

## Appendix Test Data

|                  |                 |                    |                   |
|------------------|-----------------|--------------------|-------------------|
| Report No.:      | 18220WC20287802 | Test Sample No.:   | 1-2-2             |
| Start Test Date: | 2022.12.15      | Finish Test Date:  | 2022.12.22        |
| Test Engineer:   | <i>Tony He</i>  | Auditor:           | <i>Edward Pan</i> |
| Temperature:     | 24.3°C          | Relative Humidity: | 37 %              |
| 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           | 9.080        | 2432.480 | 2441.560 | ≥0.5       | PASS    |
|          |         | 2462           | 9.560        | 2456.960 | 2466.520 | ≥0.5       | PASS    |
| 11G      | Ant1    | 2412           | 16.400       | 2403.840 | 2420.240 | ≥0.5       | PASS    |
|          |         | 2437           | 16.360       | 2428.840 | 2445.200 | ≥0.5       | PASS    |
|          |         | 2462           | 16.400       | 2453.760 | 2470.160 | ≥0.5       | PASS    |
| 11N20    | Ant1    | 2412           | 17.640       | 2403.200 | 2420.840 | ≥0.5       | PASS    |
|          |         | 2437           | 17.400       | 2428.240 | 2445.640 | ≥0.5       | PASS    |
|          |         | 2462           | 17.440       | 2453.200 | 2470.640 | ≥0.5       | PASS    |

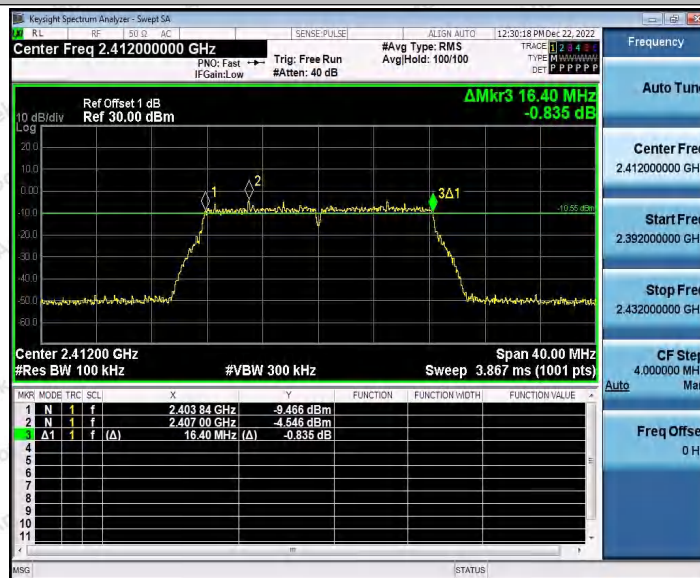








11G\_Ant1\_2412



11G\_Ant1\_2437





11G\_Ant1\_2462



11N20\_Ant1\_2412

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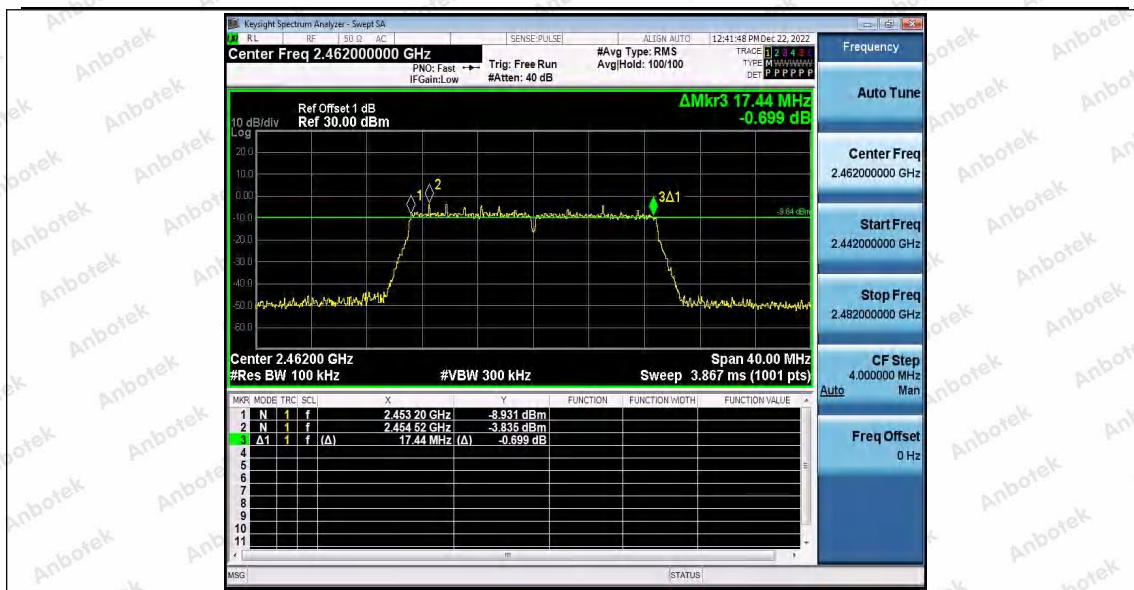


11N20\_Ant1\_2437



11N20\_Ant1\_2462





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## Appendix B: Occupied Channel Bandwidth

### Test Result

| Test Mode | Antenna | Channel<br>Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   |
|-----------|---------|---------------------------|-----------|-----------|-----------|
| 11B       | Ant1    | 2412                      | 12.280    | 2405.9441 | 2418.2241 |
|           |         | 2437                      | 12.303    | 2430.8619 | 2443.1649 |
|           |         | 2462                      | 12.330    | 2455.8123 | 2468.1423 |
| 11G       | Ant1    | 2412                      | 17.048    | 2403.5408 | 2420.5888 |
|           |         | 2437                      | 17.051    | 2428.5025 | 2445.5535 |
|           |         | 2462                      | 17.104    | 2453.3936 | 2470.4976 |
| 11N20     | Ant1    | 2412                      | 17.881    | 2403.1434 | 2421.0244 |
|           |         | 2437                      | 17.943    | 2428.0551 | 2445.9981 |
|           |         | 2462                      | 17.923    | 2453.0300 | 2470.9530 |



## Test Graphs

11B\_Ant1\_2412



11B\_Ant1\_2437



11B\_Ant1\_2462

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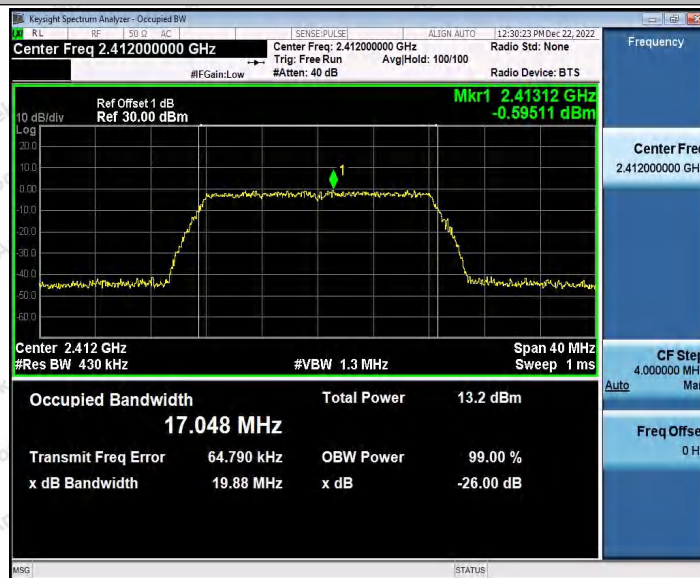
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11G\_Ant1\_2412



11G\_Ant1\_2437

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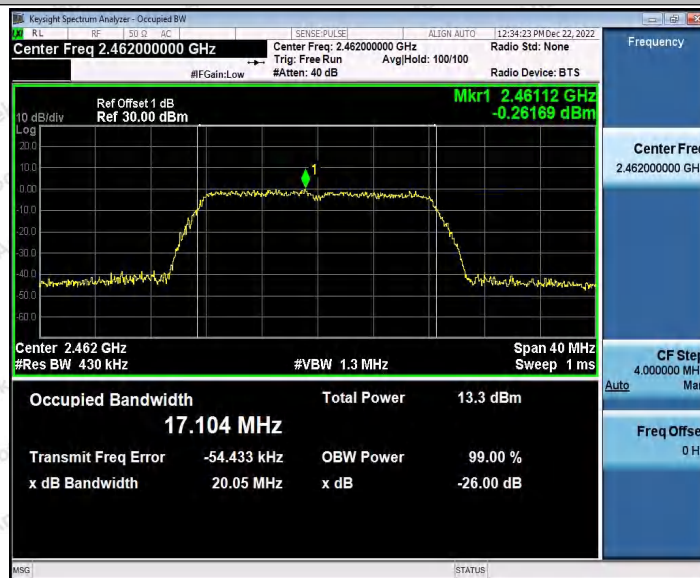


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11G\_Ant1\_2462



11N20\_Ant1\_2412

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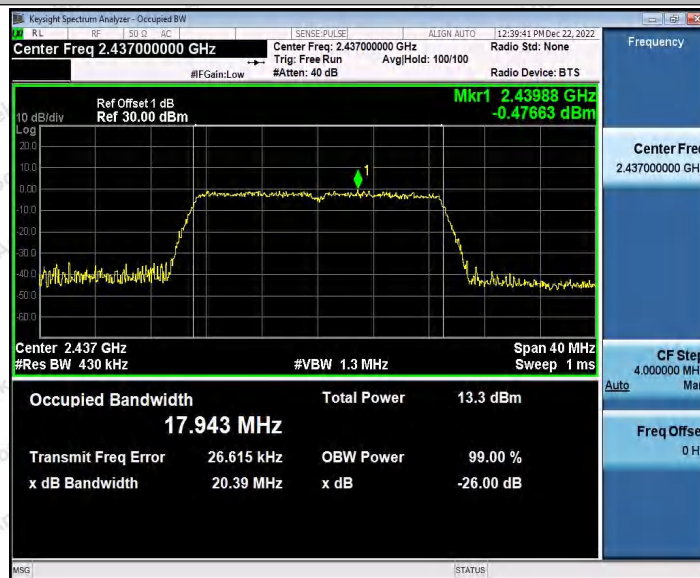
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11N20\_Ant1\_2437



11N20\_Ant1\_2462

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## Appendix C: Maximum conducted output power

### Test Result Peak

| Test Mode | Antenna | Frequency[MHz] | Peak Power[dBm] | Conducted Limit[dBm] |
|-----------|---------|----------------|-----------------|----------------------|
| 11B       | Ant1    | 2412           | 15.02           | ≤30.00               |
|           |         | 2437           | 15.25           | ≤30.00               |
|           |         | 2462           | 15.26           | ≤30.00               |
| 11G       | Ant1    | 2412           | 14.37           | ≤30.00               |
|           |         | 2437           | 14.77           | ≤30.00               |
|           |         | 2462           | 14.26           | ≤30.00               |
| 11N20     | Ant1    | 2412           | 14.39           | ≤30.00               |
|           |         | 2437           | 14.45           | ≤30.00               |
|           |         | 2462           | 14.40           | ≤30.00               |

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## Appendix D: Maximum power spectral density

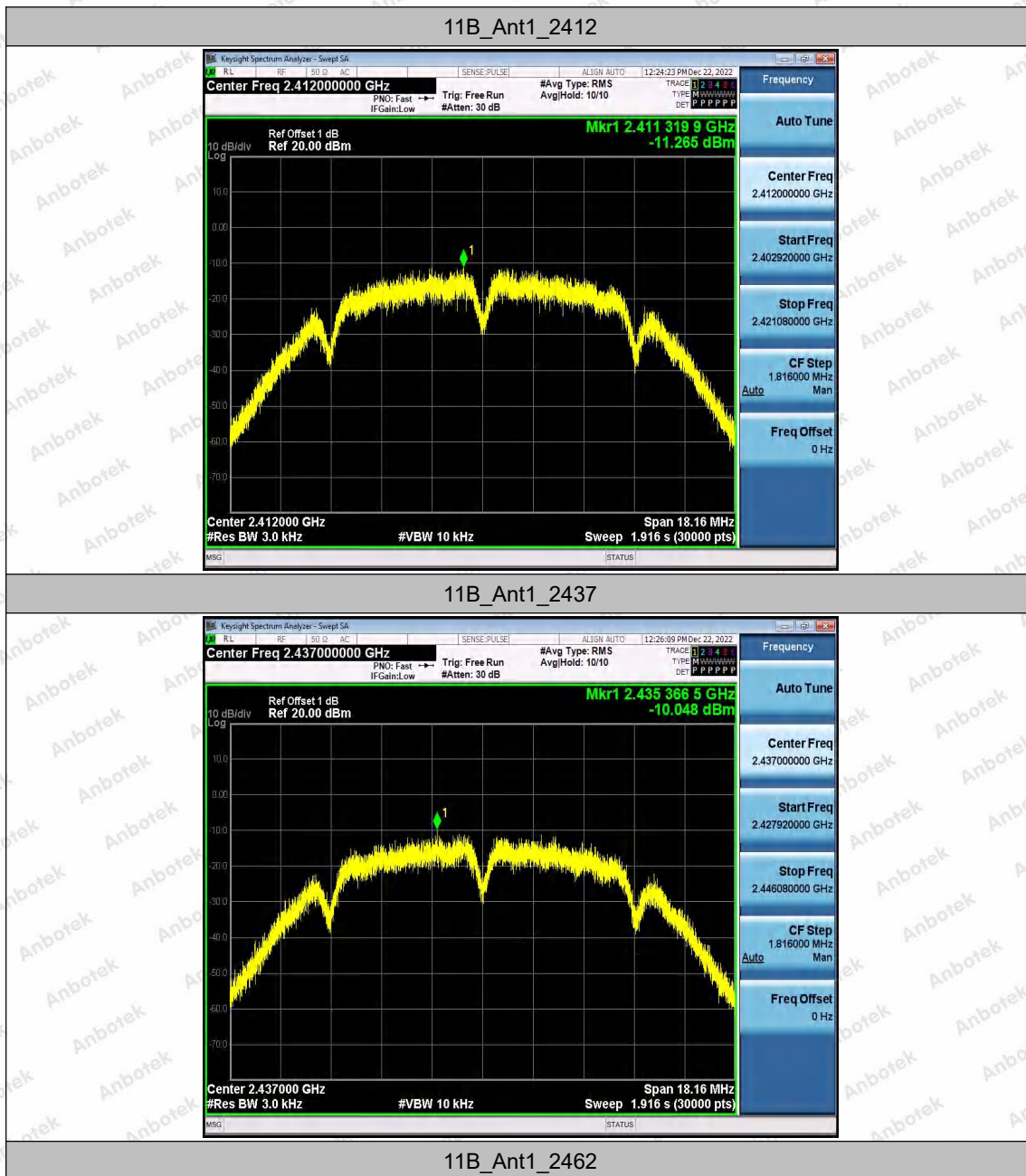
### Test Result

| Test Mode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|-----------|---------|----------------|------------------|-----------------|---------|
| 11B       | Ant1    | 2412           | -11.27           | ≤8.00           | PASS    |
|           |         | 2437           | -10.05           | ≤8.00           | PASS    |
|           |         | 2462           | -4.92            | ≤8.00           | PASS    |
| 11G       | Ant1    | 2412           | -17.2            | ≤8.00           | PASS    |
|           |         | 2437           | -17.78           | ≤8.00           | PASS    |
|           |         | 2462           | -17.64           | ≤8.00           | PASS    |
| 11N20     | Ant1    | 2412           | -18.44           | ≤8.00           | PASS    |
|           |         | 2437           | -17.06           | ≤8.00           | PASS    |
|           |         | 2462           | -18.28           | ≤8.00           | PASS    |





## Test Graphs



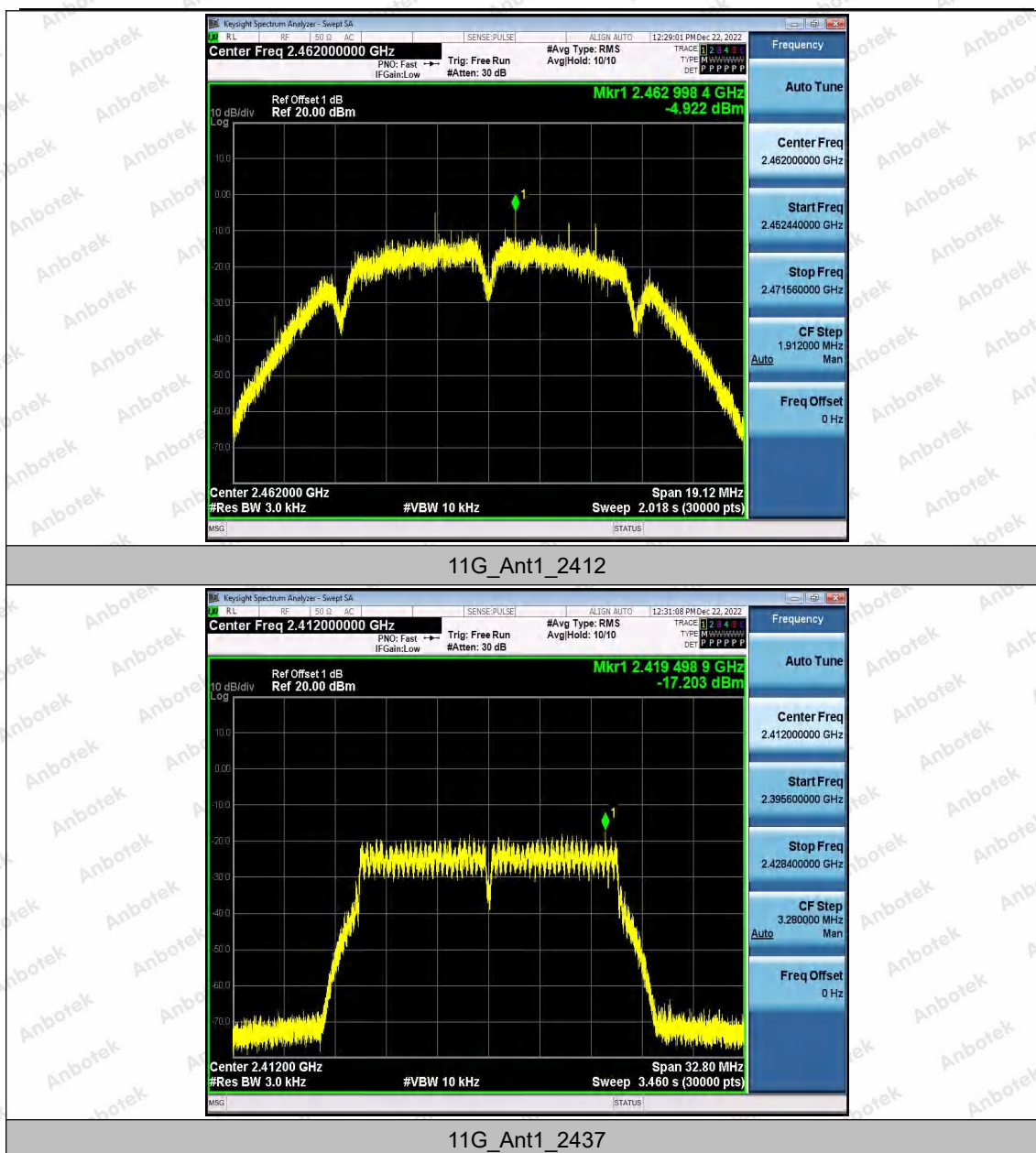
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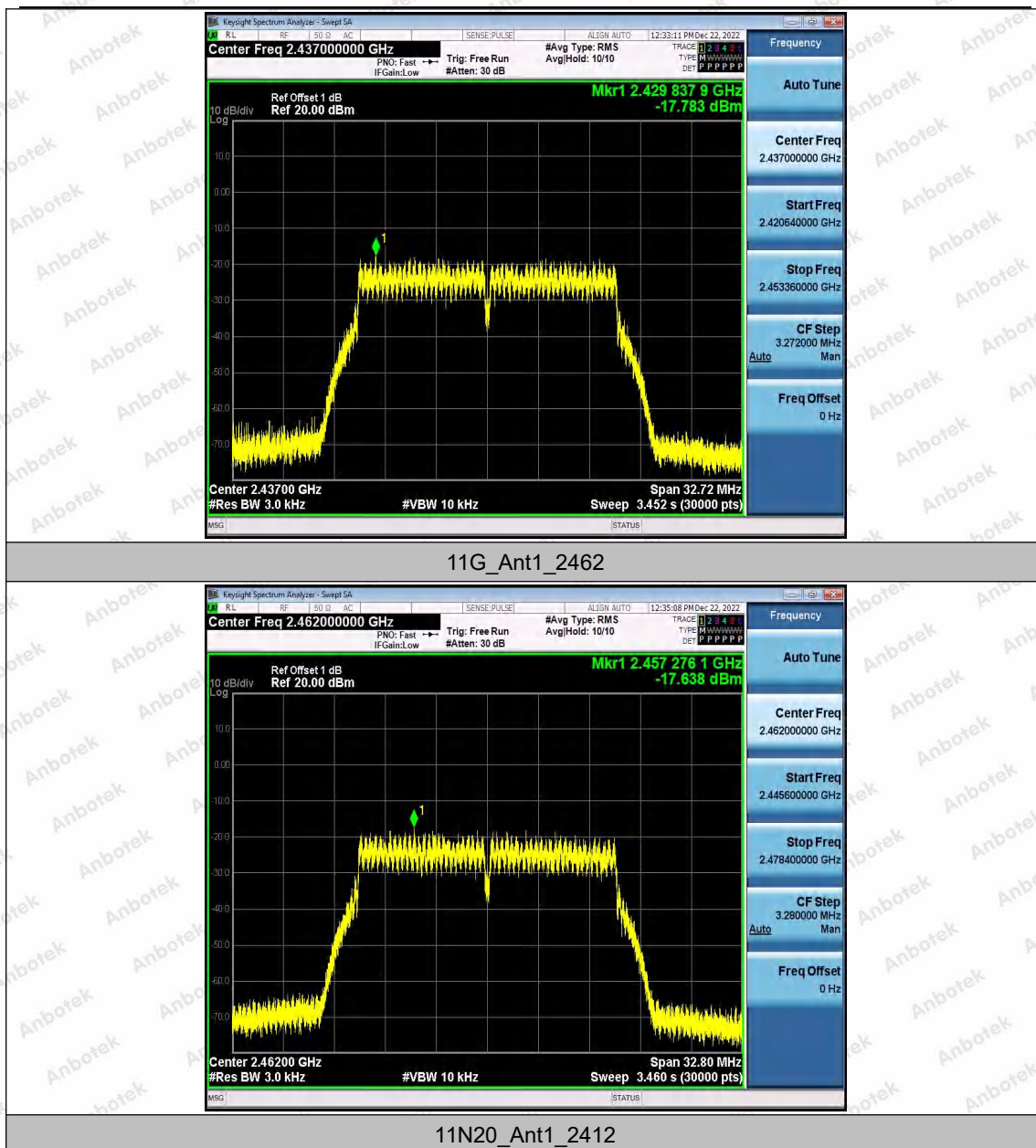
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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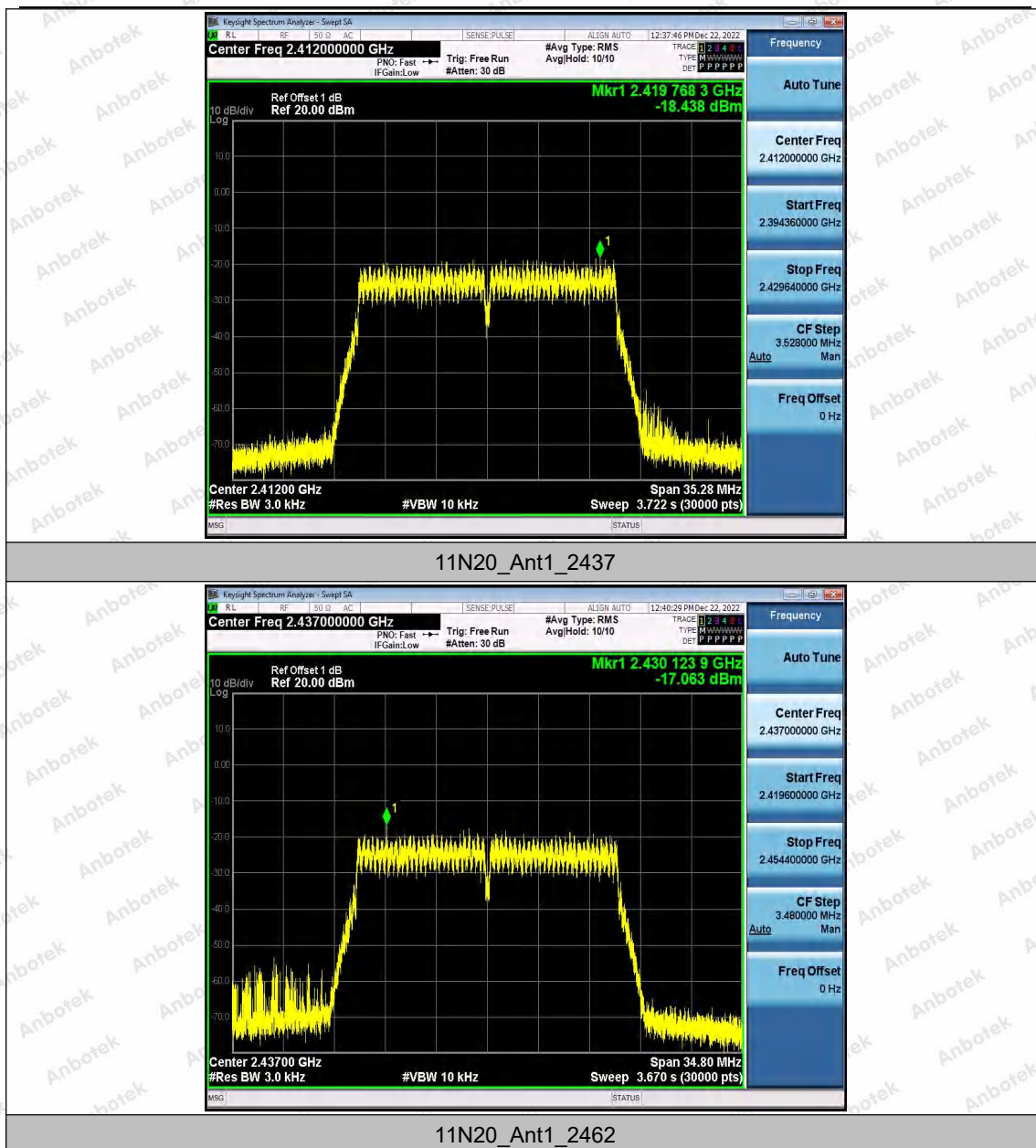
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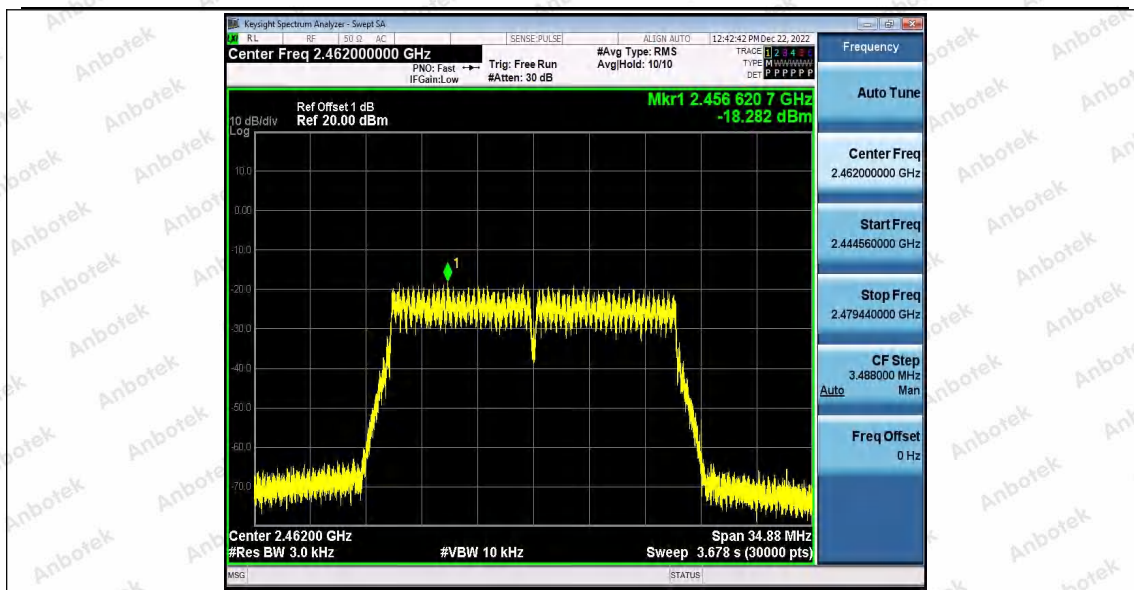
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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## Appendix E: Band edge measurements

### Test Result

| TestMode | Antenna | ChName | Frequency<br>[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|--------|--------------------|---------------|-------------|------------|---------|
| 11B      | Ant1    | Low    | 2412               | 3.27          | -50.3       | ≤-16.73    | PASS    |
|          |         | High   | 2462               | 3.14          | -56.8       | ≤-16.86    | PASS    |
| 11G      | Ant1    | Low    | 2412               | -4.17         | -52.22      | ≤-24.17    | PASS    |
|          |         | High   | 2462               | -3.64         | -54.8       | ≤-23.64    | PASS    |
| 11N20    | Ant1    | Low    | 2412               | -3.76         | -47.97      | ≤-23.76    | PASS    |
|          |         | High   | 2462               | -4.20         | -55.59      | ≤-24.2     | PASS    |

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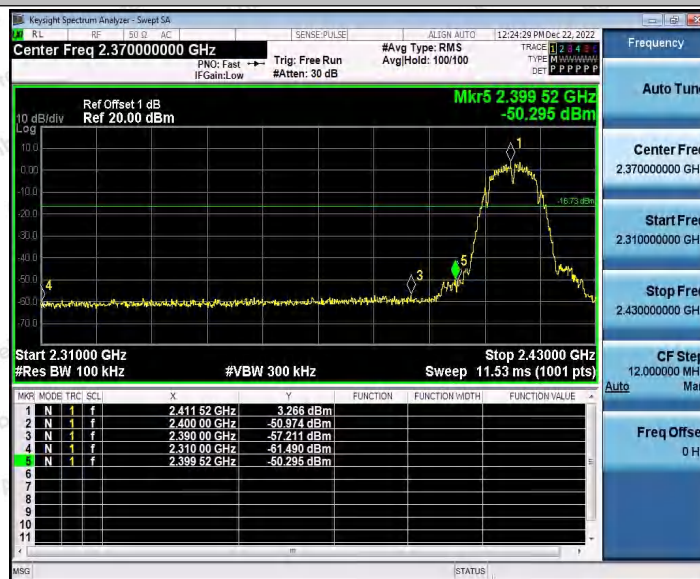
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## Test Graphs

11B\_Ant1\_Low\_2412



11B\_Ant1\_High\_2462



11G\_Ant1\_Low\_2412

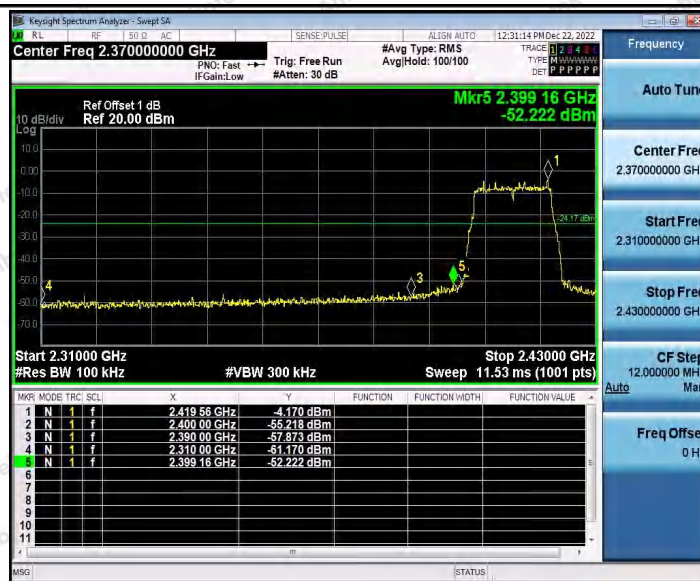
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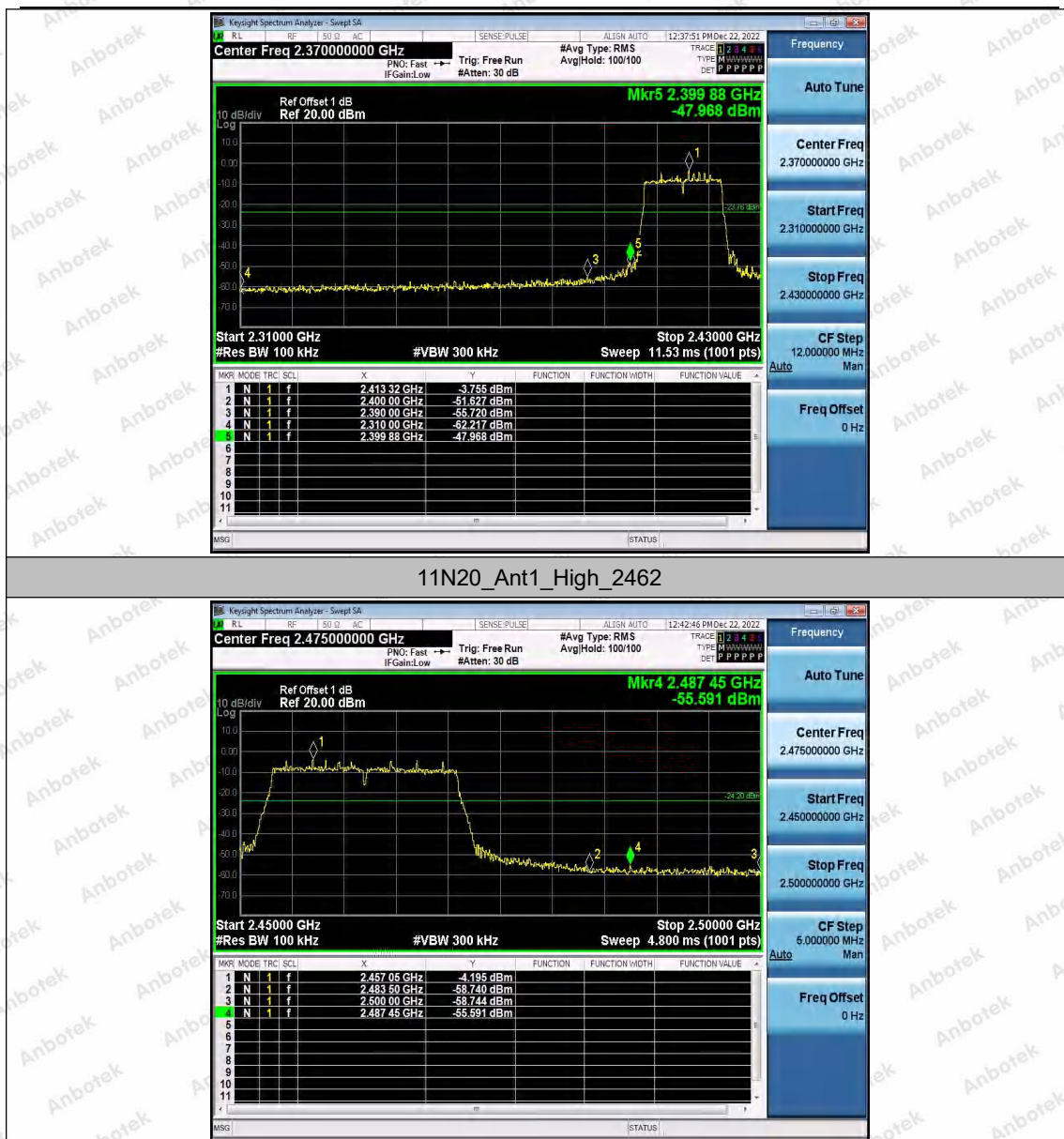
11G\_Ant1\_High\_2462



11N20\_Ant1\_Low\_2412







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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       | 1.63           | 1.63         | ---         | PASS    |
|          |         |                | 30~1000         | 1.63           | -68.65       | ≤-18.37     | PASS    |
|          |         |                | 1000~26500      | 1.63           | -53.24       | ≤-18.37     | PASS    |
|          |         | 2437           | Reference       | 1.70           | 1.70         | ---         | PASS    |
|          |         |                | 30~1000         | 1.70           | -68.87       | ≤-18.3      | PASS    |
|          |         |                | 1000~26500      | 1.70           | -53.14       | ≤-18.3      | PASS    |
|          |         | 2462           | Reference       | 3.40           | 3.40         | ---         | PASS    |
|          |         |                | 30~1000         | 3.40           | -68.39       | ≤-16.6      | PASS    |
|          |         |                | 1000~26500      | 3.40           | -53.7        | ≤-16.6      | PASS    |
| 11G      | Ant1    | 2412           | Reference       | -5.09          | -5.09        | ---         | PASS    |
|          |         |                | 30~1000         | -5.09          | -68.85       | ≤-25.09     | PASS    |
|          |         |                | 1000~26500      | -5.09          | -53.61       | ≤-25.09     | PASS    |
|          |         | 2437           | Reference       | -5.07          | -5.07        | ---         | PASS    |
|          |         |                | 30~1000         | -5.07          | -69.05       | ≤-25.07     | PASS    |
|          |         |                | 1000~26500      | -5.07          | -53.17       | ≤-25.07     | PASS    |
|          |         | 2462           | Reference       | -4.10          | -4.10        | ---         | PASS    |
|          |         |                | 30~1000         | -4.10          | -69.09       | ≤-24.1      | PASS    |
|          |         |                | 1000~26500      | -4.10          | -53.34       | ≤-24.1      | PASS    |
| 11N20    | Ant1    | 2412           | Reference       | -4.73          | -4.73        | ---         | PASS    |
|          |         |                | 30~1000         | -4.73          | -68          | ≤-24.73     | PASS    |
|          |         |                | 1000~26500      | -4.73          | -52.81       | ≤-24.73     | PASS    |
|          |         | 2437           | Reference       | -5.74          | -5.74        | ---         | PASS    |
|          |         |                | 30~1000         | -5.74          | -69.21       | ≤-25.74     | PASS    |
|          |         |                | 1000~26500      | -5.74          | -53.19       | ≤-25.74     | PASS    |
|          |         | 2462           | Reference       | -4.84          | -4.84        | ---         | PASS    |
|          |         |                | 30~1000         | -4.84          | -69.12       | ≤-24.84     | PASS    |
|          |         |                | 1000~26500      | -4.84          | -53.63       | ≤-24.84     | PASS    |



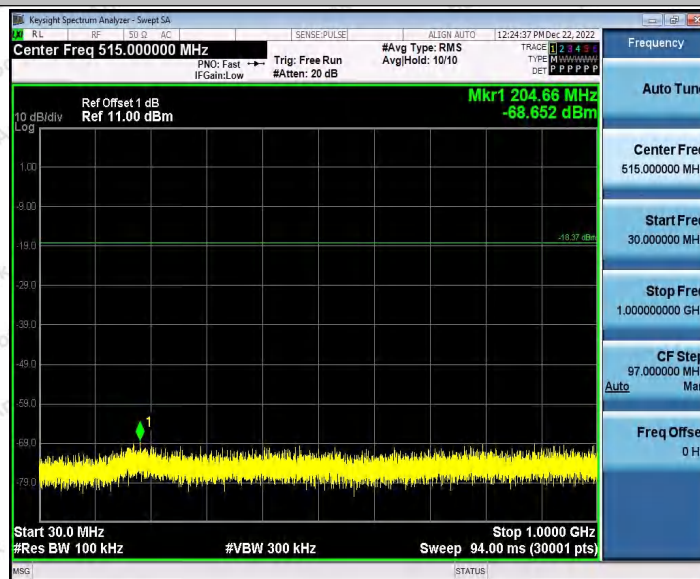


## Test Graphs

11B\_Ant1\_2412\_0~Reference



11B\_Ant1\_2412\_30~1000



11B\_Ant1\_2412\_1000~26500

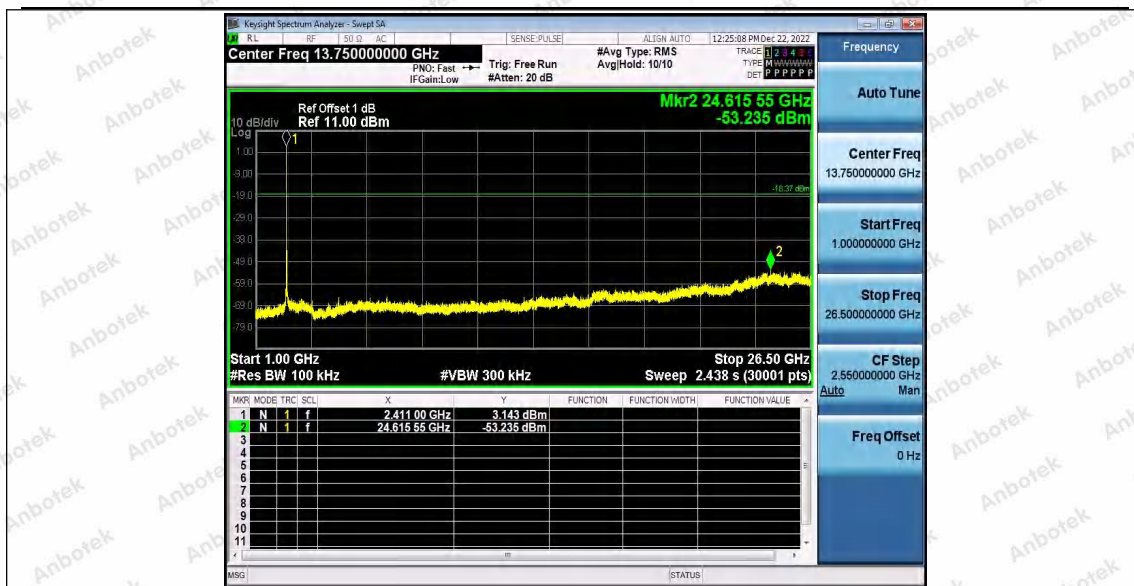
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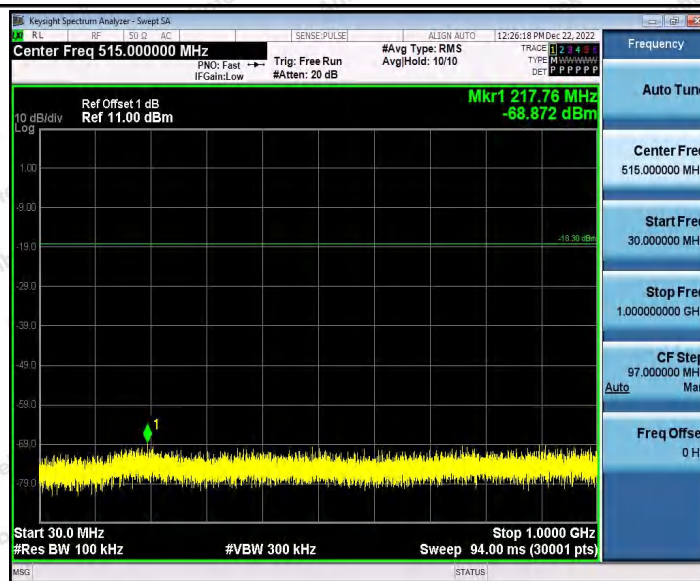
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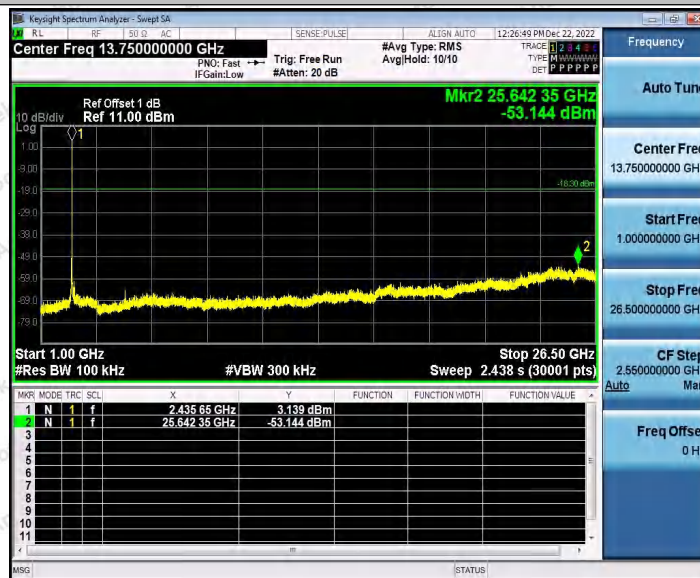
11B\_Ant1\_2437\_30~1000







11B\_Ant1\_2437\_1000~26500



11B\_Ant1\_2462\_0~Reference

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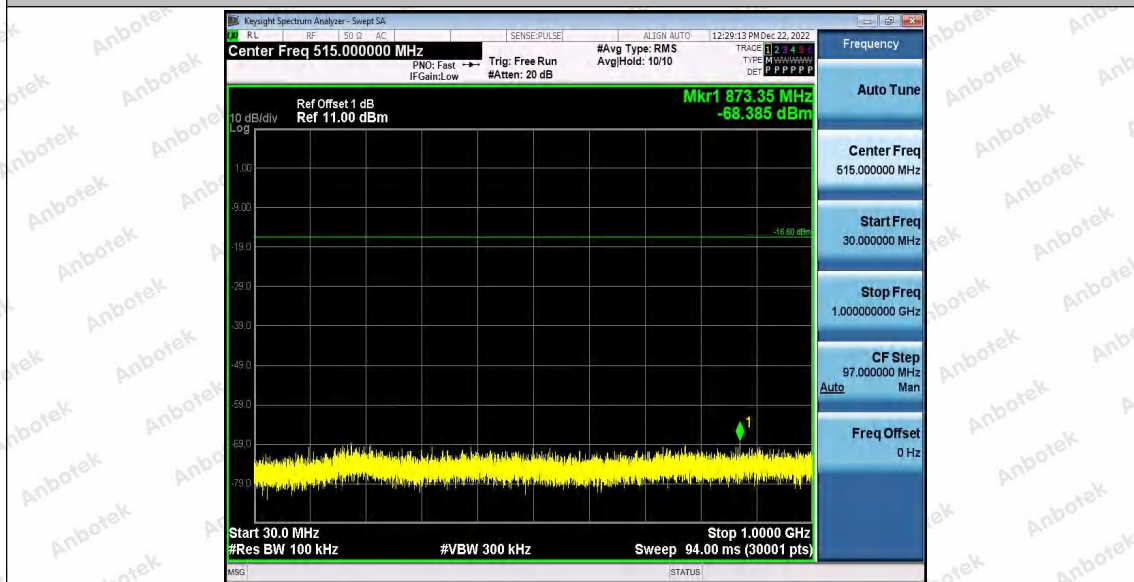


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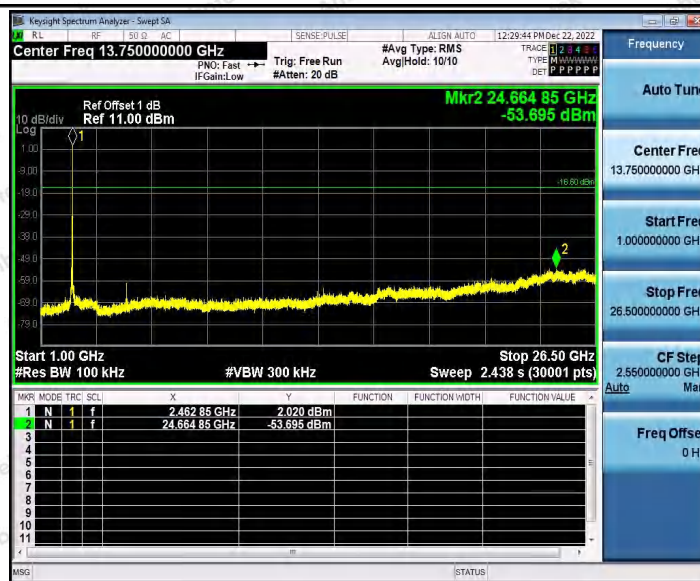
11B\_Ant1\_2462\_30~1000



11B\_Ant1\_2462\_1000~26500







11G\_Ant1\_2412\_0~Reference



11G\_Ant1\_2412\_30~1000

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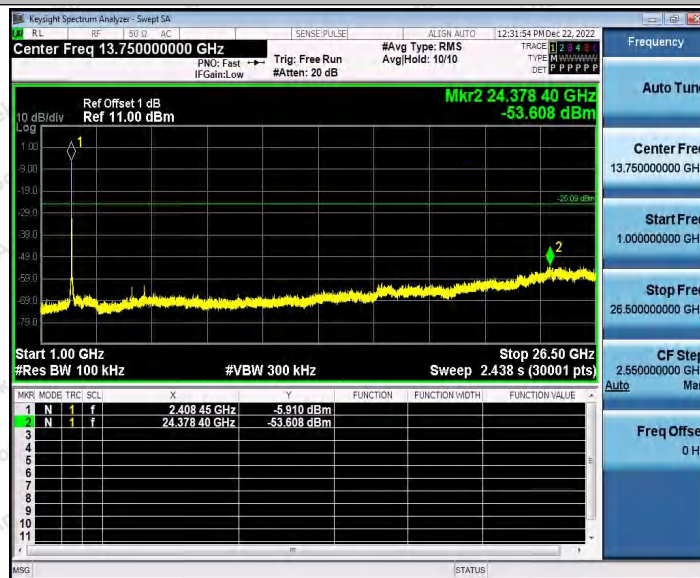


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11G\_Ant1\_2412\_1000~26500



11G\_Ant1\_2437\_0~Reference

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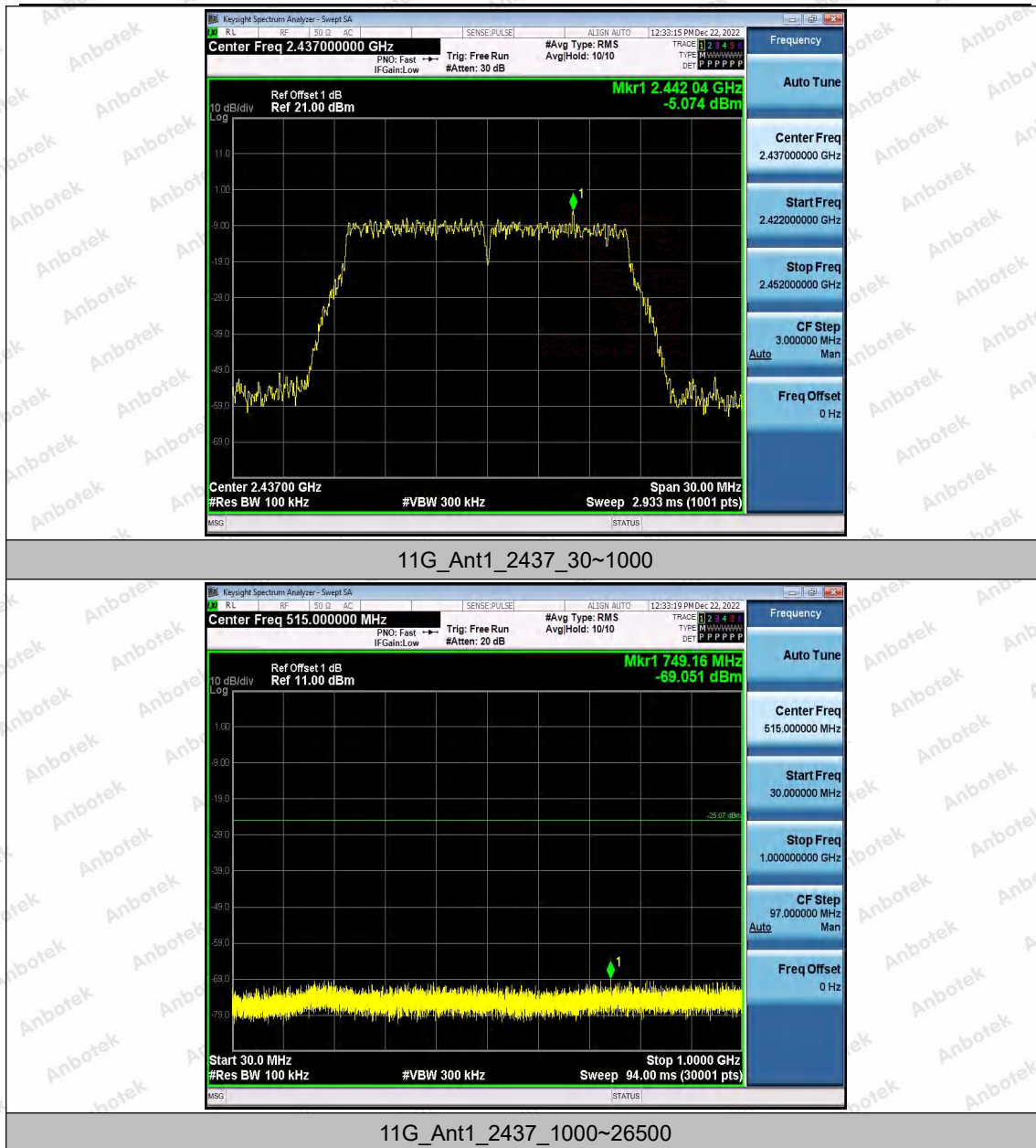
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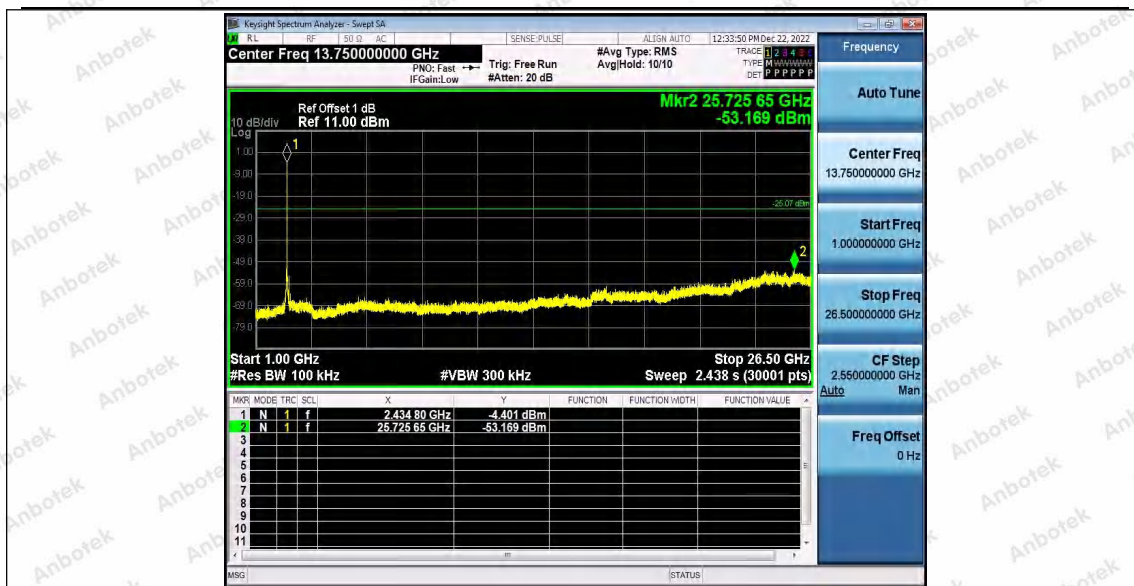
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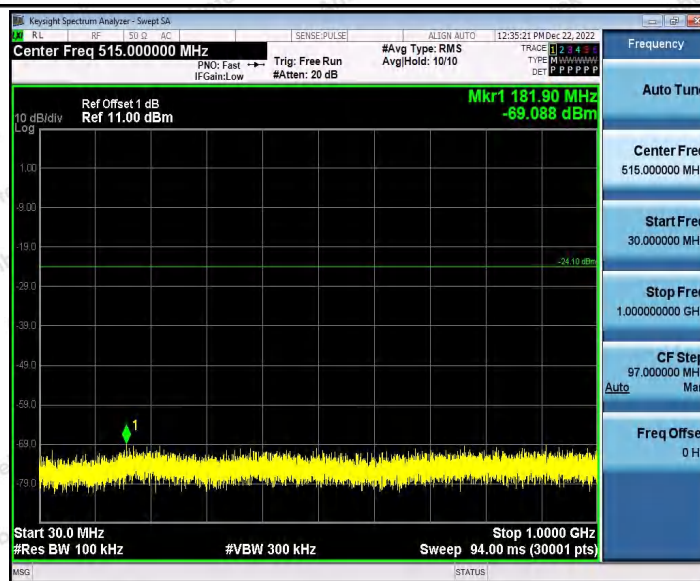
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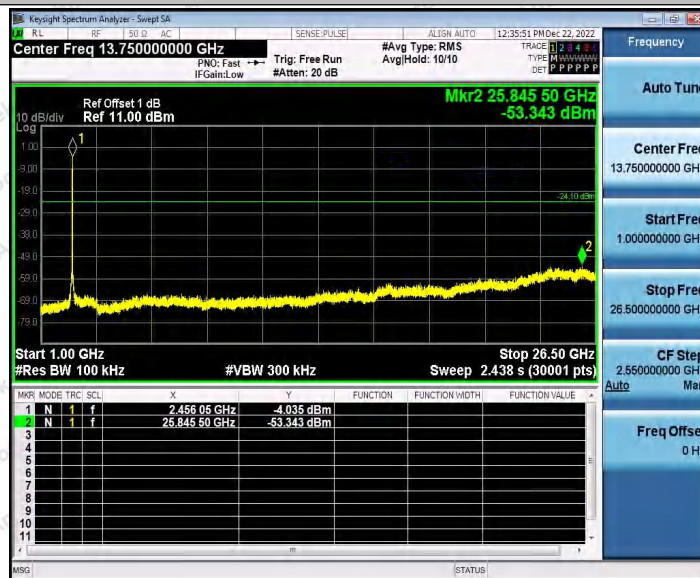
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11G\_Ant1\_2462\_1000~26500

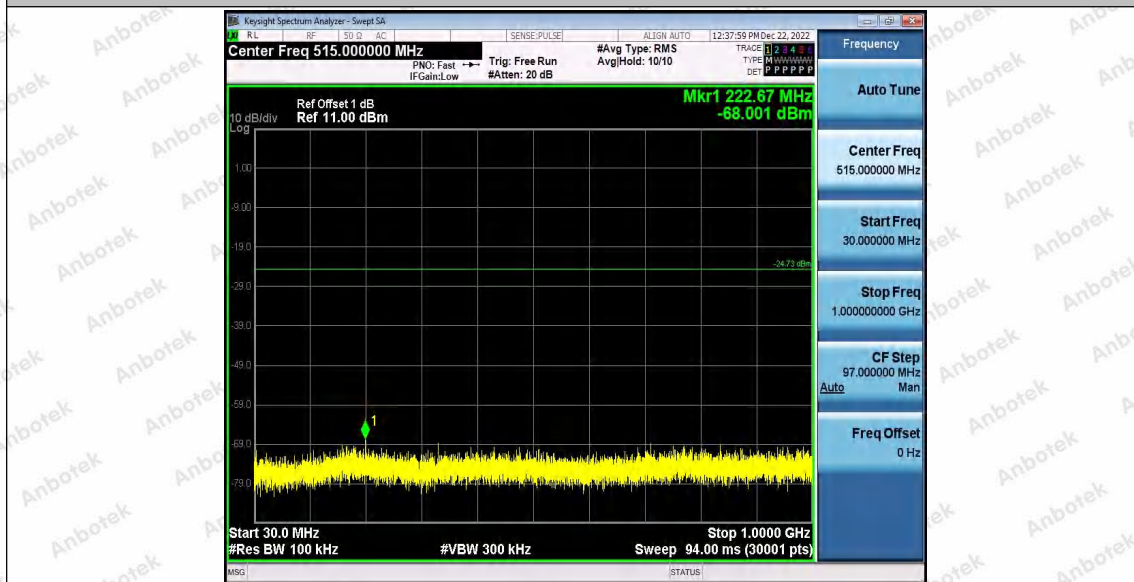


11N20\_Ant1\_2412\_0~Reference





11N20\_Ant1\_2412\_30~1000



11N20\_Ant1\_2412\_1000~26500





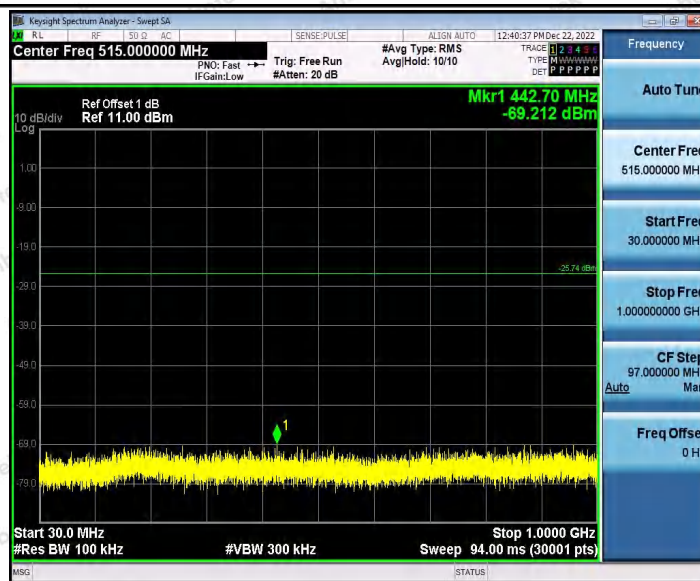


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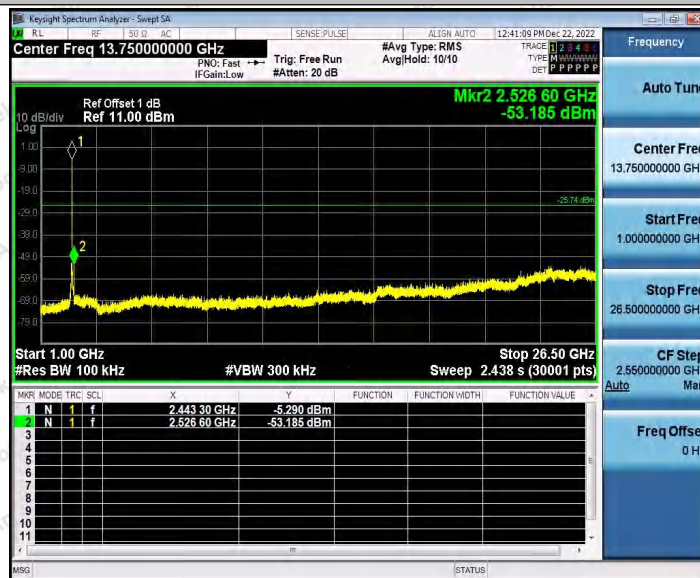


11N20\_Ant1\_2437\_30~1000





11N20\_Ant1\_2437\_1000~26500



11N20\_Ant1\_2462\_0~Reference

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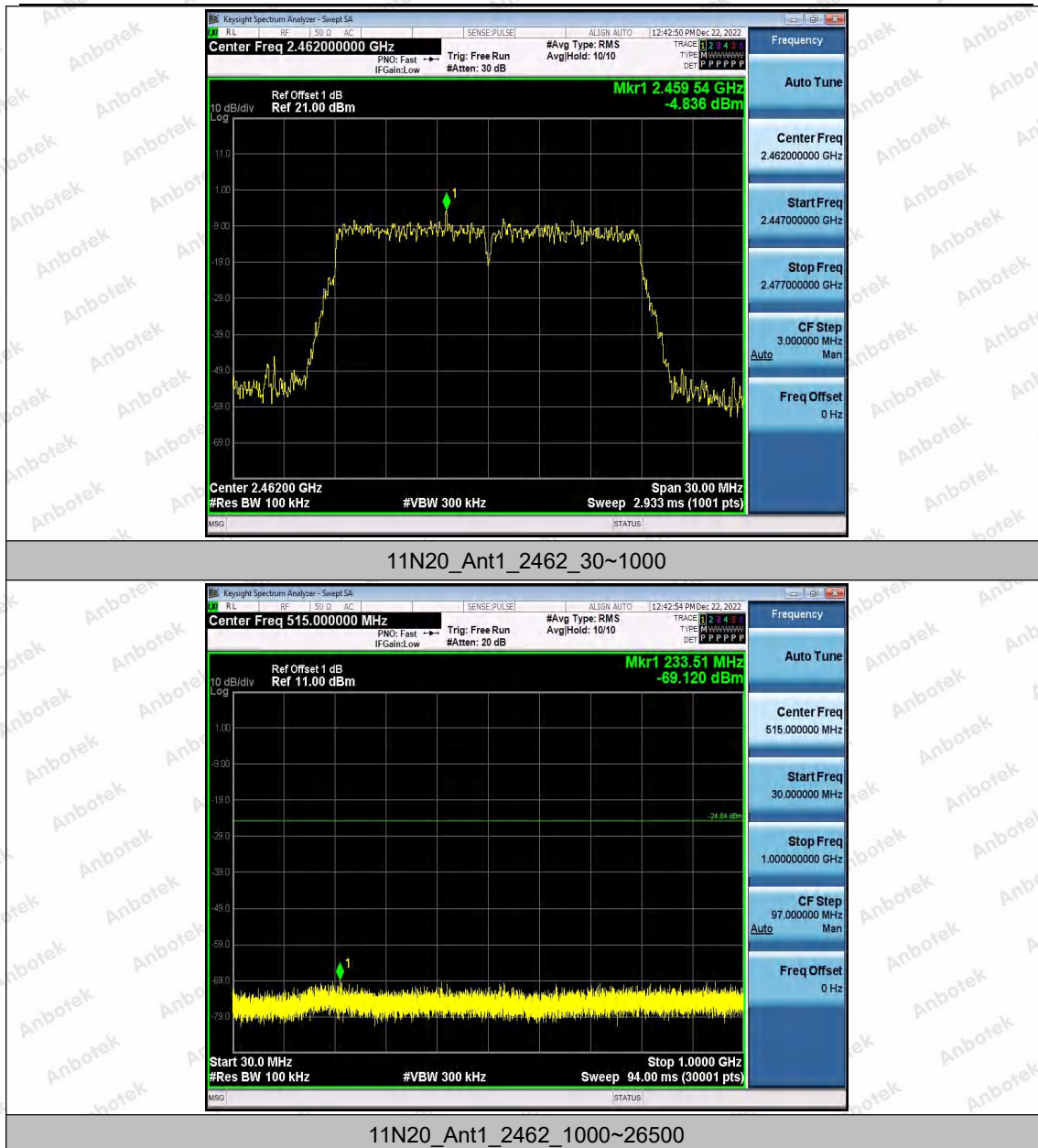
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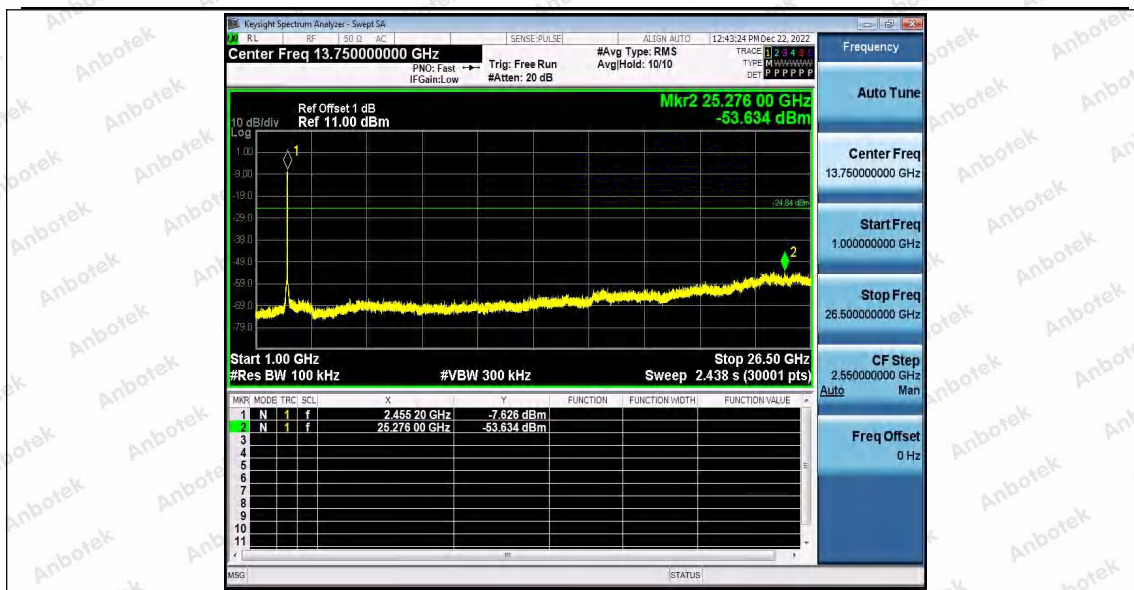
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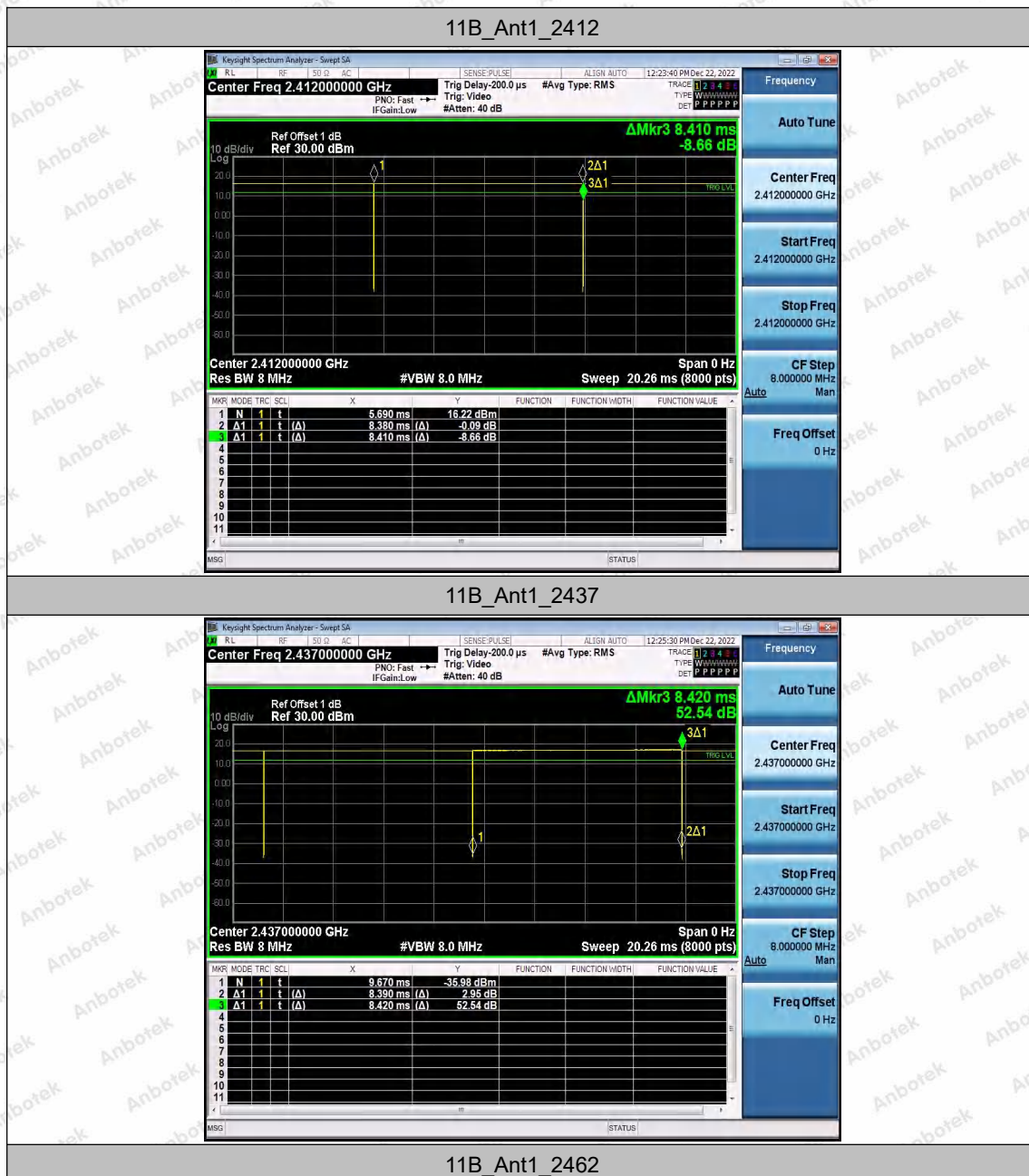
## Appendix G: Duty Cycle

### Test Result

| TestMode | Antenna | Frequency[MHz] | Transmission<br>Duration [ms] | Transmission<br>Period [ms] | Duty Cycle<br>[%] | Factor |
|----------|---------|----------------|-------------------------------|-----------------------------|-------------------|--------|
| 11B      | Ant1    | 2412           | 8.38                          | 8.41                        | 99.64             | 0.02   |
|          |         | 2437           | 8.39                          | 8.42                        | 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           | 1.40                          | 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                          | 1.34                        | 97.01             | 0.13   |



## Test Graphs



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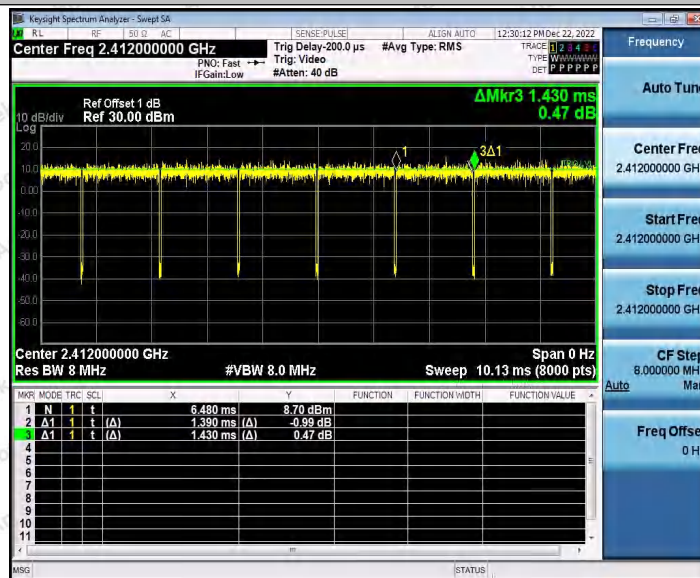
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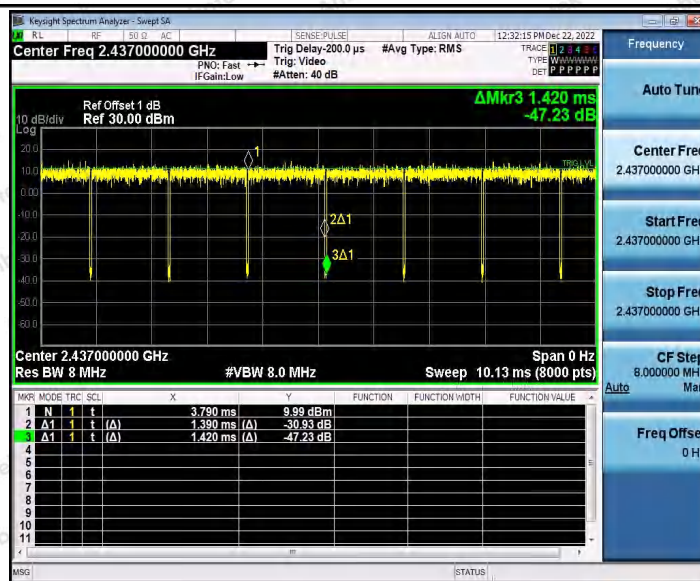


11G\_Ant1\_2412

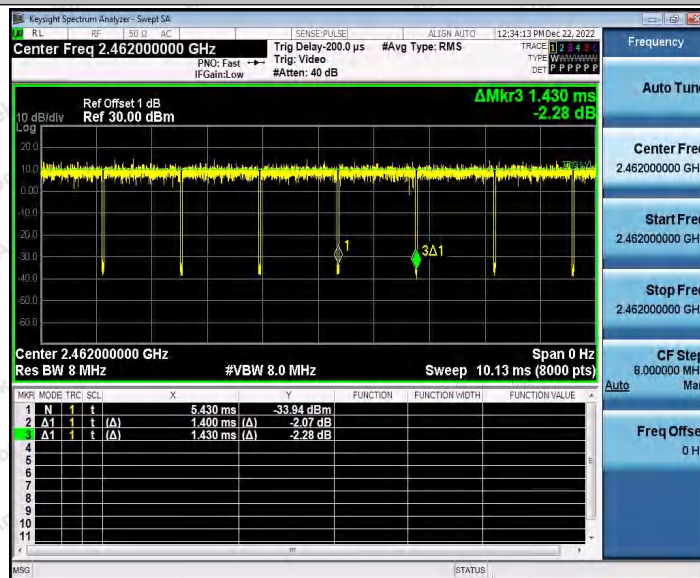


11G\_Ant1\_2437





11G\_Ant1\_2462



11N20\_Ant1\_2412

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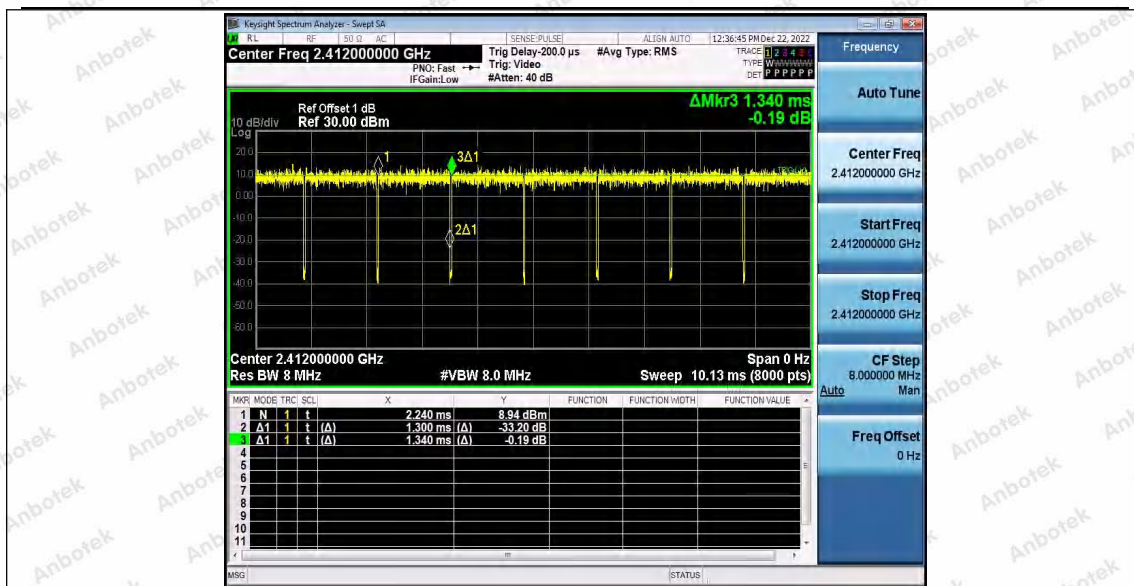
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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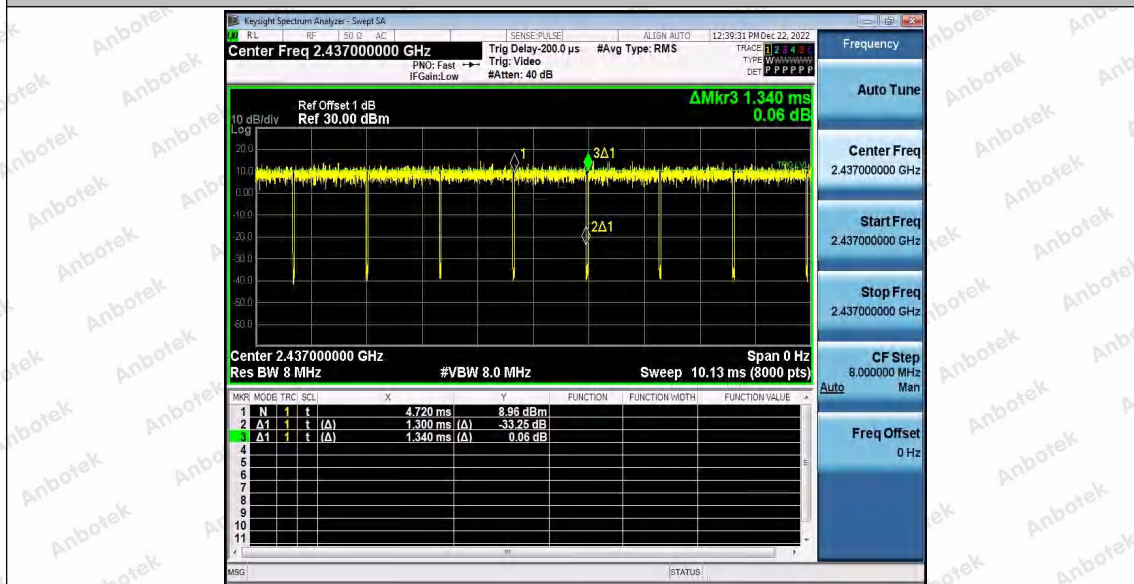
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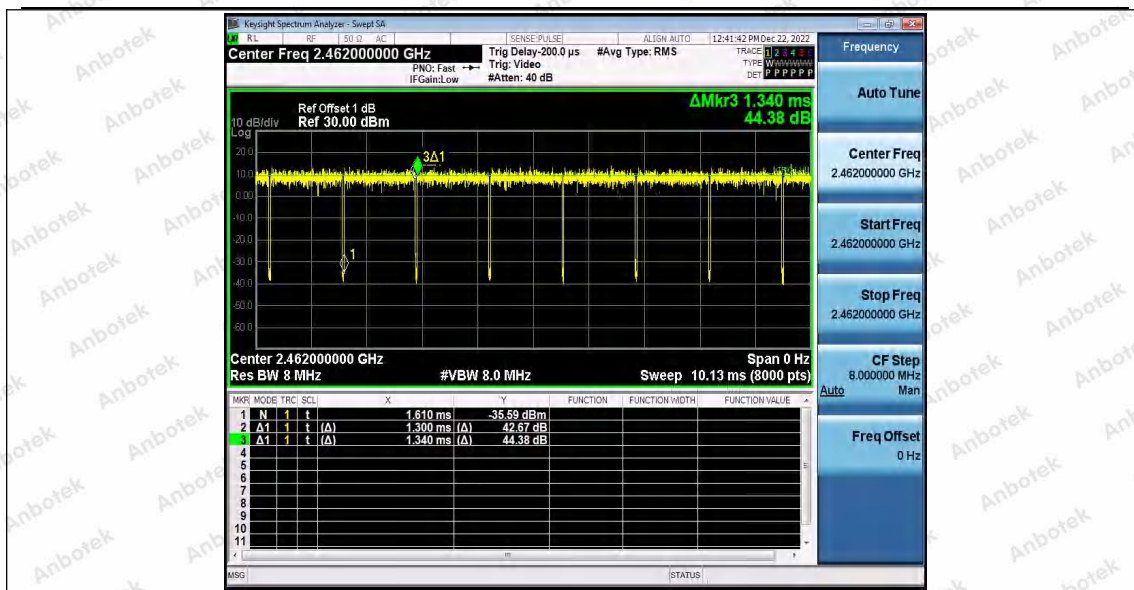


11N20\_Ant1\_2437



11N20\_Ant1\_2462





---End---

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