

## Appendix Test Data

|                  |                 |                    |                   |
|------------------|-----------------|--------------------|-------------------|
| Report No.:      | 18220WC20207302 | Test Sample No.:   | 1-2-2             |
| Start Test Date: | 2022.9.5        | Finish Test Date:  | 2022.9.9          |
| Test Engineer:   | <i>Tony He</i>  | Auditor:           | <i>Edward Pan</i> |
| Temperature:     | 27.3°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           | 9.080        | 2407.480 | 2416.560 | 0.5        | PASS    |
|           |         | 2437           | 9.040        | 2432.480 | 2441.520 | 0.5        | PASS    |
|           |         | 2462           | 8.600        | 2457.960 | 2466.560 | 0.5        | PASS    |
| 11G       | Ant1    | 2412           | 16.320       | 2403.840 | 2420.160 | 0.5        | PASS    |
|           |         | 2437           | 16.480       | 2428.760 | 2445.240 | 0.5        | PASS    |
|           |         | 2462           | 16.360       | 2453.840 | 2470.200 | 0.5        | PASS    |
| 11N20SISO | Ant1    | 2412           | 17.640       | 2403.200 | 2420.840 | 0.5        | PASS    |
|           |         | 2437           | 17.600       | 2428.200 | 2445.800 | 0.5        | PASS    |
|           |         | 2462           | 17.560       | 2453.240 | 2470.800 | 0.5        | PASS    |



## Test Graphs

11B\_Ant1\_2412



11B\_Ant1\_2437



11B\_Ant1\_2462





11G\_Ant1\_2412



11G\_Ant1\_2437





11G\_Ant1\_2462



11N20SISO\_Ant1\_2412



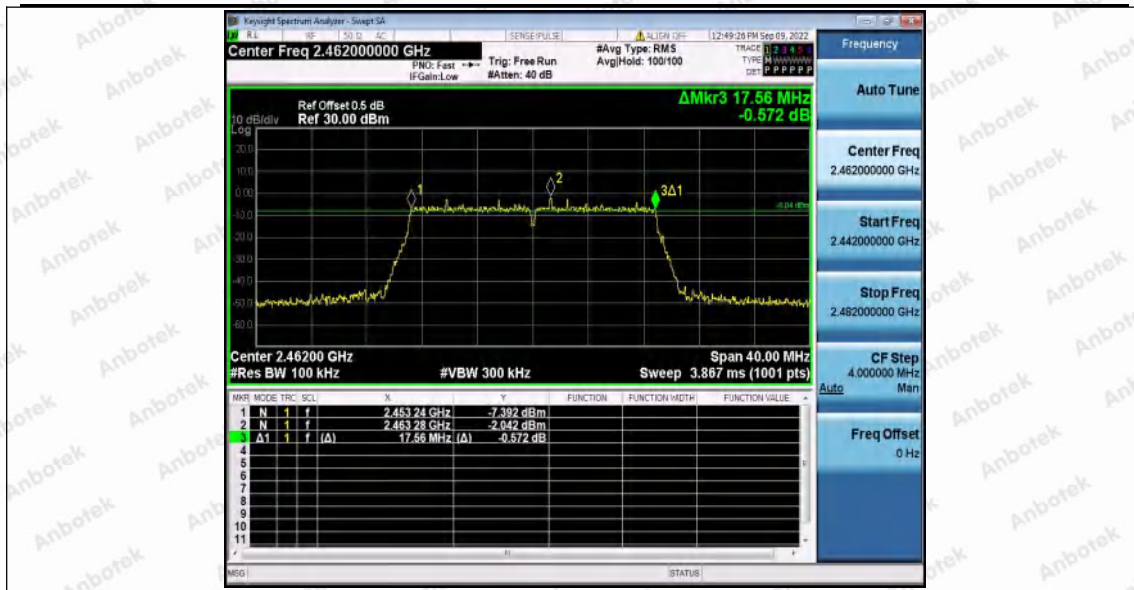


11N20SISO\_Ant1\_2437



11N20SISO\_Ant1\_2462





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## Appendix B: Occupied Channel Bandwidth

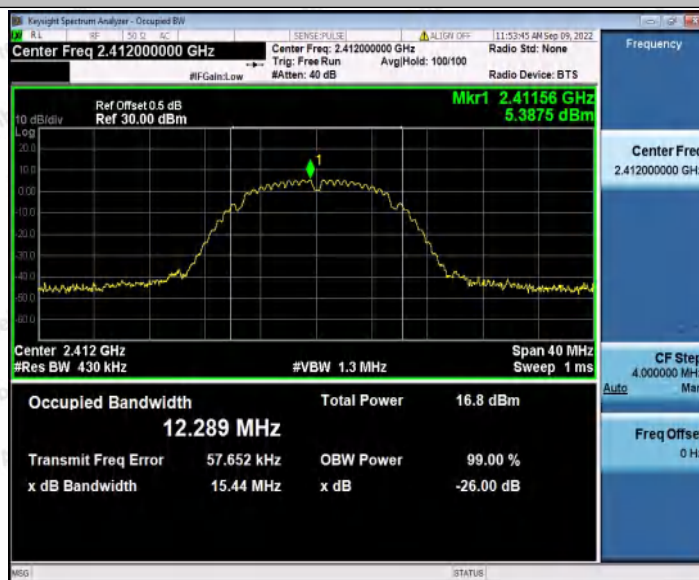
### Test Result

| TestMode  | Antenna | Channel<br>Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   |
|-----------|---------|---------------------------|-----------|-----------|-----------|
| 11B       | Ant1    | 2412                      | 12.289    | 2405.9132 | 2418.2022 |
|           |         | 2437                      | 12.305    | 2430.8950 | 2443.2000 |
|           |         | 2462                      | 12.305    | 2455.8887 | 2468.1937 |
| 11G       | Ant1    | 2412                      | 17.116    | 2403.5152 | 2420.6312 |
|           |         | 2437                      | 17.022    | 2428.5019 | 2445.5239 |
|           |         | 2462                      | 17.133    | 2453.4447 | 2470.5777 |
| 11N20SISO | Ant1    | 2412                      | 17.965    | 2403.0552 | 2421.0202 |
|           |         | 2437                      | 17.985    | 2428.0541 | 2446.0391 |
|           |         | 2462                      | 17.945    | 2453.0594 | 2471.0044 |

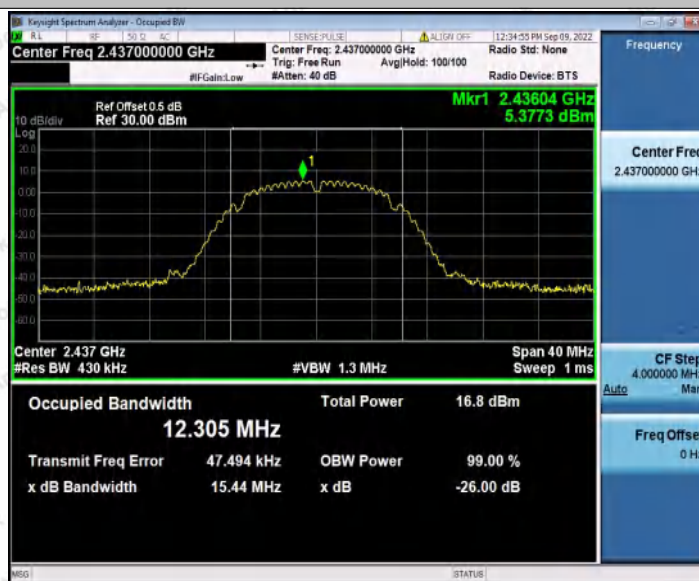


## Test Graphs

11B\_Ant1\_2412

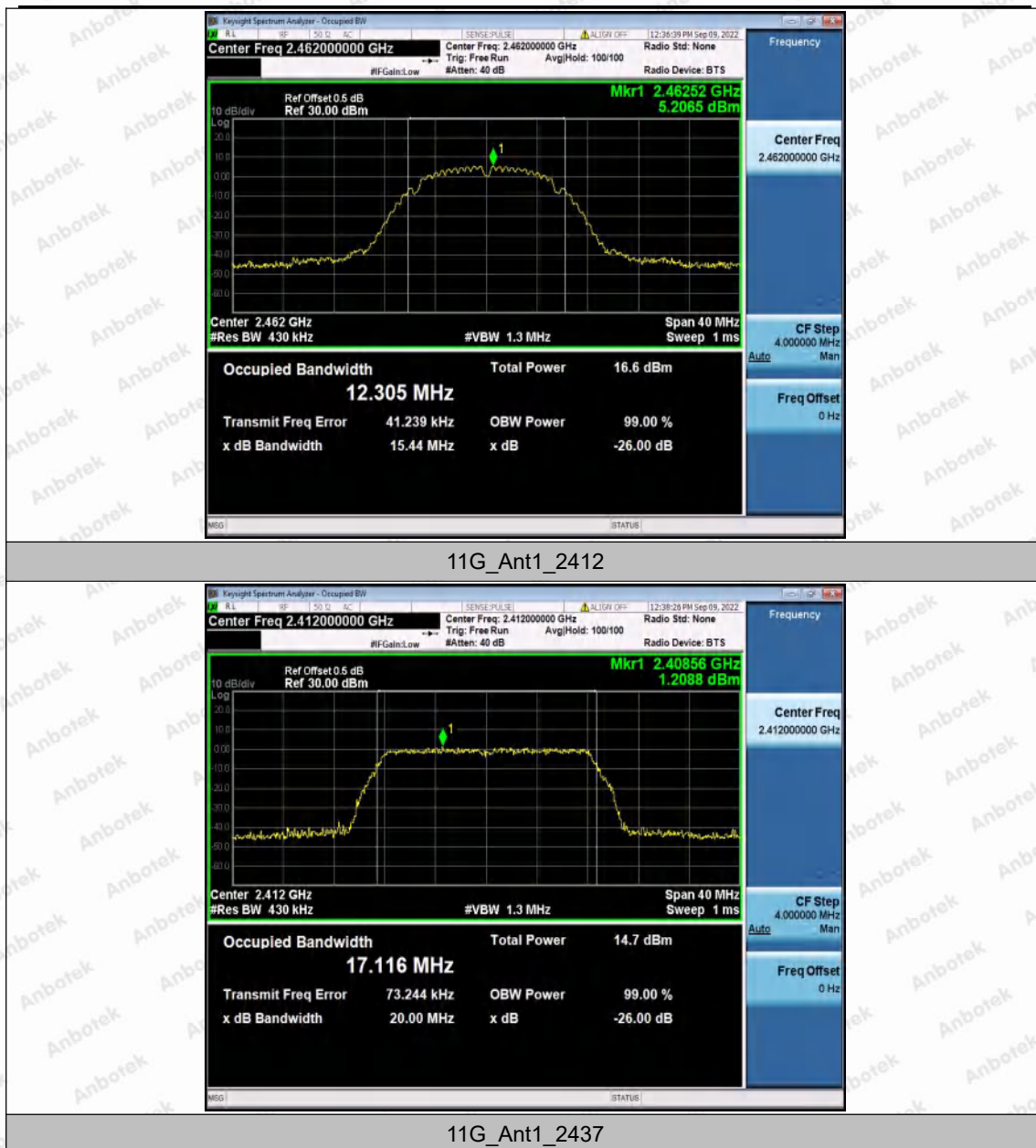


11B\_Ant1\_2437



11B\_Ant1\_2462



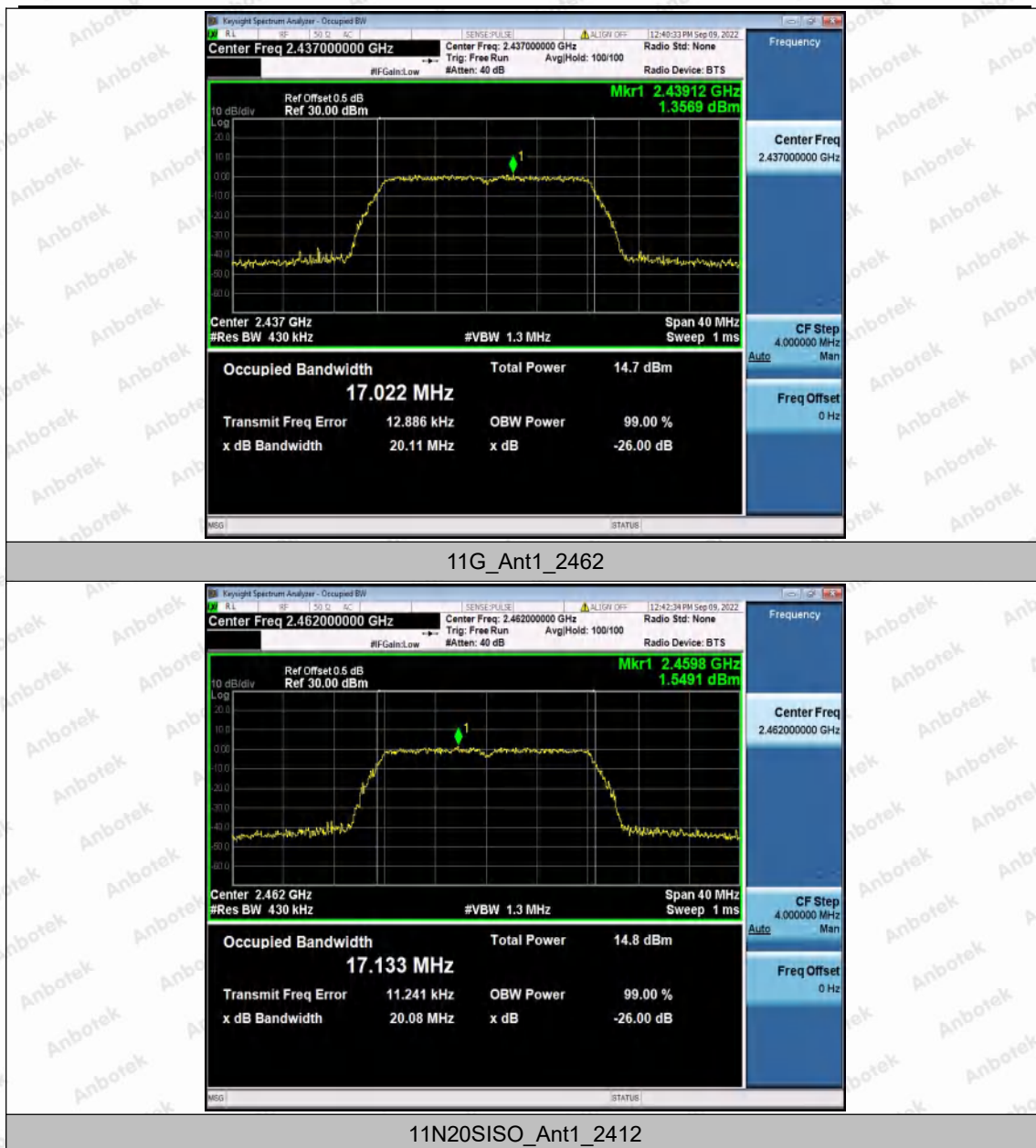
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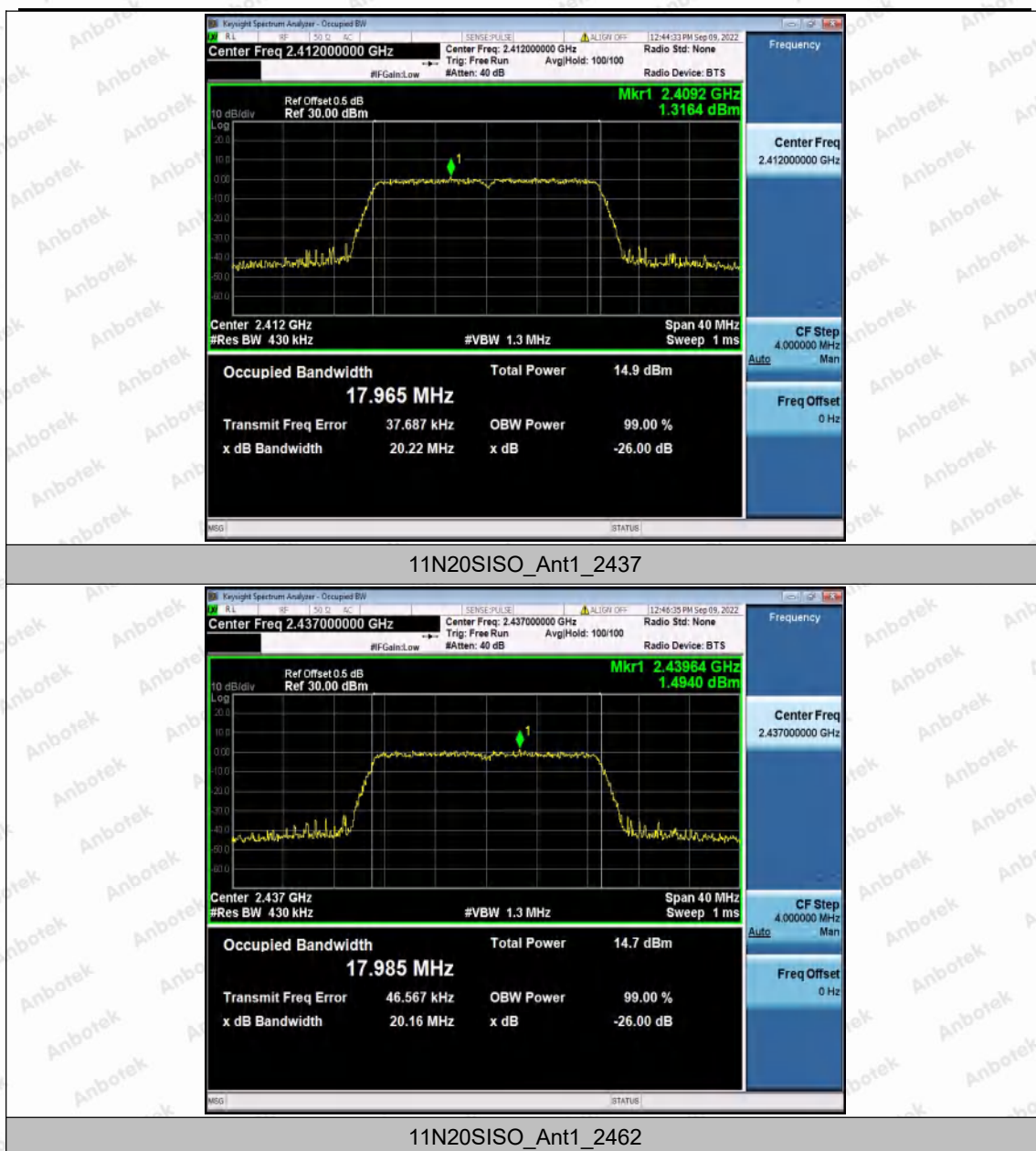
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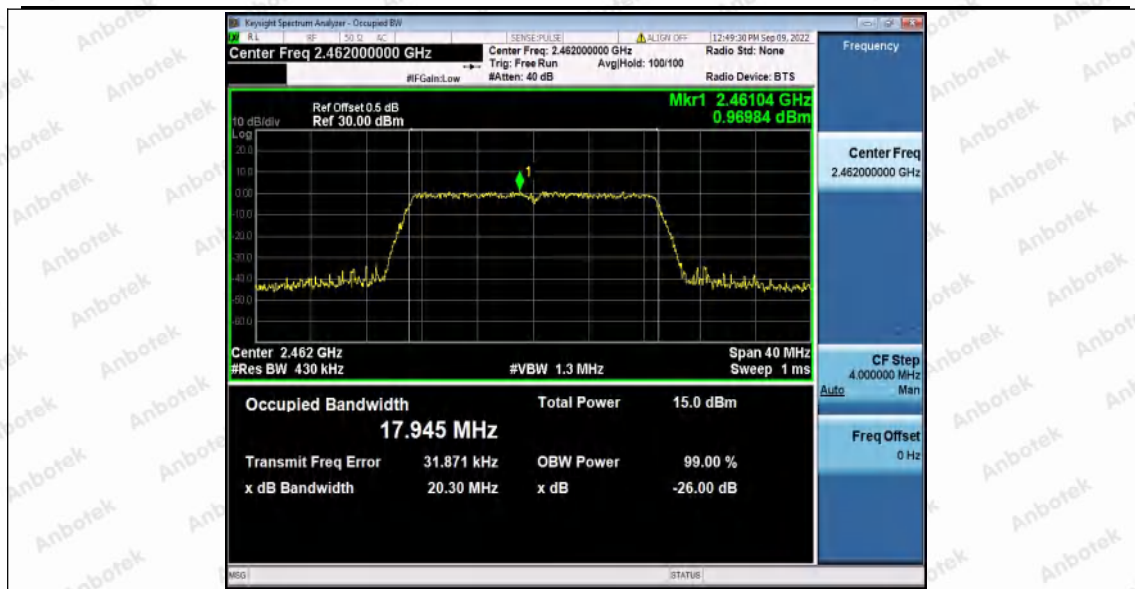
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## Appendix C: Maximum conducted output power

### Test Result Peak

| TestMode  | Antenna | Frequency[MHz] | Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|-----------|---------|----------------|-----------------|----------------------|---------|
| 11B       | Ant1    | 2412           | 16.42           | ≤30.00               | PASS    |
|           |         | 2437           | 16.42           | ≤30.00               | PASS    |
|           |         | 2462           | 16.10           | ≤30.00               | PASS    |
| 11G       | Ant1    | 2412           | 15.77           | ≤30.00               | PASS    |
|           |         | 2437           | 15.78           | ≤30.00               | PASS    |
|           |         | 2462           | 15.85           | ≤30.00               | PASS    |
| 11N20SISO | Ant1    | 2412           | 16.12           | ≤30.00               | PASS    |
|           |         | 2437           | 15.76           | ≤30.00               | PASS    |
|           |         | 2462           | 15.92           | ≤30.00               | PASS    |



## Appendix D: Maximum power spectral density

### Test Result

| TestMode  | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|-----------|---------|----------------|------------------|-----------------|---------|
| 11B       | Ant1    | 2412           | -7.30            | ≤8.00           | PASS    |
|           |         | 2437           | -9.14            | ≤8.00           | PASS    |
|           |         | 2462           | -7.63            | ≤8.00           | PASS    |
| 11G       | Ant1    | 2412           | -15.99           | ≤8.00           | PASS    |
|           |         | 2437           | -16.27           | ≤8.00           | PASS    |
|           |         | 2462           | -16.31           | ≤8.00           | PASS    |
| 11N20SISO | Ant1    | 2412           | -16.07           | ≤8.00           | PASS    |
|           |         | 2437           | -16.62           | ≤8.00           | PASS    |
|           |         | 2462           | -16.79           | ≤8.00           | PASS    |



## Test Graphs

11B\_Ant1\_2412



11B\_Ant1\_2437

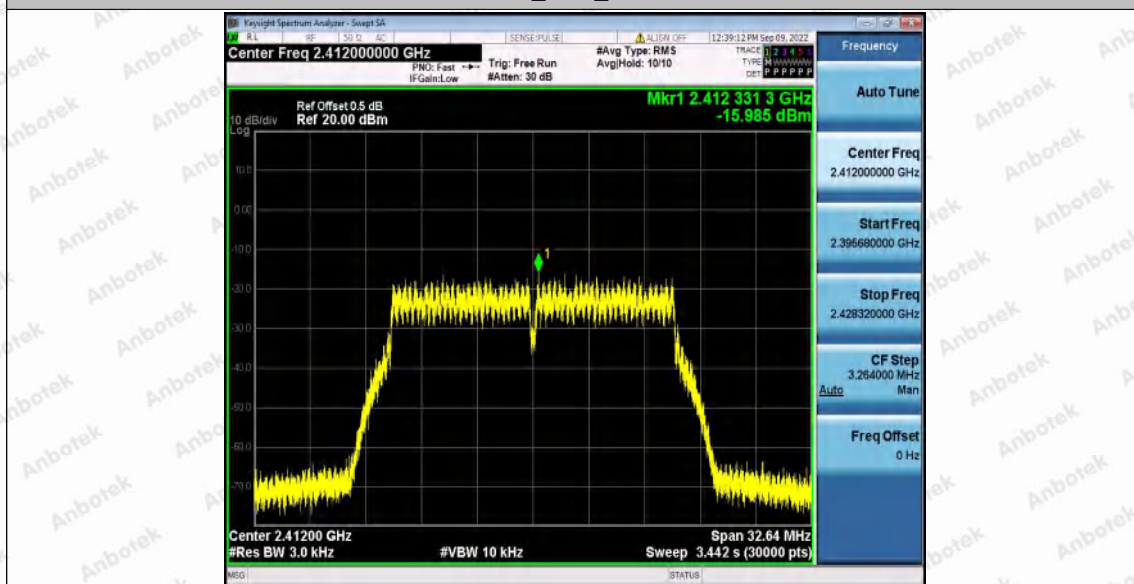


11B\_Ant1\_2462



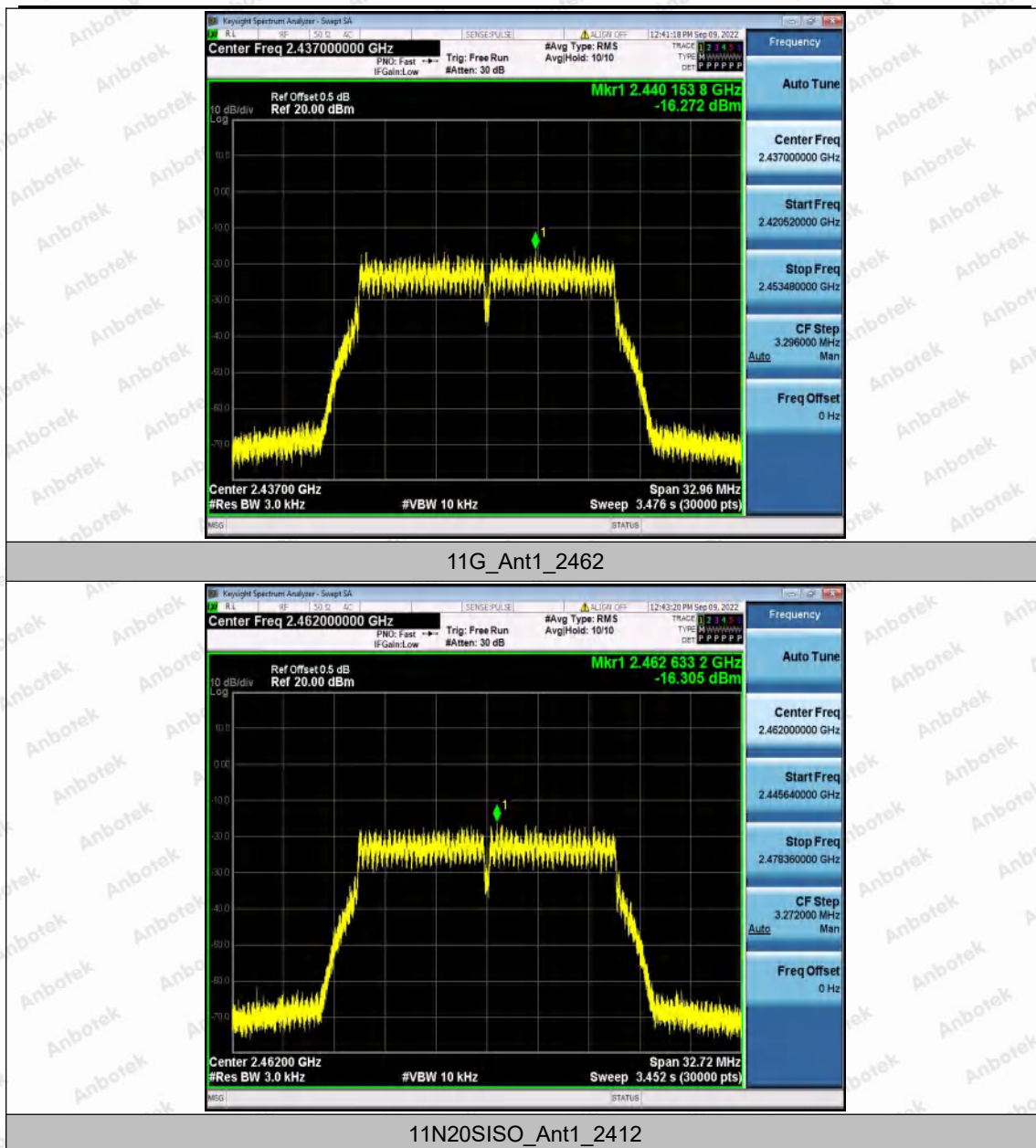


11G\_Ant1\_2412



11G\_Ant1\_2437





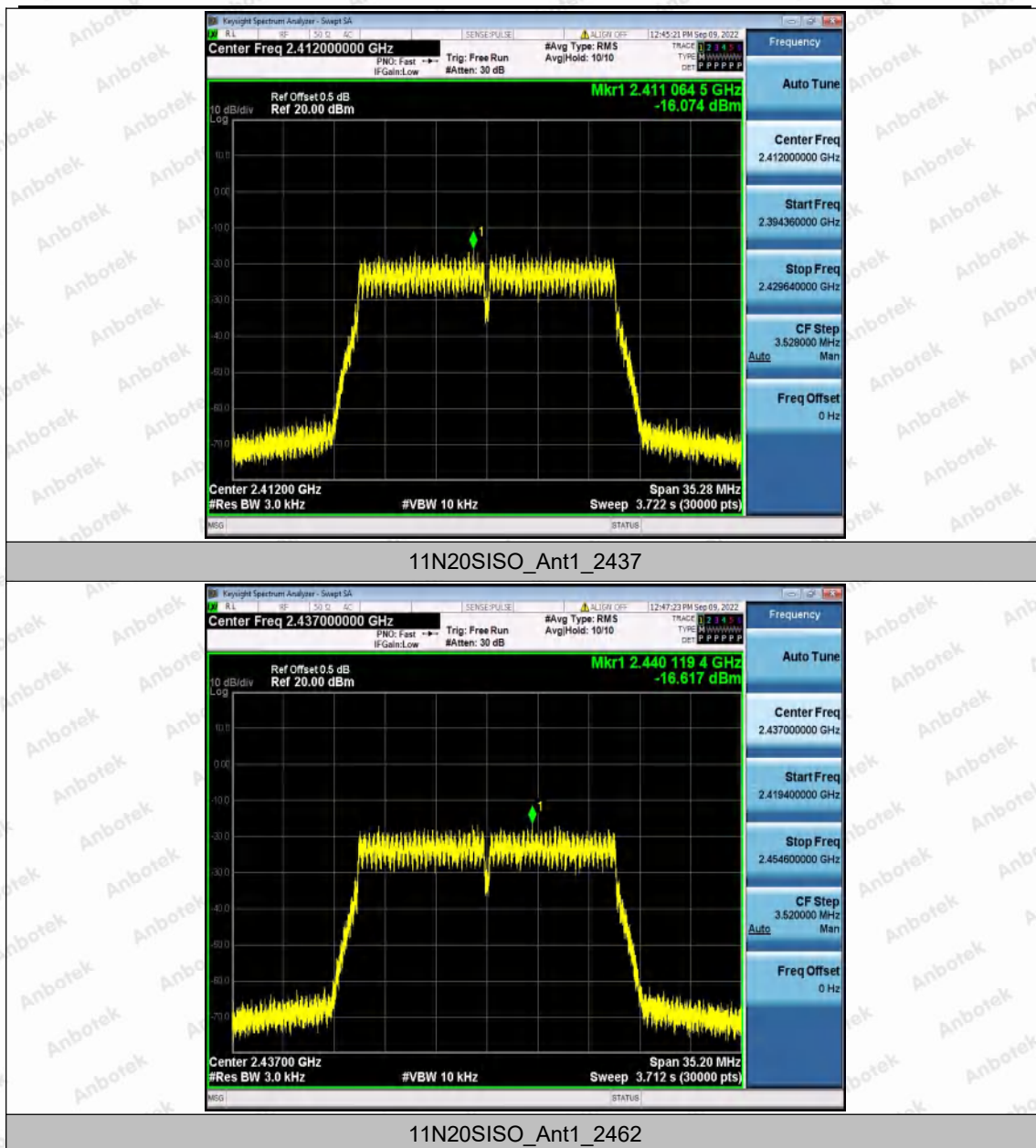
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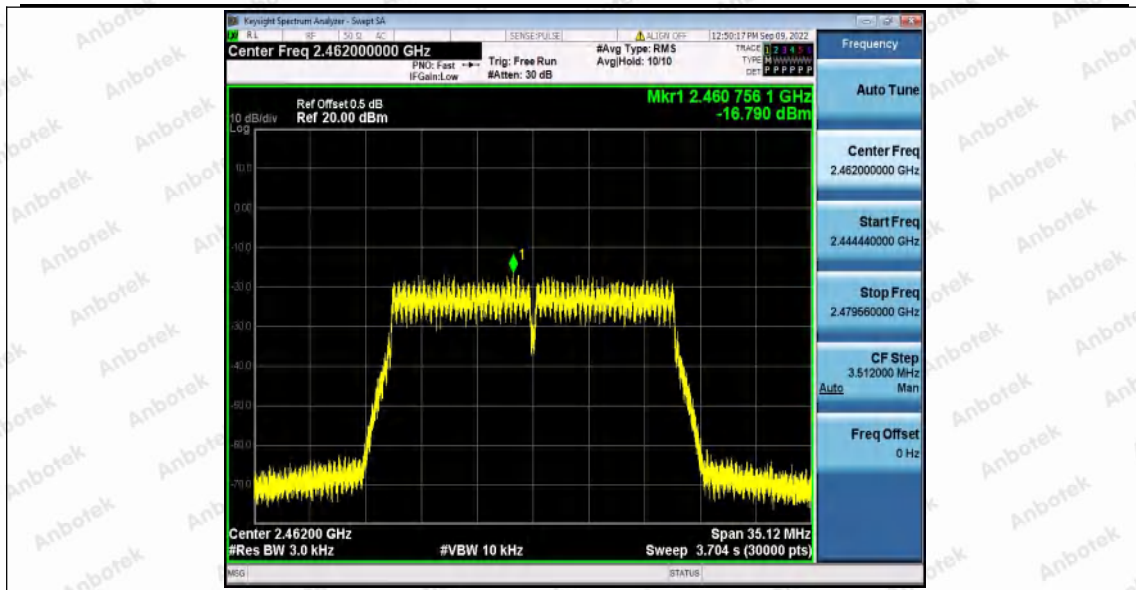
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## Appendix E: Band edge measurements

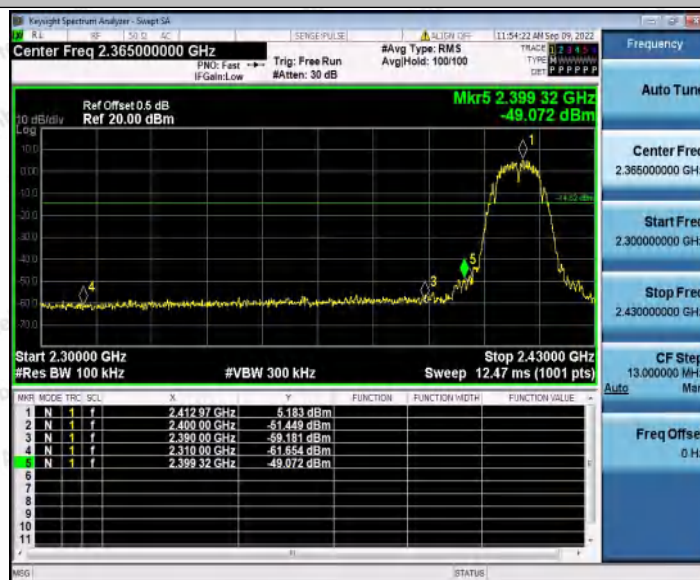
### Test Result

| TestMode  | Antenna | Channel Name | Frequency[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|--------------|----------------|---------------|-------------|------------|---------|
| 11B       | Ant1    | Low          | 2412           | 5.18          | -49.07      | ≤-14.82    | PASS    |
|           |         | High         | 2462           | 4.49          | -55.32      | ≤-15.51    | PASS    |
| 11G       | Ant1    | Low          | 2412           | -2.23         | -49.48      | ≤-22.23    | PASS    |
|           |         | High         | 2462           | -2.66         | -54.3       | ≤-22.66    | PASS    |
| 11N20SISO | Ant1    | Low          | 2412           | -2.80         | -45.13      | ≤-22.8     | PASS    |
|           |         | High         | 2462           | -2.64         | -54.23      | ≤-22.64    | PASS    |

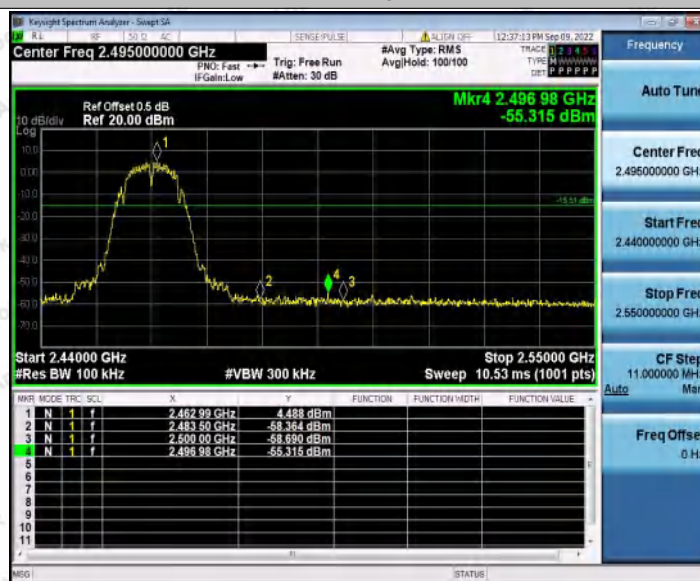


## Test Graphs

11B\_Ant1\_Low\_2412



11B\_Ant1\_High\_2462



11G\_Ant1\_Low\_2412

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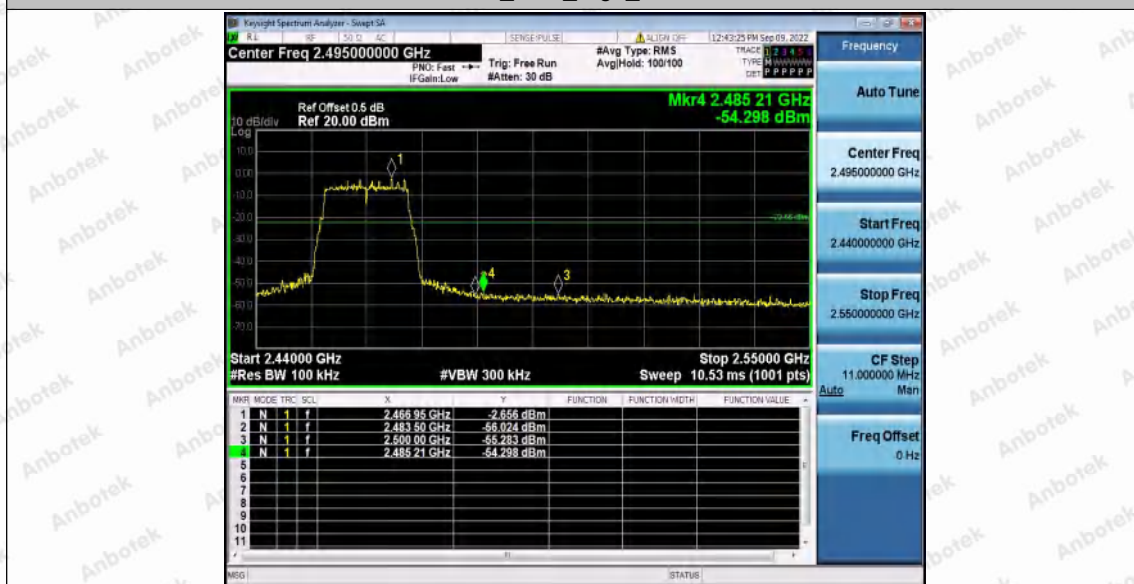


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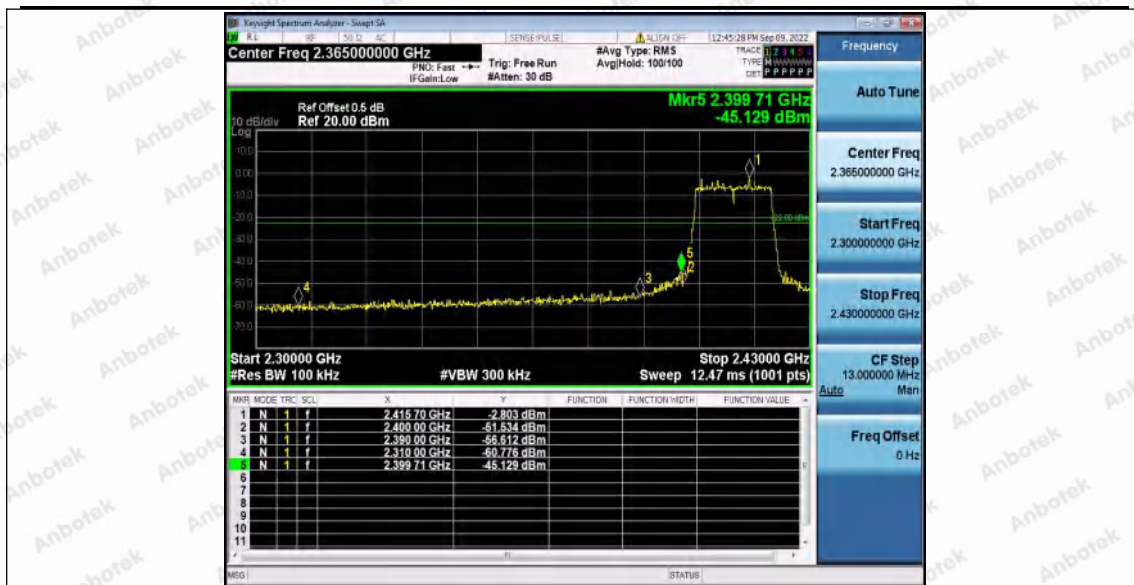


11G\_Ant1\_High\_2462

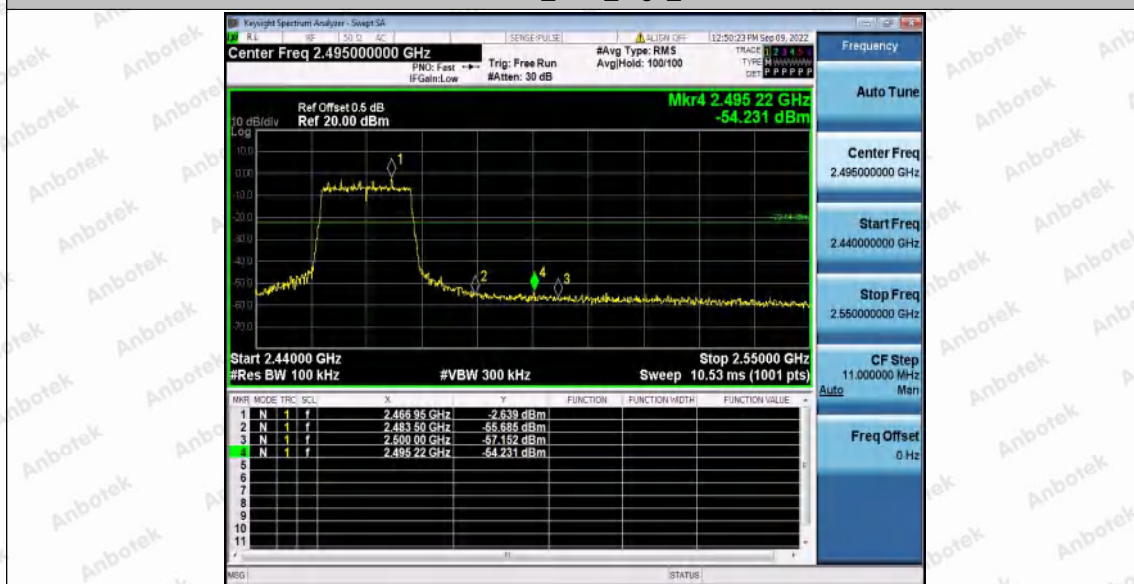


11N20SISO\_Ant1\_Low\_2412





11N20SISO\_Ant1\_High\_2462



## Appendix F: Conducted Spurious Emission

### Test Result

| TestMode  | Antenna | Frequency[MHz] | FreqRange [Mhz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|----------------|-----------------|----------------|--------------|-------------|---------|
| 11B       | Ant1    | 2412           | Reference       | 3.85           | 3.85         | ---         | PASS    |
|           |         |                | 30~1000         | 3.85           | -70          | ≤-26.15     | PASS    |
|           |         |                | 1000~26500      | 3.85           | -53.89       | ≤-26.15     | PASS    |
|           |         | 2437           | Reference       | 3.86           | 3.86         | ---         | PASS    |
|           |         |                | 30~1000         | 3.86           | -69.94       | ≤-26.14     | PASS    |
|           |         |                | 1000~26500      | 3.86           | -53.72       | ≤-26.14     | PASS    |
|           |         | 2462           | Reference       | 3.34           | 3.34         | ---         | PASS    |
|           |         |                | 30~1000         | 3.34           | -69.42       | ≤-26.66     | PASS    |
|           |         |                | 1000~26500      | 3.34           | -53.61       | ≤-26.66     | PASS    |
| 11G       | Ant1    | 2412           | Reference       | -3.27          | -3.27        | ---         | PASS    |
|           |         |                | 30~1000         | -3.27          | -69.4        | ≤-33.27     | PASS    |
|           |         |                | 1000~26500      | -3.27          | -53.76       | ≤-33.27     | PASS    |
|           |         | 2437           | Reference       | -5.12          | -5.12        | ---         | PASS    |
|           |         |                | 30~1000         | -5.12          | -69.74       | ≤-35.12     | PASS    |
|           |         |                | 1000~26500      | -5.12          | -54.08       | ≤-35.12     | PASS    |
|           |         | 2462           | Reference       | -4.47          | -4.47        | ---         | PASS    |
|           |         |                | 30~1000         | -4.47          | -68.89       | ≤-34.47     | PASS    |
|           |         |                | 1000~26500      | -4.47          | -53.94       | ≤-34.47     | PASS    |
| 11N20SISO | Ant1    | 2412           | Reference       | -4.33          | -4.33        | ---         | PASS    |
|           |         |                | 30~1000         | -4.33          | -69.63       | ≤-34.33     | PASS    |
|           |         |                | 1000~26500      | -4.33          | -54.14       | ≤-34.33     | PASS    |
|           |         | 2437           | Reference       | -4.98          | -4.98        | ---         | PASS    |
|           |         |                | 30~1000         | -4.98          | -69.64       | ≤-34.98     | PASS    |
|           |         |                | 1000~26500      | -4.98          | -53.55       | ≤-34.98     | PASS    |
|           |         | 2462           | Reference       | -2.84          | -2.84        | ---         | PASS    |
|           |         |                | 30~1000         | -2.84          | -69.62       | ≤-32.84     | PASS    |
|           |         |                | 1000~26500      | -2.84          | -54.4        | ≤-32.84     | PASS    |

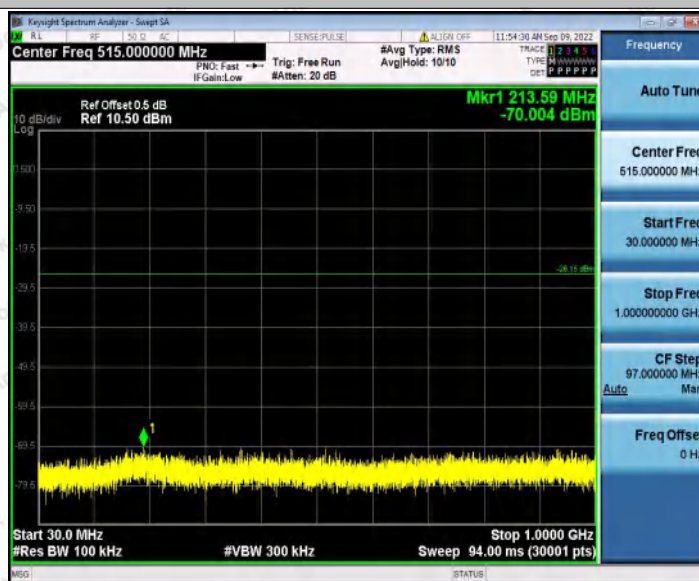


## Test Graphs

11B\_Ant1\_2412\_0~Reference

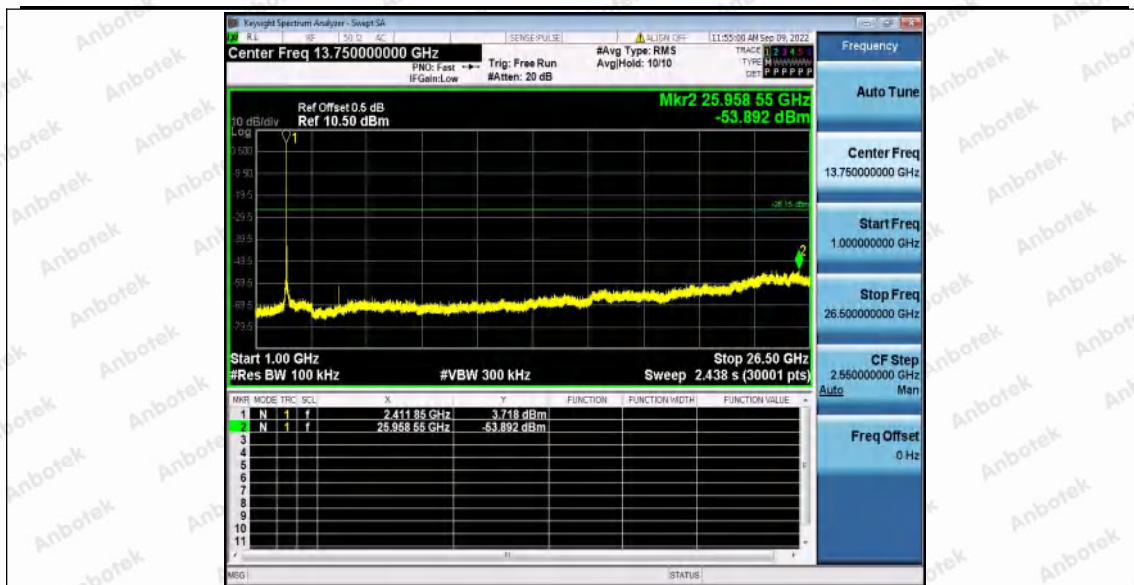


11B\_Ant1\_2412\_30~1000



11B\_Ant1\_2412\_1000~26500





11B\_Ant1\_2437\_0~Reference



11B\_Ant1\_2437\_30~1000

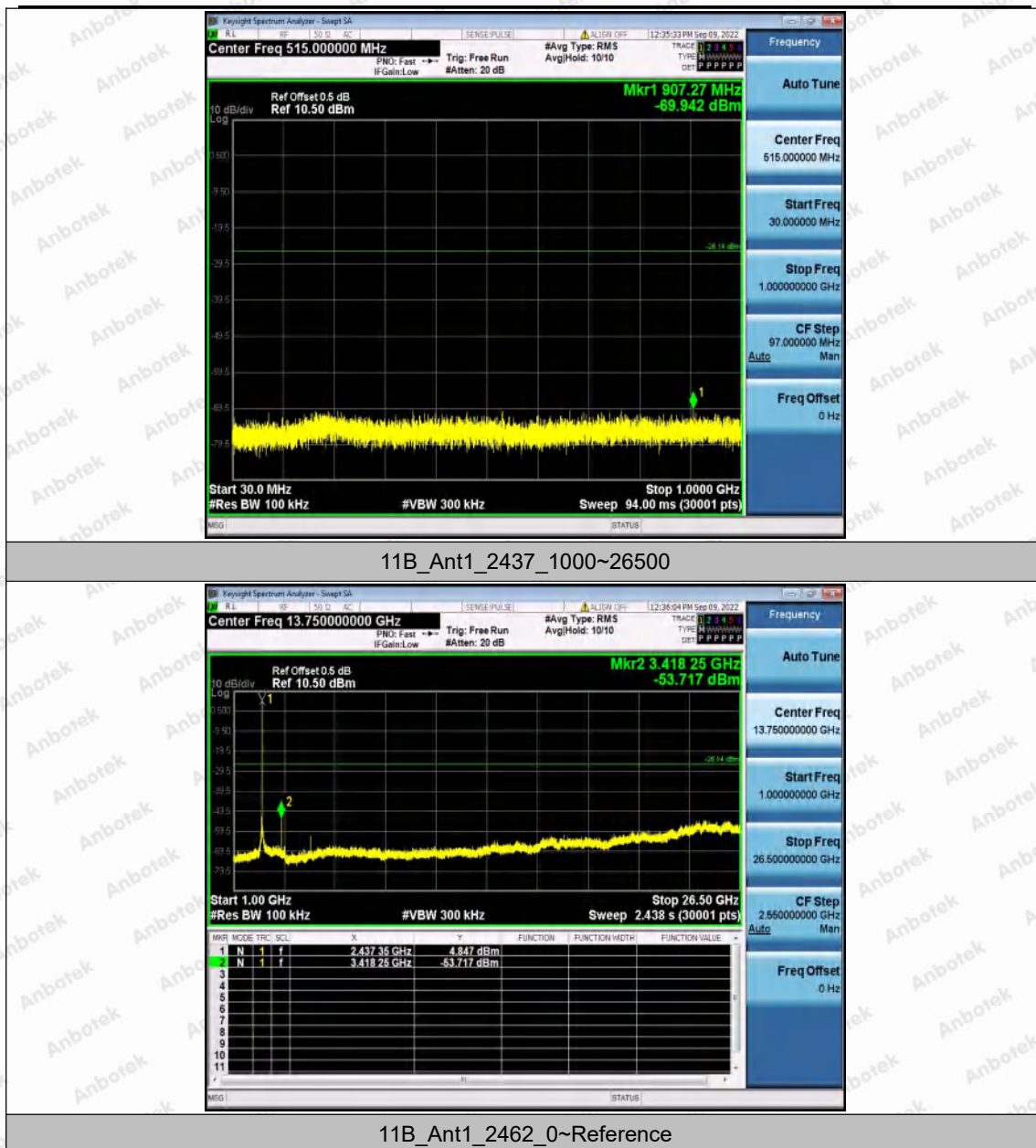
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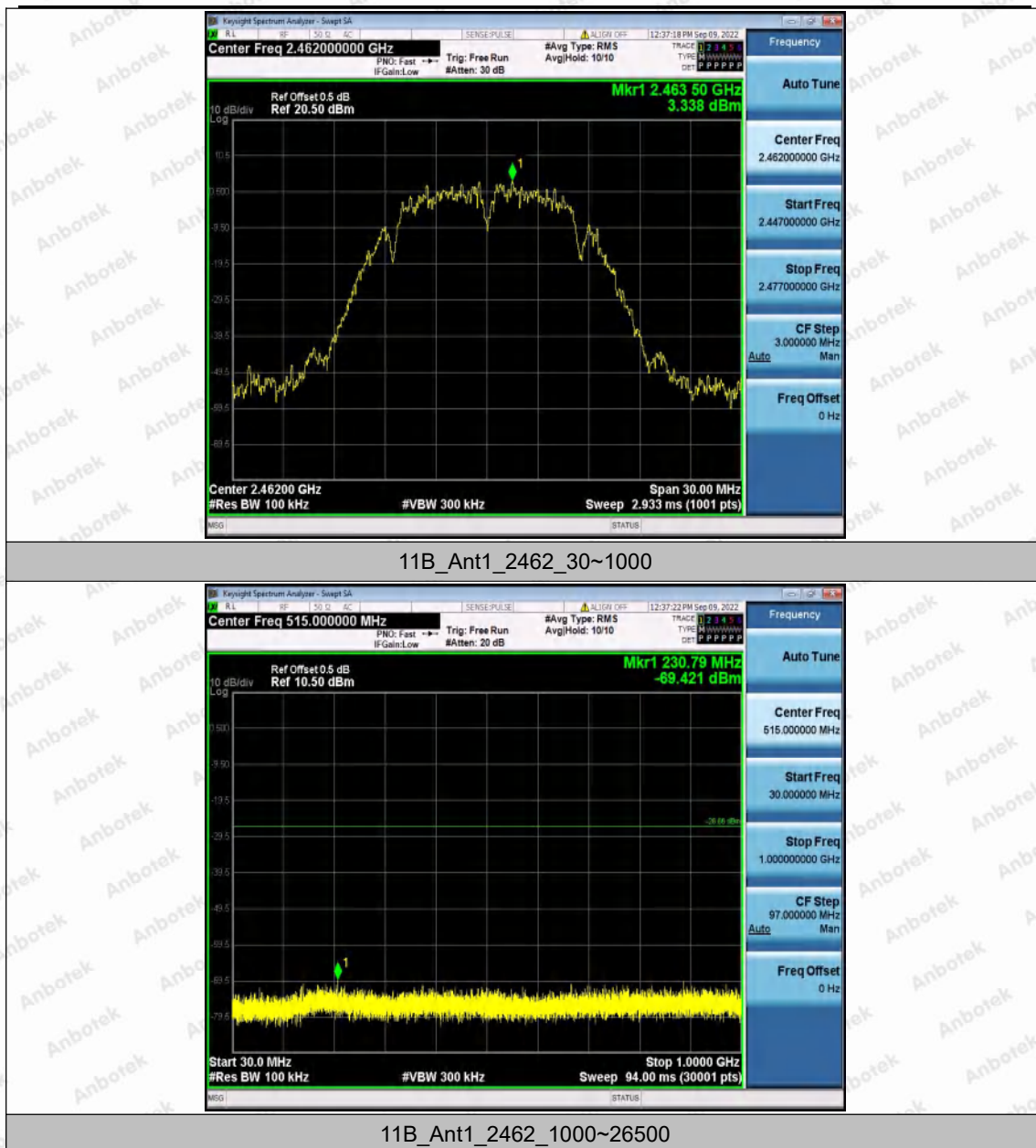
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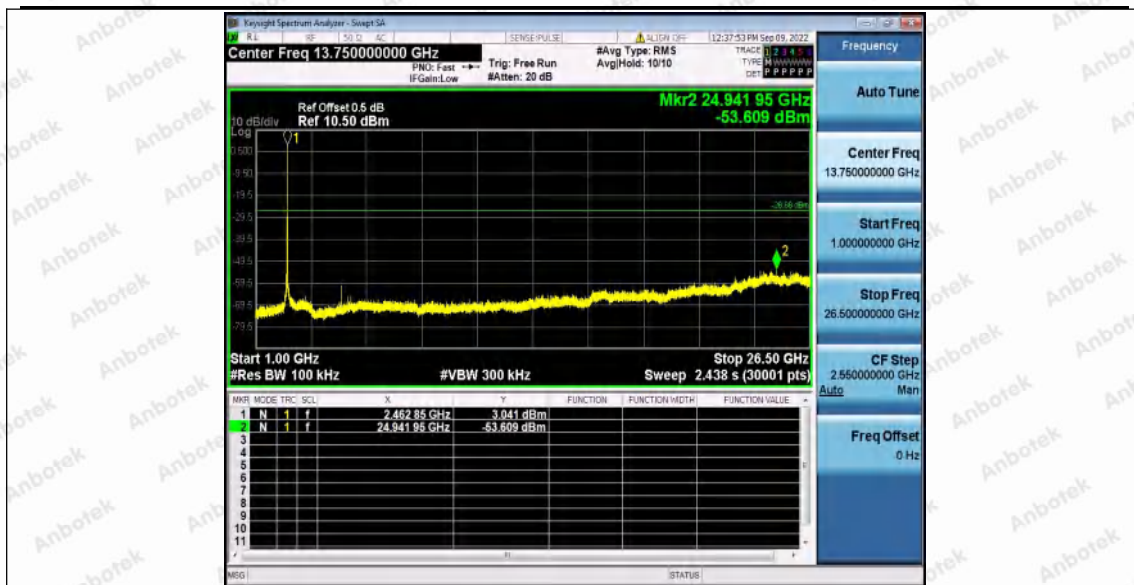
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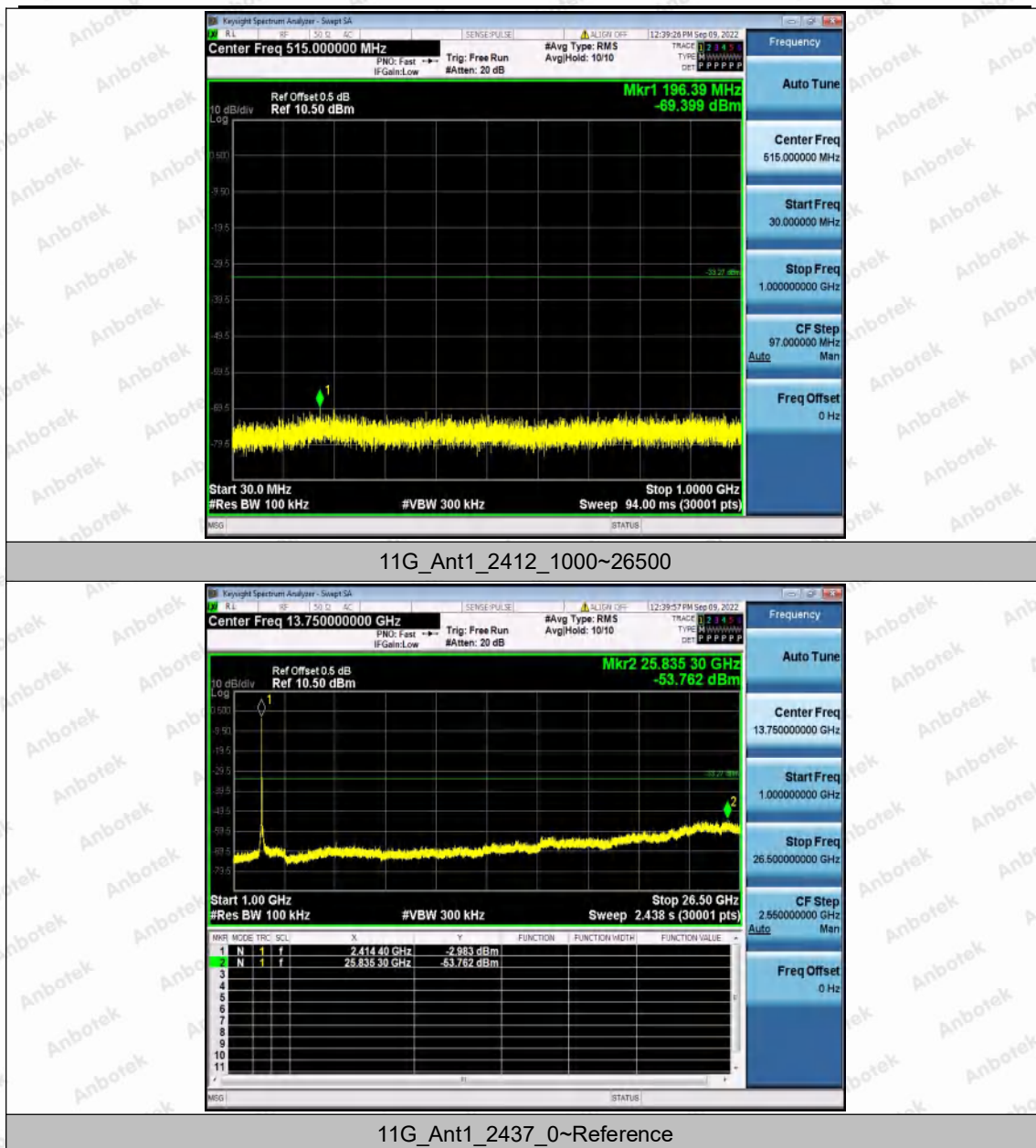


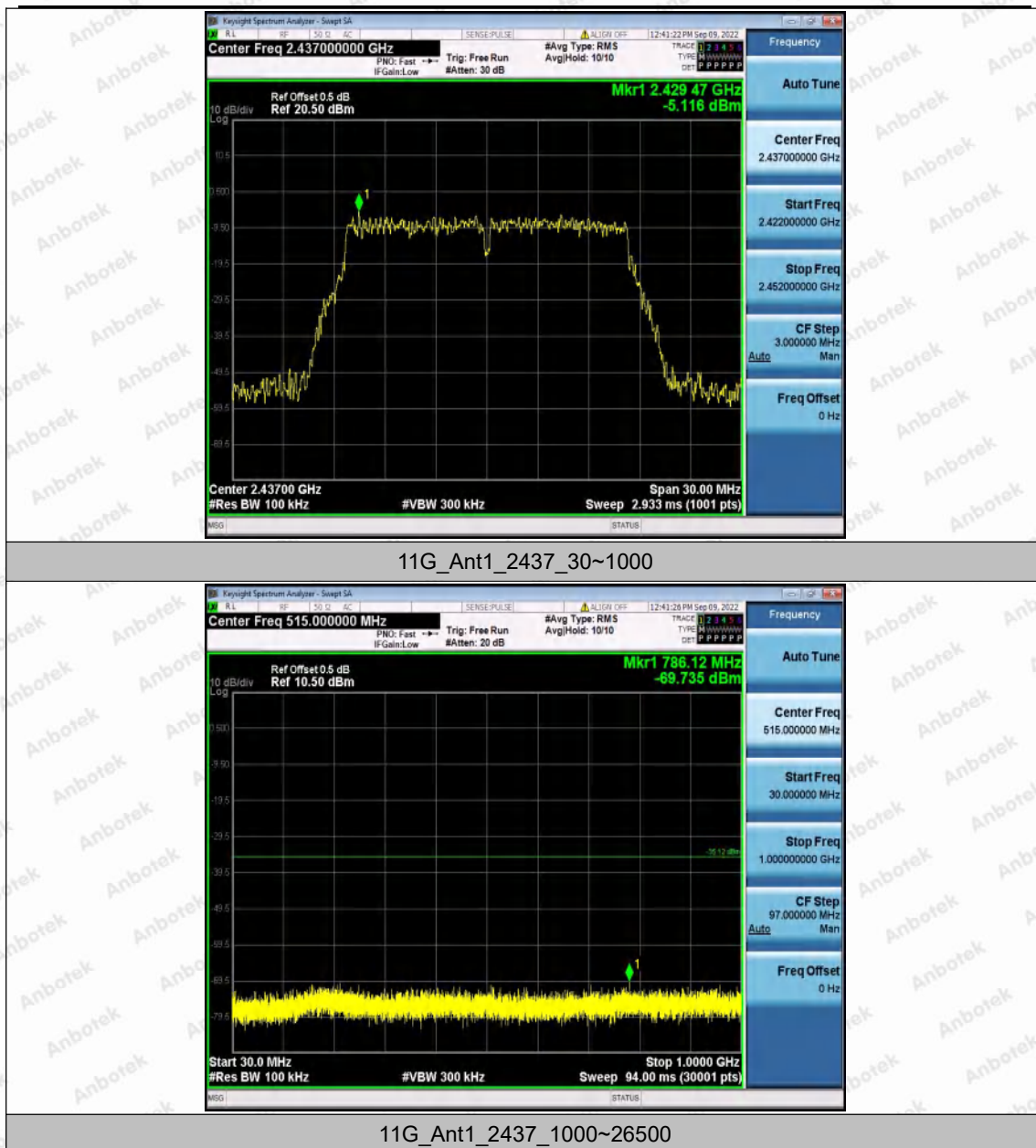
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11G\_Ant1\_2412\_30~1000







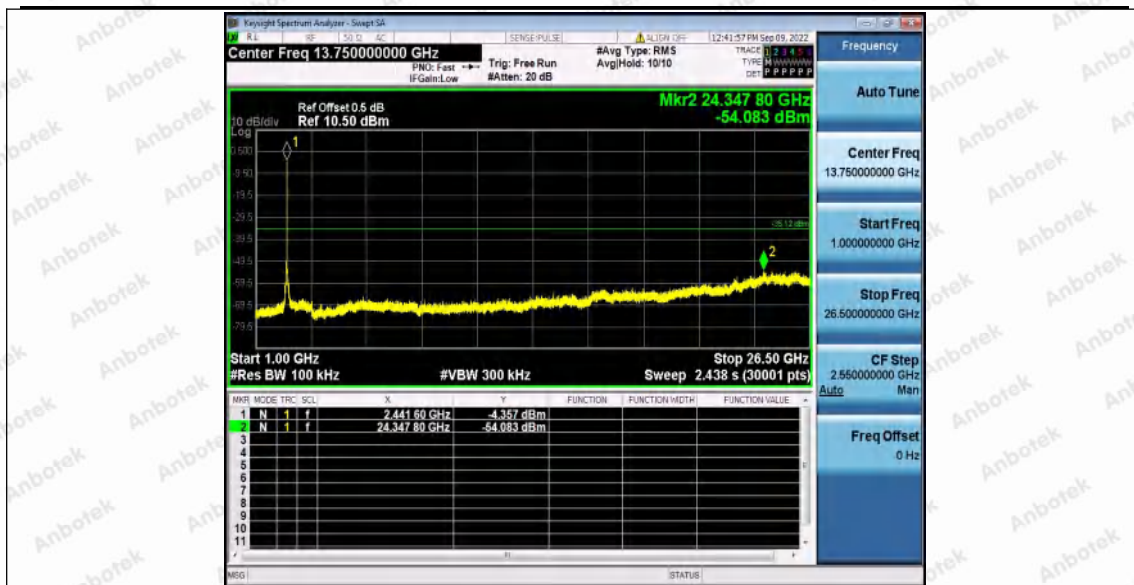
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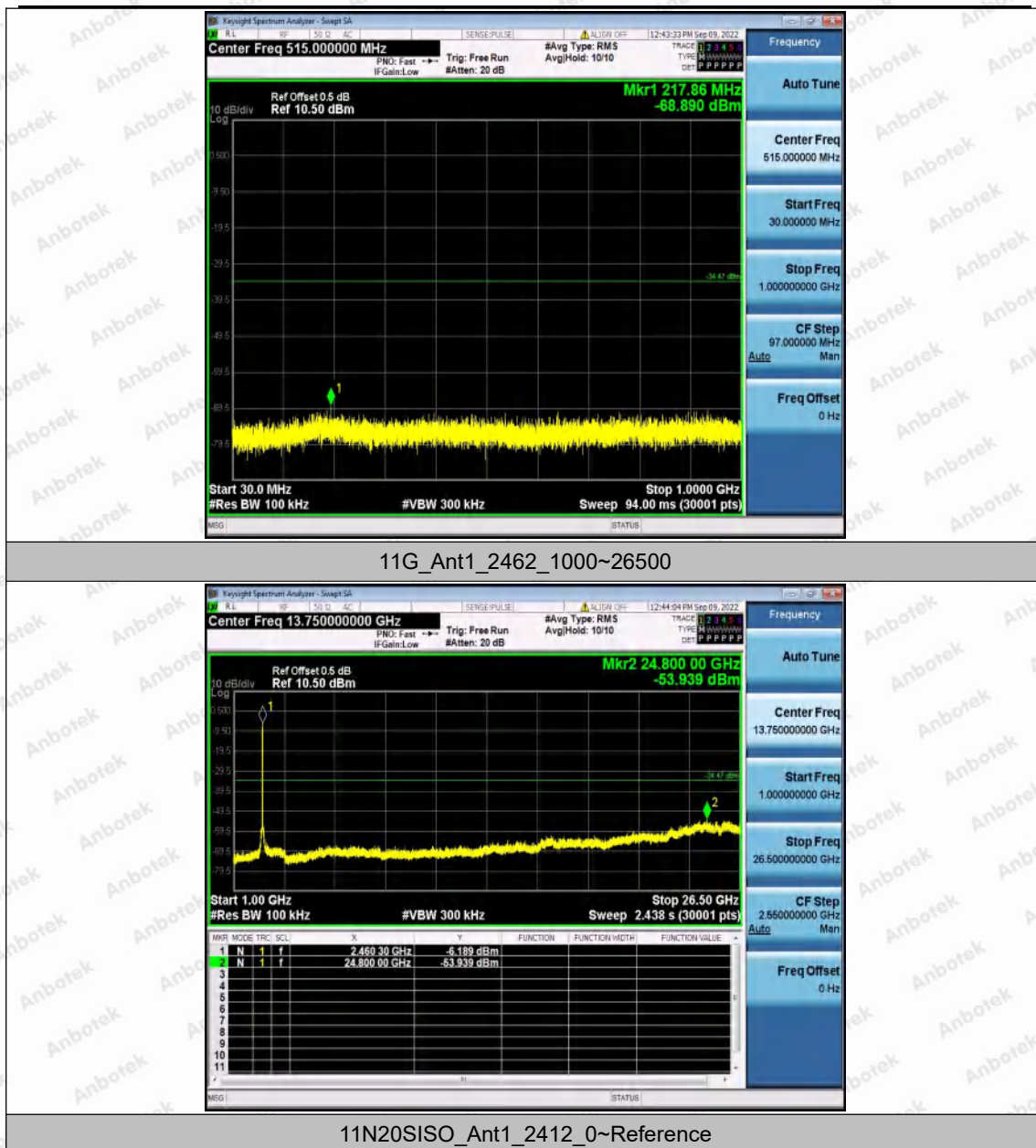


11G\_Ant1\_2462\_0~Reference



11G\_Ant1\_2462\_30~1000





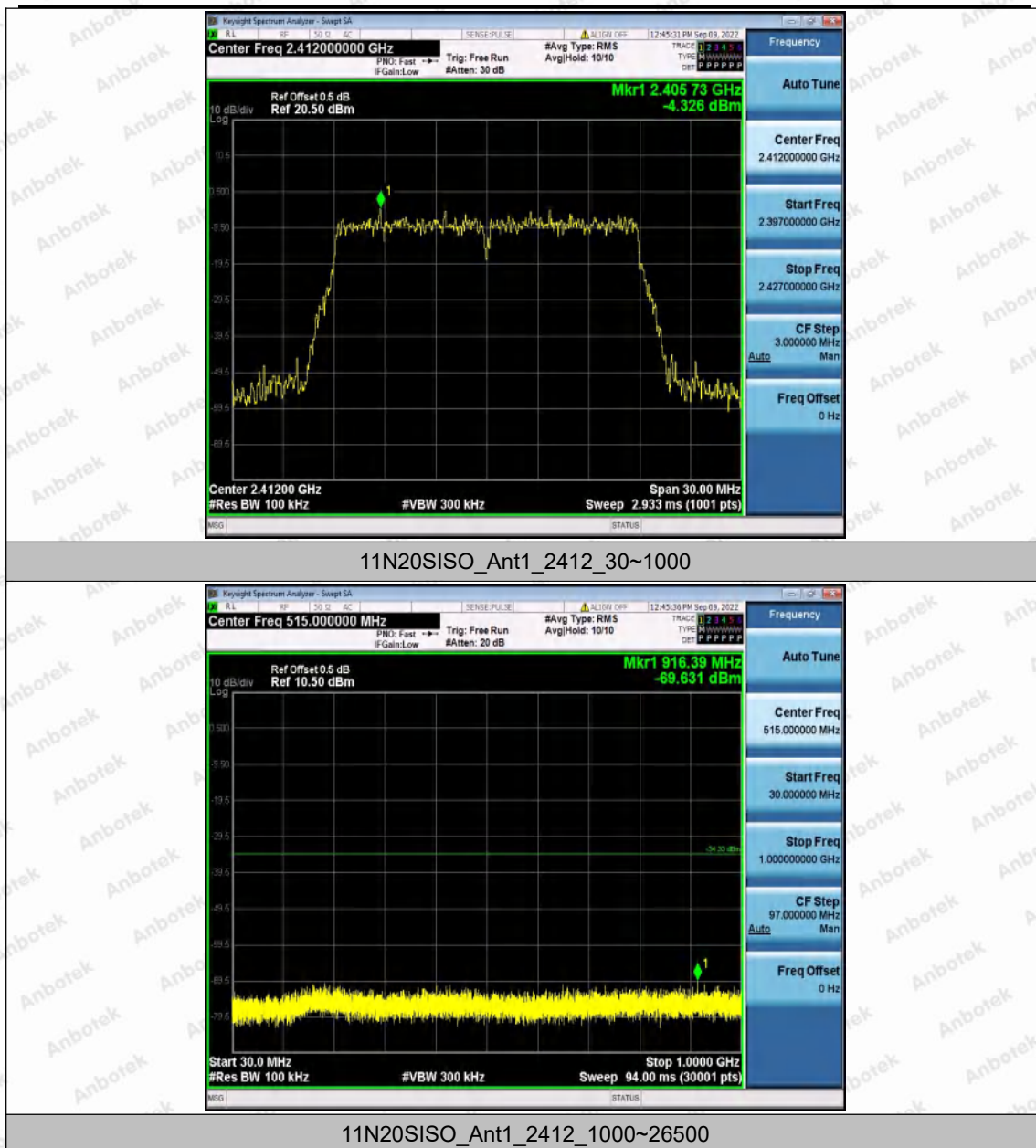
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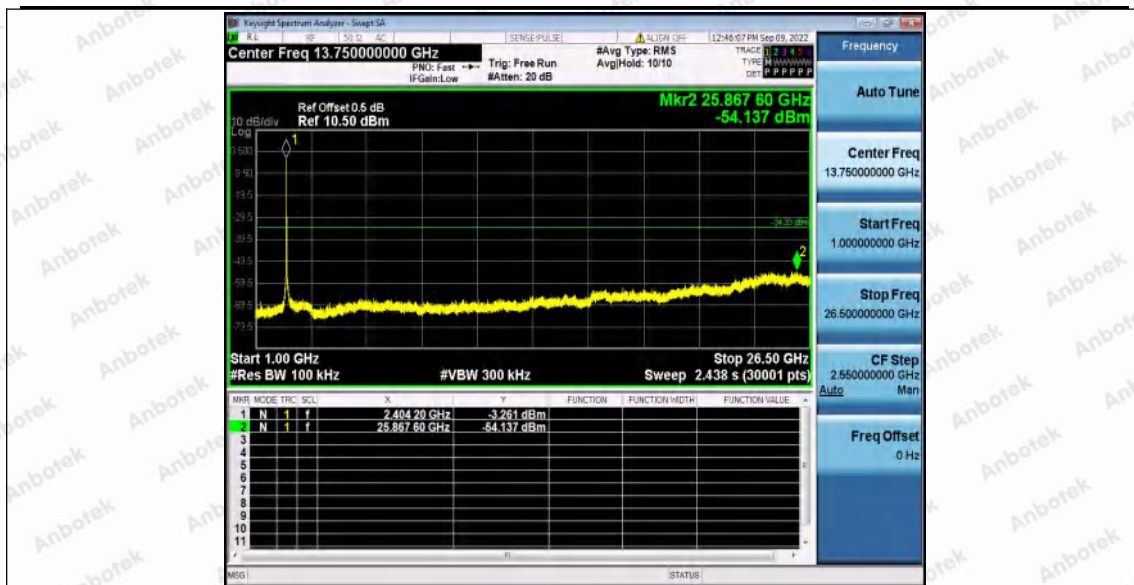
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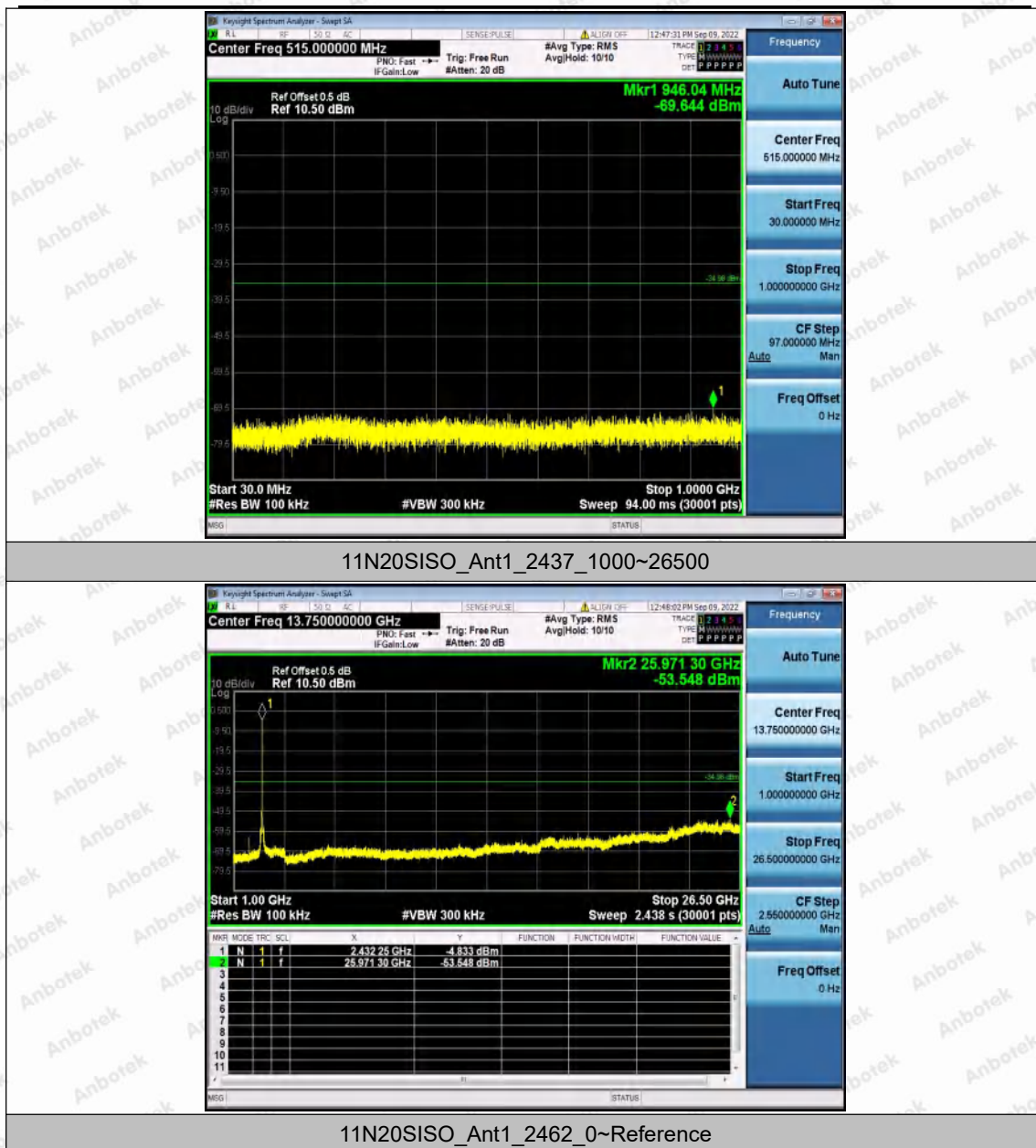


11N20SISO\_Ant1\_2437\_0~Reference



11N20SISO\_Ant1\_2437\_30~1000





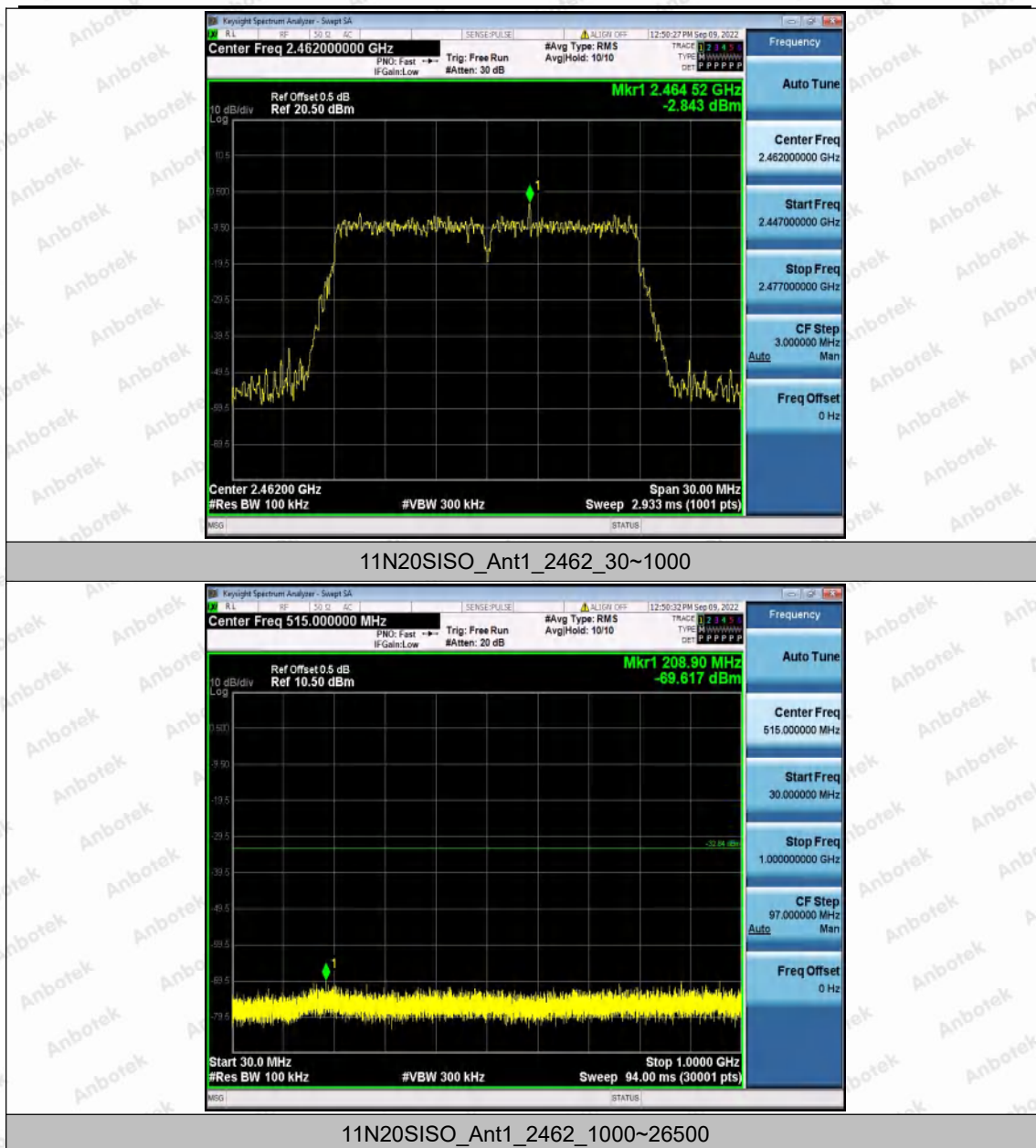
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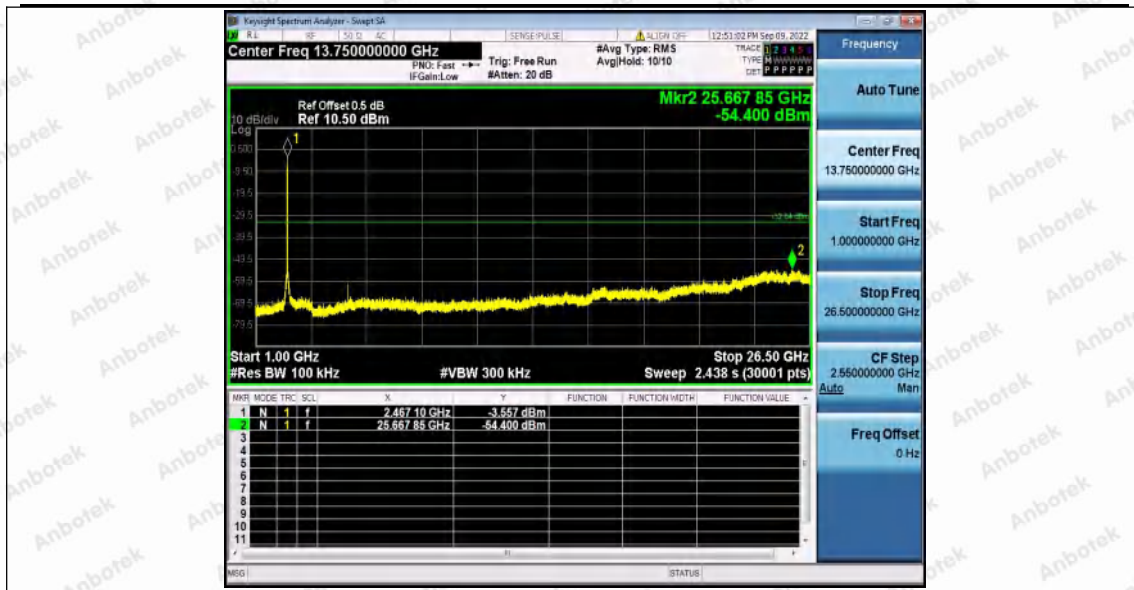
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## Appendix G: Duty Cycle

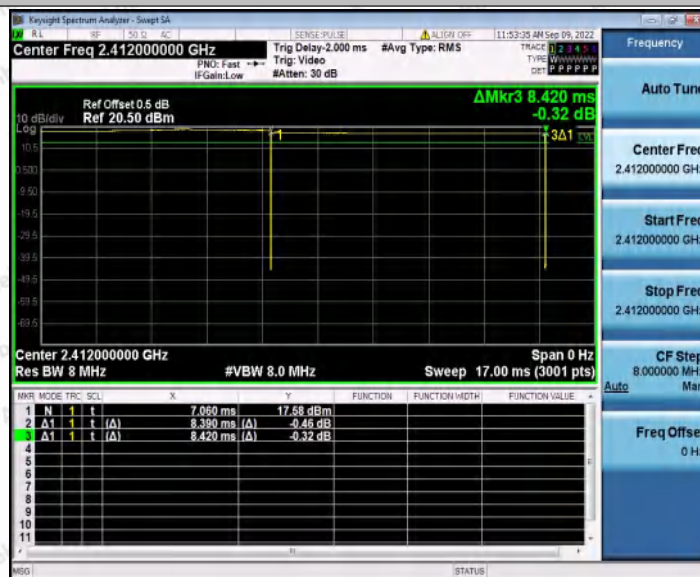
### Test Result

| TestMode  | Antenna | Frequency[MHz] | Transmission<br>Duration<br>[ms] | Transmission<br>Period [ms] | Duty Cycle<br>[%] | Factor |
|-----------|---------|----------------|----------------------------------|-----------------------------|-------------------|--------|
| 11B       | Ant1    | 2412           | 8.39                             | 8.42                        | 99.64             | 0.02   |
|           |         | 2437           | 8.38                             | 8.41                        | 99.64             | 0.02   |
|           |         | 2462           | 8.39                             | 8.42                        | 99.64             | 0.02   |
| 11G       | Ant1    | 2412           | 1.39                             | 1.43                        | 97.20             | 0.12   |
|           |         | 2437           | 1.39                             | 1.42                        | 97.89             | 0.09   |
|           |         | 2462           | 1.39                             | 1.43                        | 97.20             | 0.12   |
| 11N20SISO | Ant1    | 2412           | 1.30                             | 1.33                        | 97.74             | 0.10   |
|           |         | 2437           | 1.30                             | 1.34                        | 97.01             | 0.13   |
|           |         | 2462           | 1.30                             | 1.34                        | 97.01             | 0.13   |

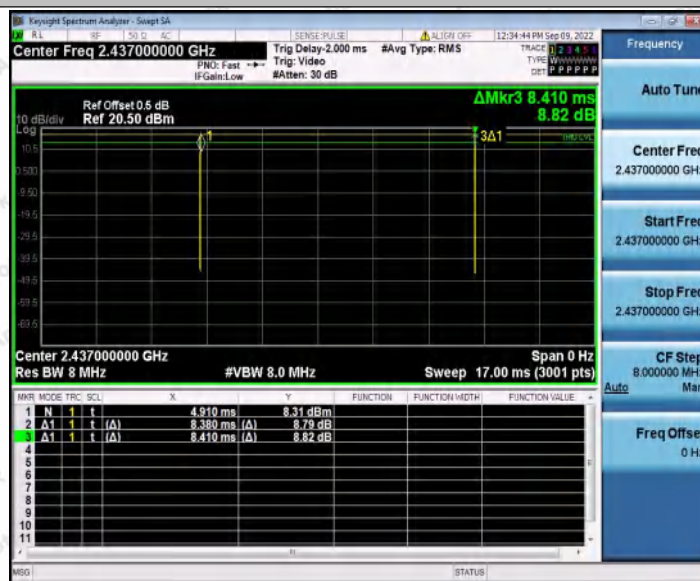


## Test Graphs

11B\_Ant1\_2412



11B\_Ant1\_2437



11B\_Ant1\_2462

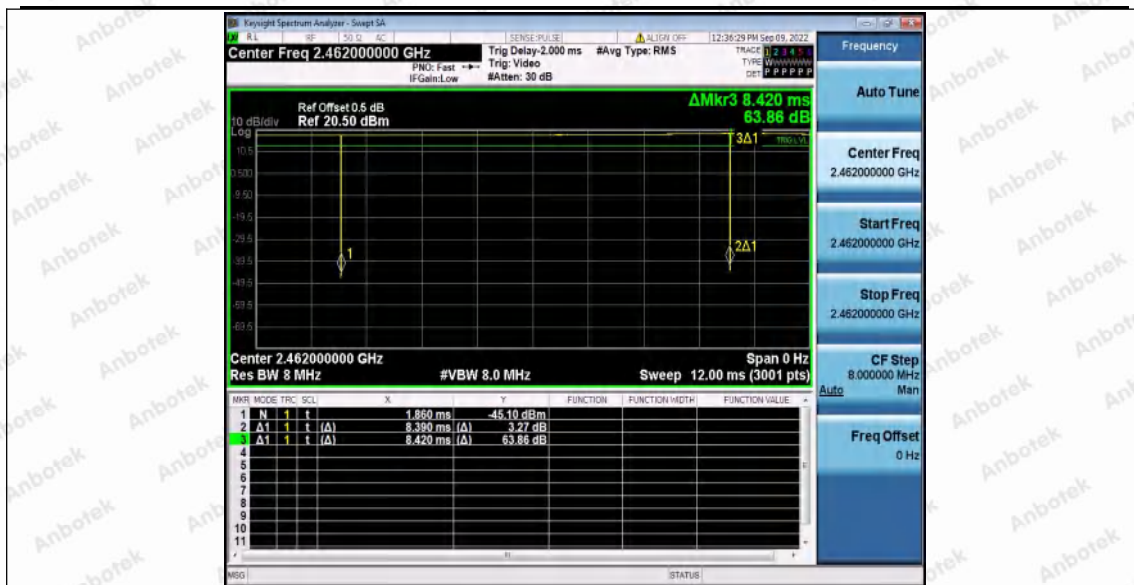
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

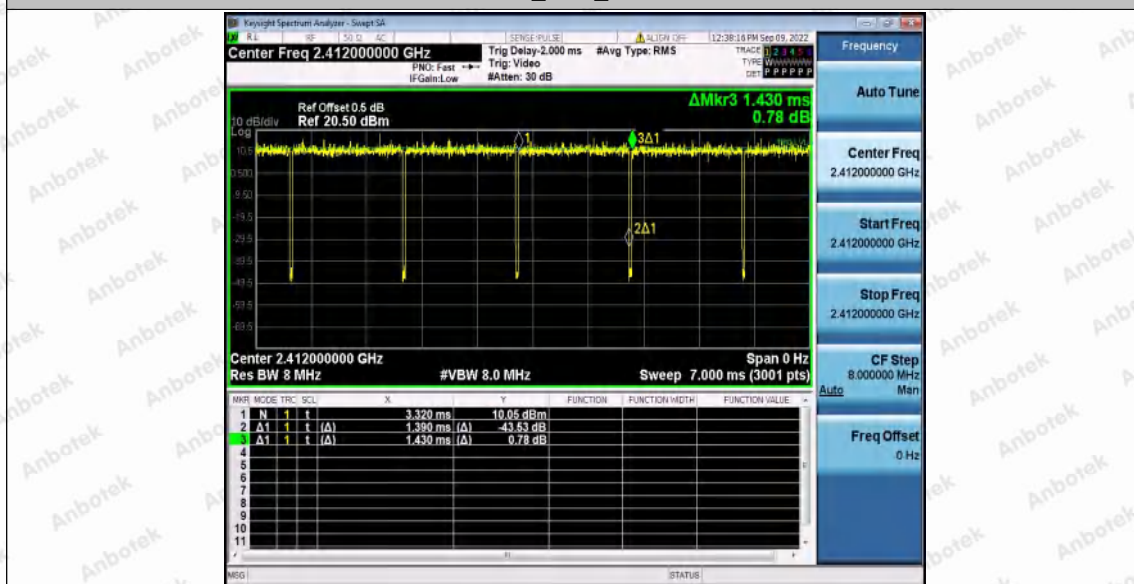


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11G\_Ant1\_2412



11G\_Ant1\_2437

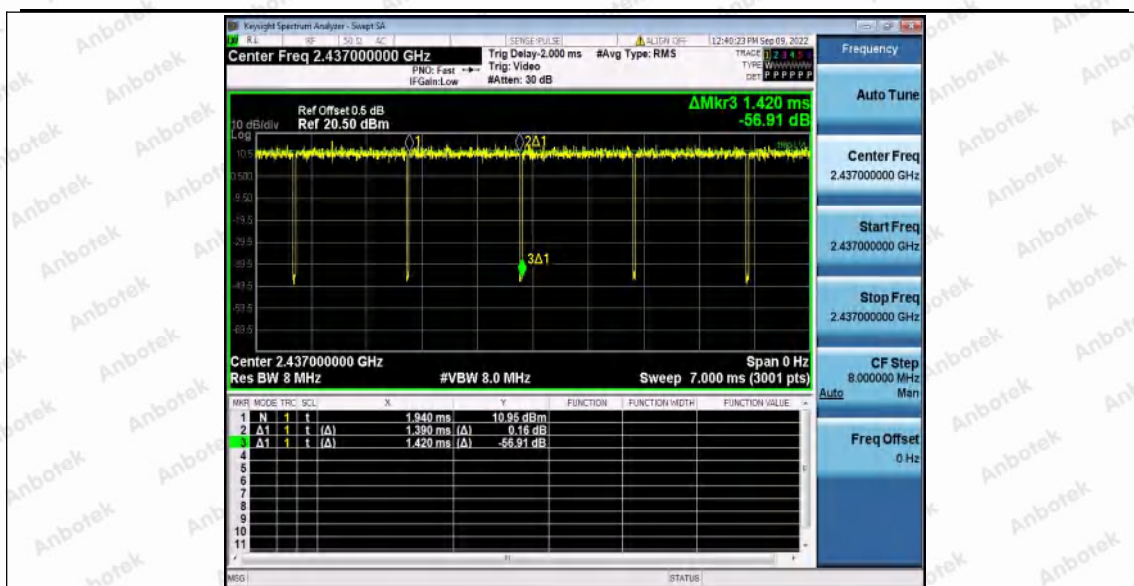
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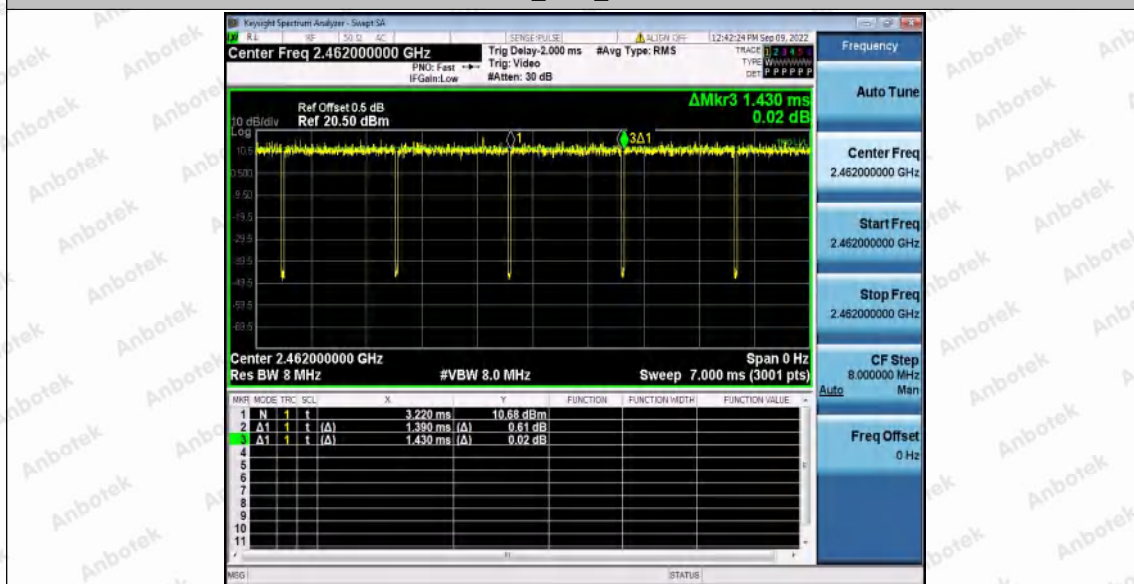


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11G Ant1 2462



11N20SISO Ant1 2412

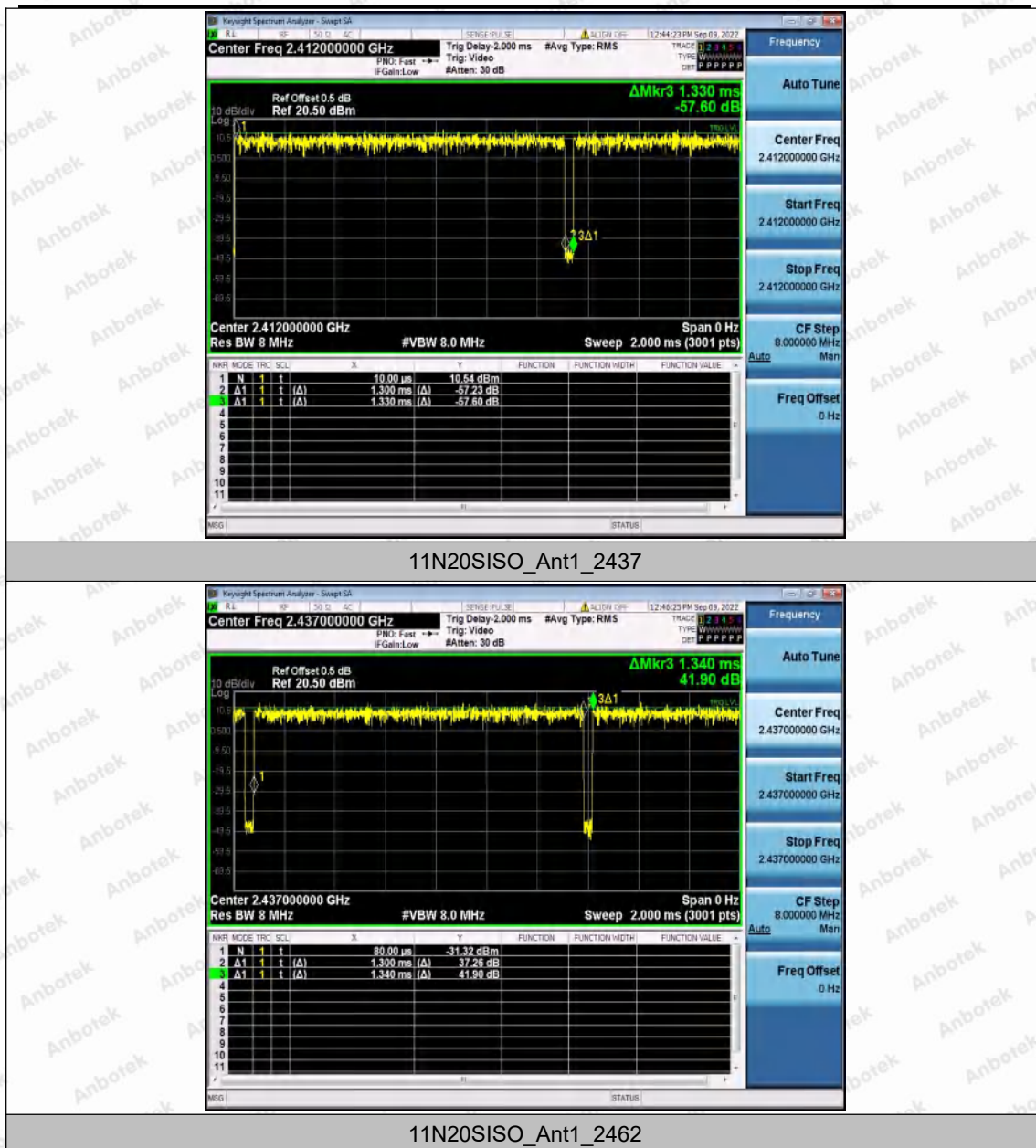
**Shenzhen Anbotek Compliance Laboratory Limited**

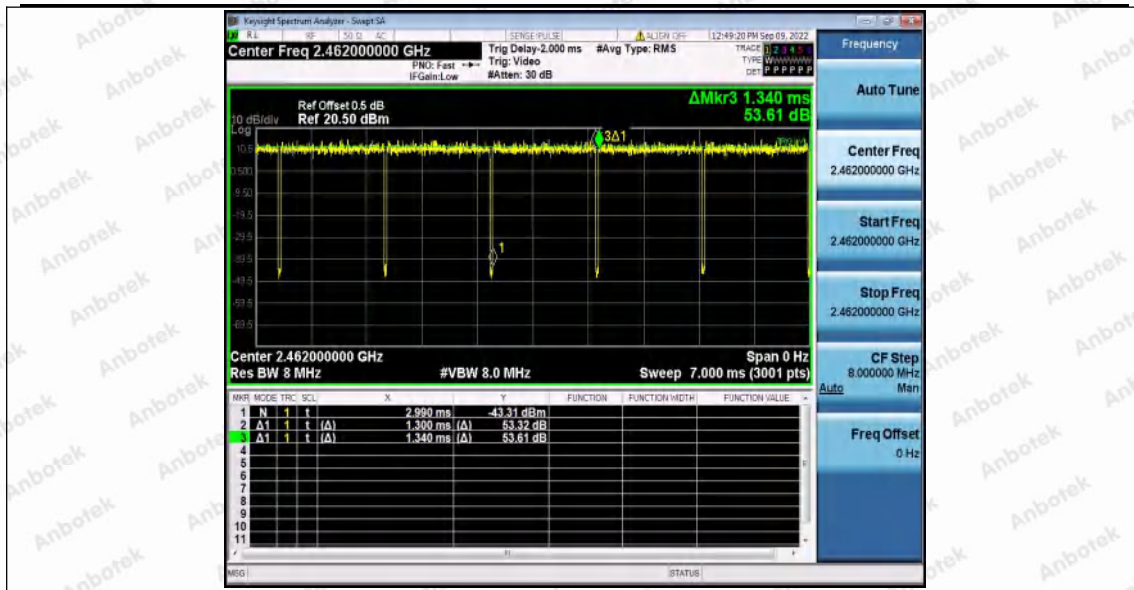
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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