

## Appendix Test Data

|                  |                 |                    |            |
|------------------|-----------------|--------------------|------------|
| Report No.:      | 18220WC30190702 | Test Sample No.:   | 1-2-2      |
| Start Test Date: | 2023.09.05      | Finish Test Date:  | 2023.09.07 |
| Test Engineer:   | Hayman Chen     | Auditor:           | Rick Luo   |
| Temperature:     | 25.3°C          | Relative Humidity: | 48%        |
| Pressure:        | 102kPa          |                    |            |

## Appendix A: DTS Bandwidth

## Test Result

| Test Mode | Antenna | Frequency[MHz] | DTS BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|----------------|--------------|----------|----------|------------|---------|
| 11B       | Ant1    | 2412           | 8.560        | 2407.480 | 2416.040 | ≥0.5       | PASS    |
|           |         | 2437           | 9.040        | 2432.480 | 2441.520 | ≥0.5       | PASS    |
|           |         | 2462           | 8.560        | 2457.480 | 2466.040 | ≥0.5       | PASS    |
| 11G       | Ant1    | 2412           | 16.320       | 2403.840 | 2420.160 | ≥0.5       | PASS    |
|           |         | 2437           | 16.440       | 2428.760 | 2445.200 | ≥0.5       | PASS    |
|           |         | 2462           | 16.320       | 2453.840 | 2470.160 | ≥0.5       | PASS    |
| 11N20SISO | Ant1    | 2412           | 17.520       | 2403.240 | 2420.760 | ≥0.5       | PASS    |
|           |         | 2437           | 17.240       | 2428.240 | 2445.480 | ≥0.5       | PASS    |
|           |         | 2462           | 17.600       | 2453.200 | 2470.800 | ≥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



## 11N20SISO\_Ant1\_2437

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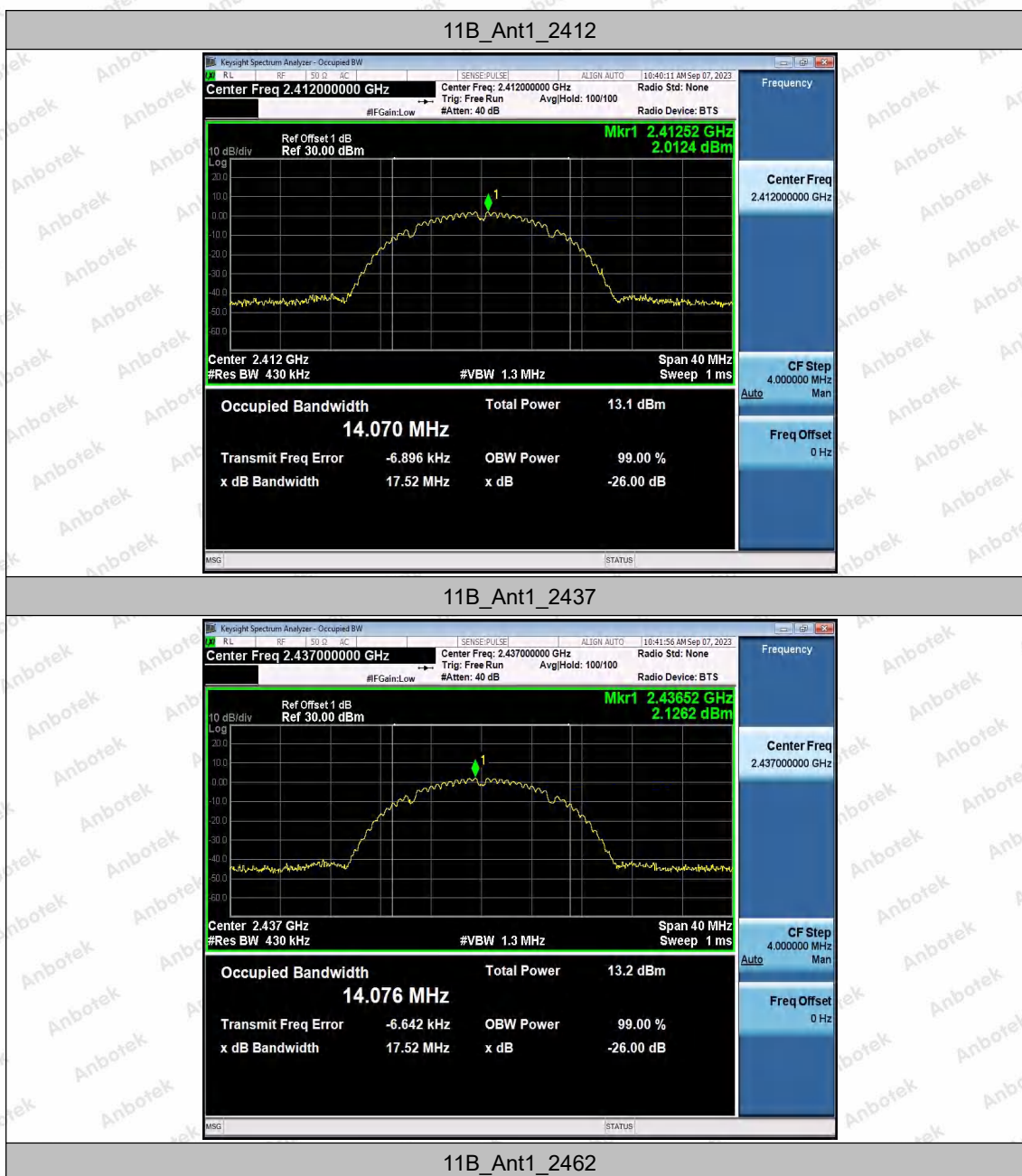
## Appendix B: Occupied Channel Bandwidth

### Test Result

| Test Mode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   |
|-----------|---------|----------------|-----------|-----------|-----------|
| 11B       | Ant1    | 2412           | 14.070    | 2404.9581 | 2419.0281 |
|           |         | 2437           | 14.076    | 2429.9554 | 2444.0314 |
|           |         | 2462           | 14.067    | 2454.9559 | 2469.0229 |
| 11G       | Ant1    | 2412           | 17.149    | 2403.4641 | 2420.6131 |
|           |         | 2437           | 17.258    | 2428.3992 | 2445.6572 |
|           |         | 2462           | 17.075    | 2453.4361 | 2470.5111 |
| 11N20SISO | Ant1    | 2412           | 18.275    | 2402.8800 | 2421.1550 |
|           |         | 2437           | 18.137    | 2427.9421 | 2446.0791 |
|           |         | 2462           | 18.256    | 2452.9219 | 2471.1779 |



## Test Graphs



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11G\_Ant1\_2412



11G\_Ant1\_2437



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11G\_Ant1\_2462



11N20SISO\_Ant1\_2412



11N20SISO\_Ant1\_2437

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11N20SISO\_Ant1\_2462



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## Appendix C: Maximum conducted output power

### sTest Result Peak

| Test Mode | Antenna | Frequency[MHz] | Peak Power[dBm] | Conducted Limit[dBm] |
|-----------|---------|----------------|-----------------|----------------------|
| 11B       | Ant1    | 2412           | 13.21           | ≤30.00               |
|           |         | 2437           | 13.34           | ≤30.00               |
|           |         | 2462           | 13.53           | ≤30.00               |
| 11G       | Ant1    | 2412           | 13.82           | ≤30.00               |
|           |         | 2437           | 13.99           | ≤30.00               |
|           |         | 2462           | 14.12           | ≤30.00               |
| 11N20SISO | Ant1    | 2412           | 13.62           | ≤30.00               |
|           |         | 2437           | 13.81           | ≤30.00               |
|           |         | 2462           | 14.02           | ≤30.00               |



## Appendix D: Maximum power spectral density

### Test Result

| Test Mode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|-----------|---------|----------------|------------------|-----------------|---------|
| 11B       | Ant1    | 2412           | -12.42           | ≤8.00           | PASS    |
|           |         | 2437           | -11.57           | ≤8.00           | PASS    |
|           |         | 2462           | -12.53           | ≤8.00           | PASS    |
| 11G       | Ant1    | 2412           | -18.63           | ≤8.00           | PASS    |
|           |         | 2437           | -18.81           | ≤8.00           | PASS    |
|           |         | 2462           | -17.18           | ≤8.00           | PASS    |
| 11N20SISO | Ant1    | 2412           | -19.06           | ≤8.00           | PASS    |
|           |         | 2437           | -18.54           | ≤8.00           | PASS    |
|           |         | 2462           | -18.61           | ≤8.00           | PASS    |



## Test Graphs

11B\_Ant1\_2412



11B\_Ant1\_2437



11B\_Ant1\_2462

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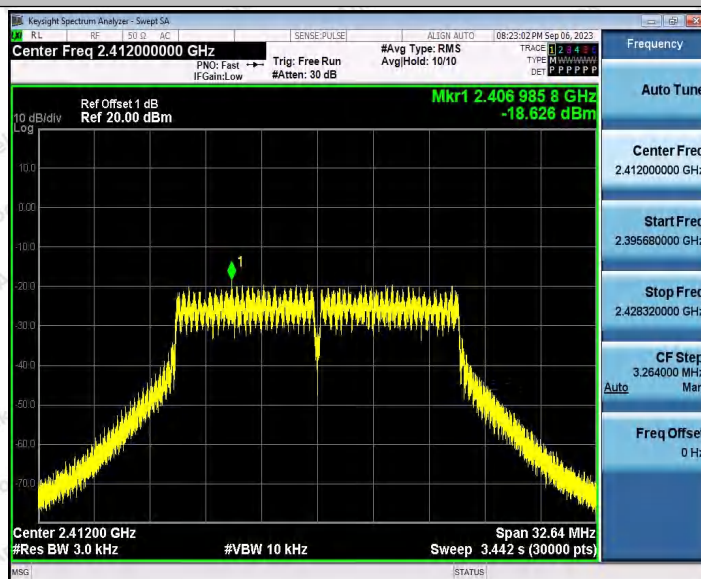


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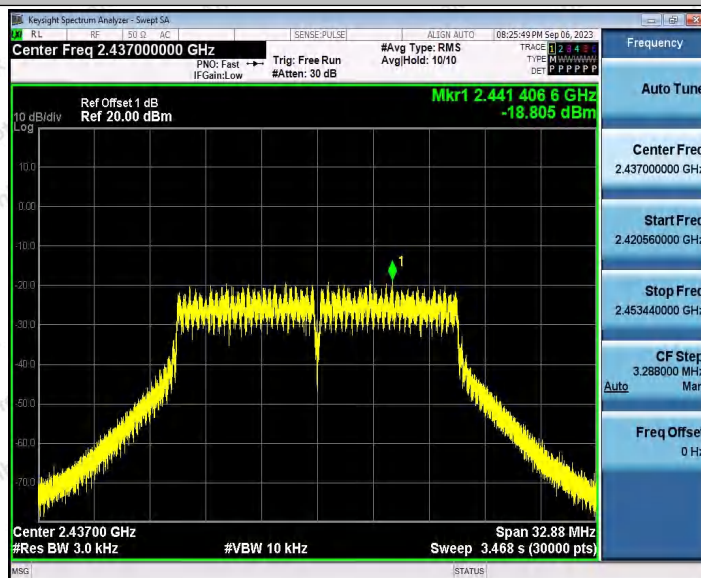




11G\_Ant1\_2412



11G\_Ant1\_2437



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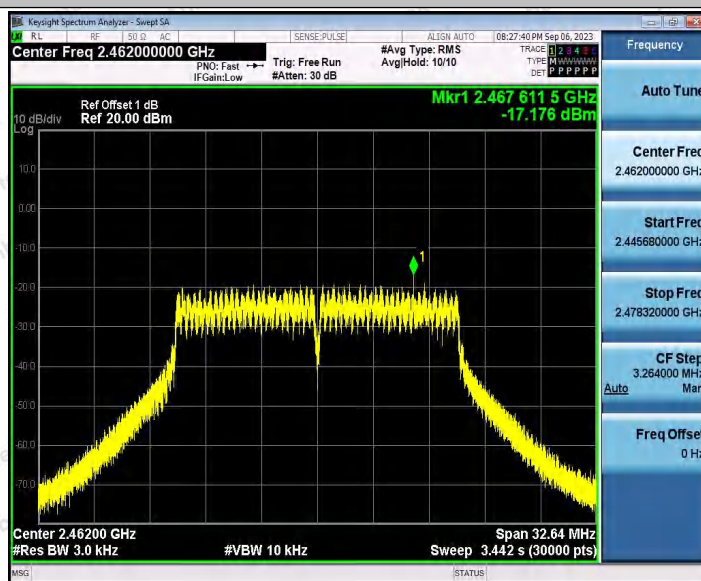
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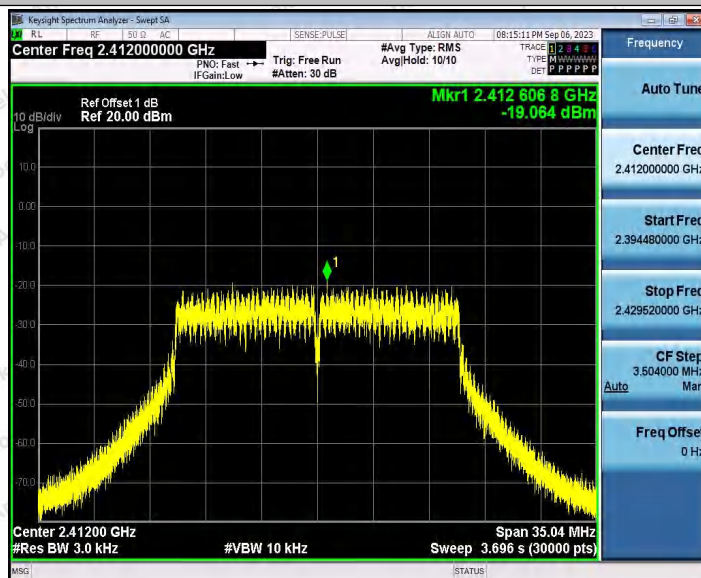
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11G\_Ant1\_2462



11N20SISO\_Ant1\_2412



11N20SISO\_Ant1\_2437

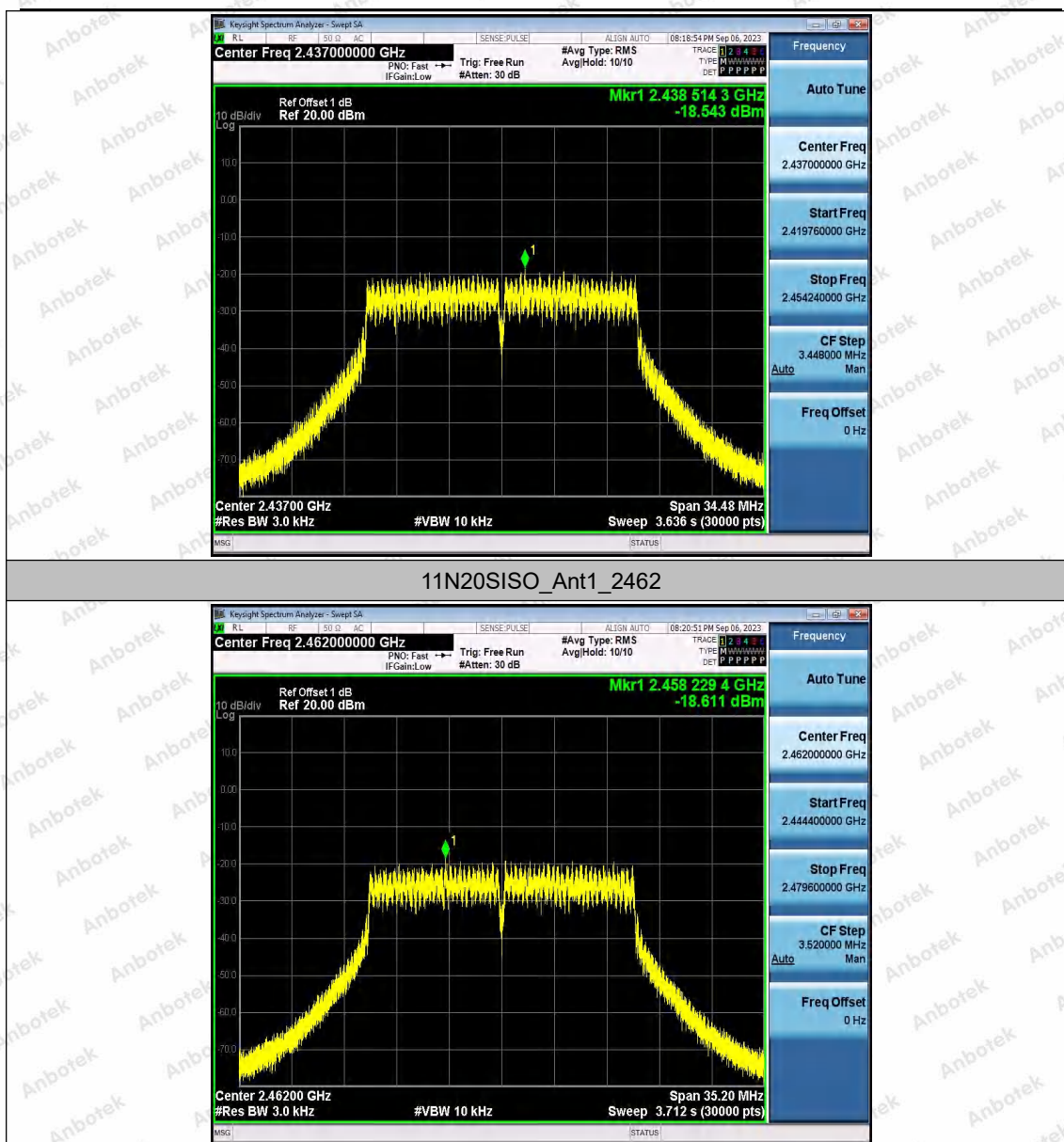
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## Appendix E: Band edge measurements

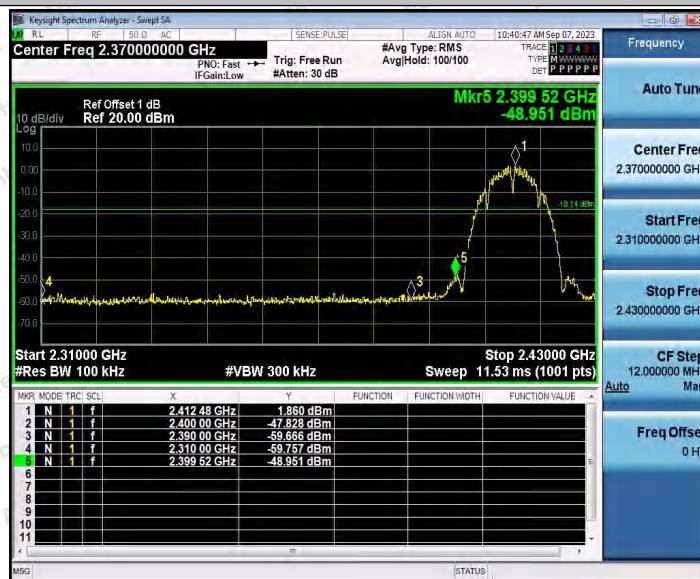
### Test Result

| TestMode  | Antenna | ChName | Frequency<br>[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|--------|--------------------|---------------|-------------|------------|---------|
| 11B       | Ant1    | Low    | 2412               | 1.86          | -48.95      | ≤-18.14    | PASS    |
|           |         | High   | 2462               | 1.88          | -56.10      | ≤-18.12    | PASS    |
| 11G       | Ant1    | Low    | 2412               | -4.36         | -41.65      | ≤-24.36    | PASS    |
|           |         | High   | 2462               | -4.08         | -55.56      | ≤-24.08    | PASS    |
| 11N20SISO | Ant1    | Low    | 2412               | -4.95         | -39.62      | ≤-24.95    | PASS    |
|           |         | High   | 2462               | -4.59         | -56.33      | ≤-24.59    | PASS    |



## Test Graphs

11B\_Ant1\_Low\_2412



11B\_Ant1\_High\_2462



11G\_Ant1\_Low\_2412

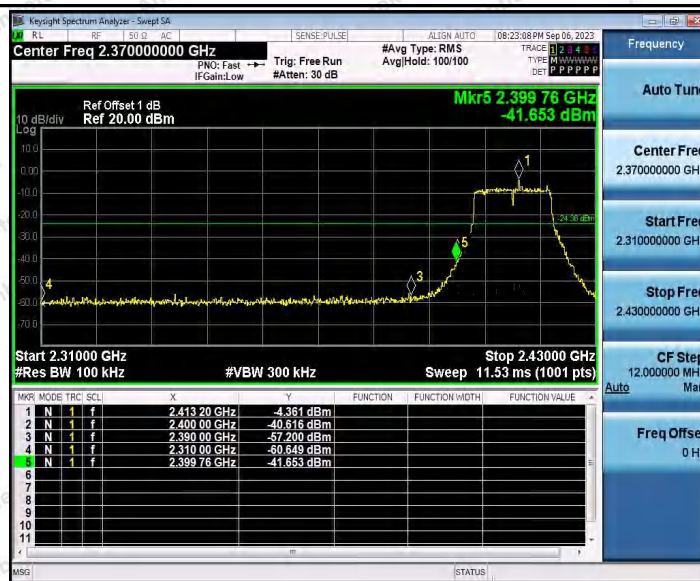
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11G\_Ant1\_High\_2462



11N20SISO\_Ant1\_Low\_2412



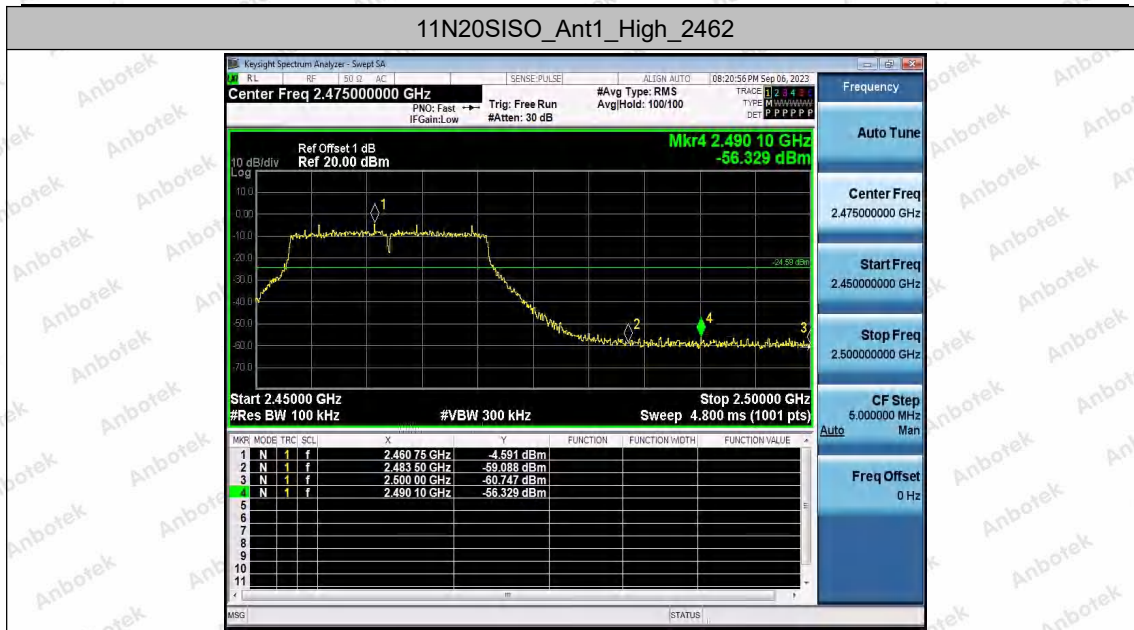
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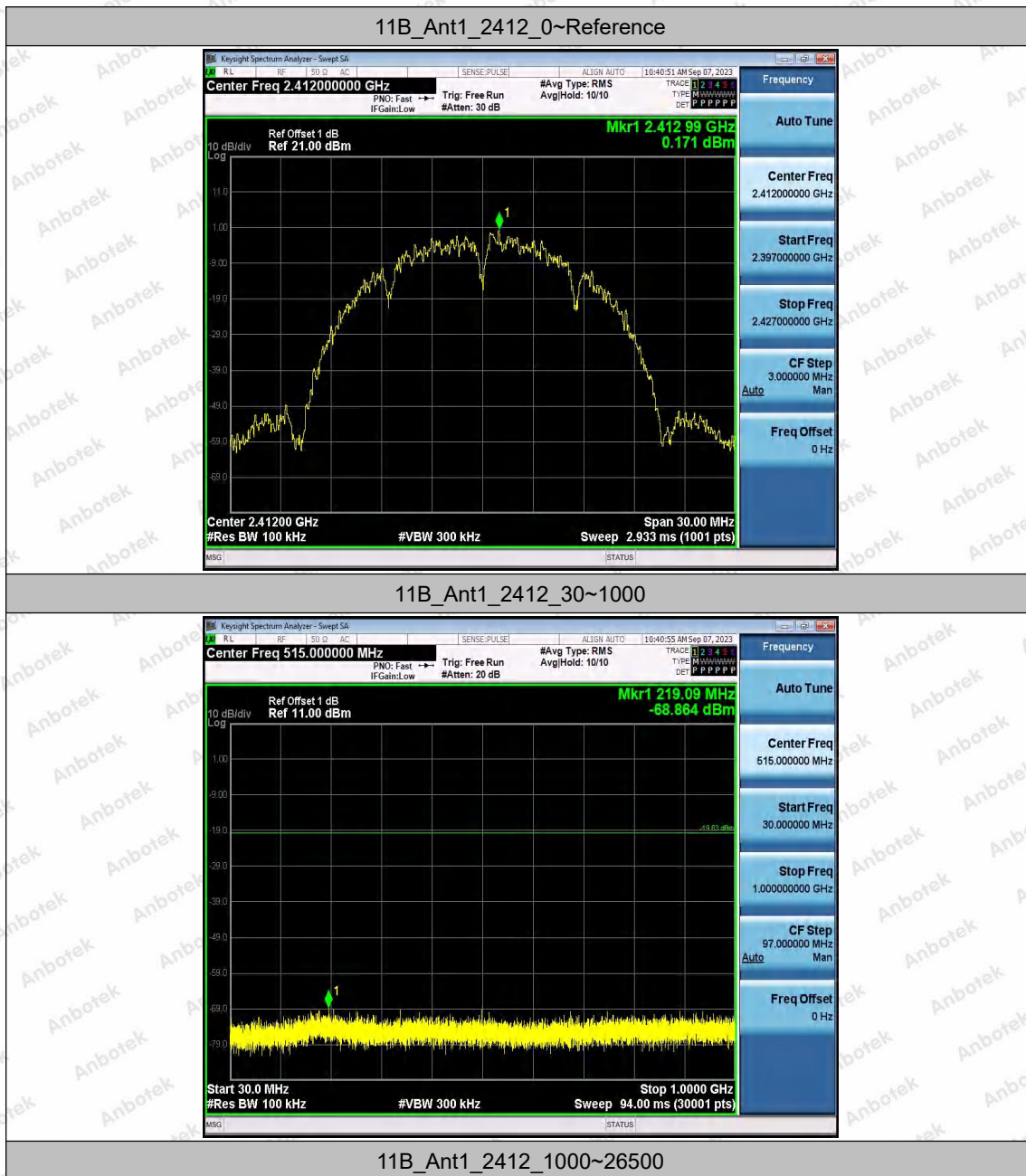
## Appendix F: Conducted Spurious Emission

### Test Result

| Test Mode | Antenna | Frequency[MHz] | FreqRange [Mhz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|----------------|-----------------|----------------|--------------|-------------|---------|
| 11B       | Ant1    | 2412           | Reference       | 0.17           | 0.17         | ---         | PASS    |
|           |         |                | 30~1000         | 0.17           | -68.86       | ≤-19.83     | PASS    |
|           |         |                | 1000~26500      | 0.17           | -54.27       | ≤-19.83     | PASS    |
|           |         | 2437           | Reference       | 0.14           | 0.14         | ---         | PASS    |
|           |         |                | 30~1000         | 0.14           | -69.04       | ≤-19.86     | PASS    |
|           |         |                | 1000~26500      | 0.14           | -53.05       | ≤-19.86     | PASS    |
|           |         | 2462           | Reference       | 0.20           | 0.20         | ---         | PASS    |
|           |         |                | 30~1000         | 0.20           | -68.47       | ≤-19.8      | PASS    |
|           |         |                | 1000~26500      | 0.20           | -53.88       | ≤-19.8      | PASS    |
| 11G       | Ant1    | 2412           | Reference       | -6.55          | -6.55        | ---         | PASS    |
|           |         |                | 30~1000         | -6.55          | -68.12       | ≤-26.55     | PASS    |
|           |         |                | 1000~26500      | -6.55          | -53.42       | ≤-26.55     | PASS    |
|           |         | 2437           | Reference       | -5.60          | -5.60        | ---         | PASS    |
|           |         |                | 30~1000         | -5.60          | -68.21       | ≤-25.6      | PASS    |
|           |         |                | 1000~26500      | -5.60          | -54.05       | ≤-25.6      | PASS    |
|           |         | 2462           | Reference       | -7.37          | -7.37        | ---         | PASS    |
|           |         |                | 30~1000         | -7.37          | -68.68       | ≤-27.37     | PASS    |
|           |         |                | 1000~26500      | -7.37          | -52.09       | ≤-27.37     | PASS    |
| 11N20SISO | Ant1    | 2412           | Reference       | -5.32          | -5.32        | ---         | PASS    |
|           |         |                | 30~1000         | -5.32          | -68.15       | ≤-25.32     | PASS    |
|           |         |                | 1000~26500      | -5.32          | -53.47       | ≤-25.32     | PASS    |
|           |         | 2437           | Reference       | -8.46          | -8.46        | ---         | PASS    |
|           |         |                | 30~1000         | -8.46          | -68.69       | ≤-28.46     | PASS    |
|           |         |                | 1000~26500      | -8.46          | -53.5        | ≤-28.46     | PASS    |
|           |         | 2462           | Reference       | -5.89          | -5.89        | ---         | PASS    |
|           |         |                | 30~1000         | -5.89          | -68.49       | ≤-25.89     | PASS    |
|           |         |                | 1000~26500      | -5.89          | -54.03       | ≤-25.89     | PASS    |



## Test Graphs



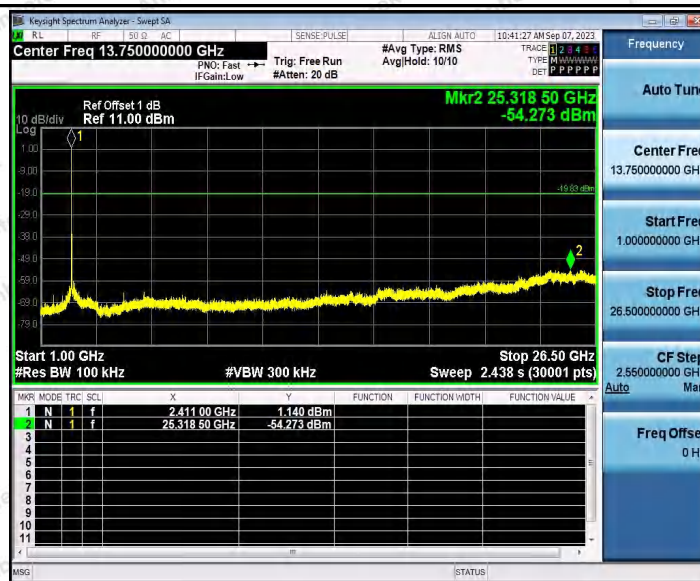
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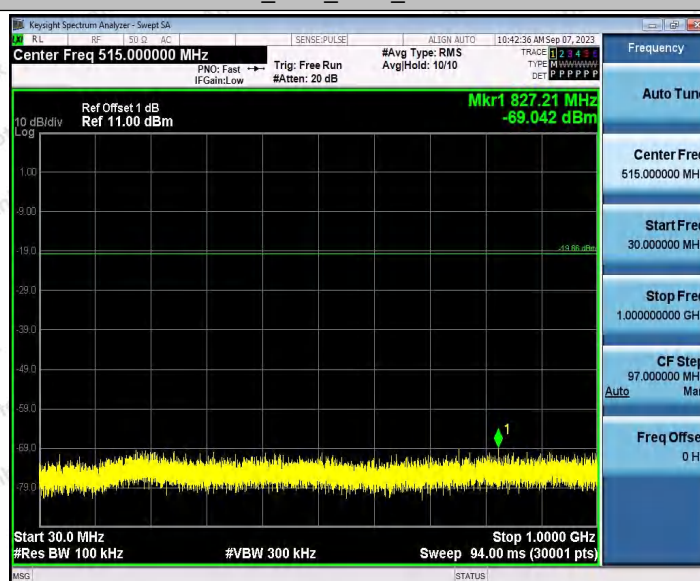




11B\_Ant1\_2437\_0~Reference



11B\_Ant1\_2437\_30~1000



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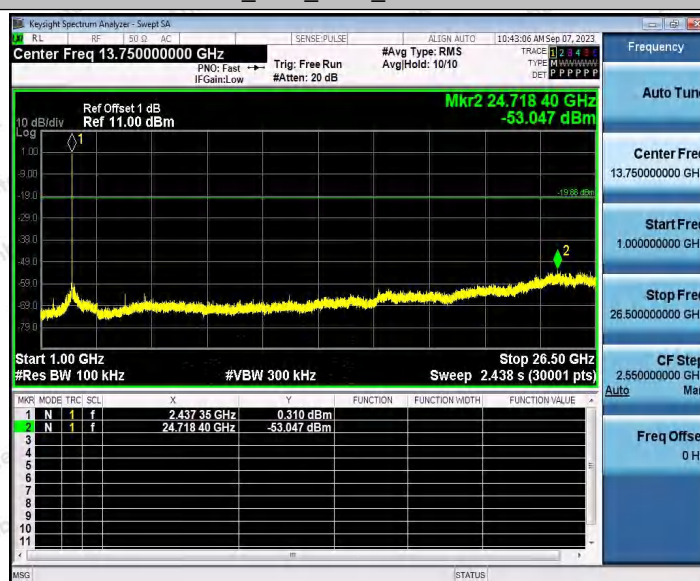
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11B\_Ant1\_2437\_1000~26500



11B\_Ant1\_2462\_0~Reference



11B\_Ant1\_2462\_30~1000

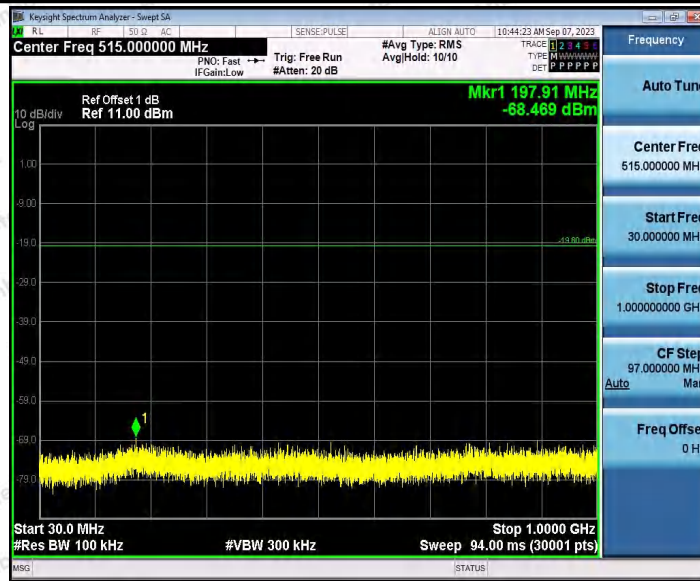
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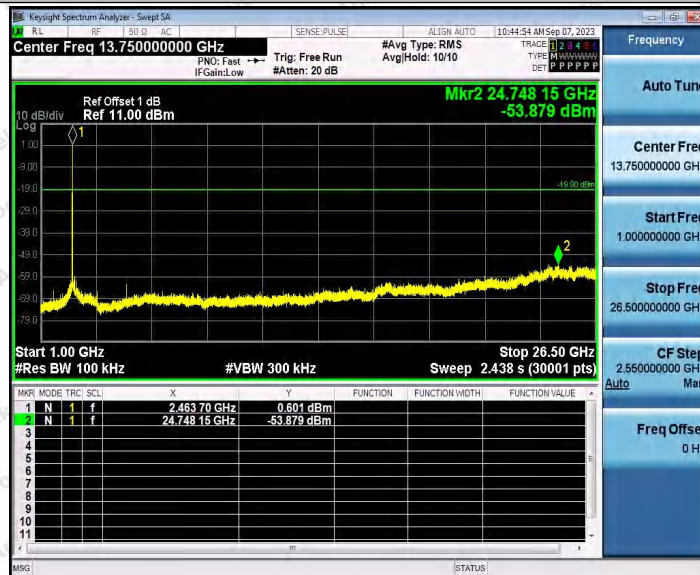


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11B\_Ant1\_2462\_1000~26500



11G\_Ant1\_2412\_0~Reference



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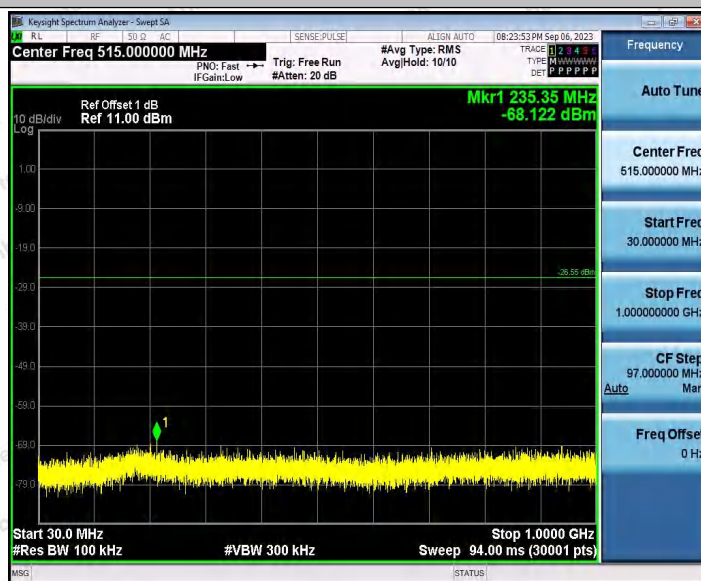
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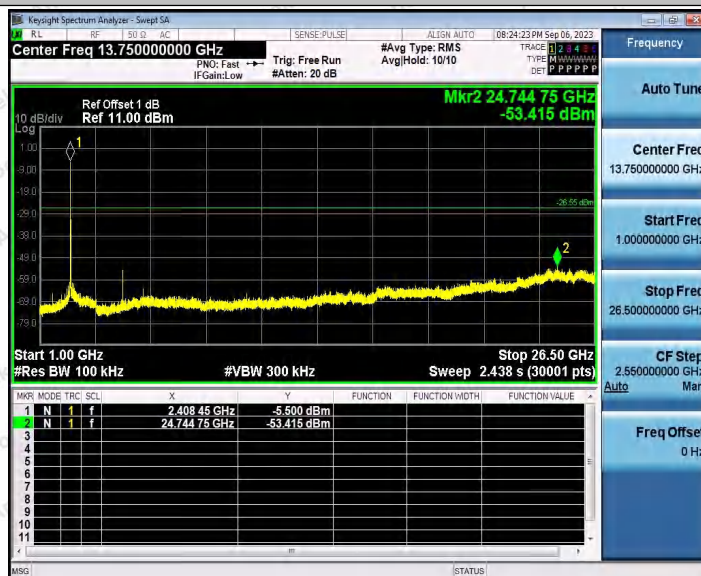
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## 11G\_Ant1\_2412\_30~1000



## 11G\_Ant1\_2412\_1000~26500



## 11G\_Ant1\_2437\_0~Reference

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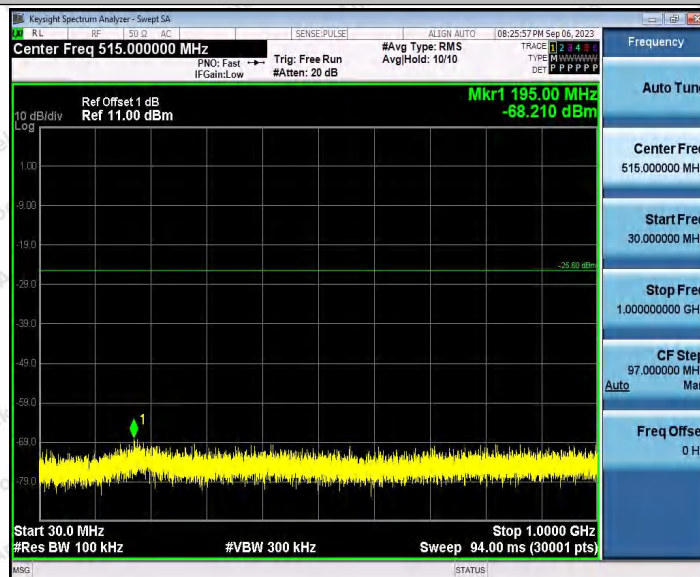


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11G\_Ant1\_2437\_30~1000



11G\_Ant1\_2437\_1000~26500



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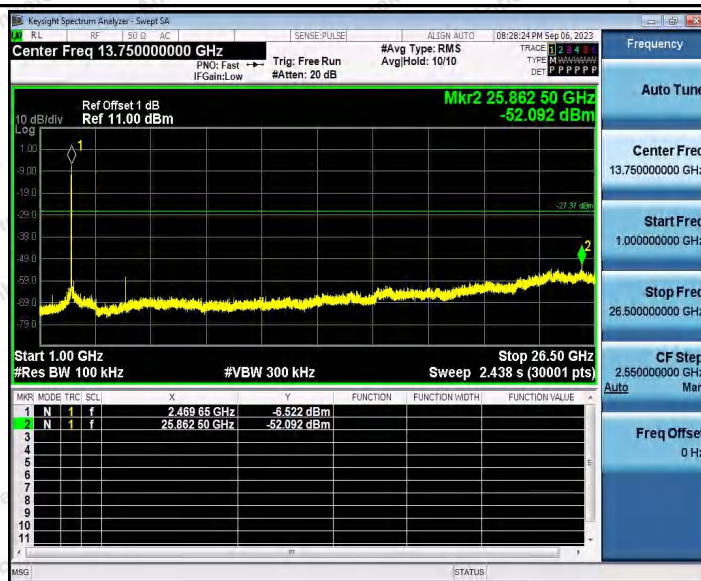


|     |      |      |         |
|-----|------|------|---------|
| 11G | Ant1 | 2462 | 30~1000 |
|-----|------|------|---------|



|     |      |      |            |
|-----|------|------|------------|
| 11G | Ant1 | 2462 | 1000~26500 |
|-----|------|------|------------|

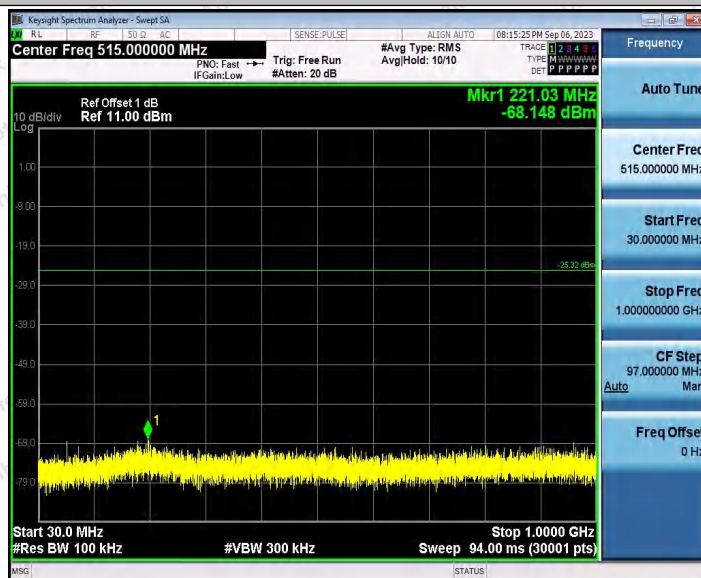




11N20SISO\_Ant1\_2412\_0~Reference



11N20SISO\_Ant1\_2412\_30~1000



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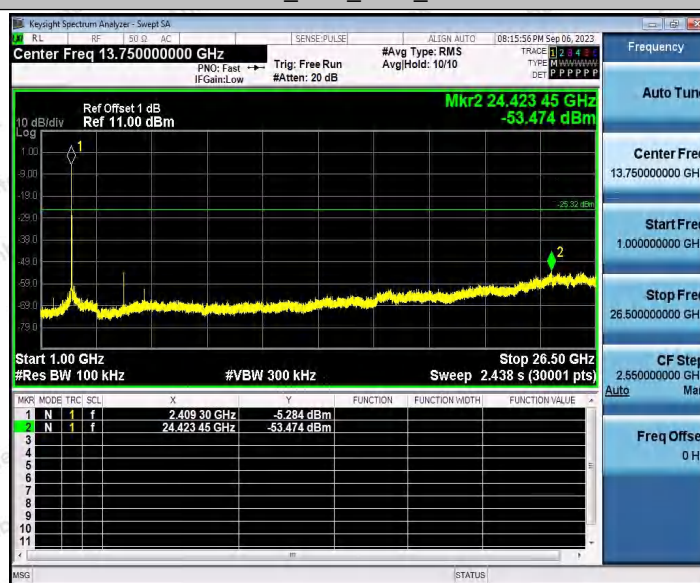
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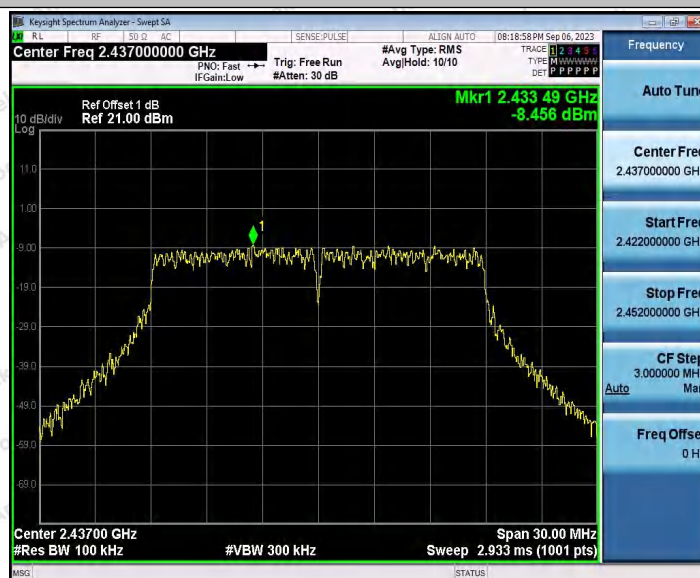
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## 11N20SISO\_Ant1\_2412\_1000~26500



## 11N20SISO\_Ant1\_2437\_0~Reference



## 11N20SISO\_Ant1\_2437\_30~1000

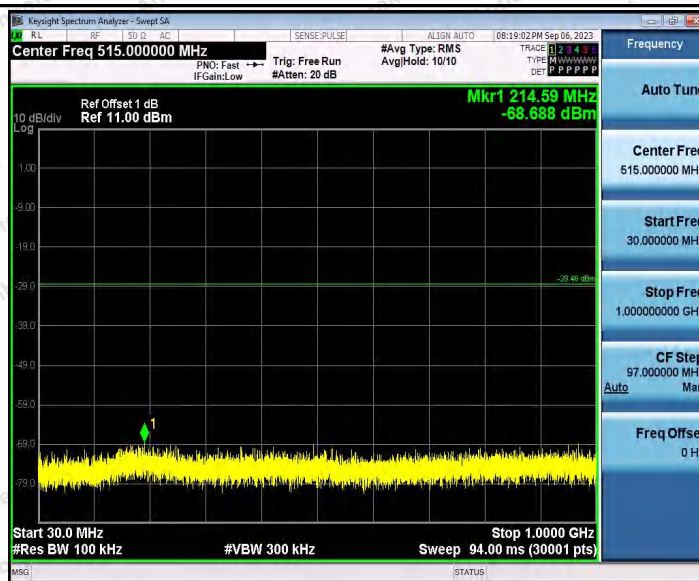
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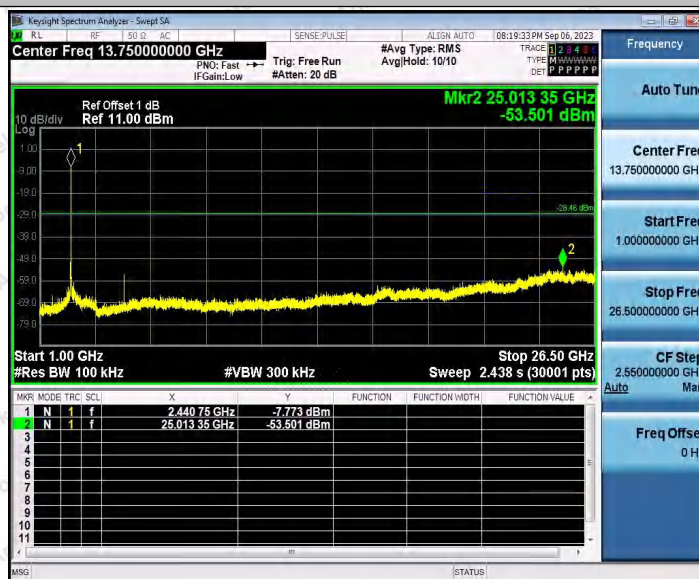


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11N20SISO\_Ant1\_2437\_1000~26500



11N20SISO\_Ant1\_2462\_0~Reference



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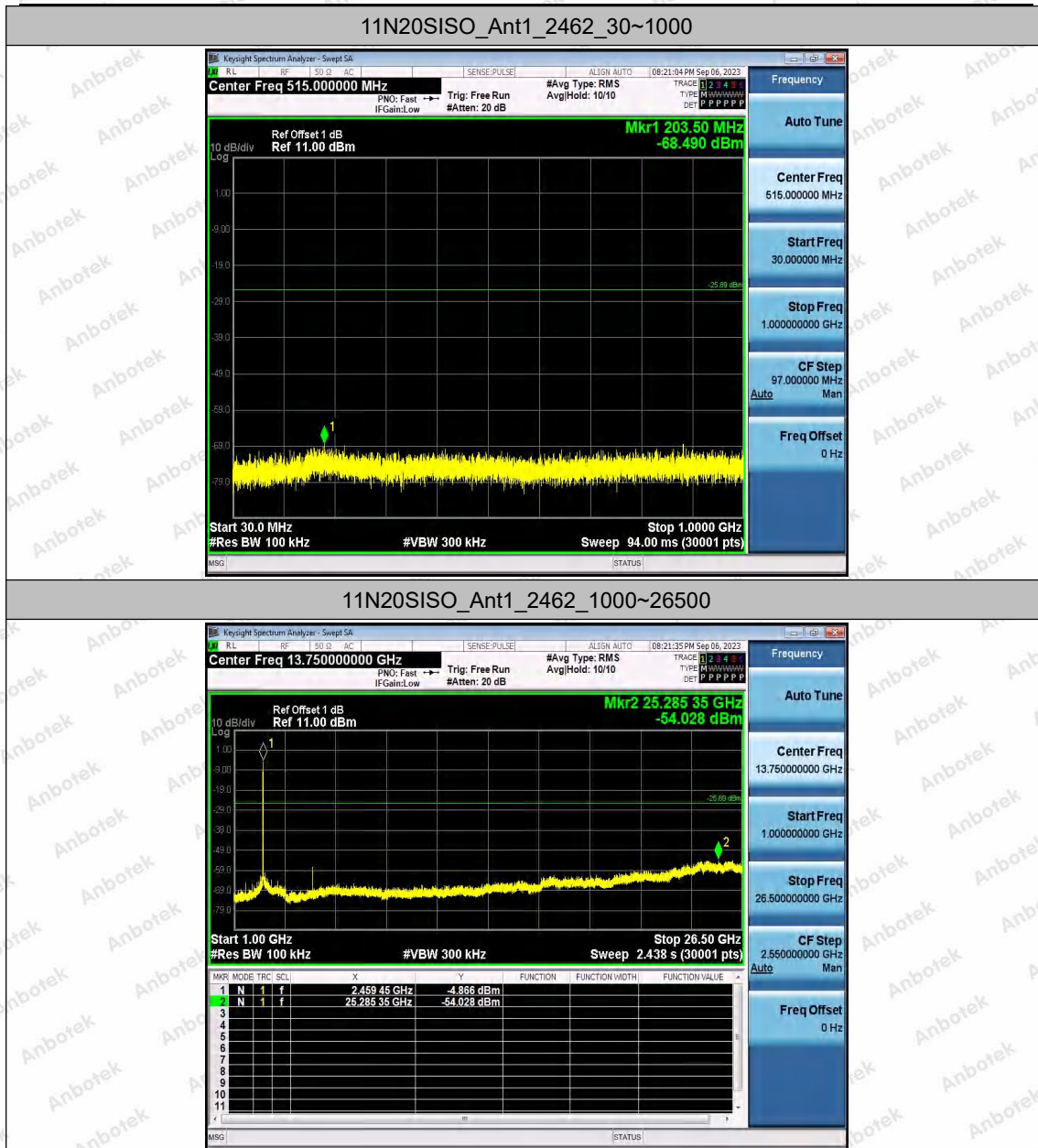


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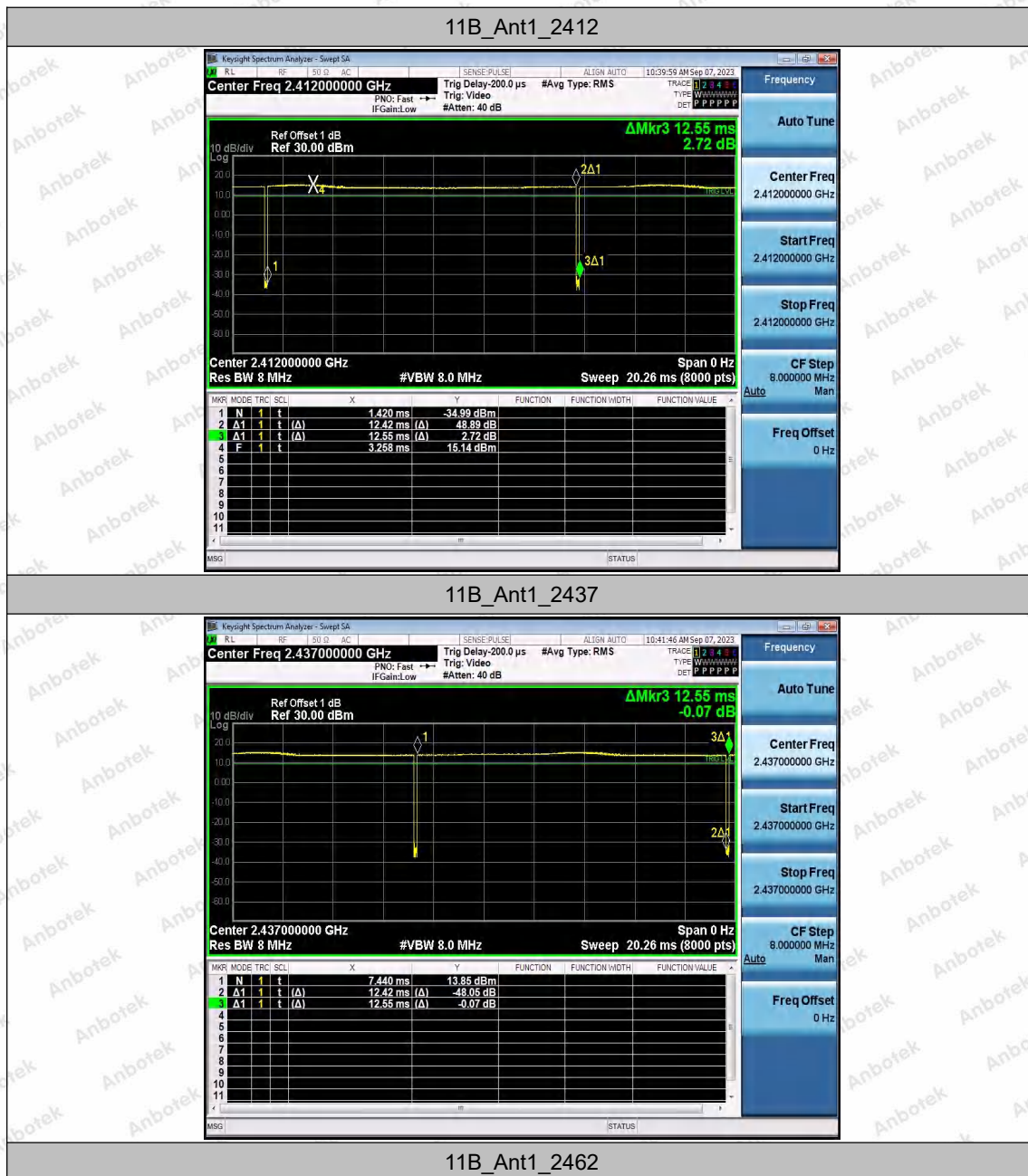
## Appendix G: Duty Cycle

### Test Result

| Test Mode | Antenna | Frequency<br>[MHz] | Transmission<br>Duration [ms] | Transmission<br>Period [ms] | Duty Cycle<br>[%] | Factor |
|-----------|---------|--------------------|-------------------------------|-----------------------------|-------------------|--------|
| 11B       | Ant1    | 2412               | 12.42                         | 12.55                       | 98.96             | 0.05   |
|           |         | 2437               | 12.42                         | 12.55                       | 98.96             | 0.05   |
|           |         | 2462               | 12.42                         | 12.55                       | 98.96             | 0.05   |
| 11G       | Ant1    | 2412               | 2.06                          | 2.19                        | 94.06             | 0.27   |
|           |         | 2437               | 2.07                          | 2.20                        | 94.09             | 0.26   |
|           |         | 2462               | 2.06                          | 2.19                        | 94.06             | 0.27   |
| 11N20SISO | Ant1    | 2412               | 1.92                          | 2.05                        | 93.66             | 0.28   |
|           |         | 2437               | 1.92                          | 2.05                        | 93.66             | 0.28   |
|           |         | 2462               | 1.92                          | 2.05                        | 93.66             | 0.28   |



## Test Graphs



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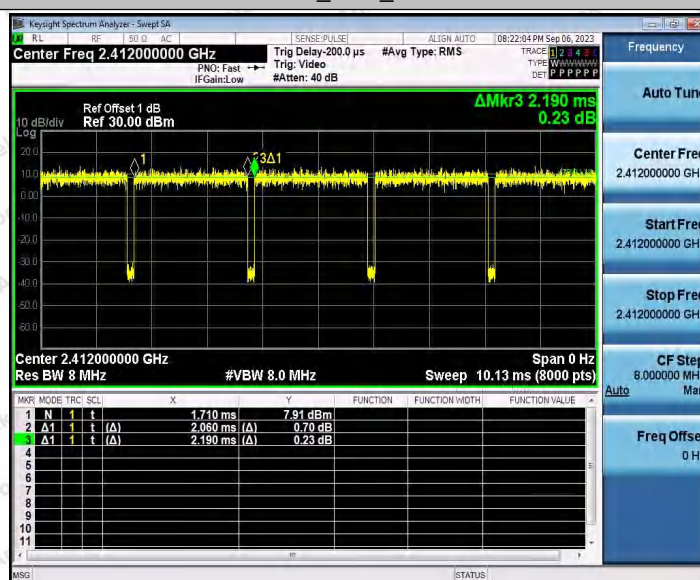


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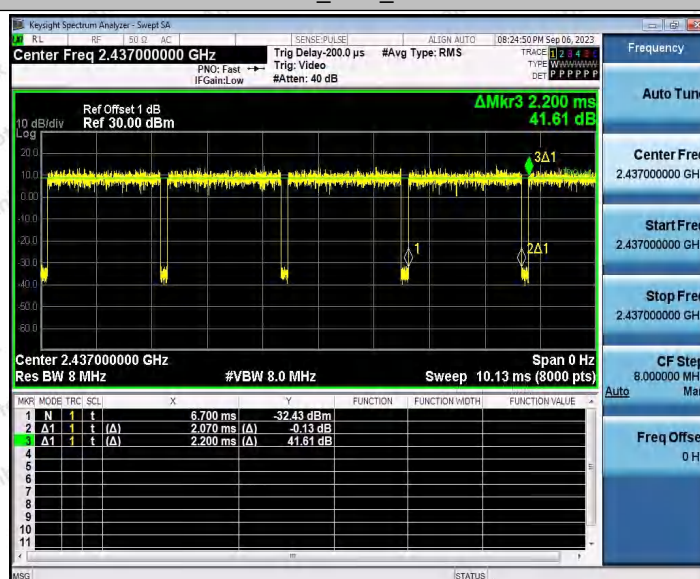




11G\_Ant1\_2412



11G\_Ant1\_2437



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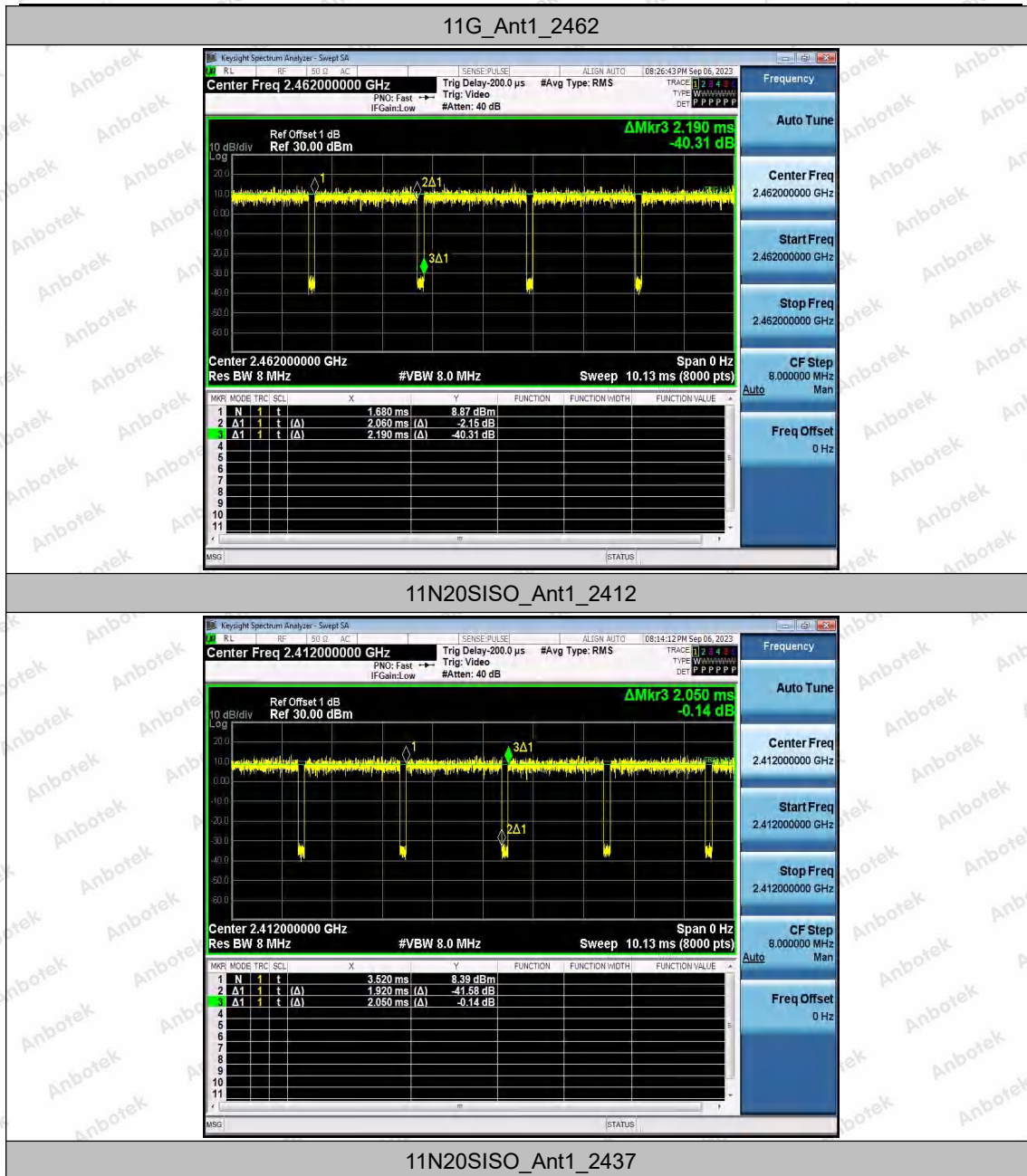


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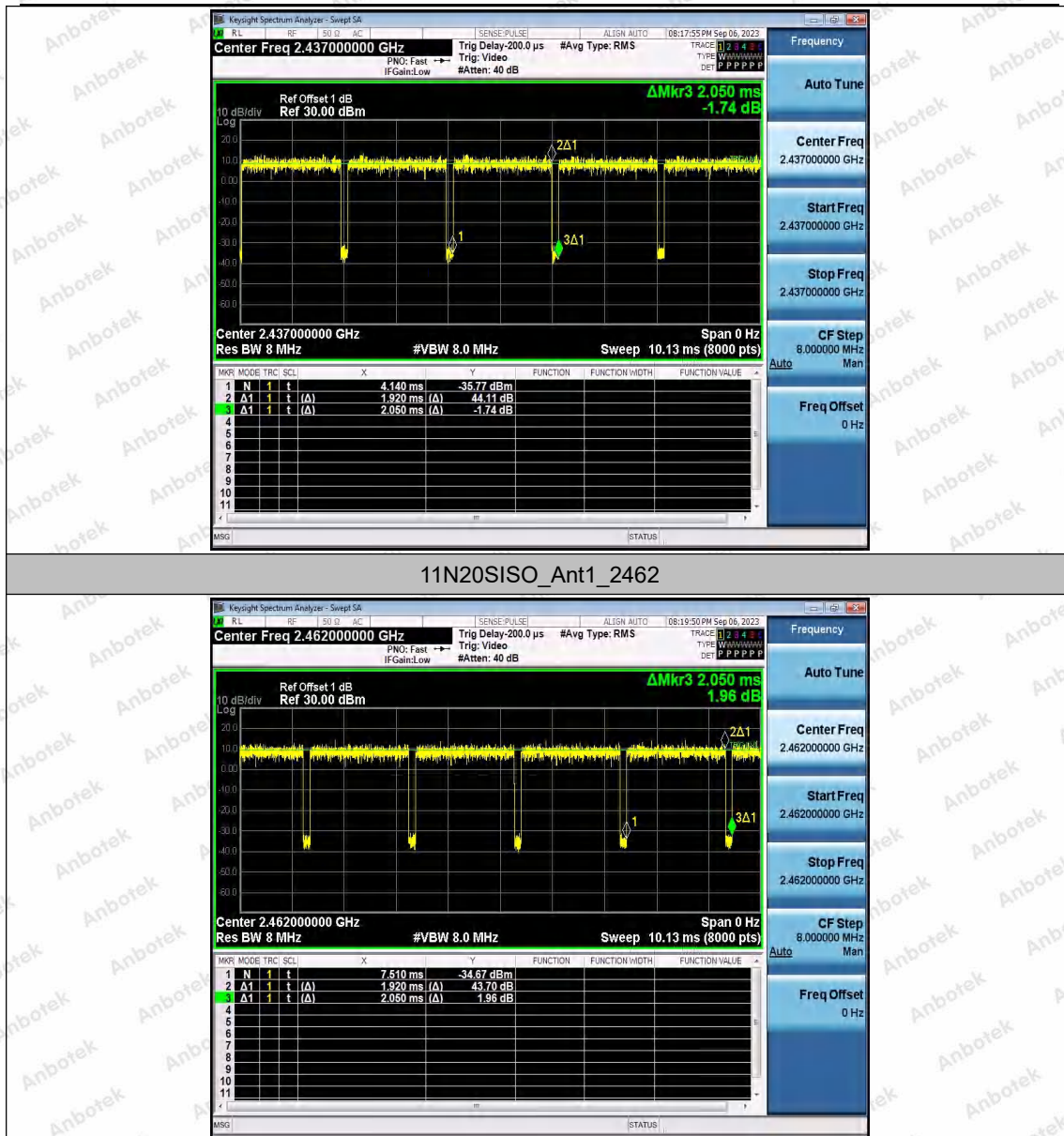
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