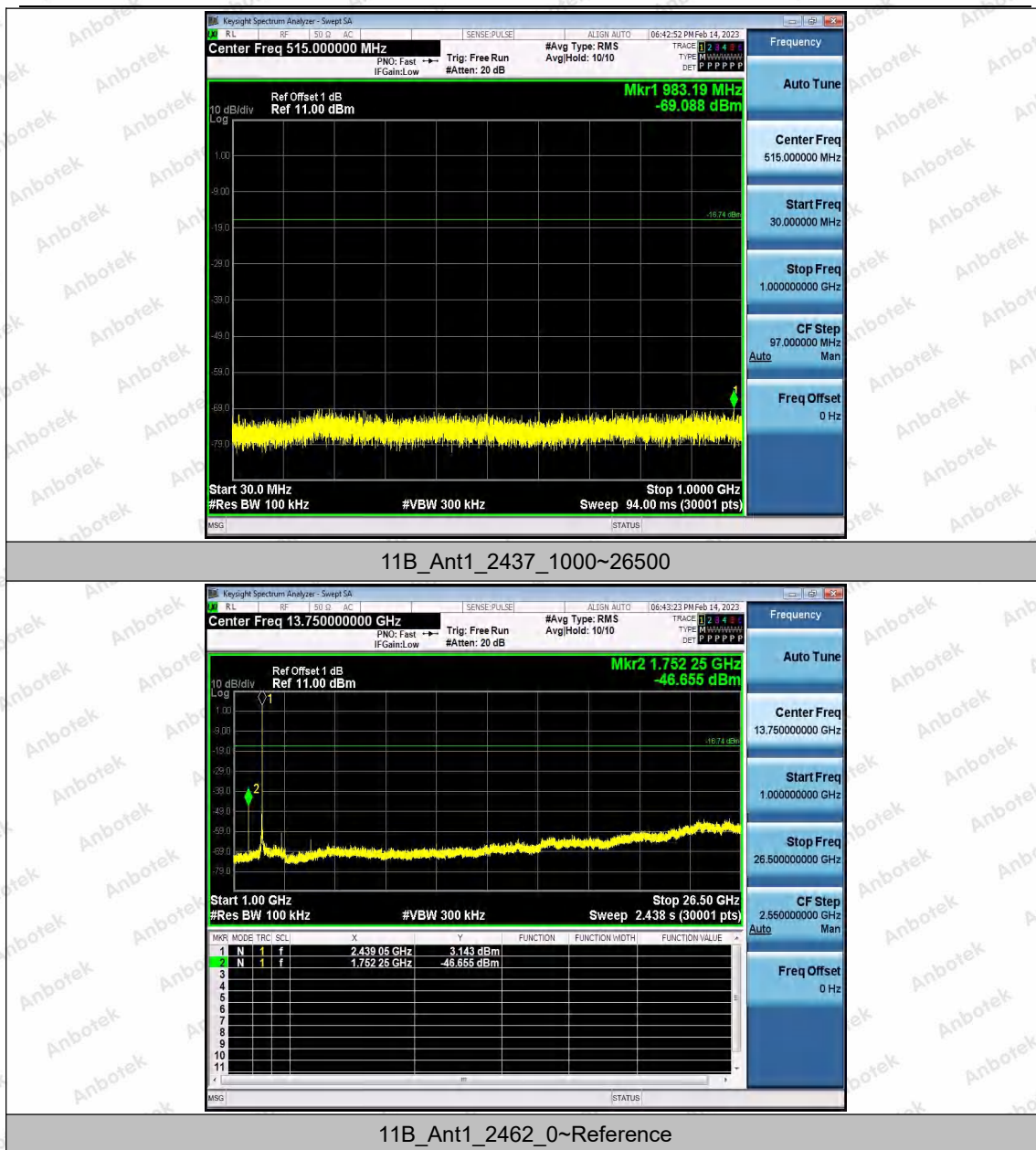
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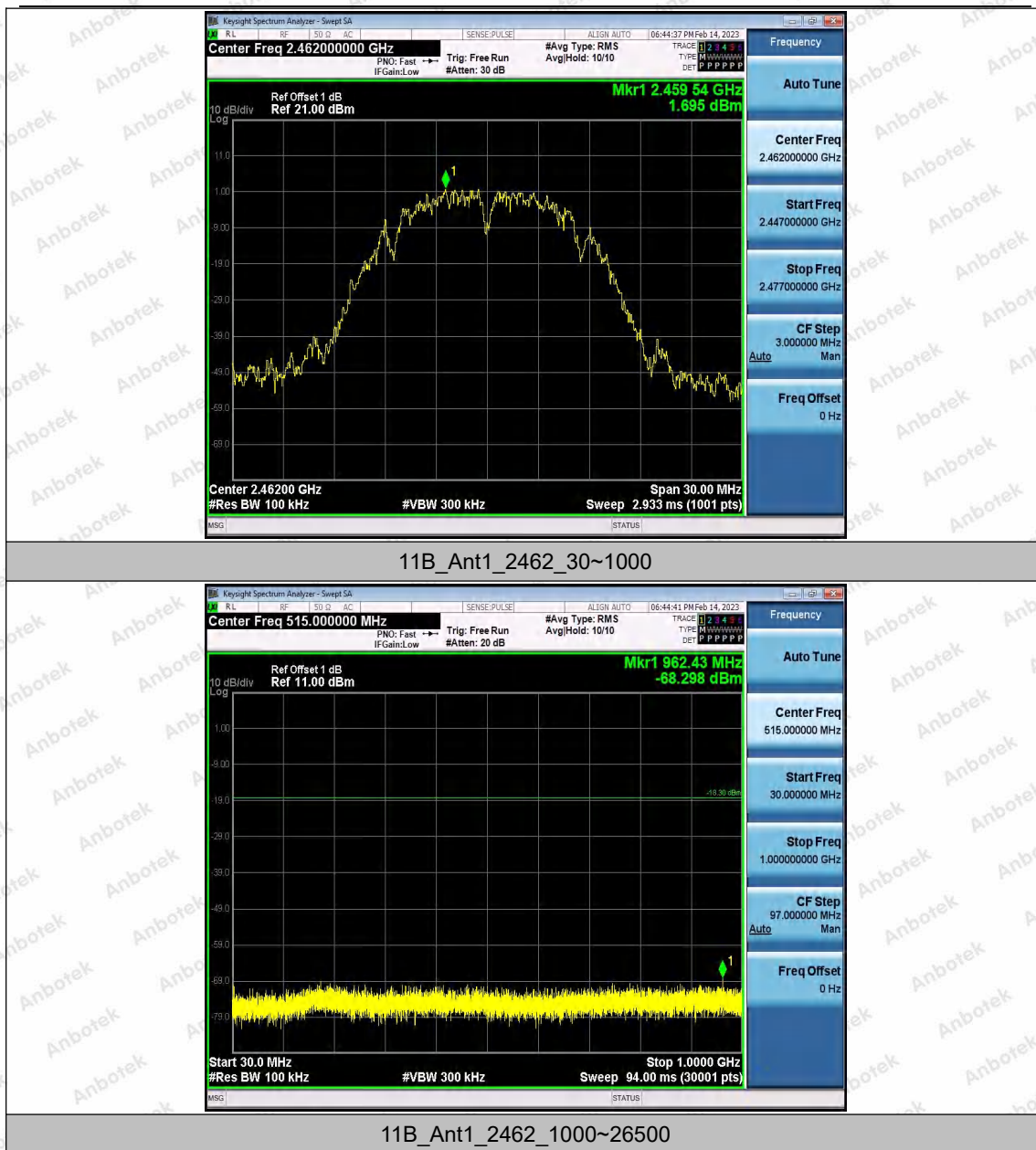
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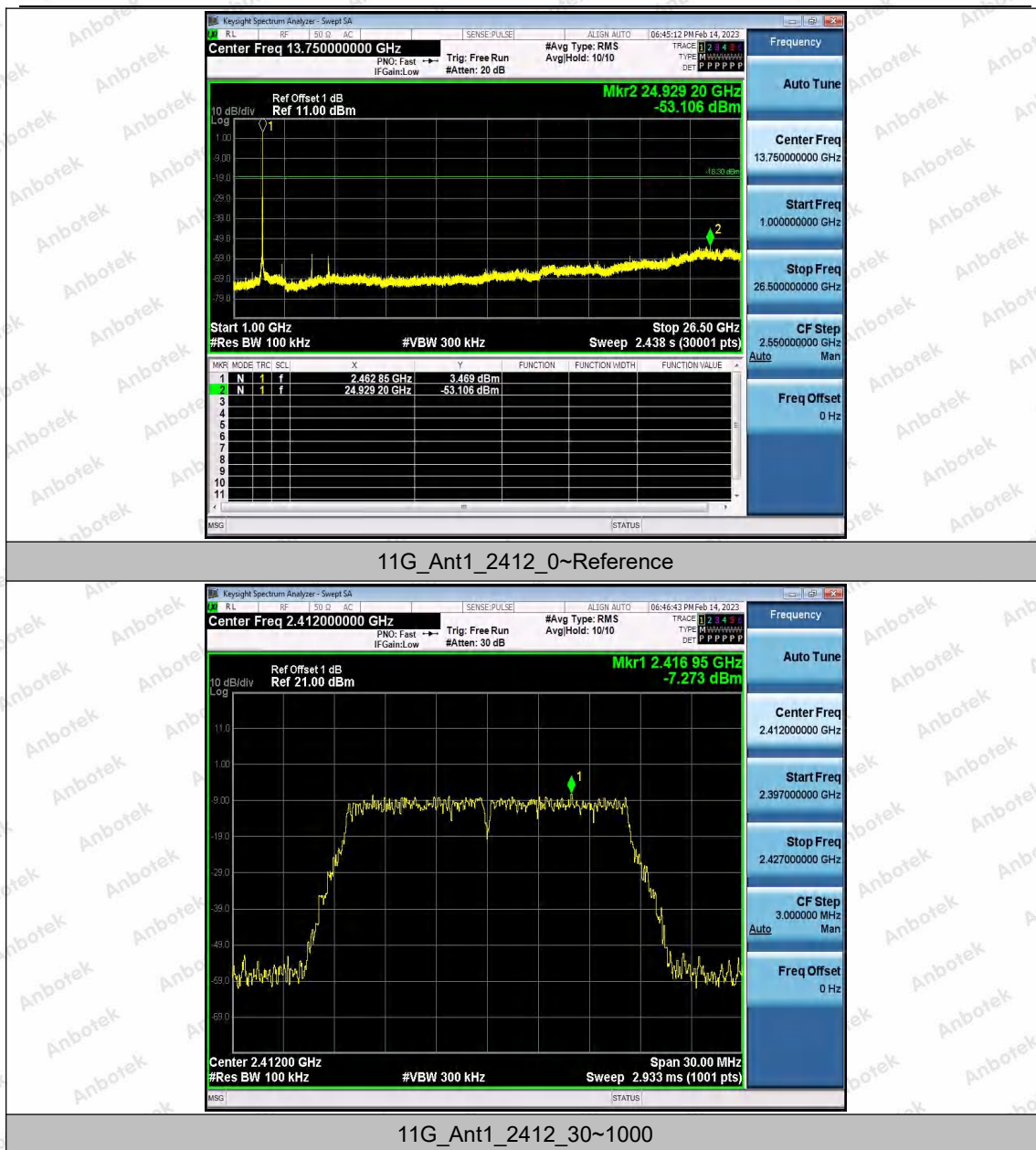
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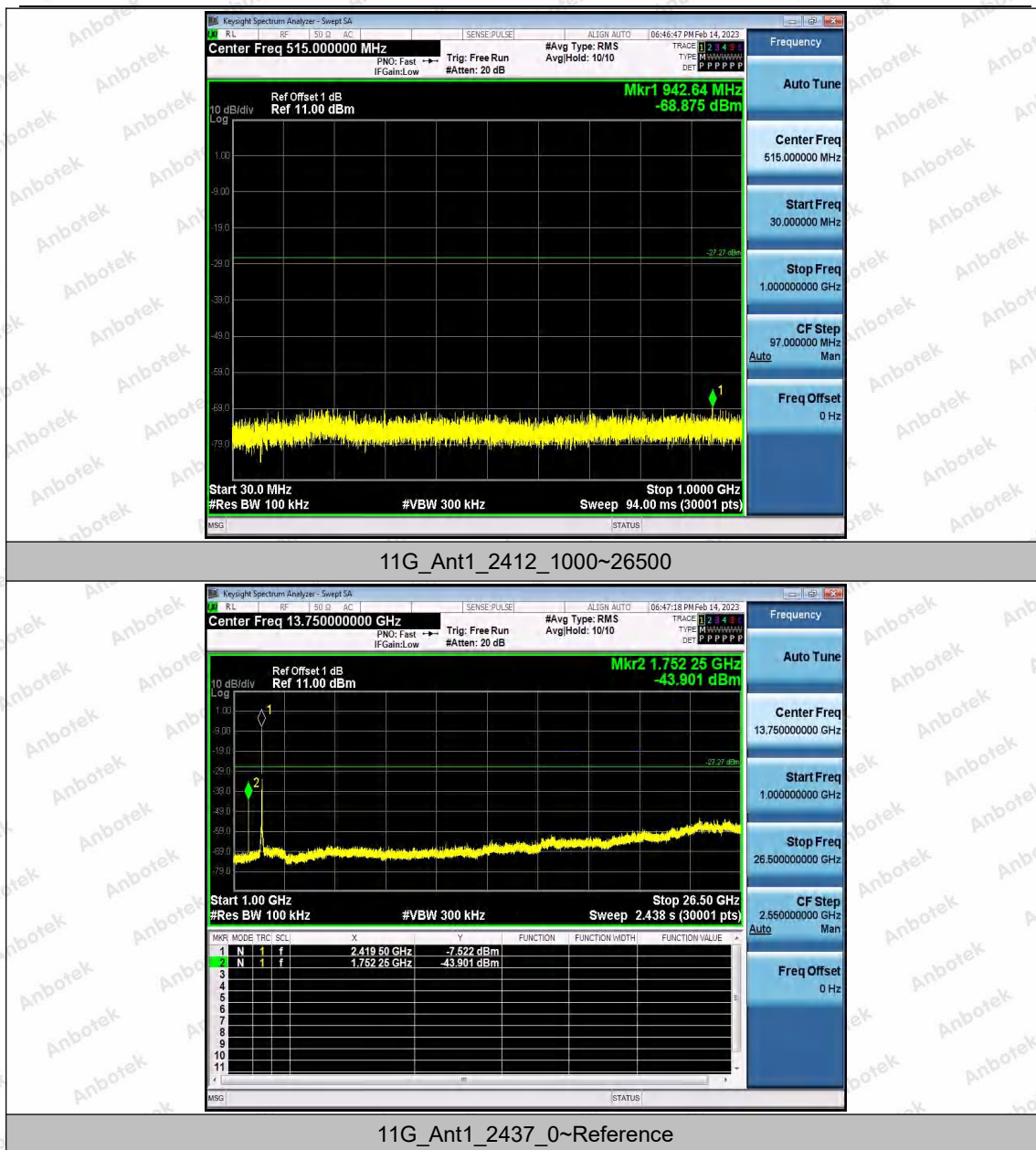
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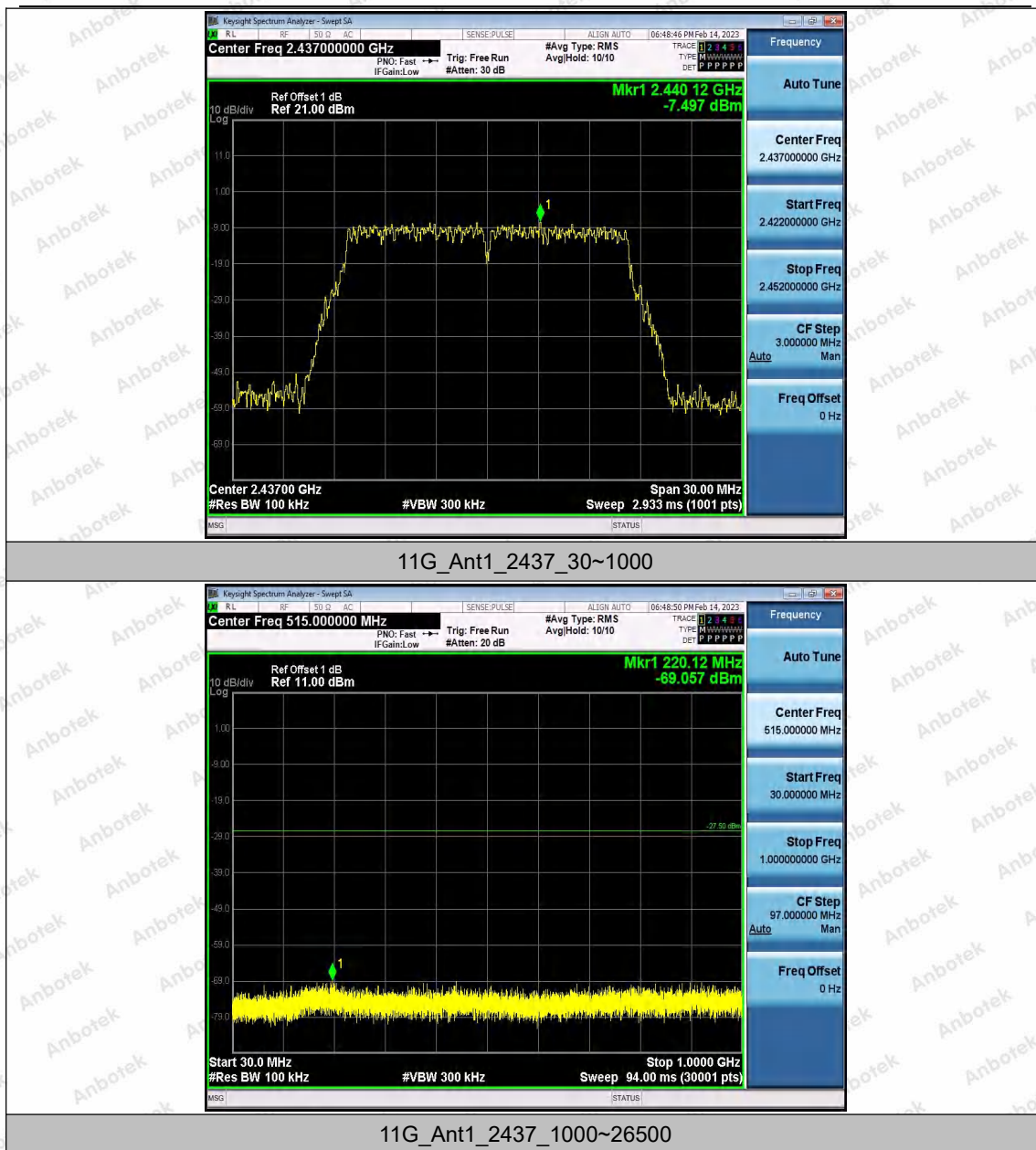
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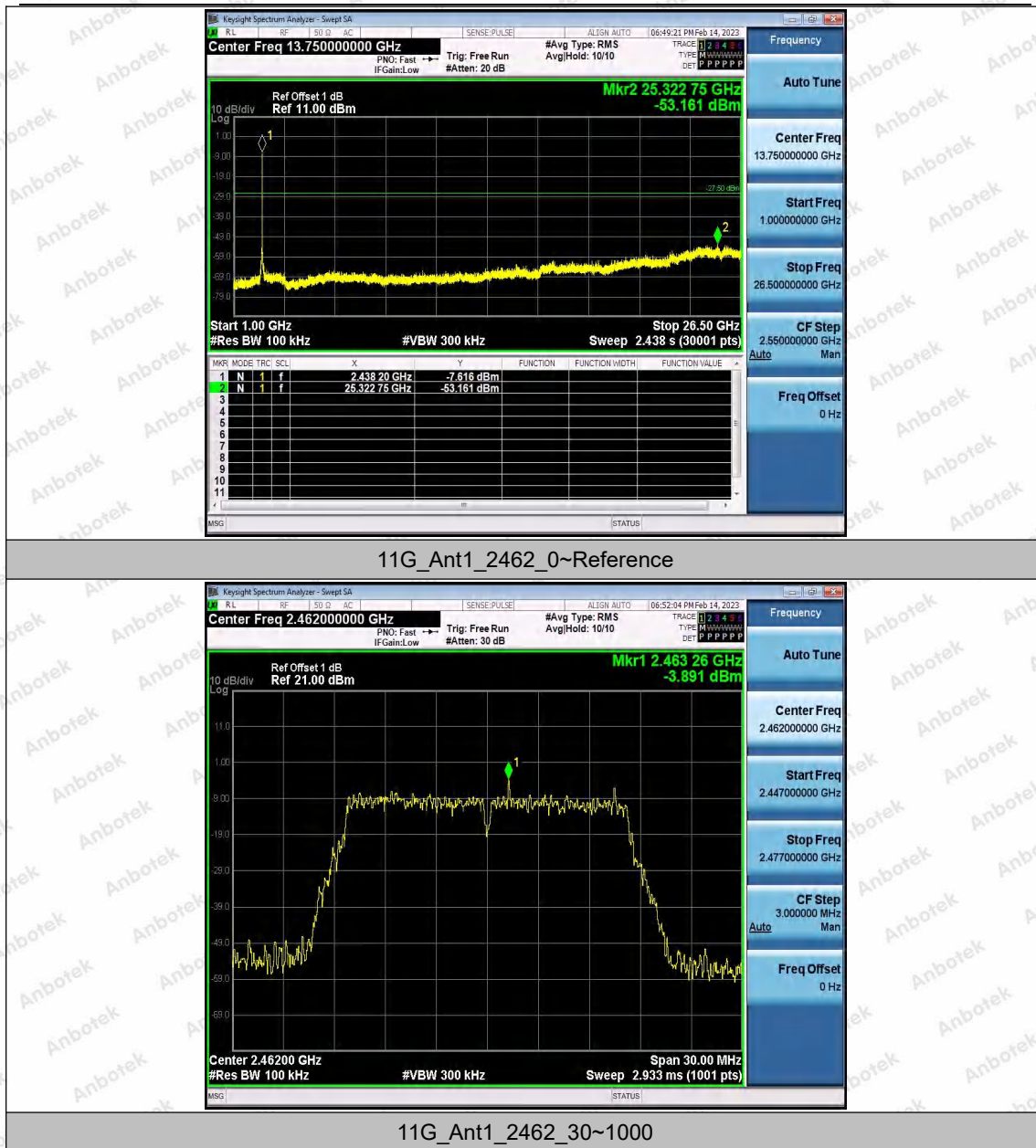
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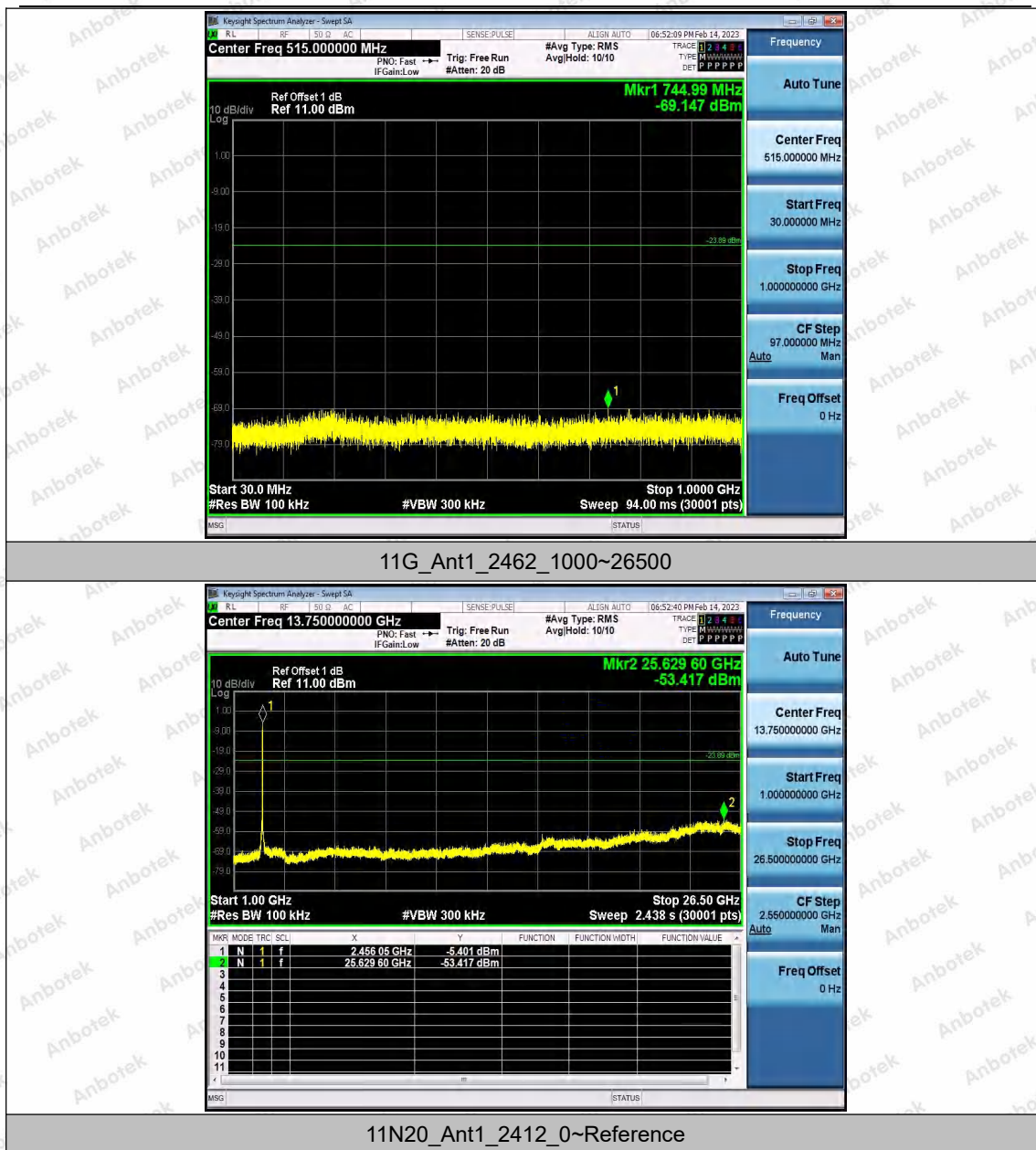
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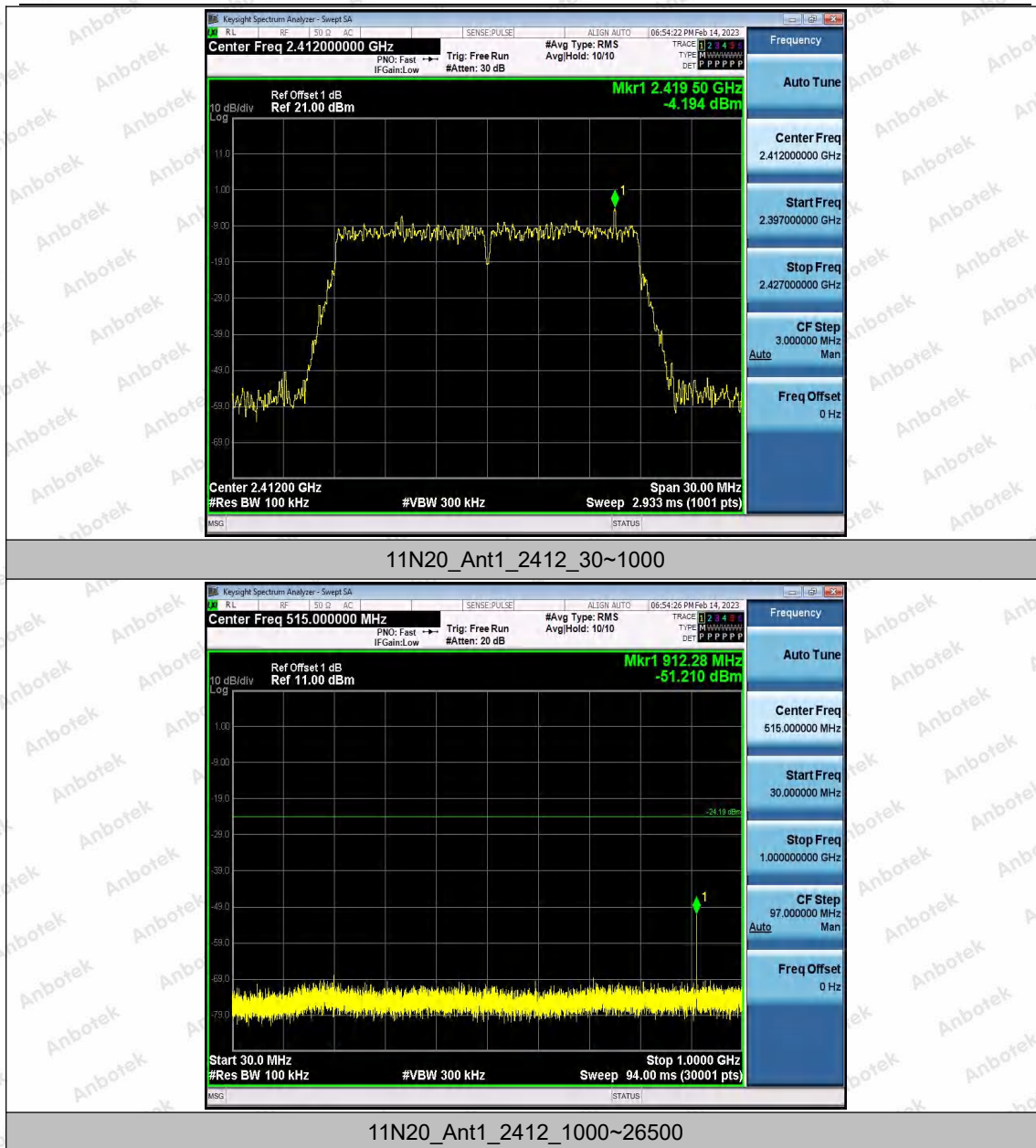
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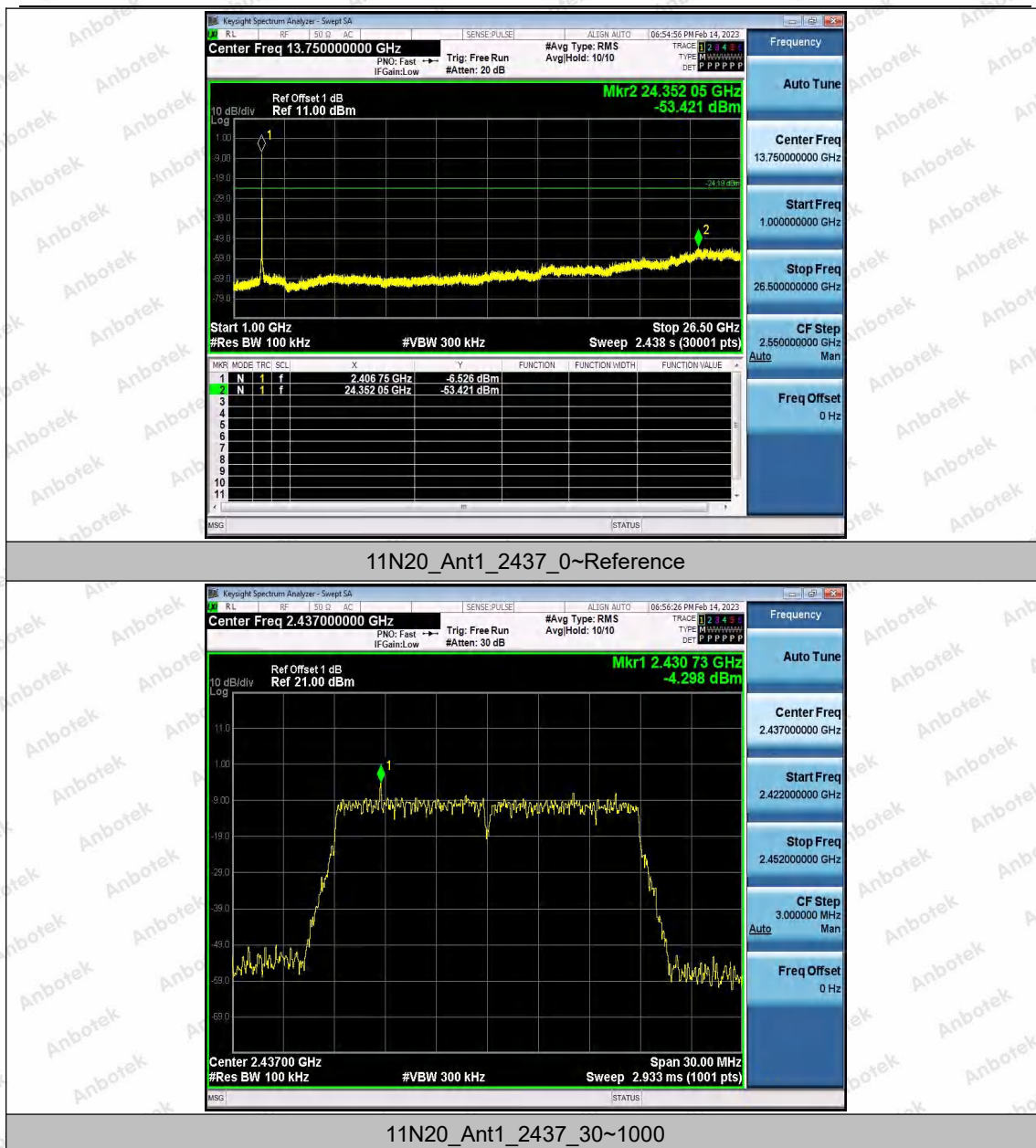
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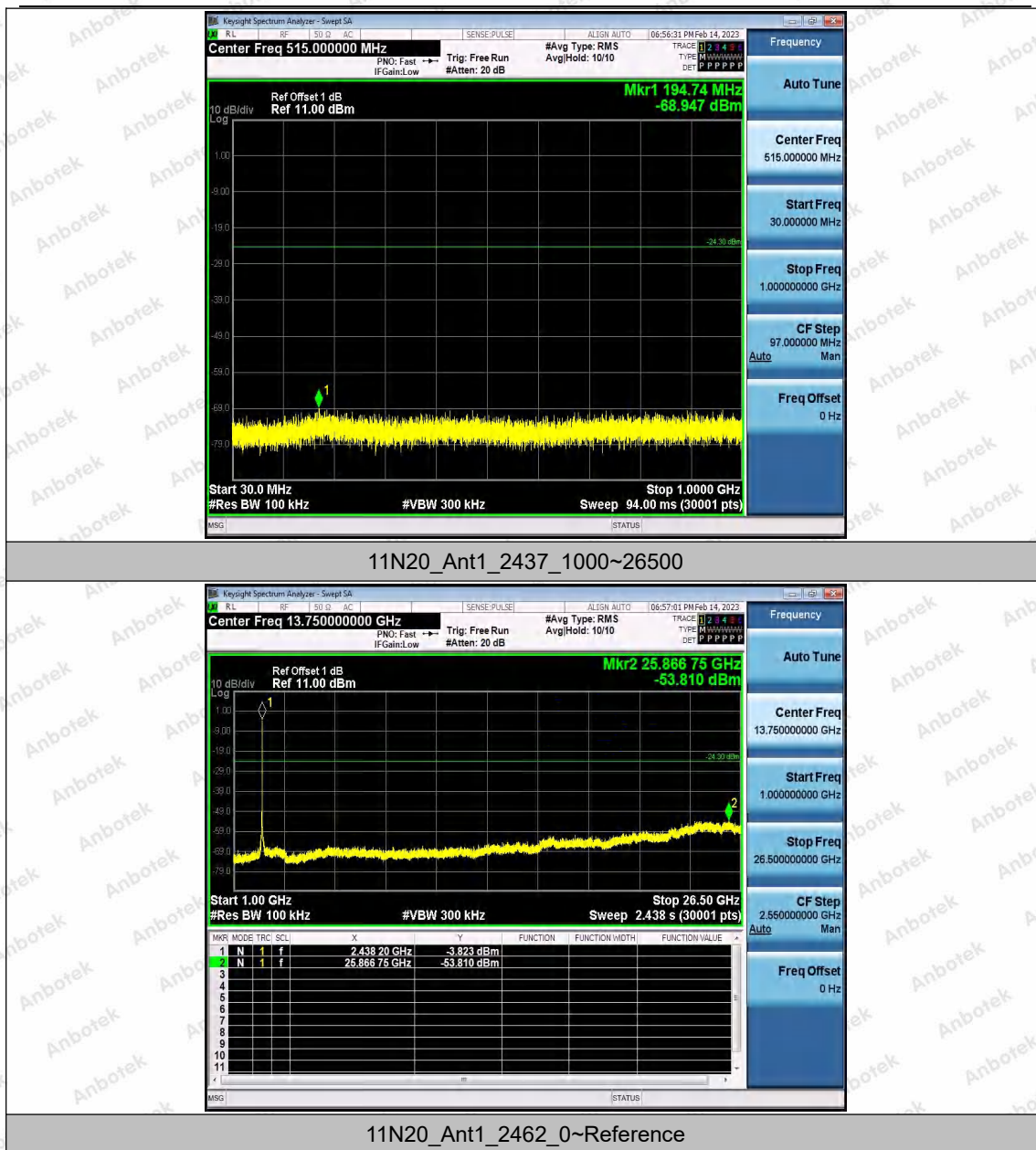
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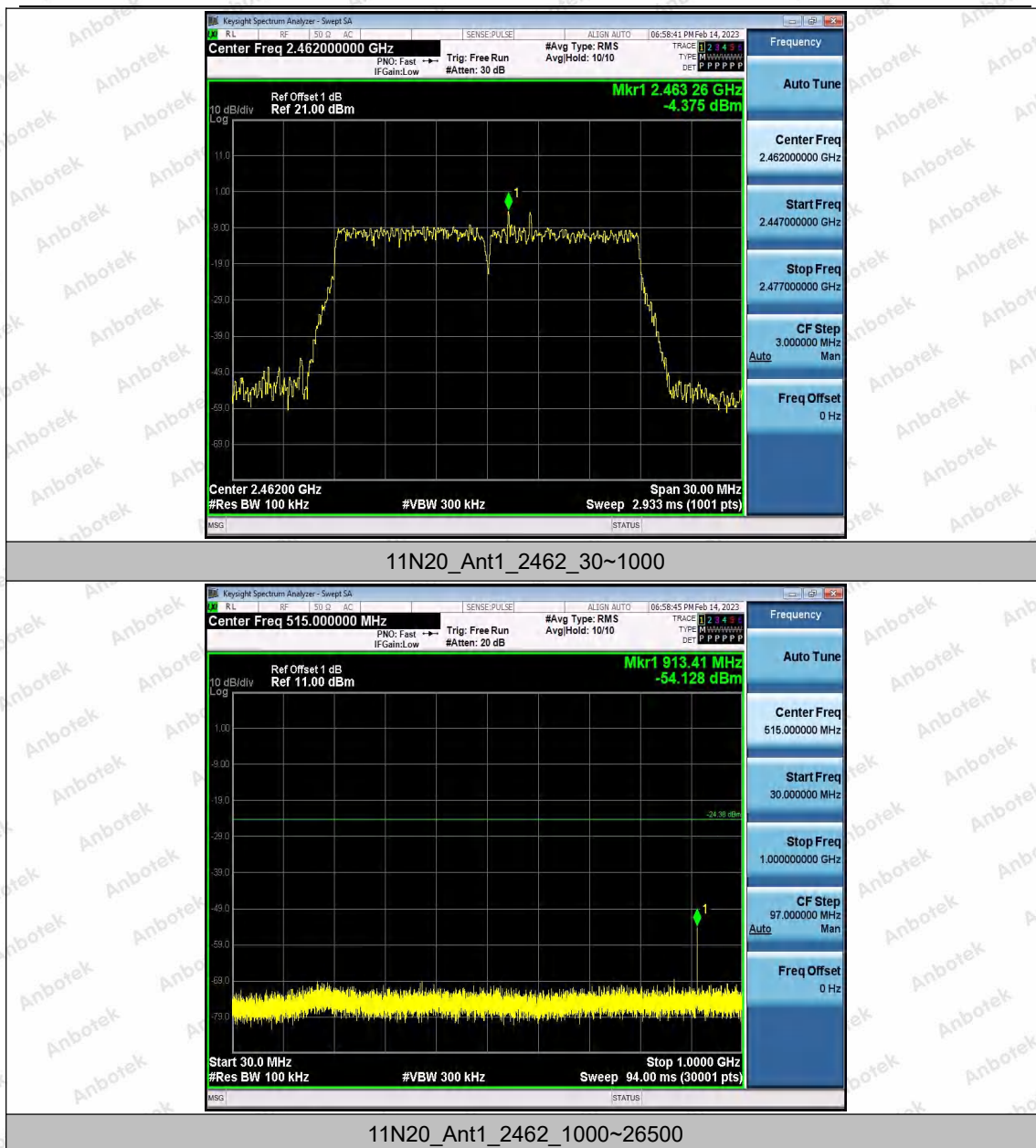
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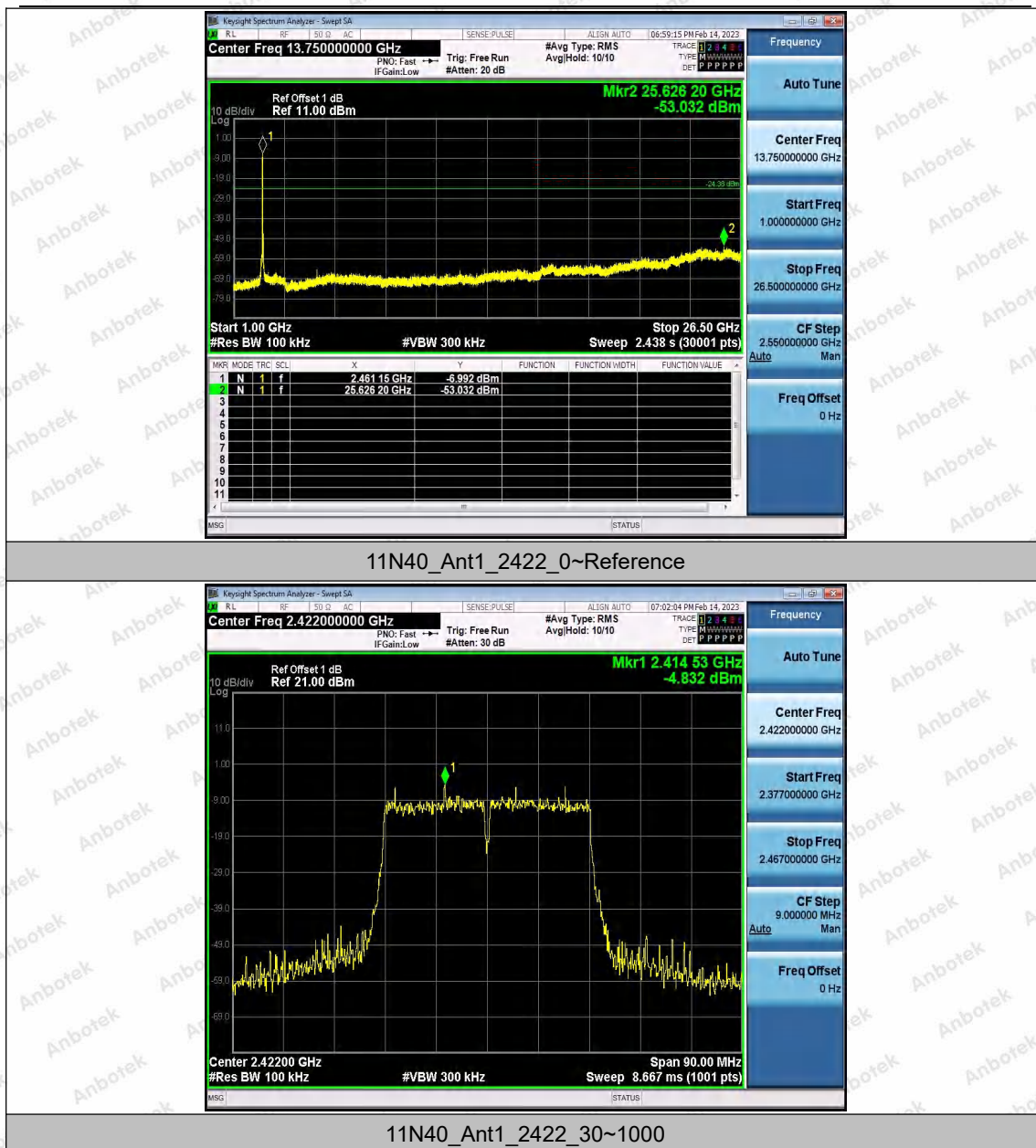
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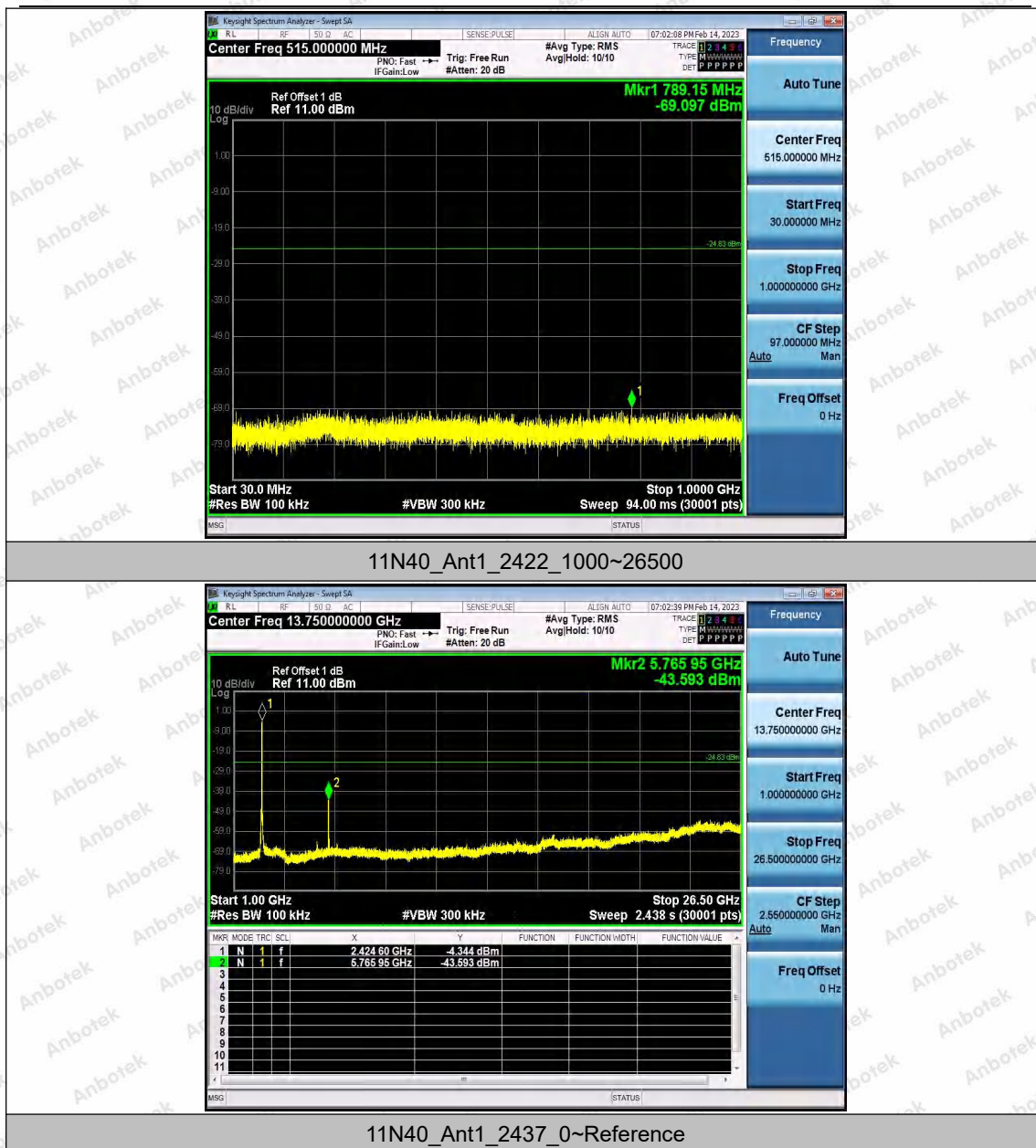
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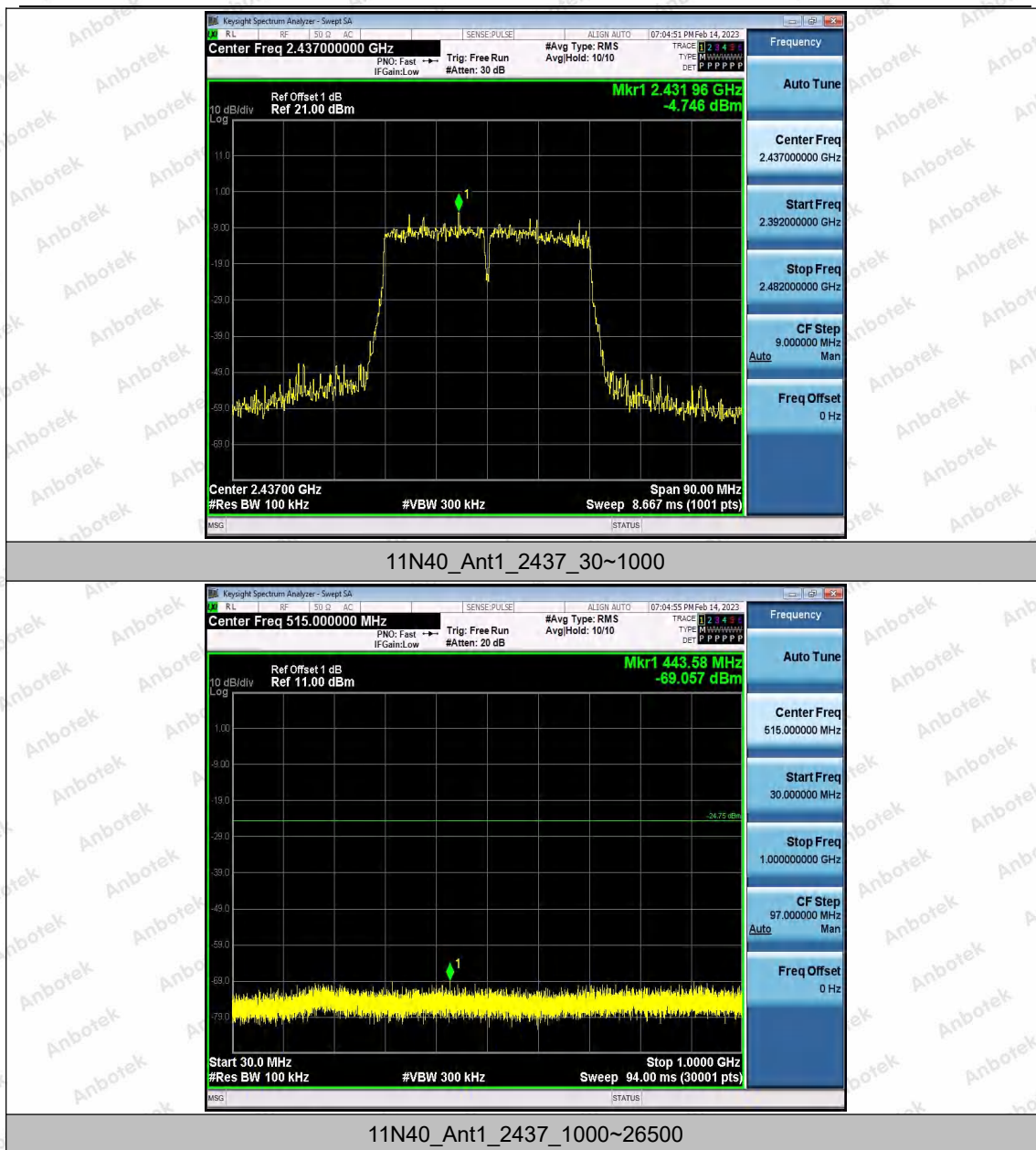
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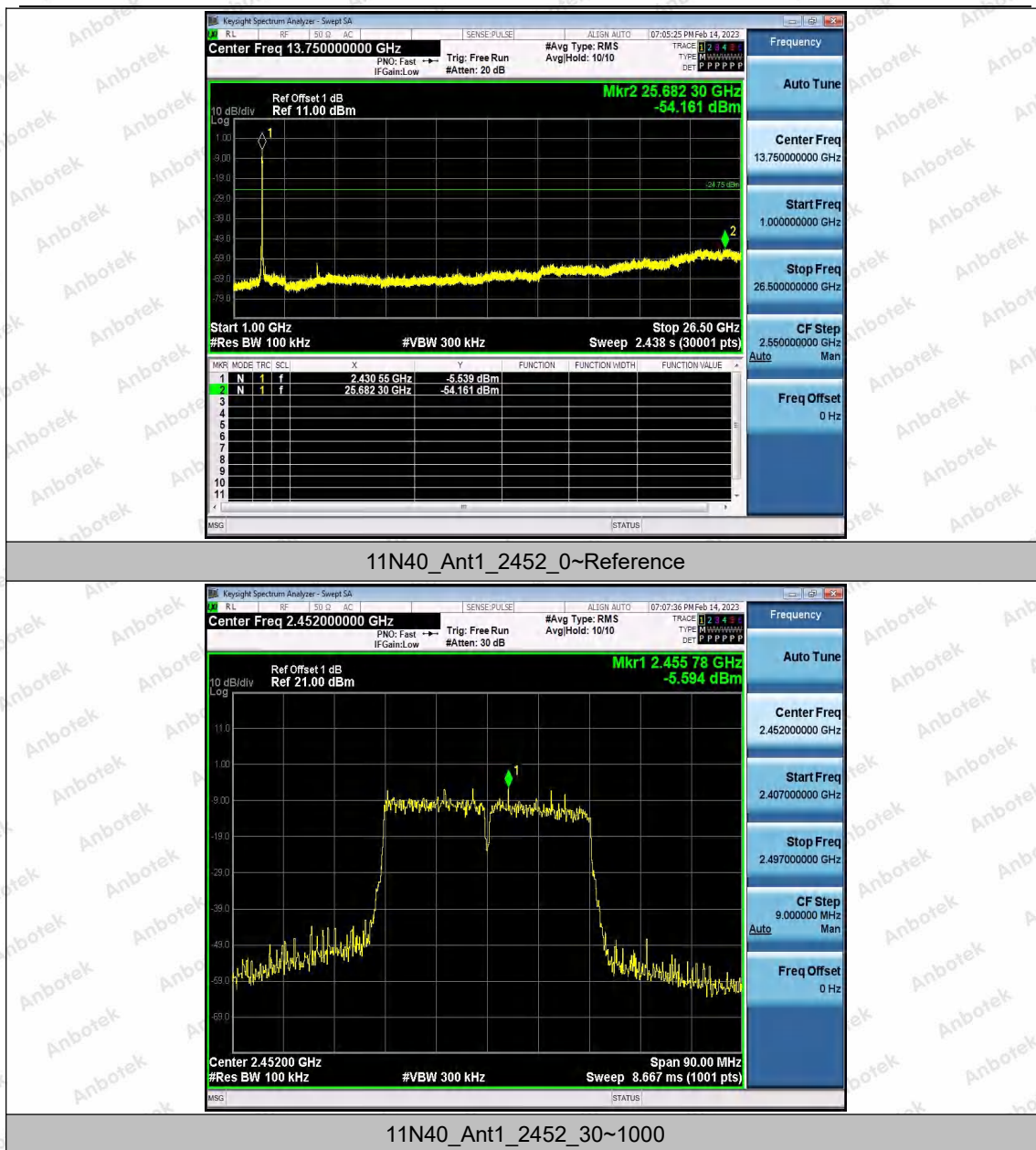
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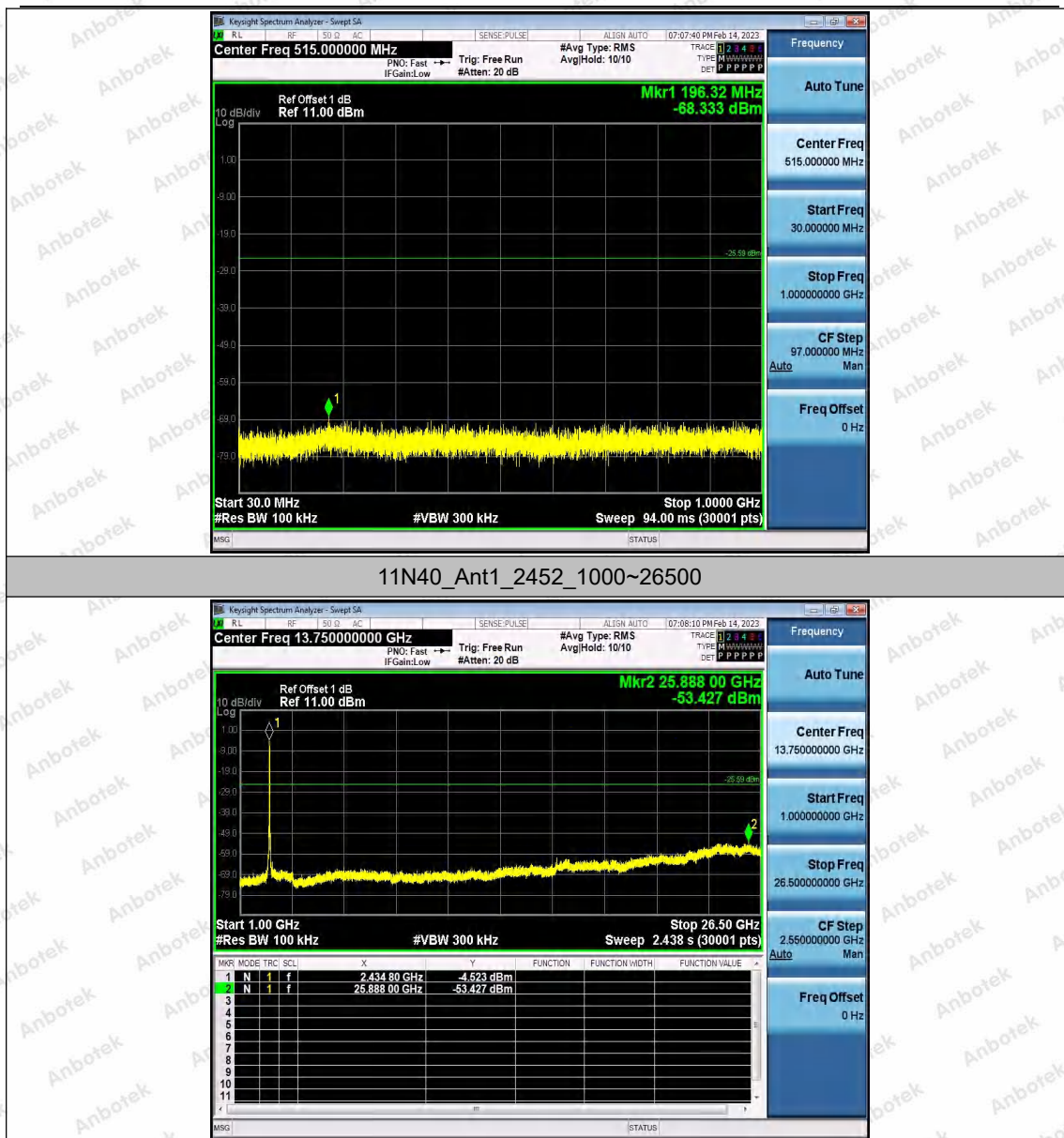
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## Appendix G: Duty Cycle

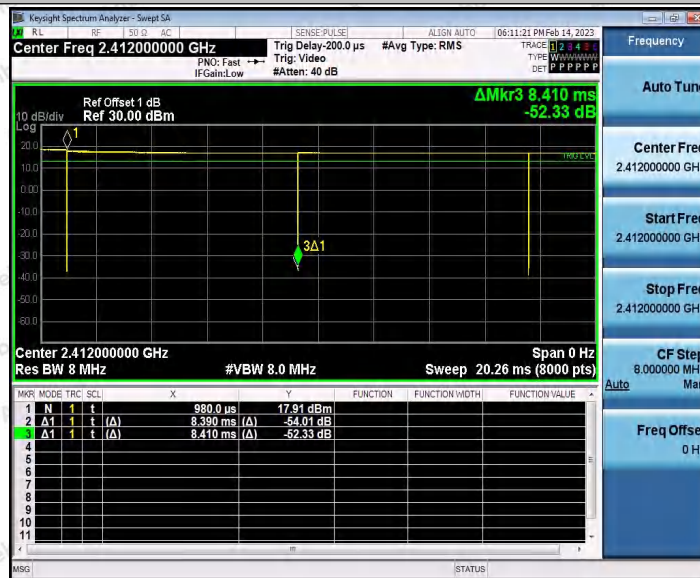
### Test Result

| TestMode | Antenna | Frequency[MHz] | Transmission Duration [ms] | Transmission Period [ms] | Duty Cycle [%] | Factor |
|----------|---------|----------------|----------------------------|--------------------------|----------------|--------|
| 11B      | Ant1    | 2412           | 8.39                       | 8.41                     | 99.76          | 0.01   |
|          |         | 2437           | 8.39                       | 8.42                     | 99.64          | 0.02   |
|          |         | 2462           | 8.38                       | 8.41                     | 99.64          | 0.02   |
| 11G      | Ant1    | 2412           | 1.39                       | 1.43                     | 97.20          | 0.12   |
|          |         | 2437           | 1.40                       | 1.43                     | 97.90          | 0.09   |
|          |         | 2462           | 1.40                       | 1.43                     | 97.90          | 0.09   |
| 11N20    | Ant1    | 2412           | 1.30                       | 1.34                     | 97.01          | 0.13   |
|          |         | 2437           | 1.30                       | 1.34                     | 97.01          | 0.13   |
|          |         | 2462           | 1.30                       | 1.33                     | 97.74          | 0.10   |
| 11N40    | Ant1    | 2422           | 0.65                       | 0.68                     | 95.59          | 0.20   |
|          |         | 2437           | 0.65                       | 0.69                     | 94.20          | 0.26   |
|          |         | 2452           | 0.65                       | 0.68                     | 95.59          | 0.20   |



## Test Graphs

11B\_Ant1\_2412



11B\_Ant1\_2437



11B\_Ant1\_2462

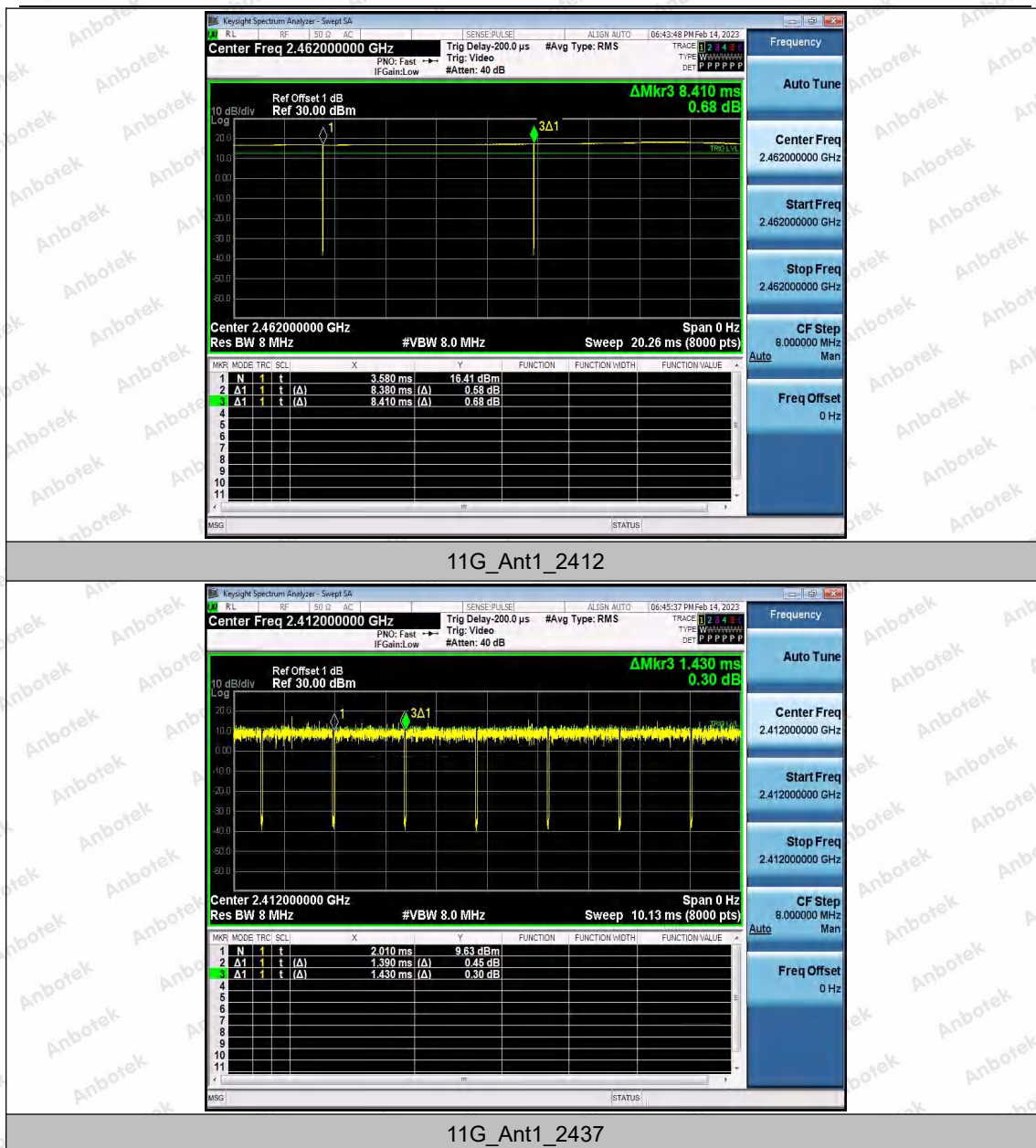
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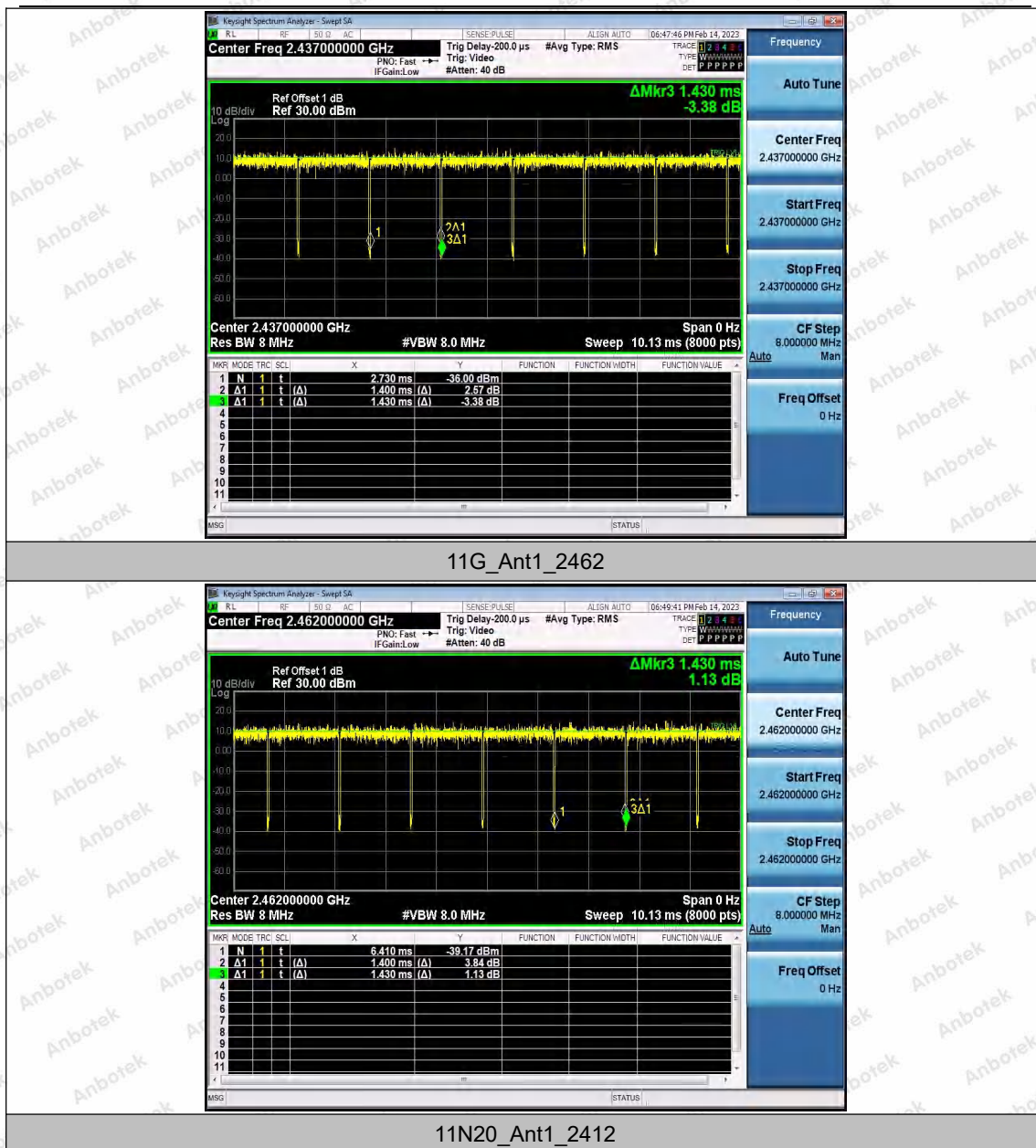
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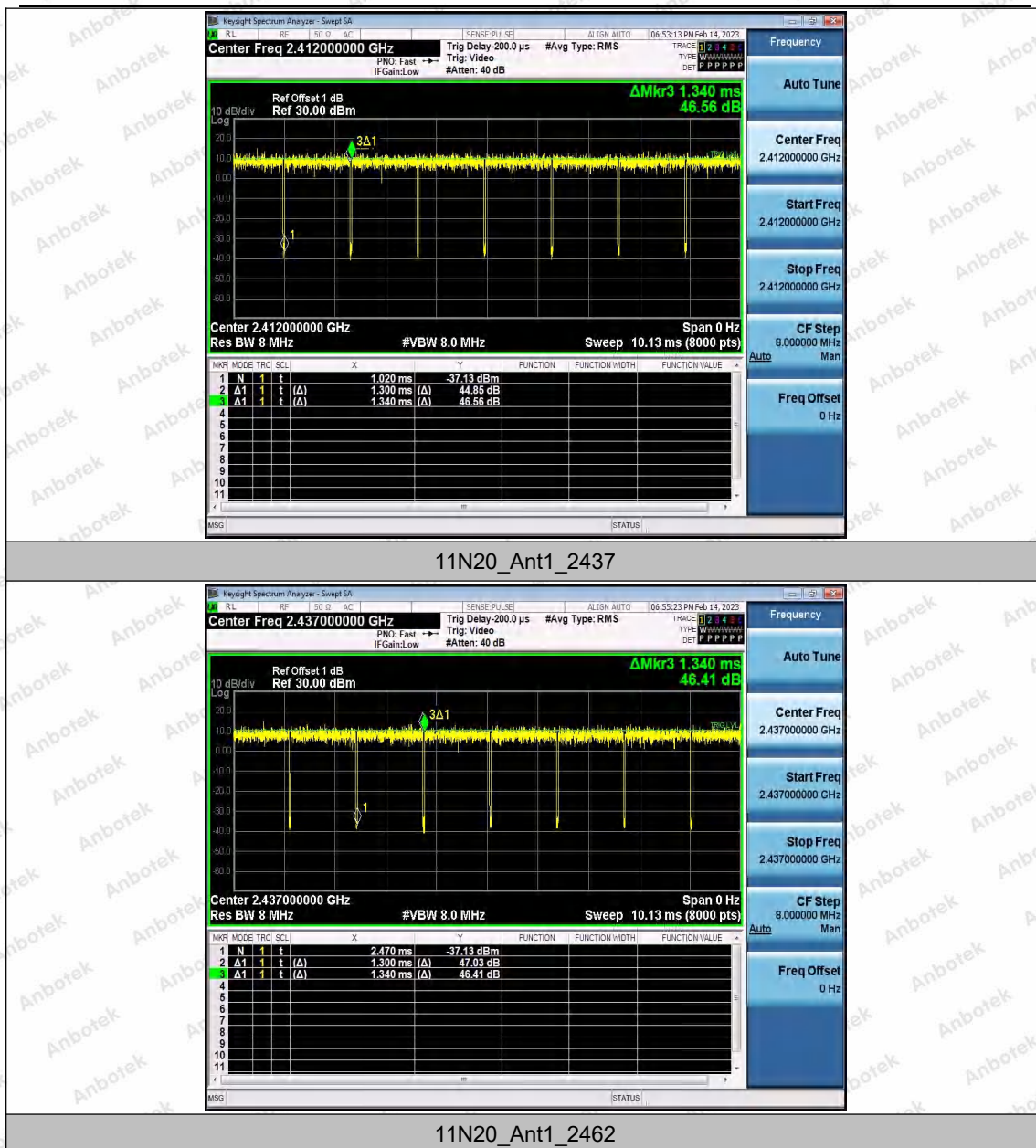
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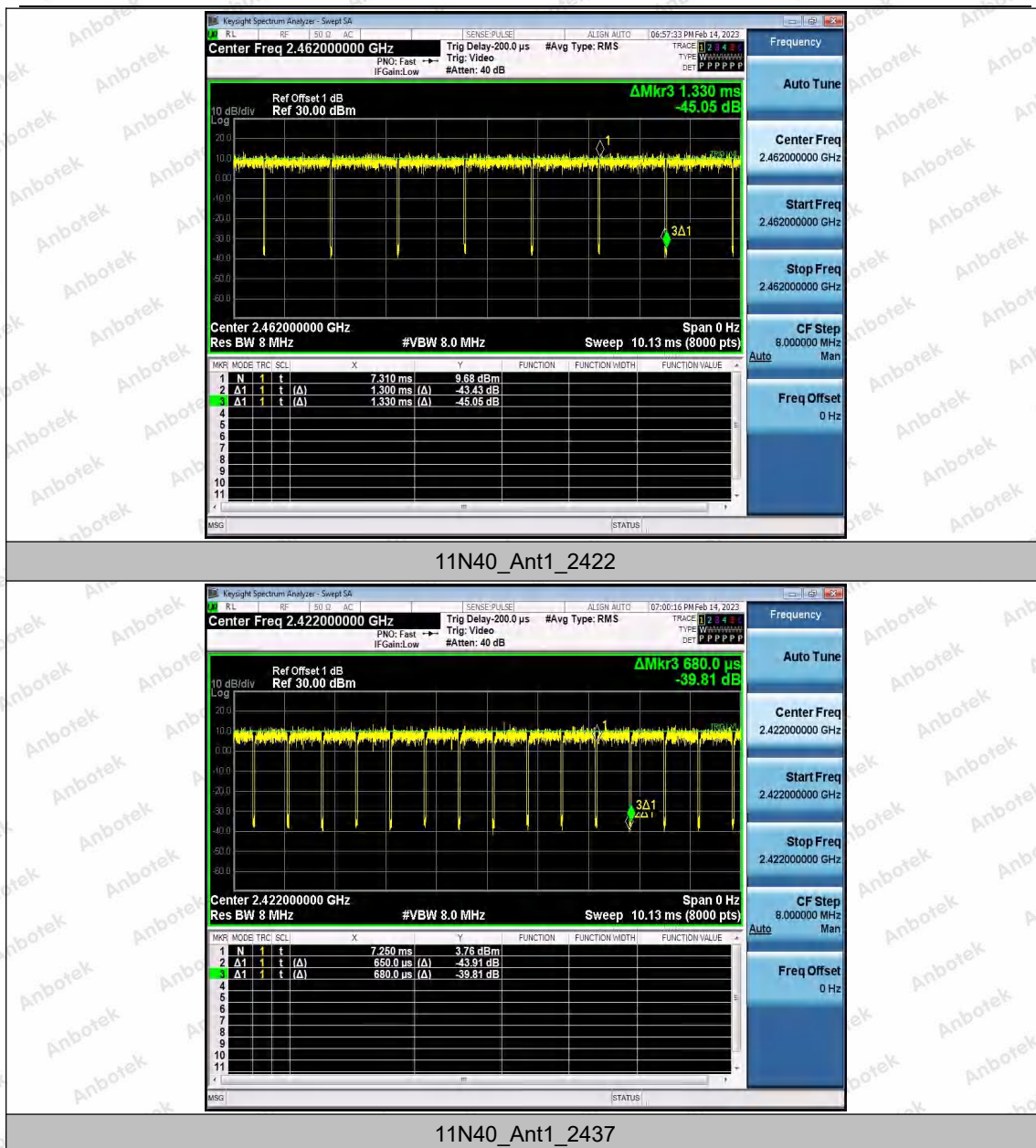


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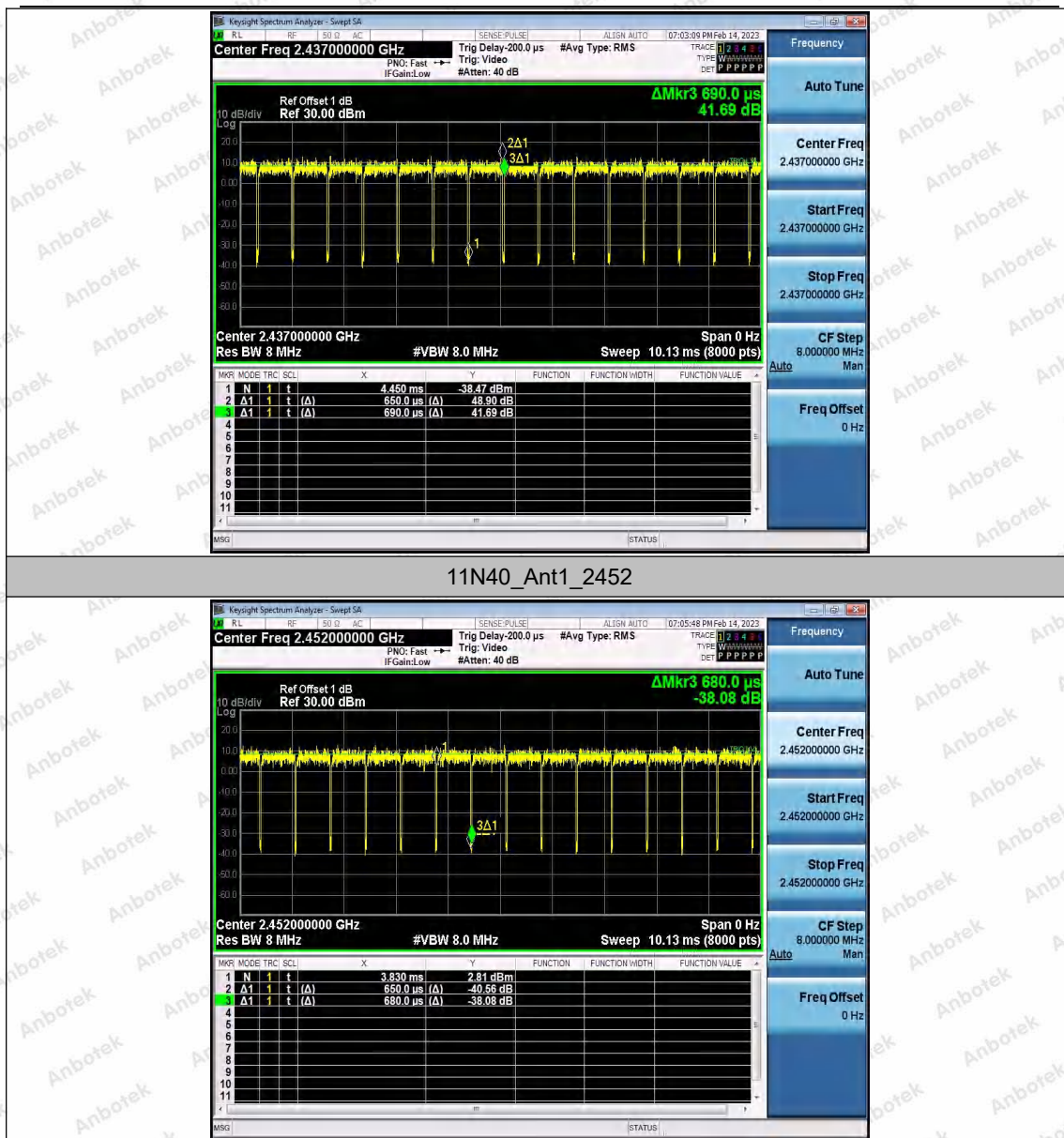
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