

## Appendix Test Data

|                  |                 |                    |                   |
|------------------|-----------------|--------------------|-------------------|
| Report No.:      | 18220WC20186901 | Test Sample No.:   | 1-2-2             |
| Start Test Date: | 2022.8.15       | Finish Test Date:  | 2022.9.9          |
| Test Engineer:   | <i>Tony He</i>  | Auditor:           | <i>Edward Pan</i> |
| Temperature:     | 26.3°C          | Relative Humidity: | 47 %              |
| Pressure:        | 1012 hPa        |                    |                   |

## Appendix A: DTS Bandwidth

## Test Result

| Test Mode | Antenna | Frequency[MHz] | DTS BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|----------------|--------------|----------|----------|------------|---------|
| 11B       | Ant1    | 2412           | 9.080        | 2407.400 | 2416.480 | ≥0.5       | PASS    |
|           |         | 2437           | 9.040        | 2432.400 | 2441.440 | ≥0.5       | PASS    |
|           |         | 2462           | 9.080        | 2457.440 | 2466.520 | ≥0.5       | PASS    |
| 11G       | Ant1    | 2412           | 16.320       | 2403.800 | 2420.120 | ≥0.5       | PASS    |
|           |         | 2437           | 16.360       | 2428.760 | 2445.120 | ≥0.5       | PASS    |
|           |         | 2462           | 16.280       | 2453.840 | 2470.120 | ≥0.5       | PASS    |
| 11N20     | Ant1    | 2412           | 17.400       | 2403.320 | 2420.720 | ≥0.5       | PASS    |
|           |         | 2437           | 17.520       | 2428.200 | 2445.720 | ≥0.5       | PASS    |
|           |         | 2462           | 16.920       | 2453.400 | 2470.320 | ≥0.5       | PASS    |



## Test Graphs

11B\_Ant1\_2412



11B\_Ant1\_2437



11B\_Ant1\_2462

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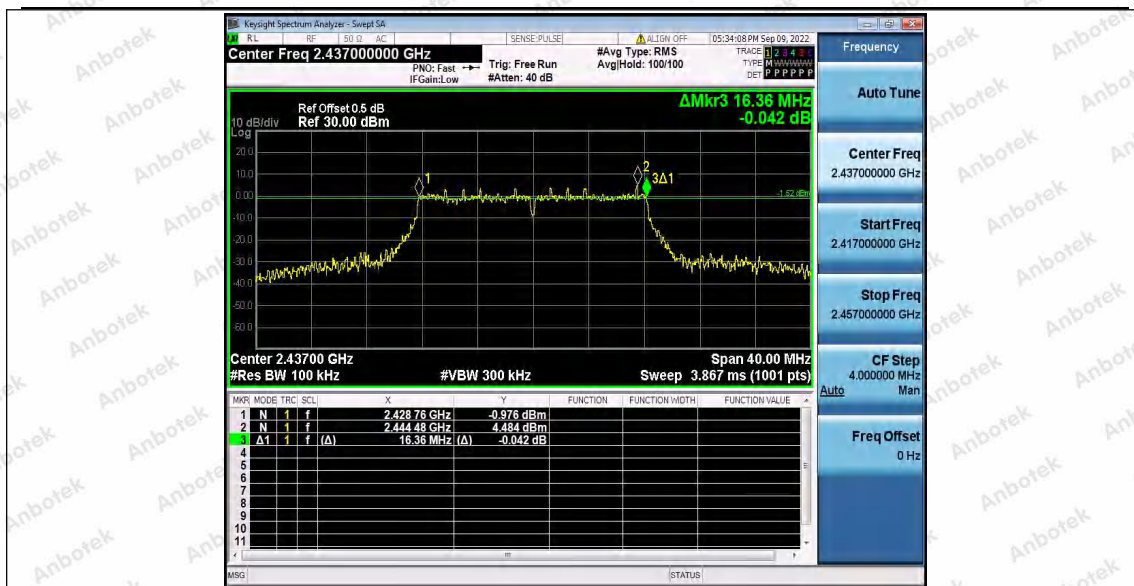


11G\_Ant1\_2412



11G\_Ant1\_2437





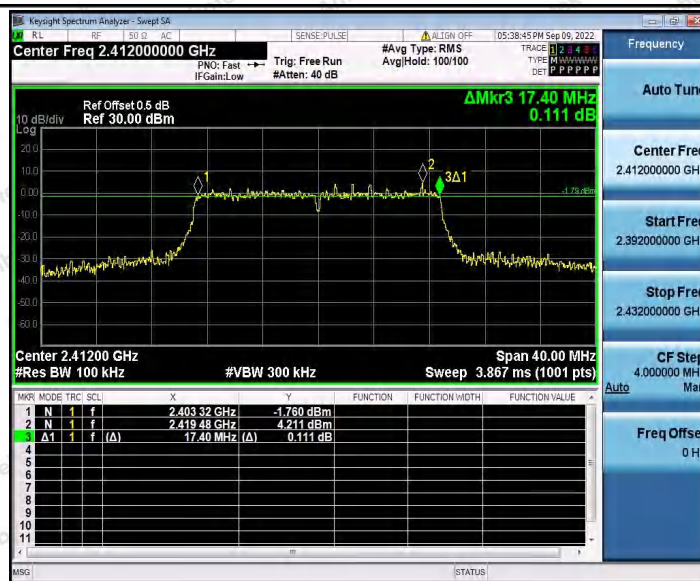
11G\_Ant1\_2462



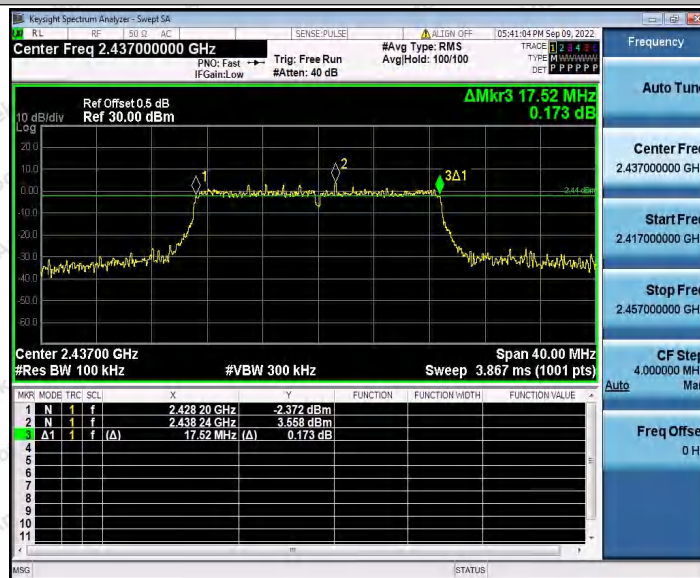
11N20\_Ant1\_2412





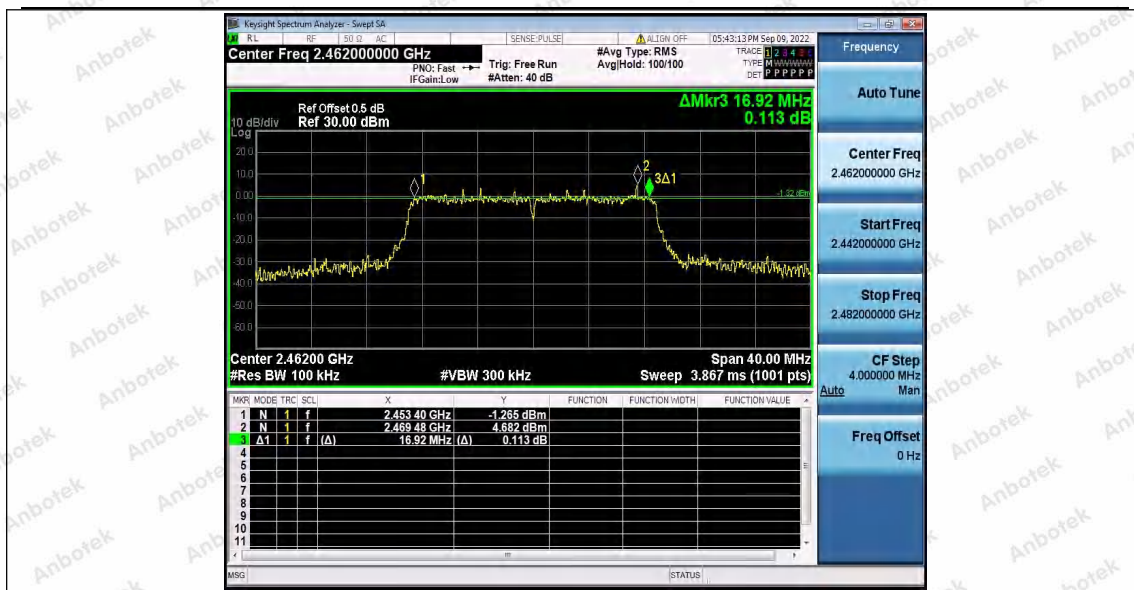


11N20\_Ant1\_2437



11N20\_Ant1\_2462





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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           | 13.181    | 2405.3838 | 2418.5648 |
|           |         | 2437           | 13.216    | 2430.3429 | 2443.5589 |
|           |         | 2462           | 13.203    | 2455.3758 | 2468.5788 |
| 11G       | Ant1    | 2412           | 17.206    | 2403.4147 | 2420.6207 |
|           |         | 2437           | 17.168    | 2428.3674 | 2445.5354 |
|           |         | 2462           | 17.016    | 2453.5619 | 2470.5779 |
| 11N20     | Ant1    | 2412           | 17.782    | 2403.0920 | 2420.8740 |
|           |         | 2437           | 17.811    | 2428.0897 | 2445.9007 |
|           |         | 2462           | 17.786    | 2453.0927 | 2470.8787 |

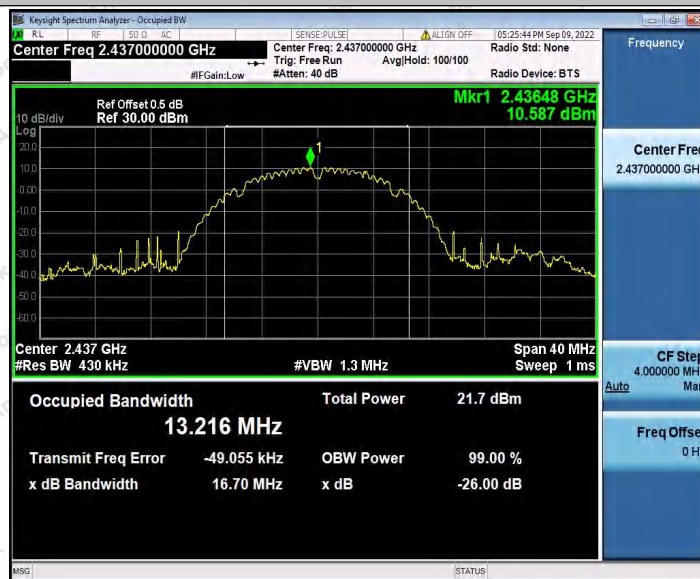


## Test Graphs

11B\_Ant1\_2412



11B\_Ant1\_2437



11B\_Ant1\_2462

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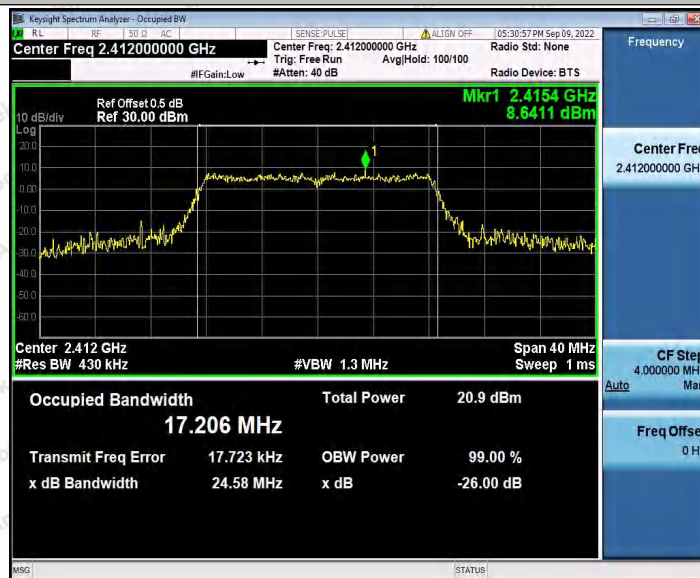
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11G\_Ant1\_2412



11G\_Ant1\_2437

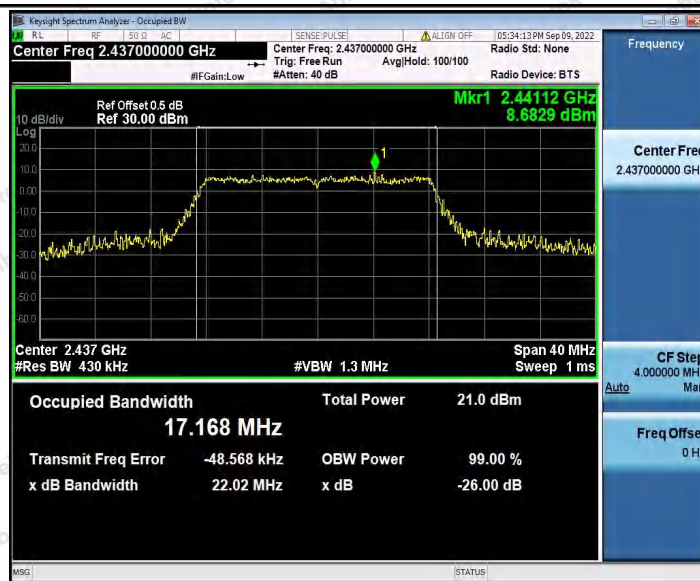
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11G\_Ant1\_2462



11N20\_Ant1\_2412

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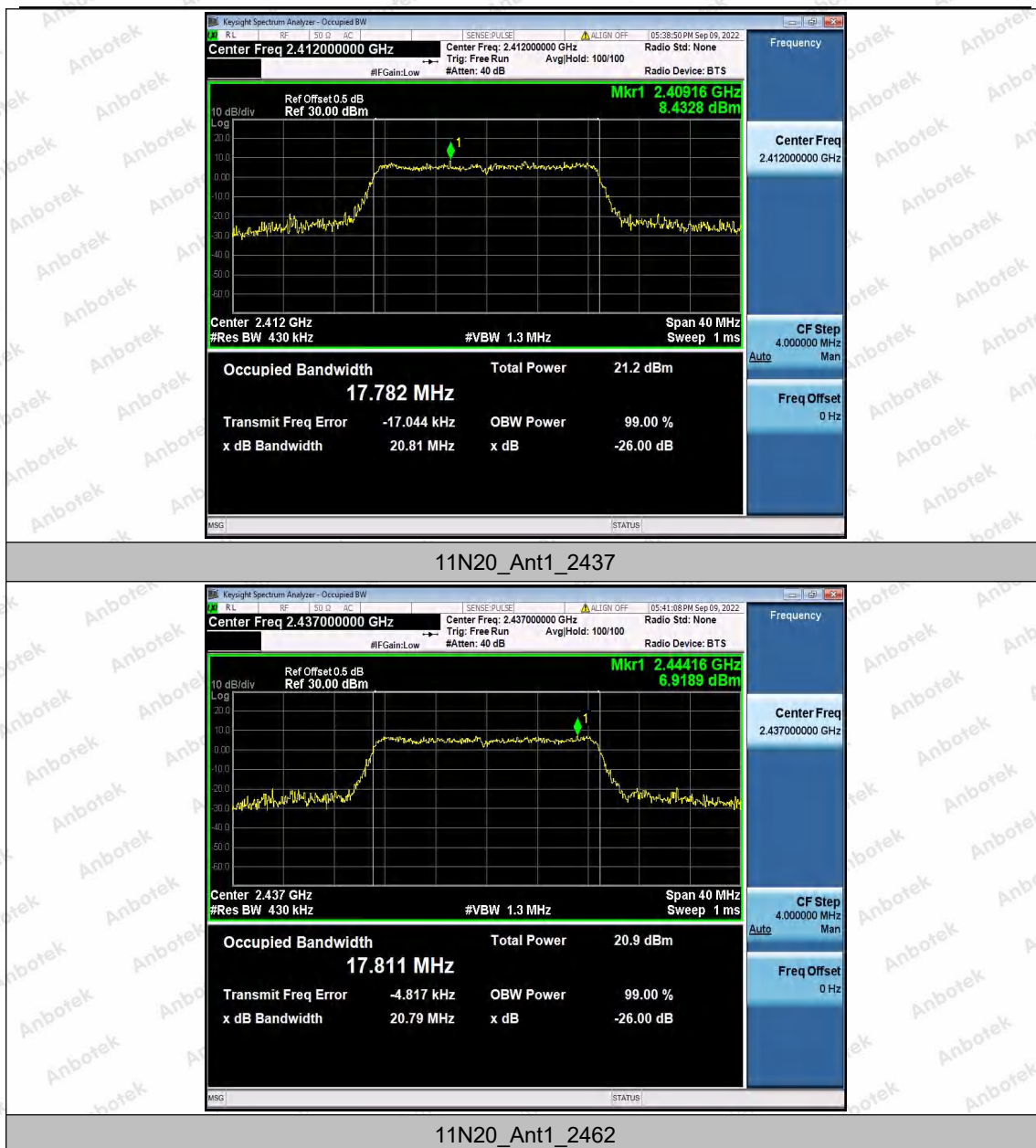
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community,  
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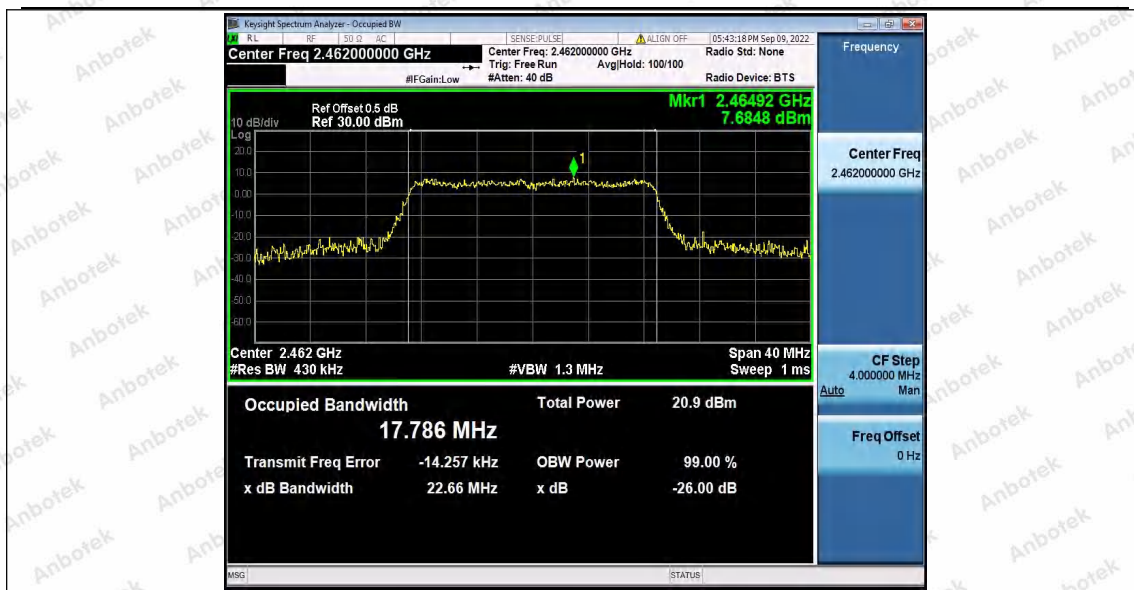
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## Appendix C: Maximum conducted output power

### Test Result Peak

| Test Mode | Antenna | Frequency[MHz] | Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|-----------|---------|----------------|-----------------|----------------------|---------|
| 11B       | Ant1    | 2412           | 22.29           | ≤30.00               | PASS    |
|           |         | 2437           | 21.71           | ≤30.00               | PASS    |
|           |         | 2462           | 21.53           | ≤30.00               | PASS    |
| 11G       | Ant1    | 2412           | 22.28           | ≤30.00               | PASS    |
|           |         | 2437           | 22.10           | ≤30.00               | PASS    |
|           |         | 2462           | 22.02           | ≤30.00               | PASS    |
| 11N20     | Ant1    | 2412           | 22.31           | ≤30.00               | PASS    |
|           |         | 2437           | 22.26           | ≤30.00               | PASS    |
|           |         | 2462           | 21.94           | ≤30.00               | PASS    |



## Appendix D: Maximum power spectral density

### Test Result

| Test Mode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|-----------|---------|----------------|------------------|-----------------|---------|
| 11B       | Ant1    | 2412           | -3.97            | ≤8.00           | PASS    |
|           |         | 2437           | -3.86            | ≤8.00           | PASS    |
|           |         | 2462           | -3.98            | ≤8.00           | PASS    |
| 11G       | Ant1    | 2412           | -9.15            | ≤8.00           | PASS    |
|           |         | 2437           | -10.95           | ≤8.00           | PASS    |
|           |         | 2462           | -11.02           | ≤8.00           | PASS    |
| 11N20     | Ant1    | 2412           | -10.49           | ≤8.00           | PASS    |
|           |         | 2437           | -10.56           | ≤8.00           | PASS    |
|           |         | 2462           | -9.64            | ≤8.00           | PASS    |





## Test Graphs

11B\_Ant1\_2412



11B\_Ant1\_2437



11B\_Ant1\_2462

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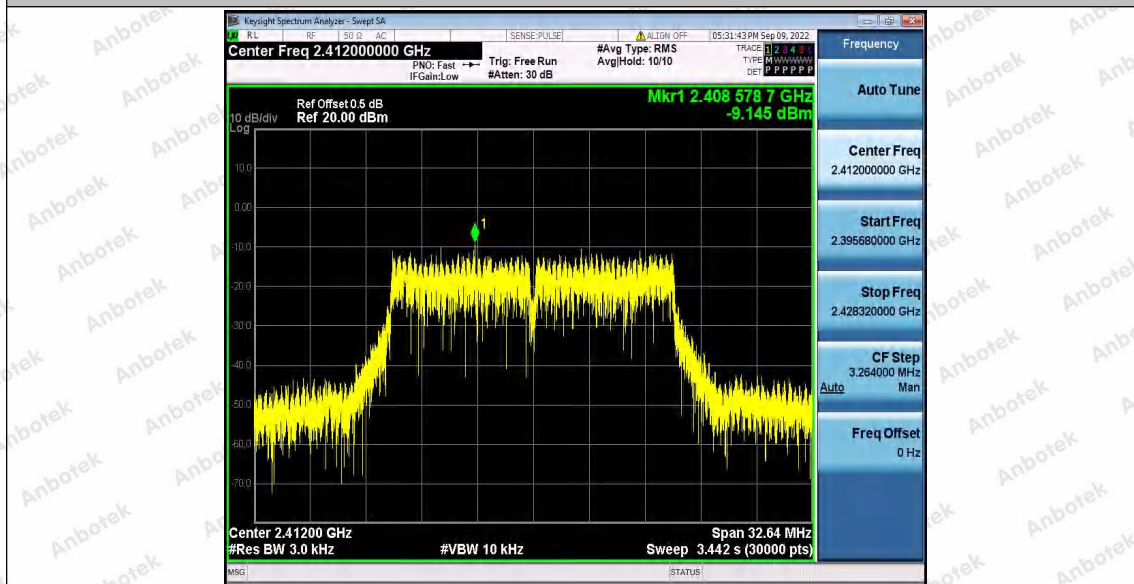


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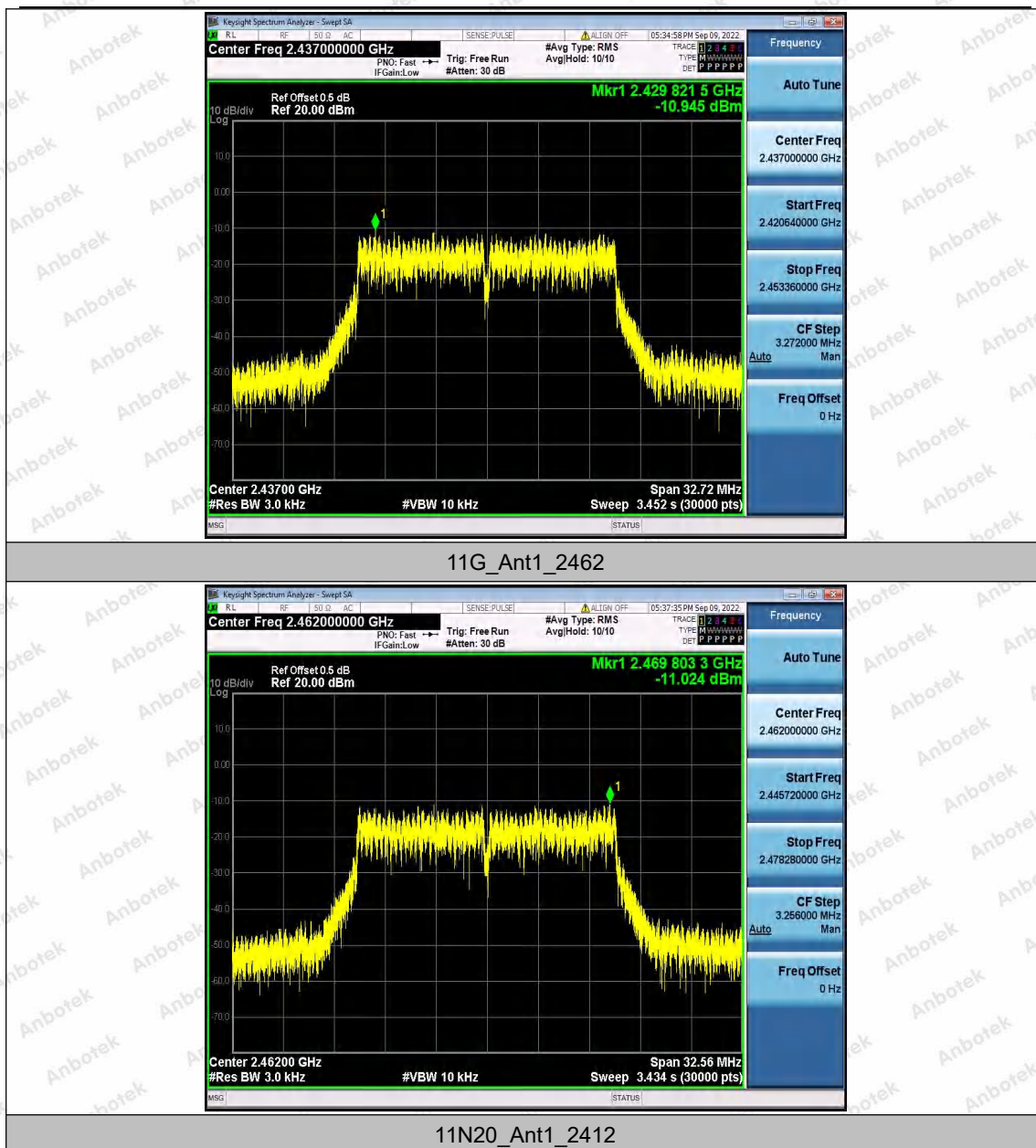
11G\_Ant1\_2412



11G\_Ant1\_2437







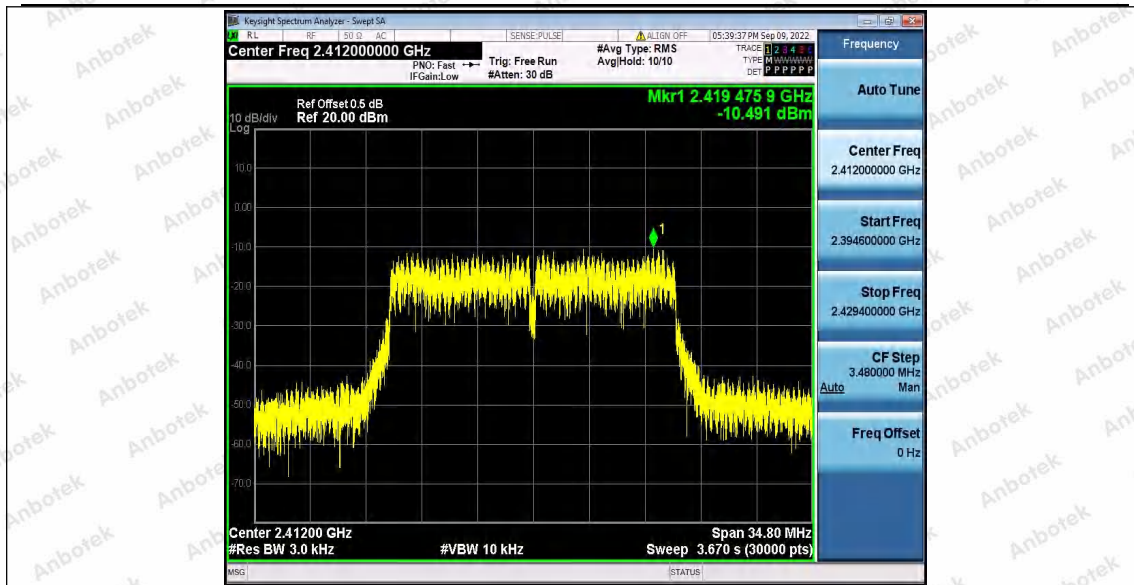
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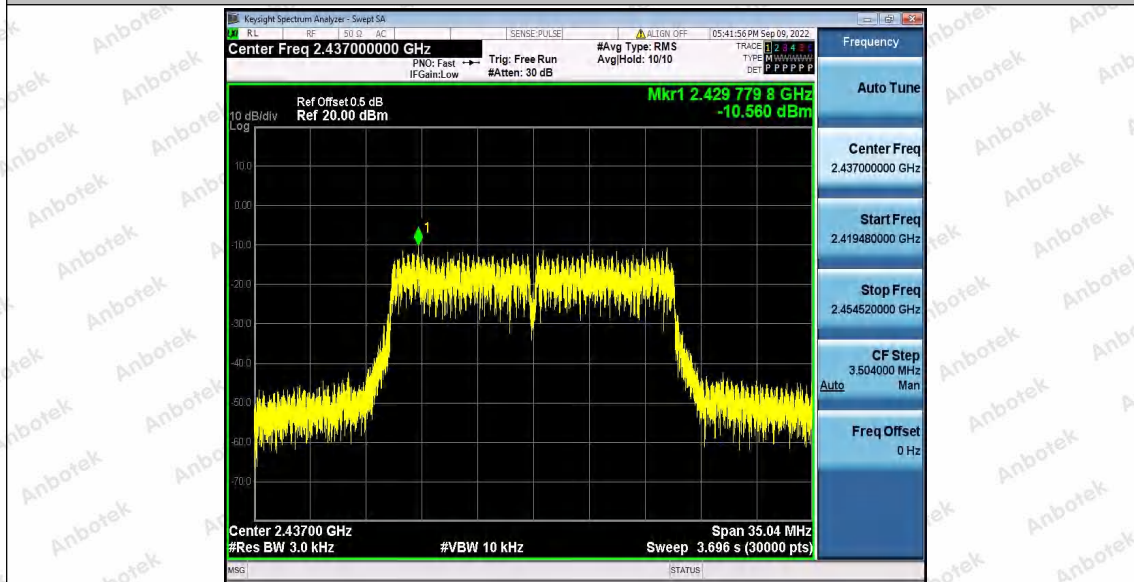


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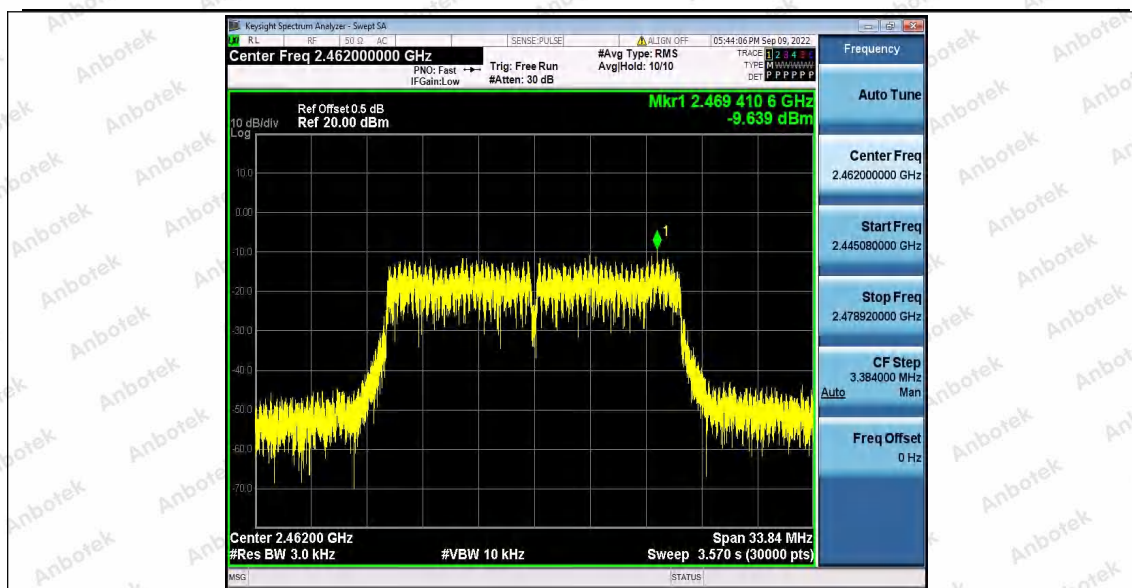
11N20\_Ant1\_2437



11N20\_Ant1\_2462







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## Appendix E: Band edge measurements

### Test Result

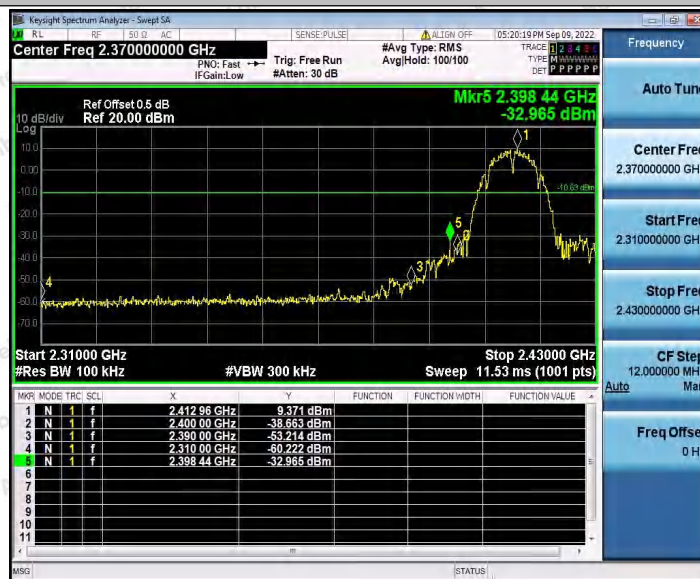
| Test Mode | Antenna | Ch Name | Frequency[MHz] | Ref Level[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|---------|----------------|----------------|-------------|------------|---------|
| 11B       | Ant1    | Low     | 2412           | 9.37           | -32.97      | ≤-10.63    | PASS    |
|           |         | High    | 2462           | 8.98           | -46.67      | ≤-11.02    | PASS    |
| 11G       | Ant1    | Low     | 2412           | 3.71           | -26.61      | ≤-16.29    | PASS    |
|           |         | High    | 2462           | 4.55           | -32.03      | ≤-15.45    | PASS    |
| 11N20     | Ant1    | Low     | 2412           | 4.30           | -28.36      | ≤-15.7     | PASS    |
|           |         | High    | 2462           | 4.40           | -30.85      | ≤-15.6     | PASS    |





## 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

| Test Mode | Antenna | Frequency[MHz] | Freq Range [Mhz] | Ref Level [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|----------------|------------------|-----------------|--------------|-------------|---------|
| 11B       | Ant1    | 2412           | Reference        | 9.51            | 9.51         | ---         | PASS    |
|           |         |                | 30~1000          | 9.51            | -66.62       | ≤-20.49     | PASS    |
|           |         |                | 1000~26500       | 9.51            | -38.92       | ≤-20.49     | PASS    |
|           |         | 2437           | Reference        | 8.21            | 8.21         | ---         | PASS    |
|           |         |                | 30~1000          | 8.21            | -66.73       | ≤-21.79     | PASS    |
|           |         |                | 1000~26500       | 8.21            | -41.93       | ≤-21.79     | PASS    |
|           |         | 2462           | Reference        | 9.03            | 9.03         | ---         | PASS    |
|           |         |                | 30~1000          | 9.03            | -66.77       | ≤-20.97     | PASS    |
|           |         |                | 1000~26500       | 9.03            | -39.77       | ≤-20.97     | PASS    |
| 11G       | Ant1    | 2412           | Reference        | 3.21            | 3.21         | ---         | PASS    |
|           |         |                | 30~1000          | 3.21            | -68.89       | ≤-26.79     | PASS    |
|           |         |                | 1000~26500       | 3.21            | -53.14       | ≤-26.79     | PASS    |
|           |         | 2437           | Reference        | 0.31            | 0.31         | ---         | PASS    |
|           |         |                | 30~1000          | 0.31            | -68.65       | ≤-29.69     | PASS    |
|           |         |                | 1000~26500       | 0.31            | -54.48       | ≤-29.69     | PASS    |
|           |         | 2462           | Reference        | 3.76            | 3.76         | ---         | PASS    |
|           |         |                | 30~1000          | 3.76            | -69.23       | ≤-26.24     | PASS    |
|           |         |                | 1000~26500       | 3.76            | -53.62       | ≤-26.24     | PASS    |
| 11N20     | Ant1    | 2412           | Reference        | 2.41            | 2.41         | ---         | PASS    |
|           |         |                | 30~1000          | 2.41            | -68.77       | ≤-27.59     | PASS    |
|           |         |                | 1000~26500       | 2.41            | -54.71       | ≤-27.59     | PASS    |
|           |         | 2437           | Reference        | 1.77            | 1.77         | ---         | PASS    |
|           |         |                | 30~1000          | 1.77            | -69.18       | ≤-28.23     | PASS    |
|           |         |                | 1000~26500       | 1.77            | -52.81       | ≤-28.23     | PASS    |
|           |         | 2462           | Reference        | 3.37            | 3.37         | ---         | PASS    |
|           |         |                | 30~1000          | 3.37            | -69.08       | ≤-26.63     | PASS    |
|           |         |                | 1000~26500       | 3.37            | -54.32       | ≤-26.63     | PASS    |



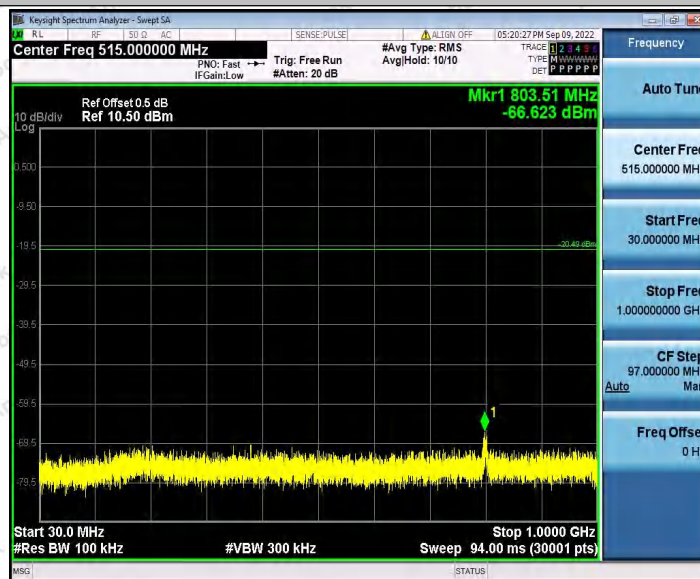


## Test Graphs

11B\_Ant1\_2412\_0~Reference



11B\_Ant1\_2412\_30~1000



11B\_Ant1\_2412\_1000~26500

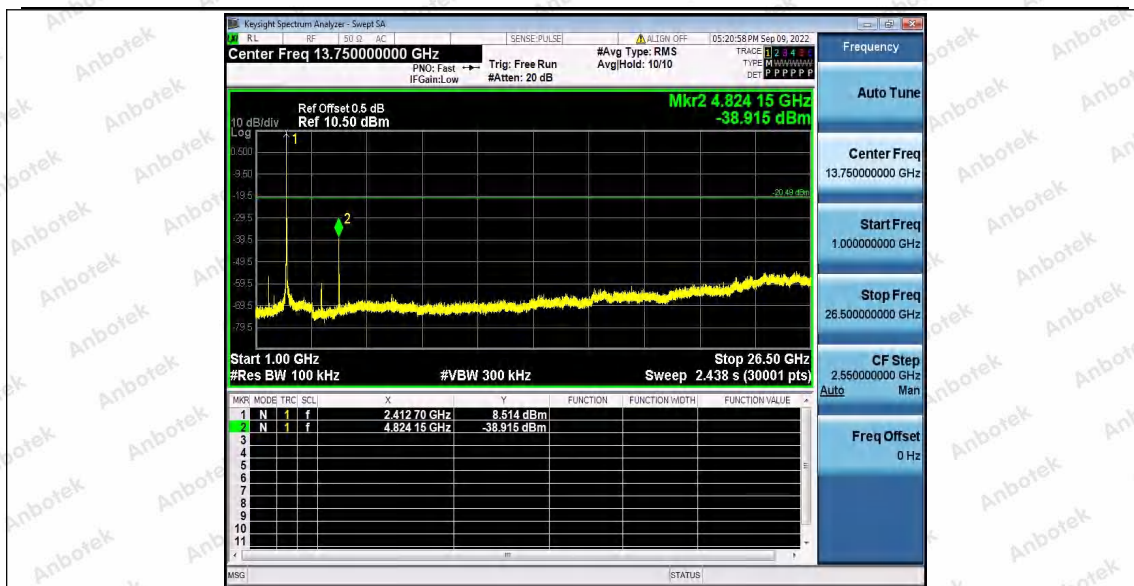
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11B\_Ant1\_2437\_0~Reference



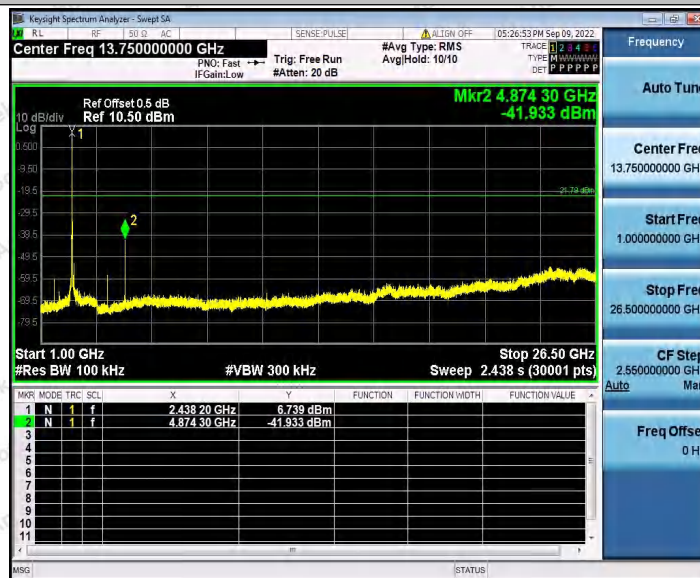
11B\_Ant1\_2437\_30~1000







11B\_Ant1\_2437\_1000~26500



11B\_Ant1\_2462\_0~Reference

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11B\_Ant1\_2462\_30~1000



11B\_Ant1\_2462\_1000~26500

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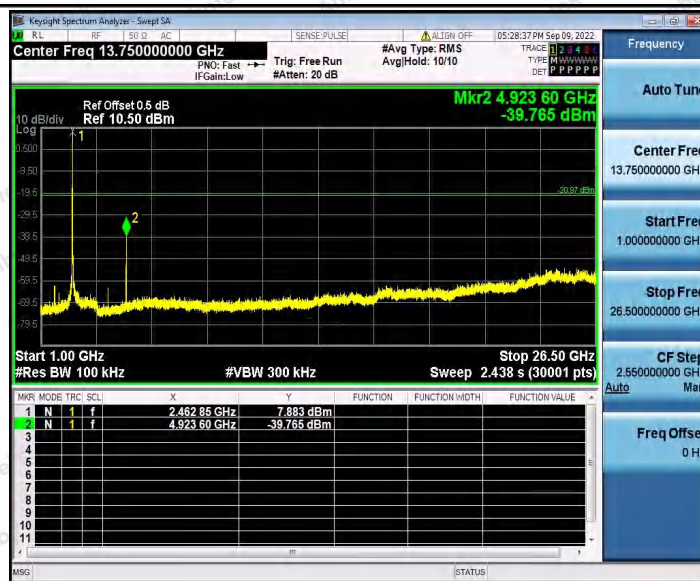
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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11G\_Ant1\_2412\_0~Reference



11G\_Ant1\_2412\_30~1000

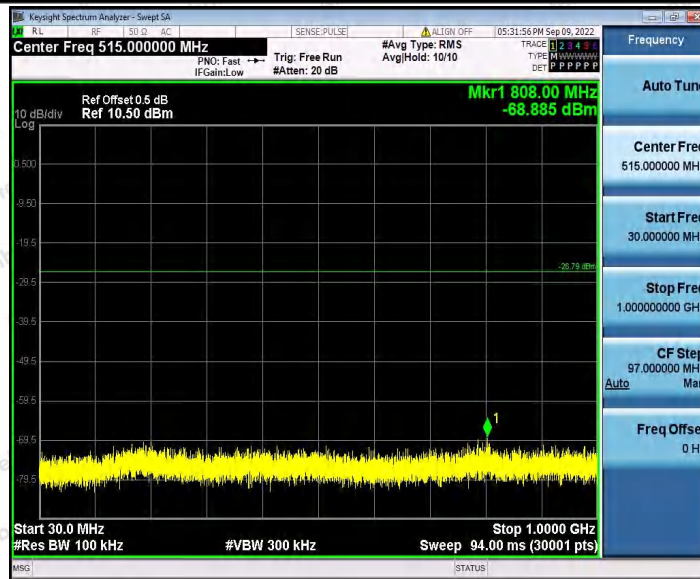
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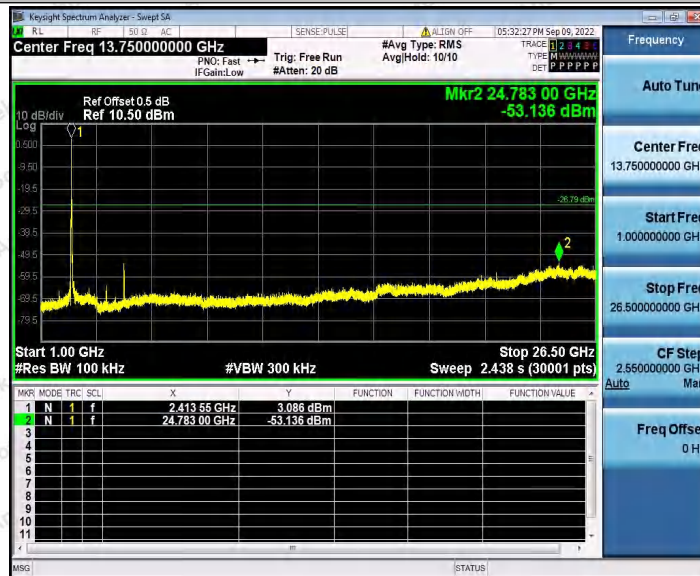


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11G\_Ant1\_2412\_1000~26500



11G\_Ant1\_2437\_0~Reference

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11G\_Ant1\_2437\_30~1000



11G\_Ant1\_2437\_1000~26500

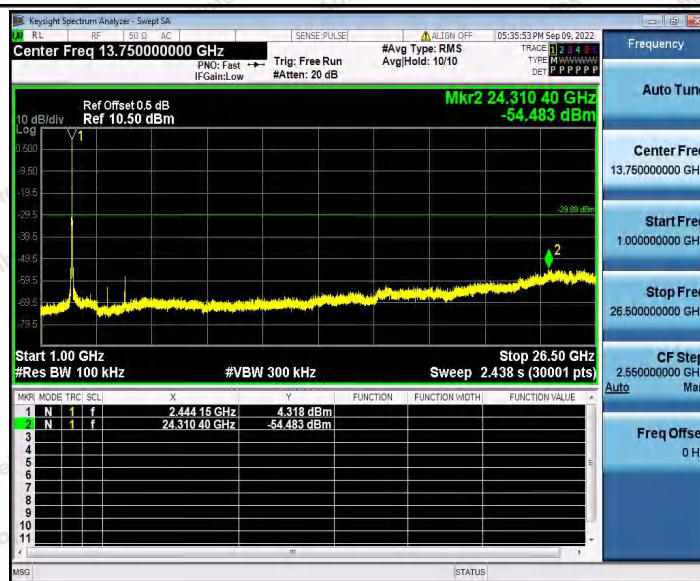
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11G\_Ant1\_2462\_0~Reference



11G\_Ant1\_2462\_30~1000

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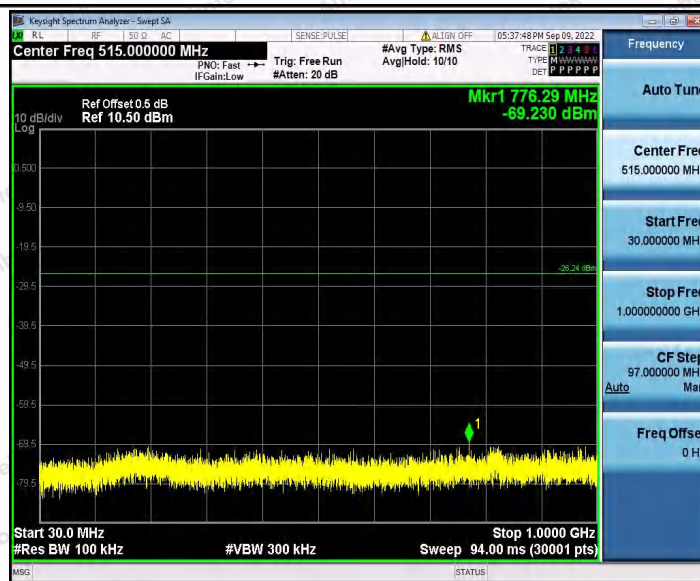
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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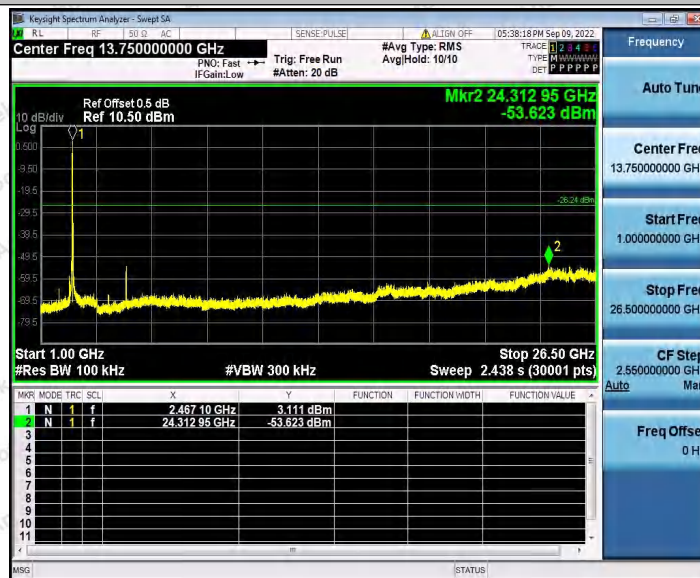
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11G\_Ant1\_2462\_1000~26500

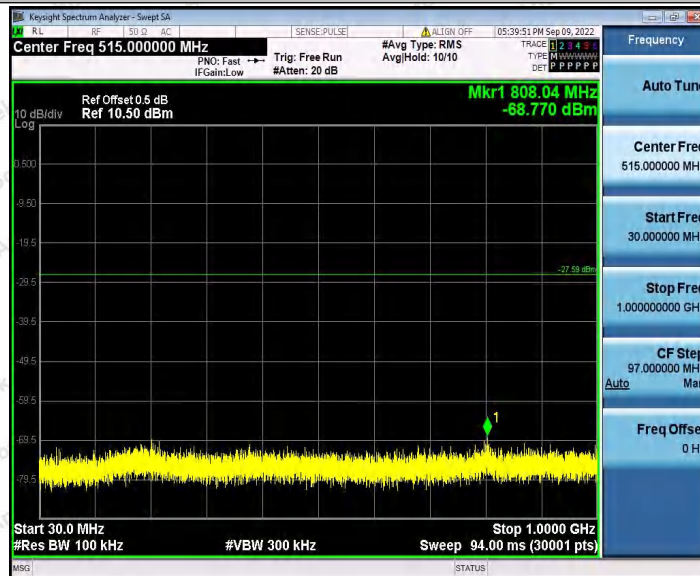


11N20\_Ant1\_2412\_0~Reference





11N20\_Ant1\_2412\_30~1000



11N20\_Ant1\_2412\_1000~26500

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11N20\_Ant1\_2437\_0~Reference



11N20\_Ant1\_2437\_30~1000

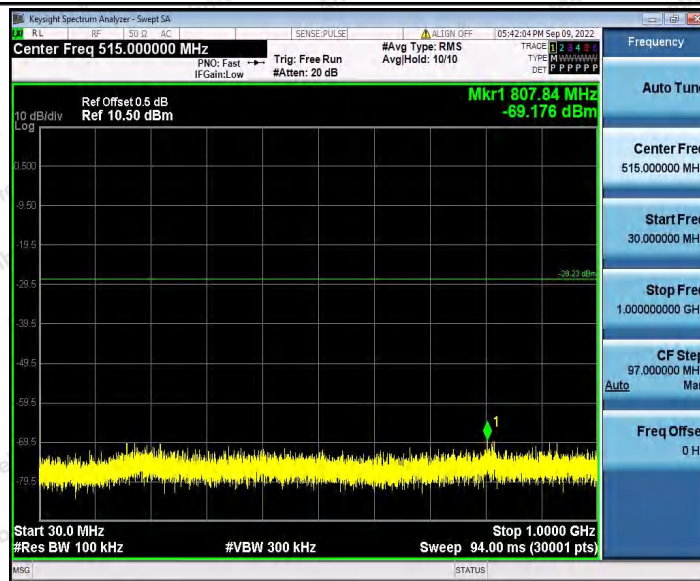
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11N20\_Ant1\_2437\_1000~26500



11N20\_Ant1\_2462\_0~Reference

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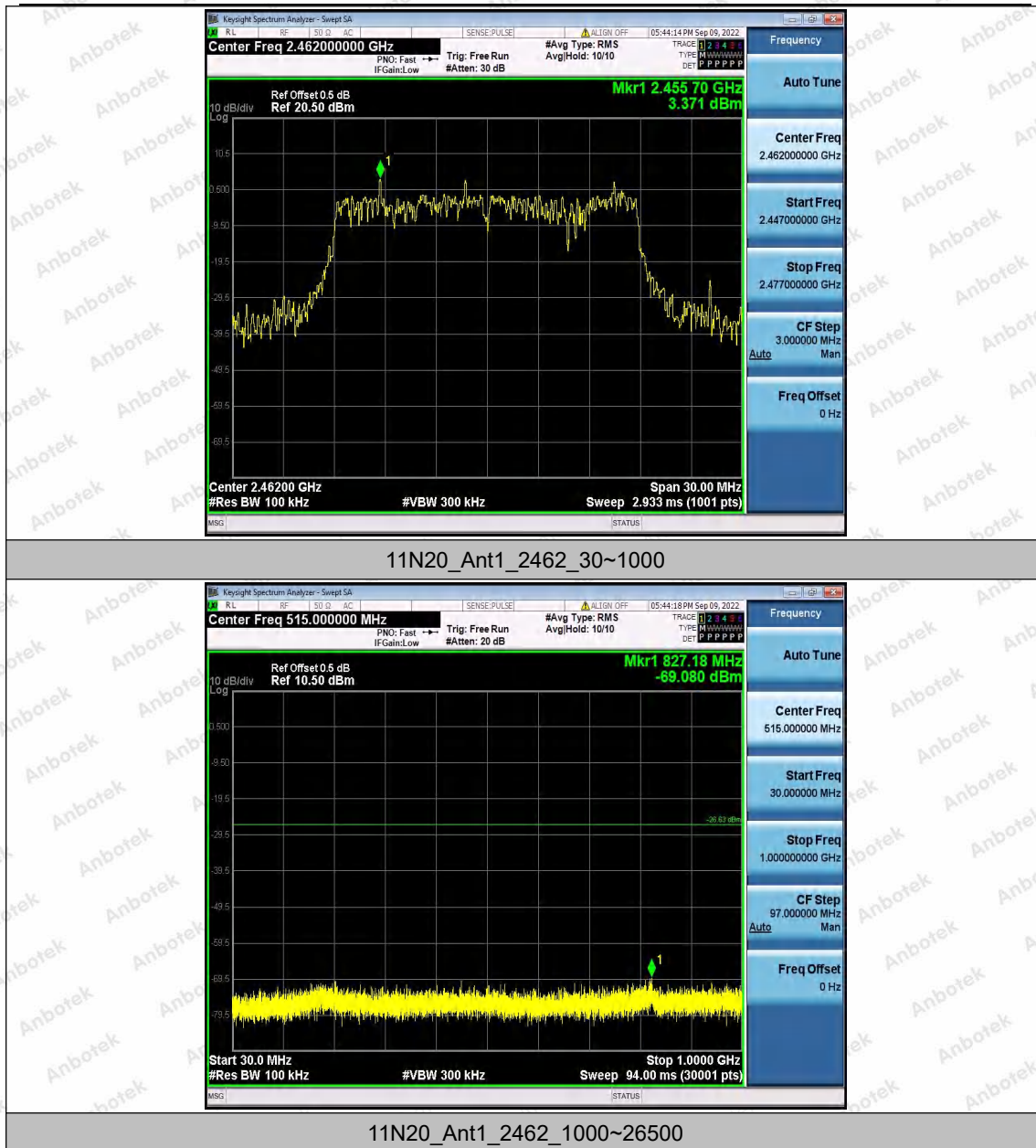
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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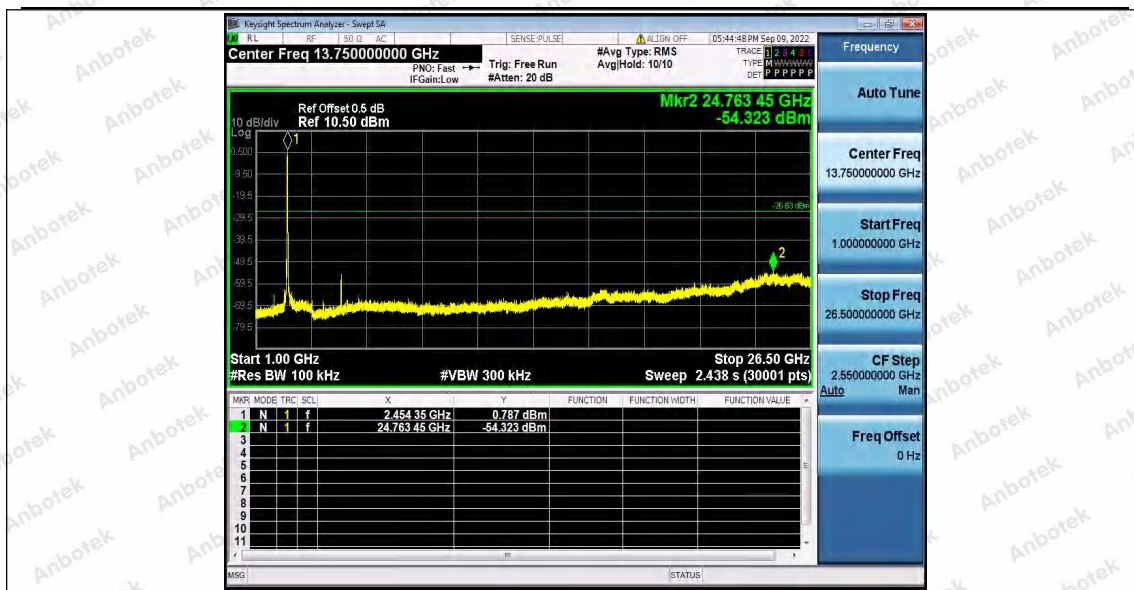
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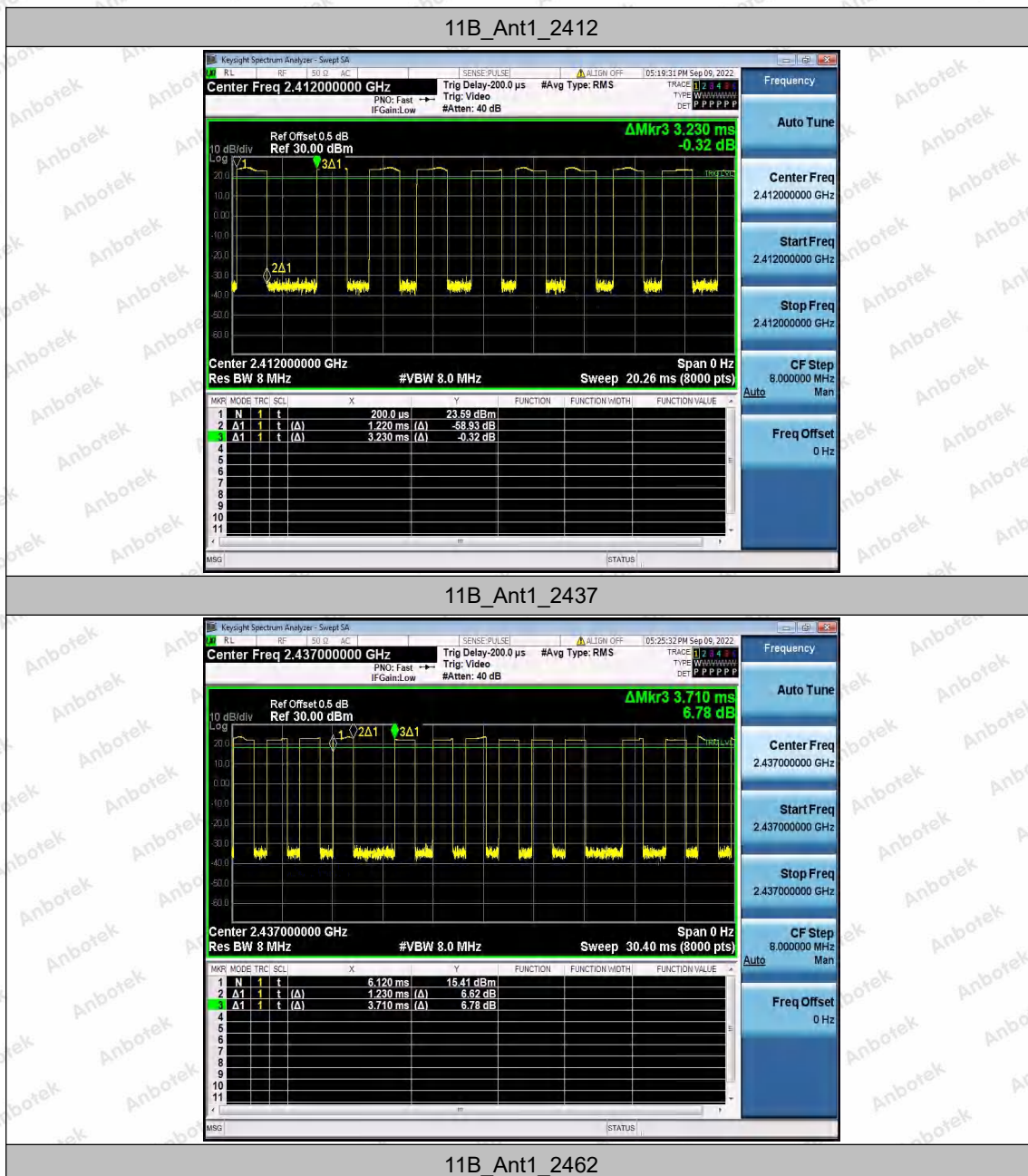
## Appendix G: Duty Cycle

### Test Result

| Test Mode | Antenna | Frequency[MHz] | Transmission Duration [ms] | Transmission Period [ms] | Duty Cycle [%] | Factor |
|-----------|---------|----------------|----------------------------|--------------------------|----------------|--------|
| 11B       | Ant1    | 2412           | 1.22                       | 3.23                     | 37.77          | 4.23   |
|           |         | 2437           | 1.23                       | 3.71                     | 33.15          | 4.80   |
|           |         | 2462           | 1.22                       | 2.02                     | 60.40          | 2.19   |
| 11G       | Ant1    | 2412           | 0.55                       | 1.53                     | 35.95          | 4.44   |
|           |         | 2437           | 0.54                       | 1.82                     | 29.67          | 5.28   |
|           |         | 2462           | 0.55                       | 1.01                     | 54.46          | 2.64   |
| 11N20     | Ant1    | 2412           | 0.55                       | 1.70                     | 32.35          | 4.90   |
|           |         | 2437           | 0.55                       | 4.14                     | 13.29          | 8.76   |
|           |         | 2462           | 0.55                       | 1.29                     | 42.64          | 3.70   |



## Test Graphs



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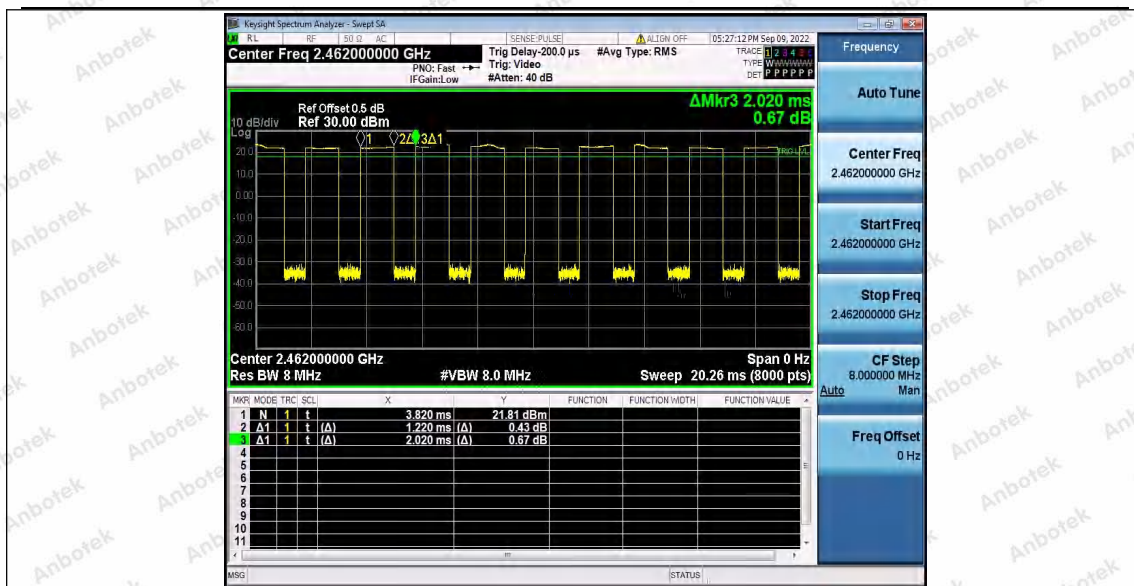
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



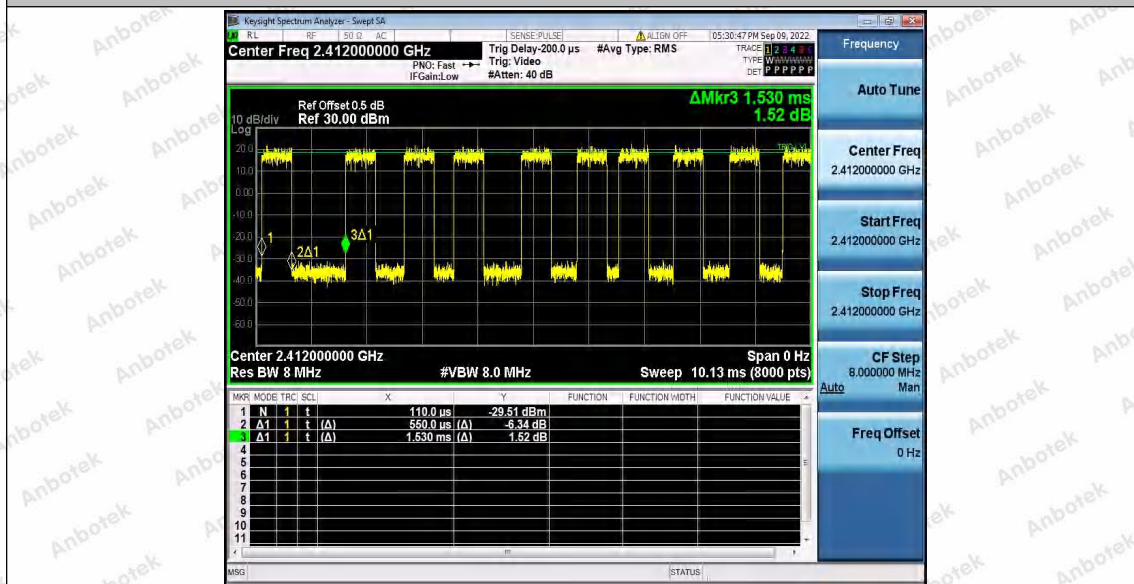
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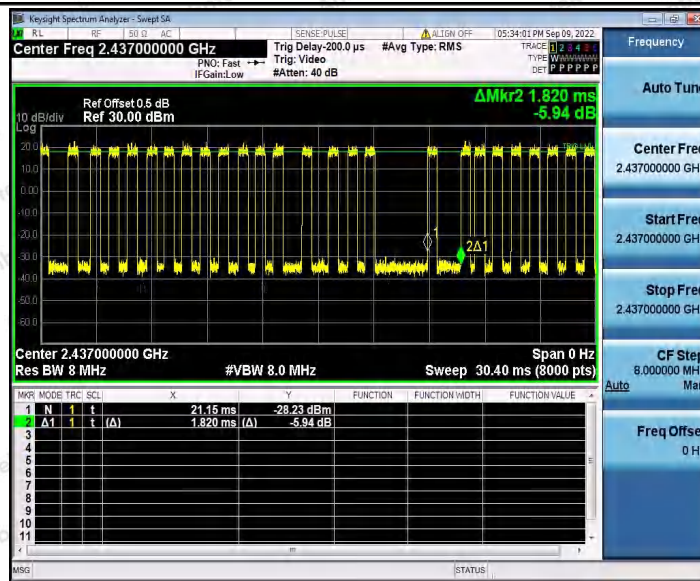


11G\_Ant1\_2412

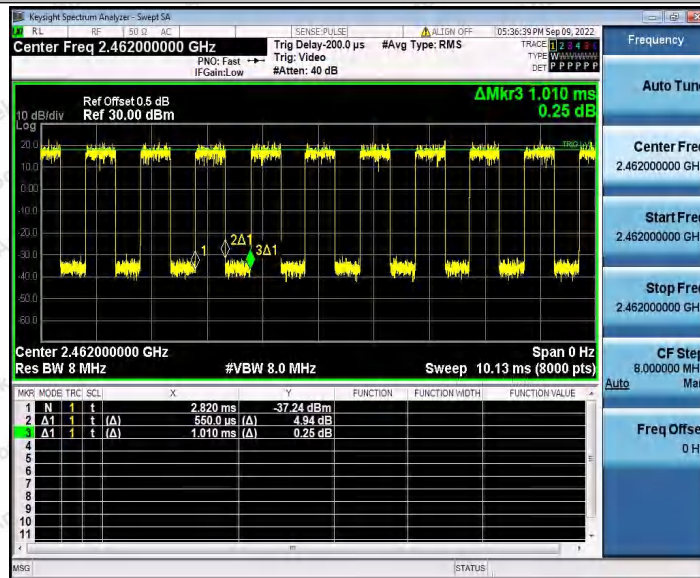


11G\_Ant1\_2437





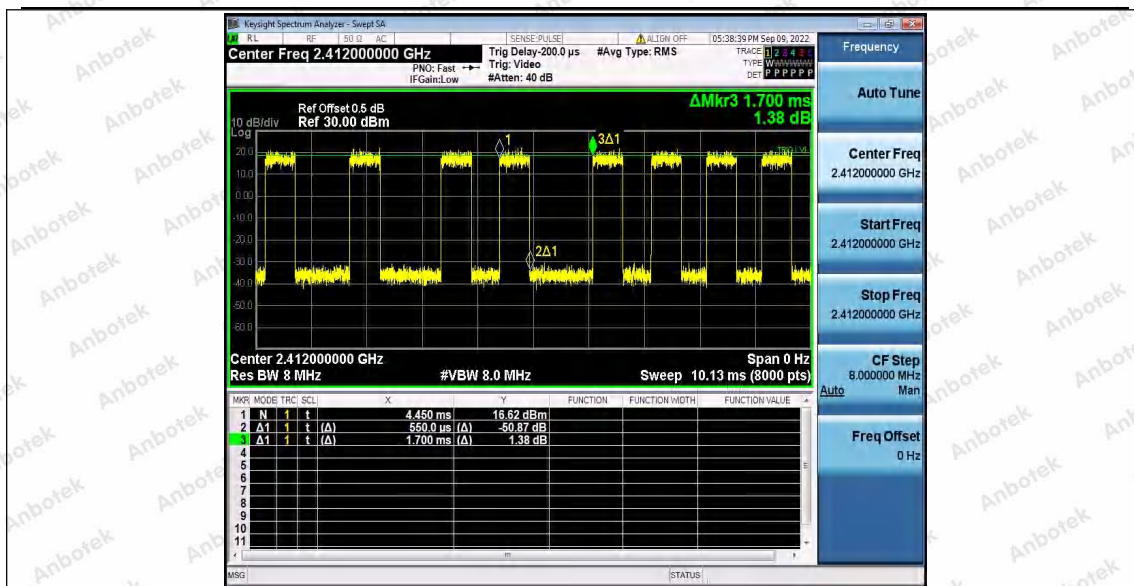
11G\_Ant1\_2462



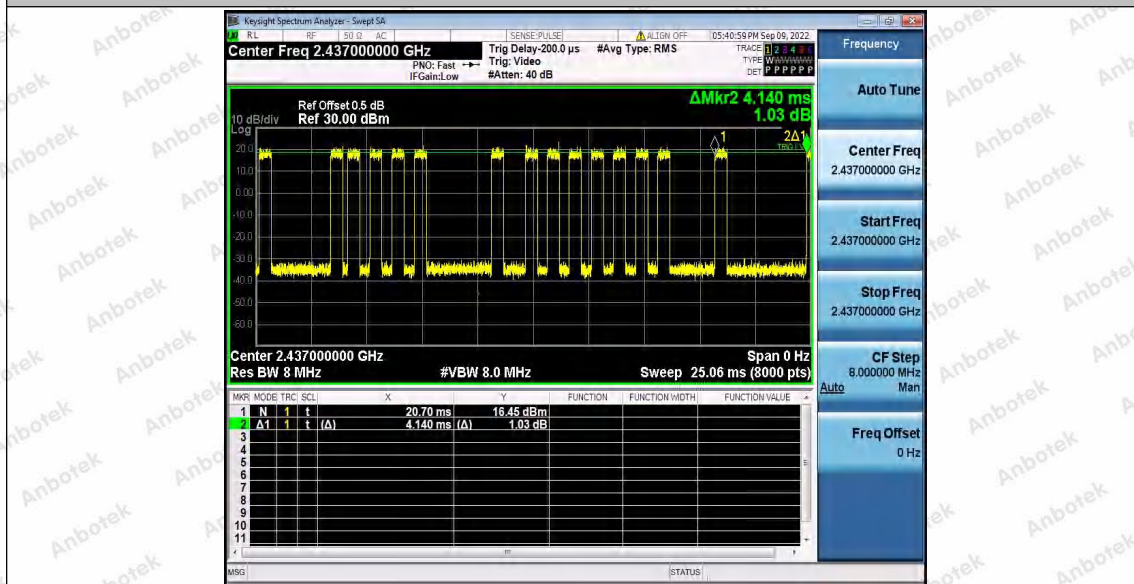
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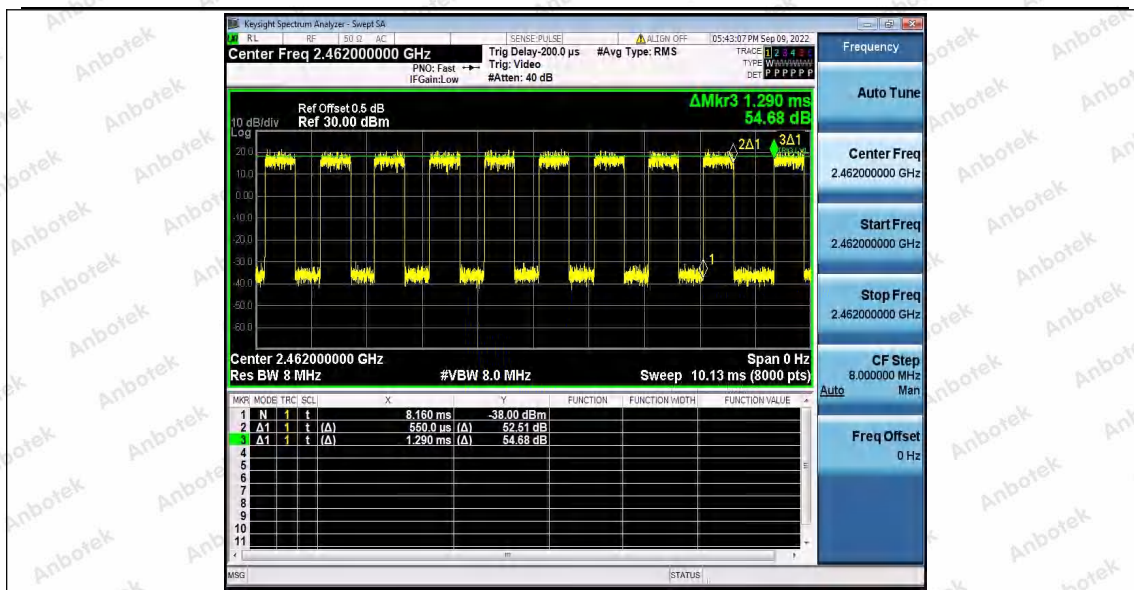


11N20\_Ant1\_2437



11N20\_Ant1\_2462





---End---

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