

Appendix Test Data\_ANT2

|                  |                  |                    |             |
|------------------|------------------|--------------------|-------------|
| Report No.:      | 1812C40076212503 | Test Sample No.:   | 1-2-2       |
| Start Test Date: | 2024.09.24       | Finish Test Date:  | 2024.09.26  |
| Test Engineer:   | Joker Huang      | Auditor:           | Justin Feng |
| Temperature:     | 25.5℃            | Relative Humidity: | 47%         |
| Pressure:        | 101kPa           |                    |             |

Appendix A: 20dB Bandwidth

Test Result

| TestMode | Antenna | Frequency[MHz] | 20db<br>EBW[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|----------------|------------------|----------|----------|------------|---------|
| 2.4G     | Ant2    | 2402.4         | 0.951            | 2401.920 | 2402.871 | ---        | ---     |
| 2.4G     | Ant2    | 2441.4         | 0.939            | 2440.938 | 2441.877 | ---        | ---     |
| 2.4G     | Ant2    | 2479.4         | 0.918            | 2478.944 | 2479.862 | ---        | ---     |



## Test Graphs



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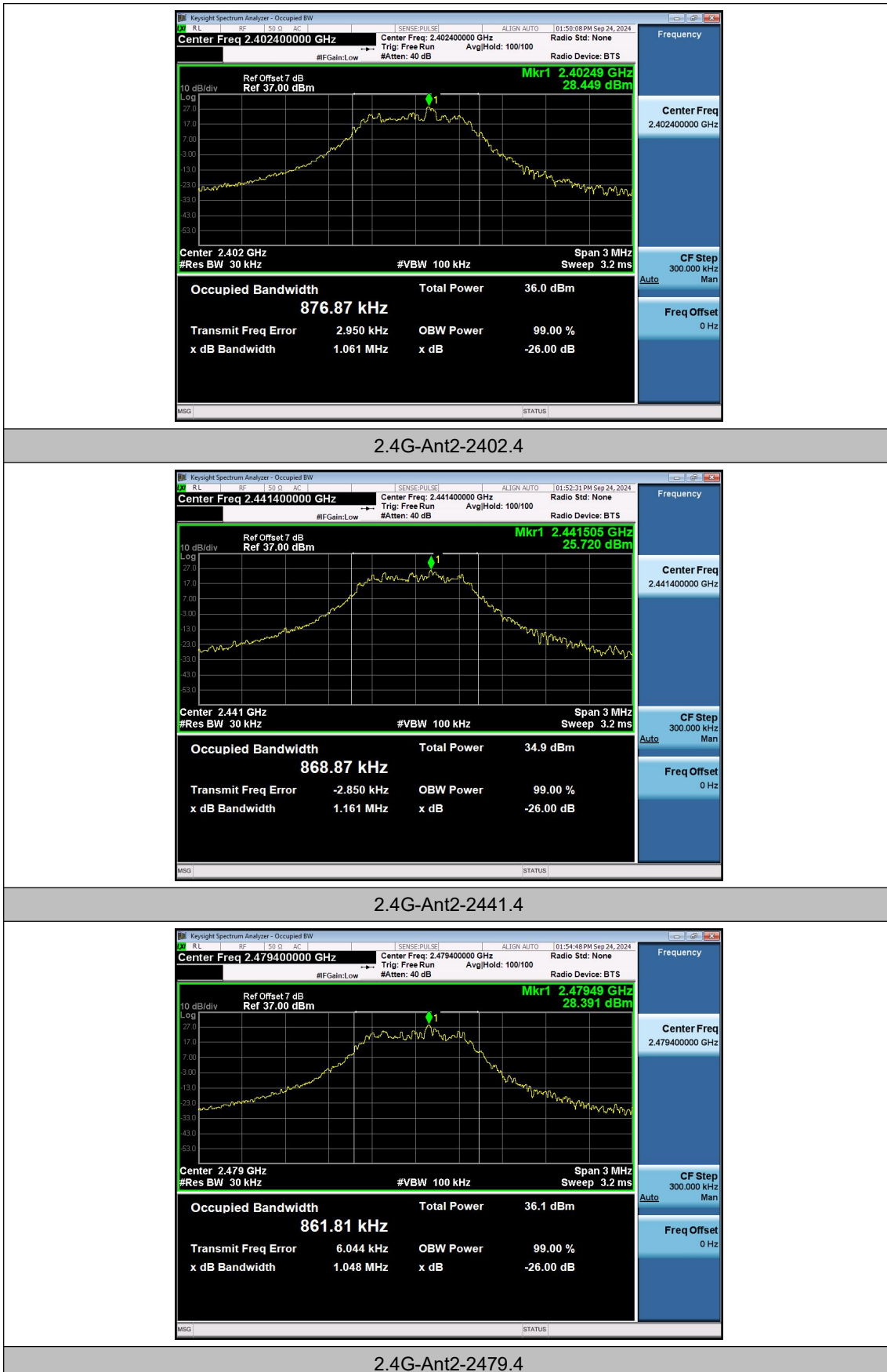
Appendix B: 99% Occupied Bandwidth

Test Result

| TestMode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|----------|---------|----------------|-----------|-----------|-----------|------------|---------|
| 2.4G     | Ant2    | 2402.4         | 0.87687   | 2401.9645 | 2402.8414 | ---        | ---     |
| 2.4G     | Ant2    | 2441.4         | 0.86887   | 2440.9627 | 2441.8316 | ---        | ---     |
| 2.4G     | Ant2    | 2479.4         | 0.86181   | 2478.9751 | 2479.8369 | ---        | ---     |



## Test Graphs



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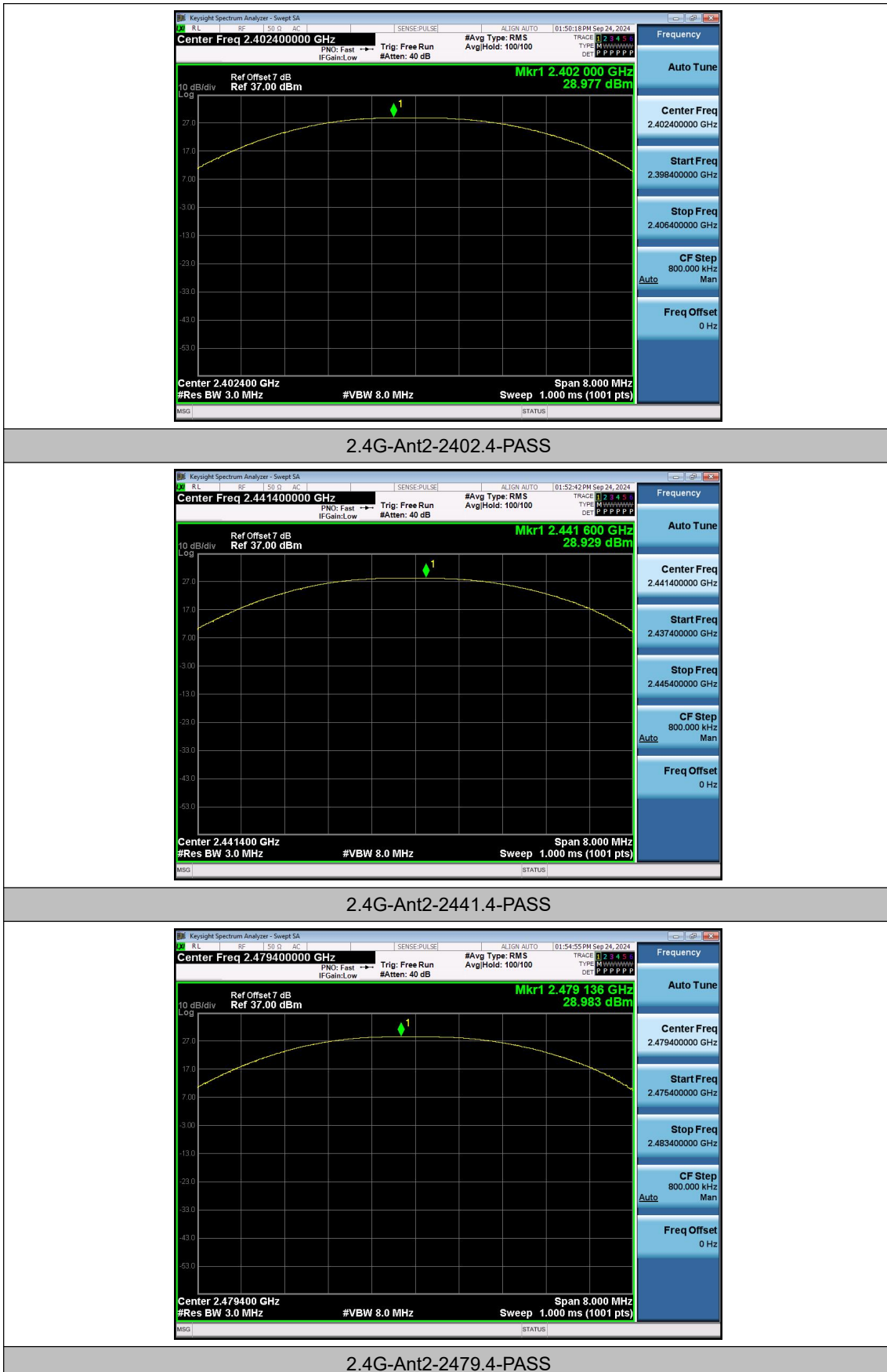
## Appendix C: Maximum Conducted Output Power

### Test Result Peak

| Test Mode | Antenna | Frequency[MHz] | Conducted Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|-----------|---------|----------------|---------------------------|----------------------|---------|
| 2.4G      | Ant2    | 2402.4         | 28.98                     | ≤30                  | PASS    |
| 2.4G      | Ant2    | 2441.4         | 28.93                     | ≤30                  | PASS    |
| 2.4G      | Ant2    | 2479.4         | 28.98                     | ≤30                  | PASS    |



## Test Graphs



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**Appendix D: Carrier frequency separation**

**Test Result**

| TestMode | Antenna | Frequency[MHz] | Result[MHz] | Limit[MHz] | Verdict |
|----------|---------|----------------|-------------|------------|---------|
| 2.4G     | Ant2    | Hop            | 1           | ≥0.951     | PASS    |

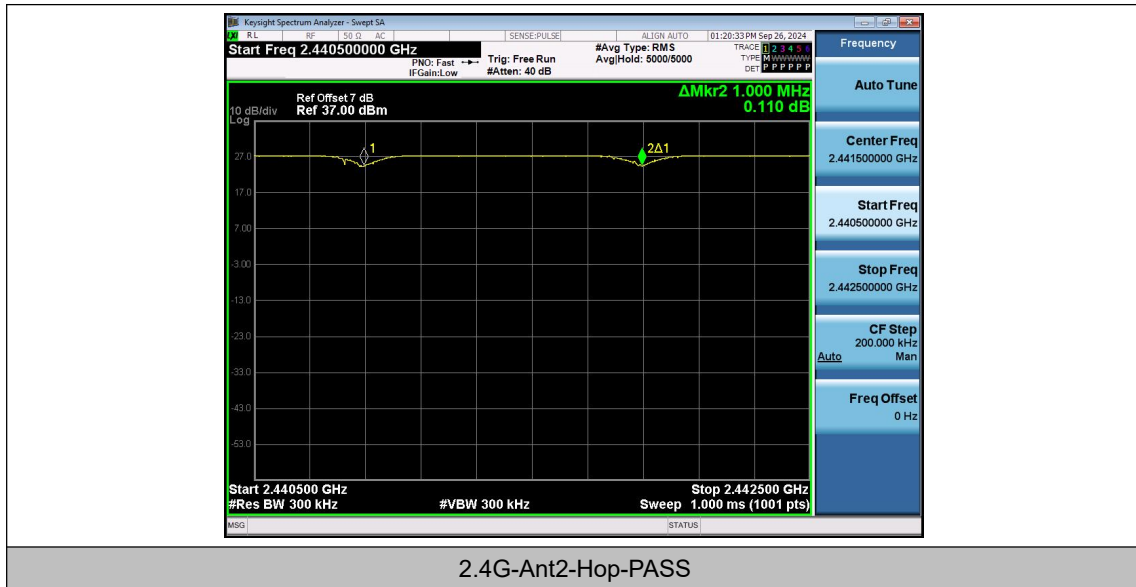
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## Test Graphs



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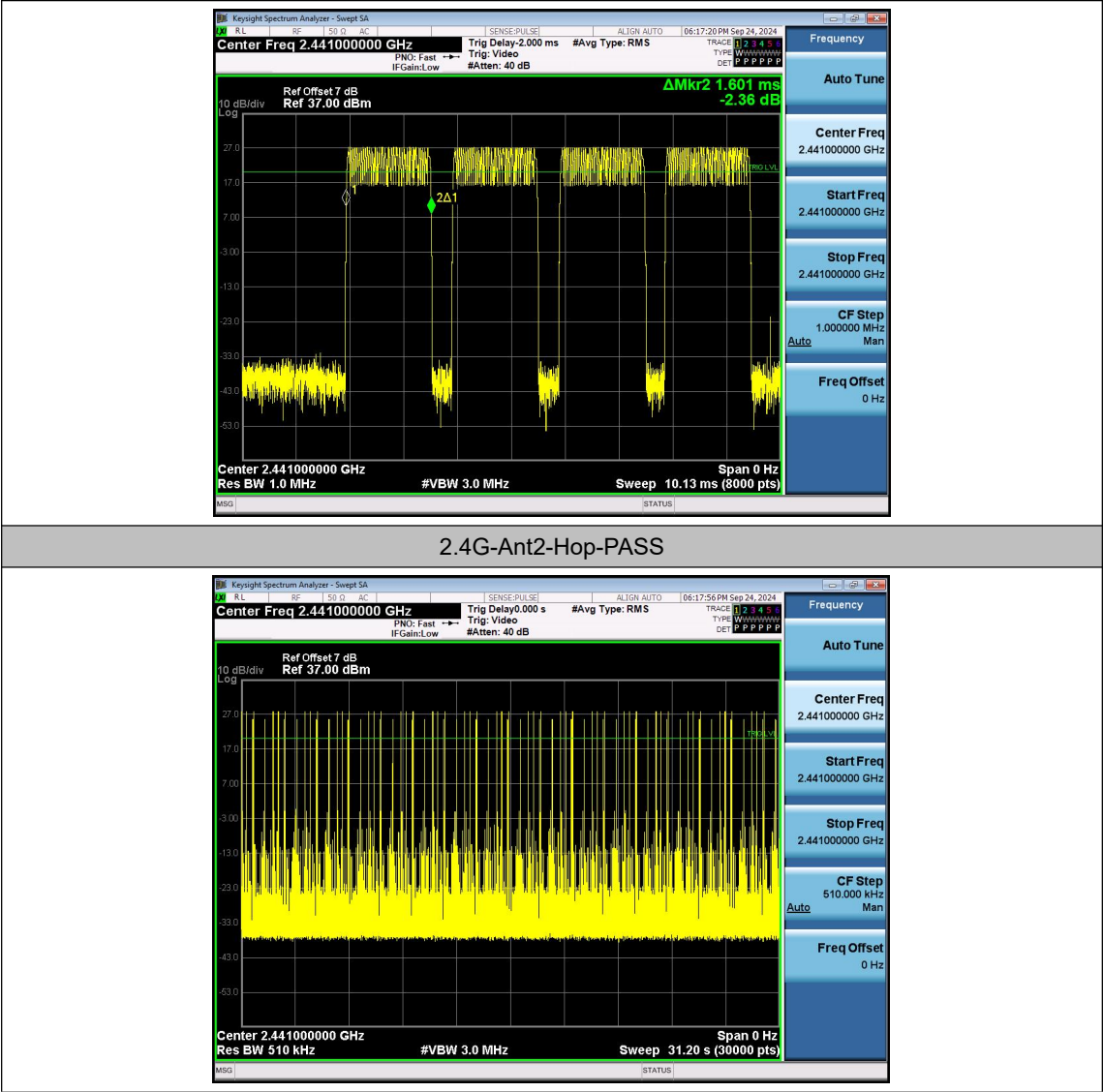
**Appendix E: Dwell Time**

**Test Result**

| TestMode | Antenna | Frequency[MHz] | BurstWidth<br>[ms] | TotalHops<br>[Num] | Result[s] | Limit[s] | Verdict |
|----------|---------|----------------|--------------------|--------------------|-----------|----------|---------|
| 2.4G     | Ant2    | Hop            | 1.601              | 85                 | 0.136     | ≤0.4     | PASS    |



Test Graphs



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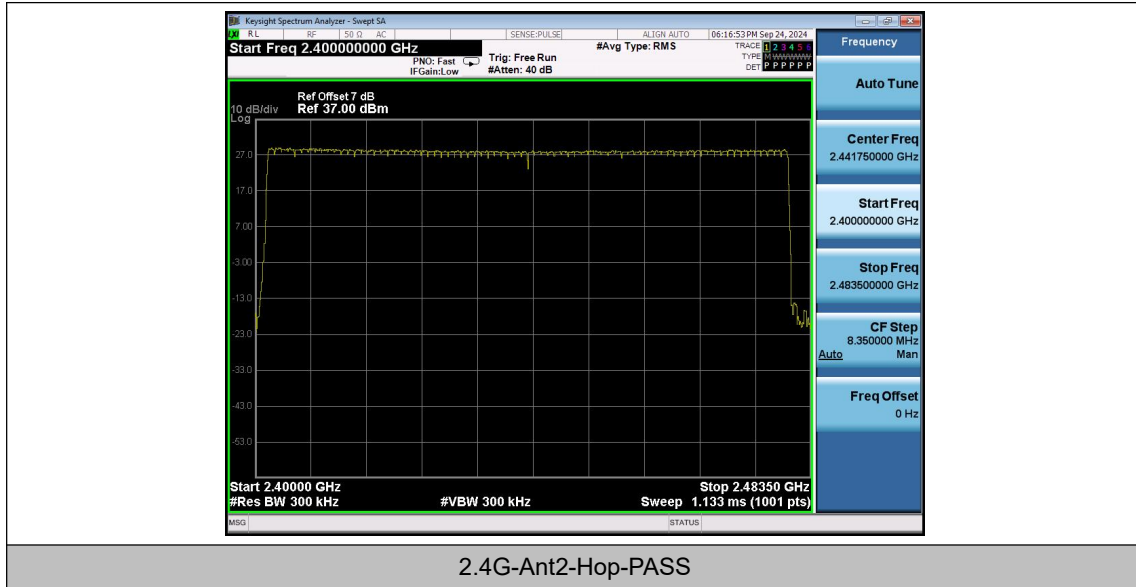
**Appendix F: Number of Hopping Channel**

**Test Result**

| TestMode | Antenna | Frequency[MHz] | Result[Num] | Limit[Num] | Verdict |
|----------|---------|----------------|-------------|------------|---------|
| 2.4G     | Ant2    | Hop            | 78          | ≥15        | PASS    |



## Test Graphs



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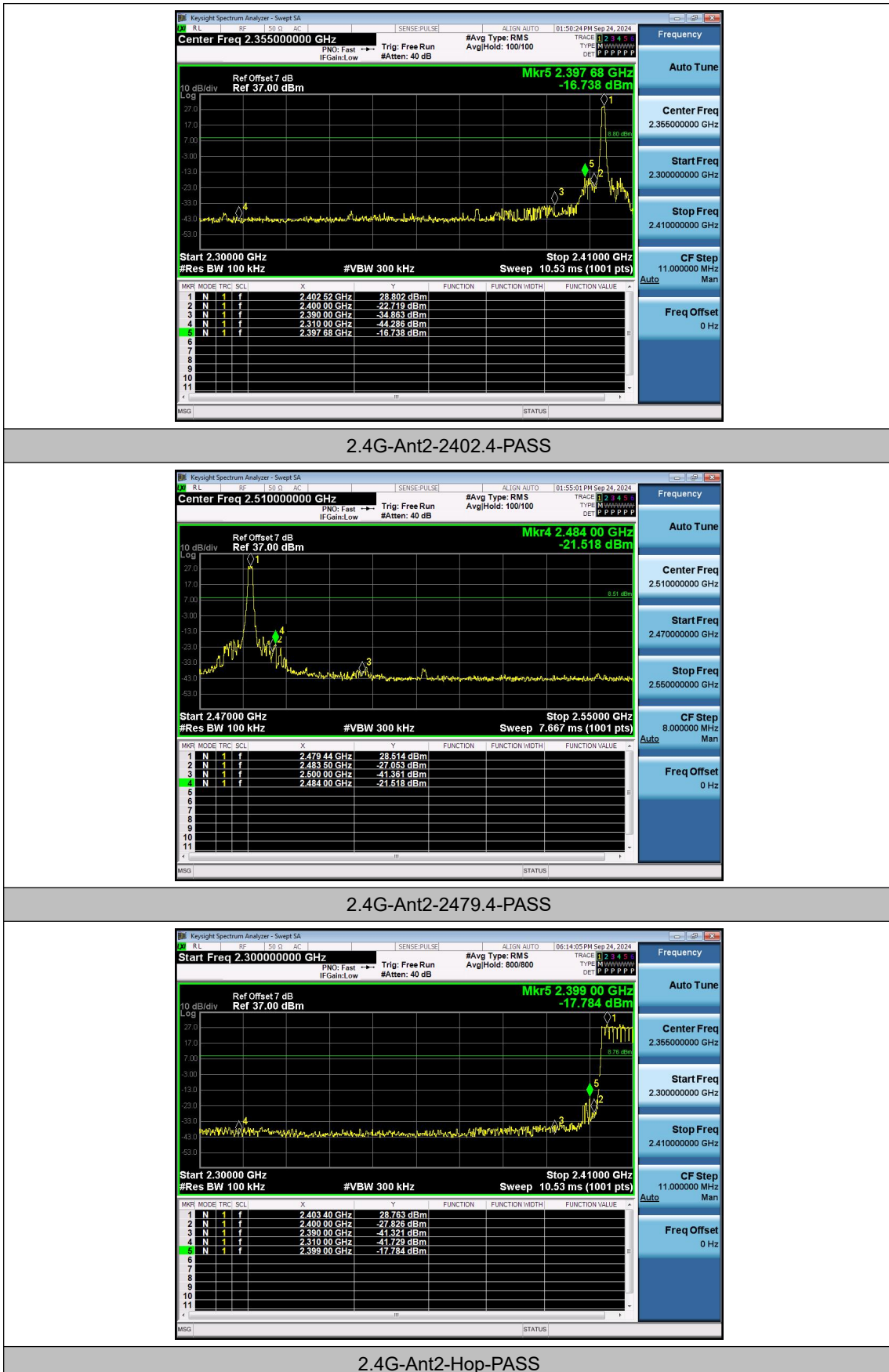
## Appendix G: Conducted Band edge

### Test Result

| TestMode | Antenna | ChName | Frequency[MHz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|----------|---------|--------|----------------|----------------|--------------|-------------|---------|
| 2.4G     | Ant2    | Low    | 2402.4         | 28.80          | -16.74       | ≤8.8        | PASS    |
| 2.4G     | Ant2    | High   | 2479.4         | 28.51          | -21.52       | ≤8.51       | PASS    |
| 2.4G     | Ant2    | Low    | Hop            | 28.76          | -17.78       | ≤8.76       | PASS    |
| 2.4G     | Ant2    | High   | Hop            | 28.35          | -31.25       | ≤8.35       | PASS    |



## Test Graphs

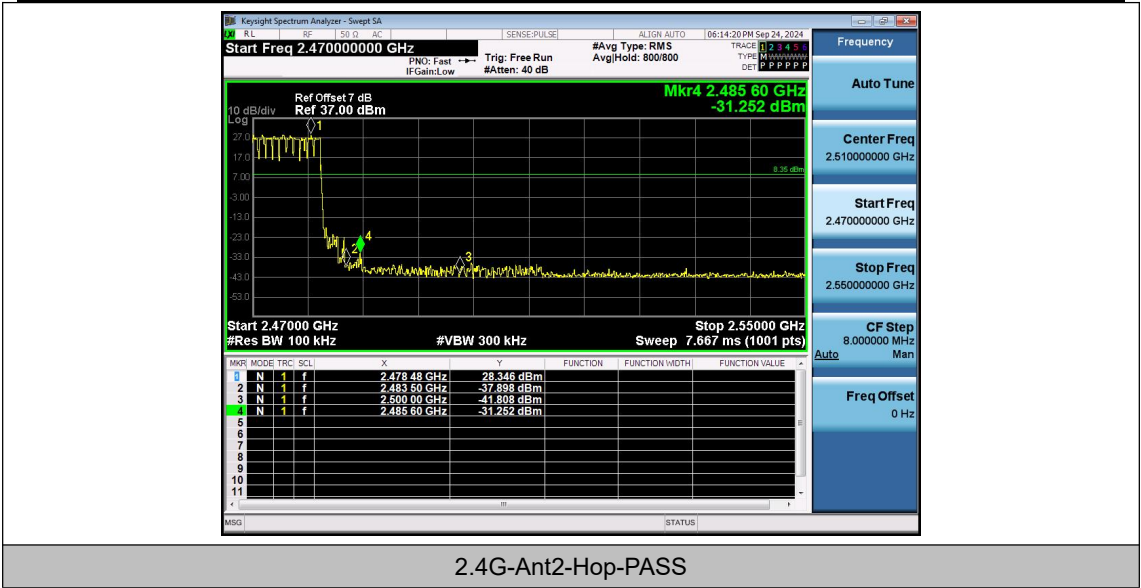


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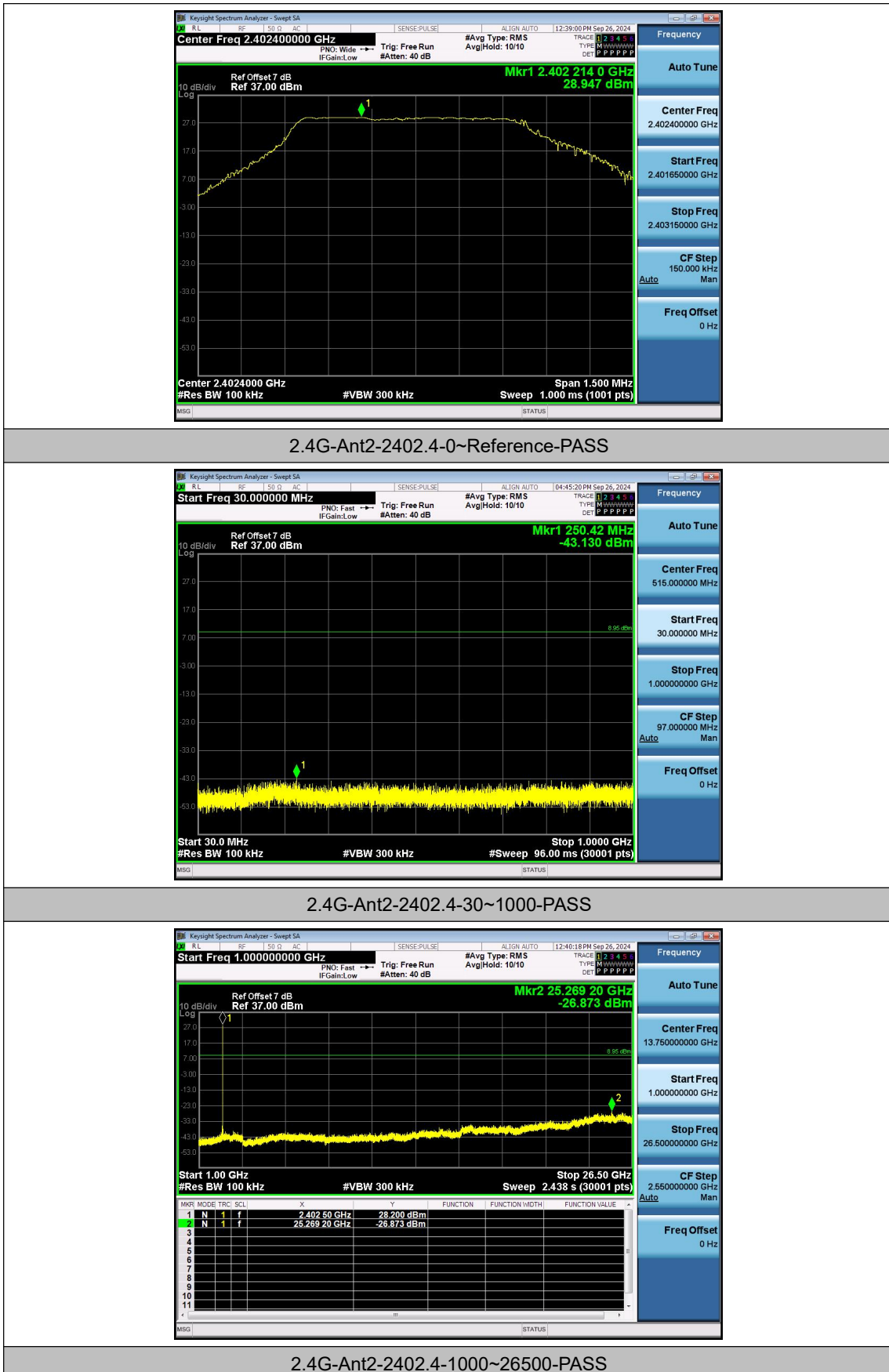
## Appendix H: Conducted Spurious Emission

### Test Result

| TestMode | Antenna | Frequency[MHz] | FreqRange [MHz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|----------|---------|----------------|-----------------|----------------|--------------|-------------|---------|
| 2.4G     | Ant2    | 2402.4         | 0~Reference     | 28.95          | 28.95        | ---         | PASS    |
| 2.4G     | Ant2    | 2402.4         | 30~1000         | 28.95          | -43.13       | ≤8.95       | PASS    |
| 2.4G     | Ant2    | 2402.4         | 1000~26500      | 28.95          | -26.87       | ≤8.95       | PASS    |
| 2.4G     | Ant2    | 2441.4         | 0~Reference     | 28.75          | 28.75        | ---         | PASS    |
| 2.4G     | Ant2    | 2441.4         | 30~1000         | 28.75          | -42.79       | ≤8.75       | PASS    |
| 2.4G     | Ant2    | 2441.4         | 1000~26500      | 28.75          | -27.76       | ≤8.75       | PASS    |
| 2.4G     | Ant2    | 2479.4         | 0~Reference     | 28.68          | 28.68        | ---         | PASS    |
| 2.4G     | Ant2    | 2479.4         | 30~1000         | 28.68          | -42.10       | ≤8.68       | PASS    |
| 2.4G     | Ant2    | 2479.4         | 1000~26500      | 28.68          | -28.06       | ≤8.68       | PASS    |



## Test Graphs



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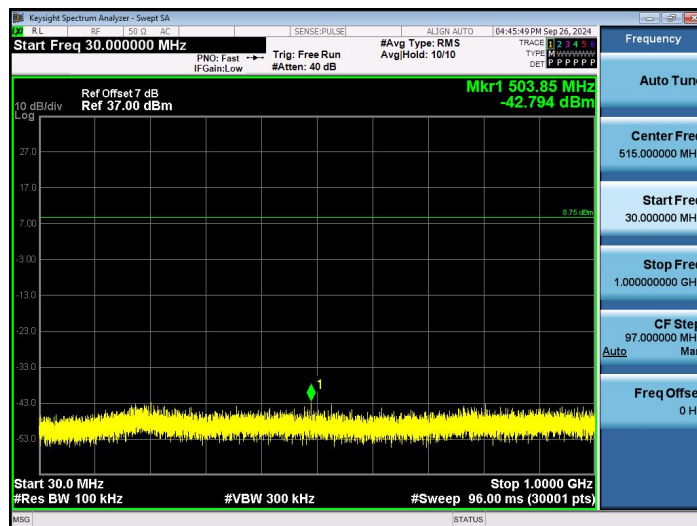
Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China  
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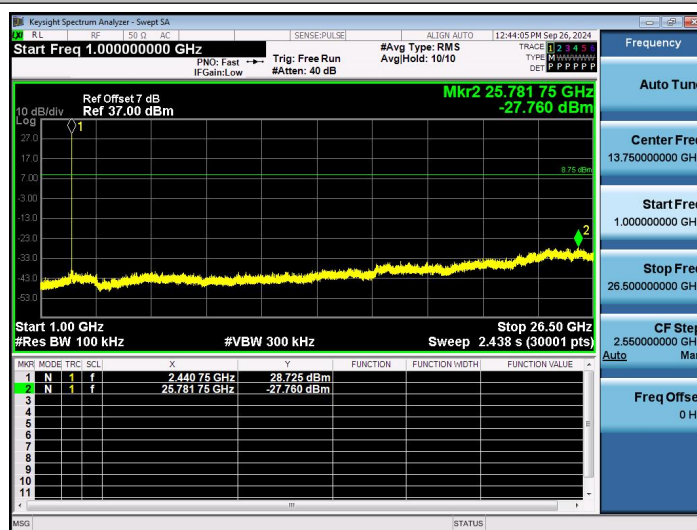




2.4G-Ant2-2441.4-0~Reference-PASS



2.4G-Ant2-2441.4-30~1000-PASS

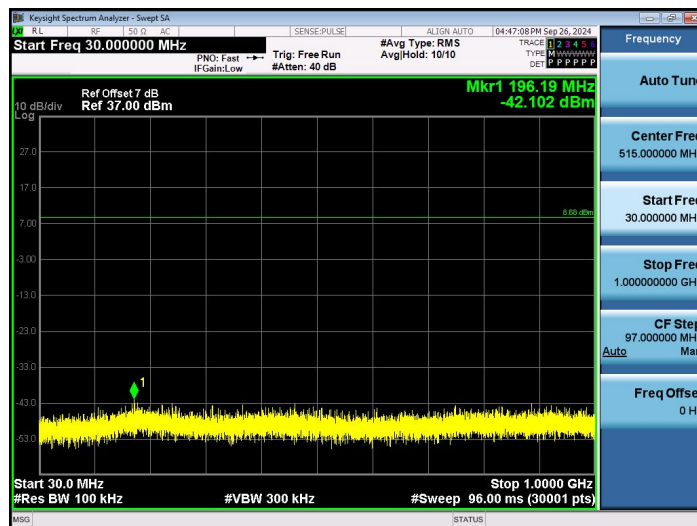


2.4G-Ant2-2441.4-1000~26500-PASS

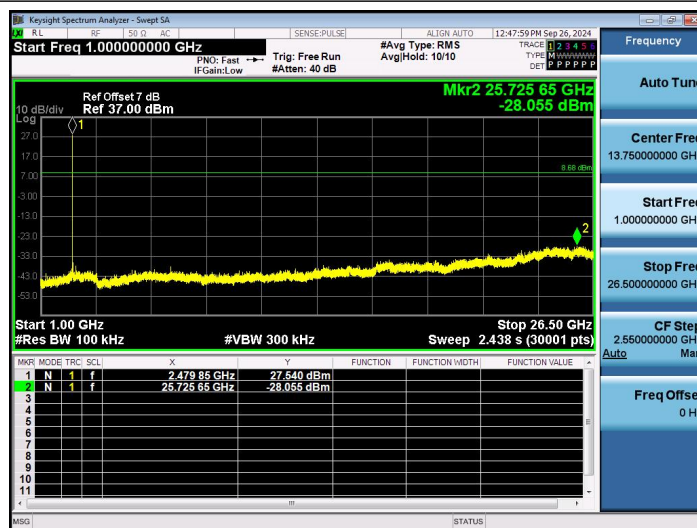




2.4G-Ant2-2479.4-0~Reference-PASS



2.4G-Ant2-2479.4-30~1000-PASS



2.4G-Ant2-2479.4-1000~26500-PASS

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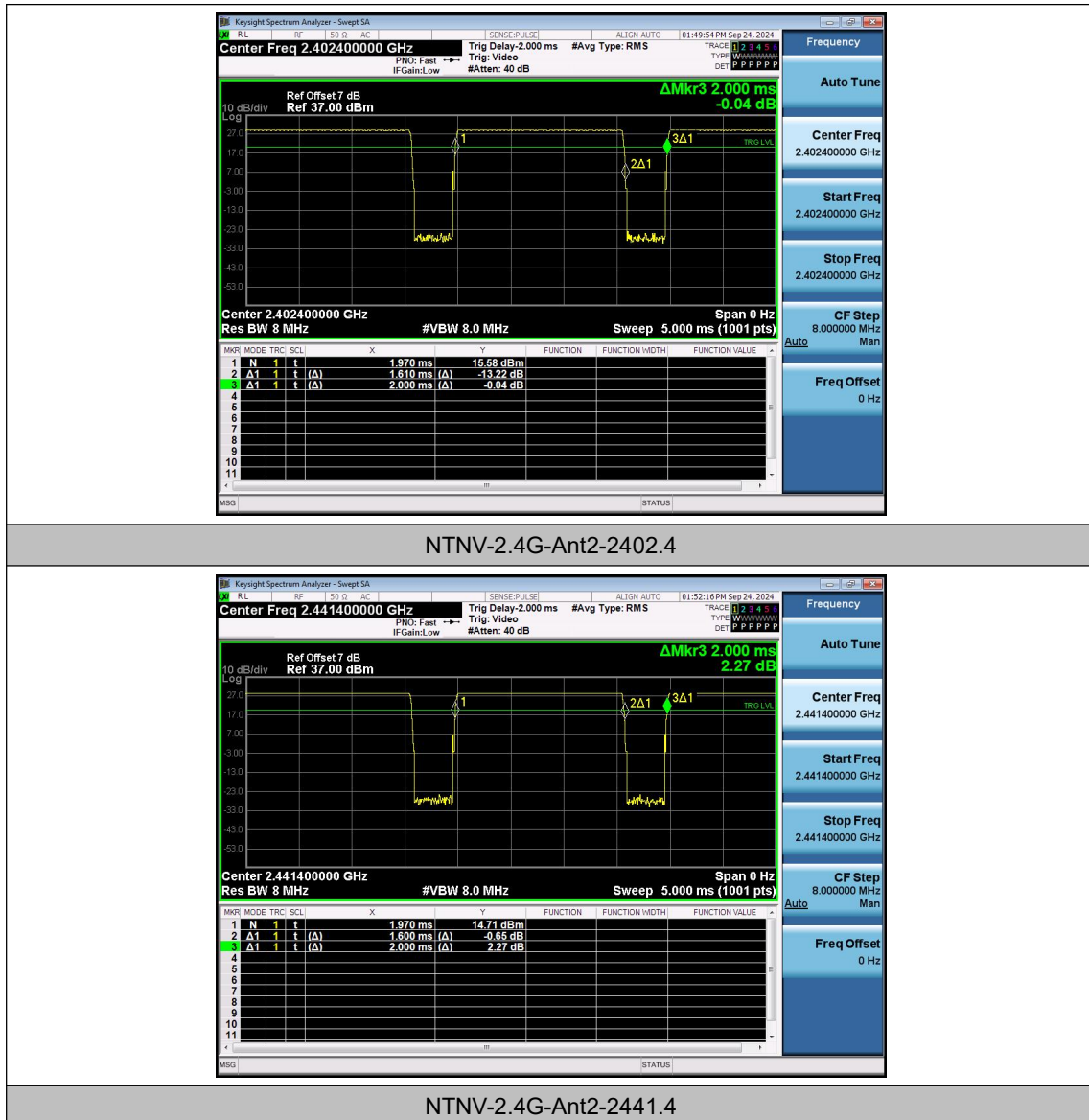
Appendix I: Duty Cycle

Test Result

| TestMode | Antenna | Frequency[MHz] | ON Time [ms] | Period [ms] | Duty Cycle [%] | Duty Cycle Factor[dB] |
|----------|---------|----------------|--------------|-------------|----------------|-----------------------|
| 2.4G     | Ant2    | 2402.4         | 1.61         | 2.00        | 80.50          | 0.94                  |
| 2.4G     | Ant2    | 2441.4         | 1.60         | 2.00        | 80.00          | 0.97                  |
| 2.4G     | Ant2    | 2479.4         | 1.60         | 2.00        | 80.00          | 0.97                  |



## Test Graphs

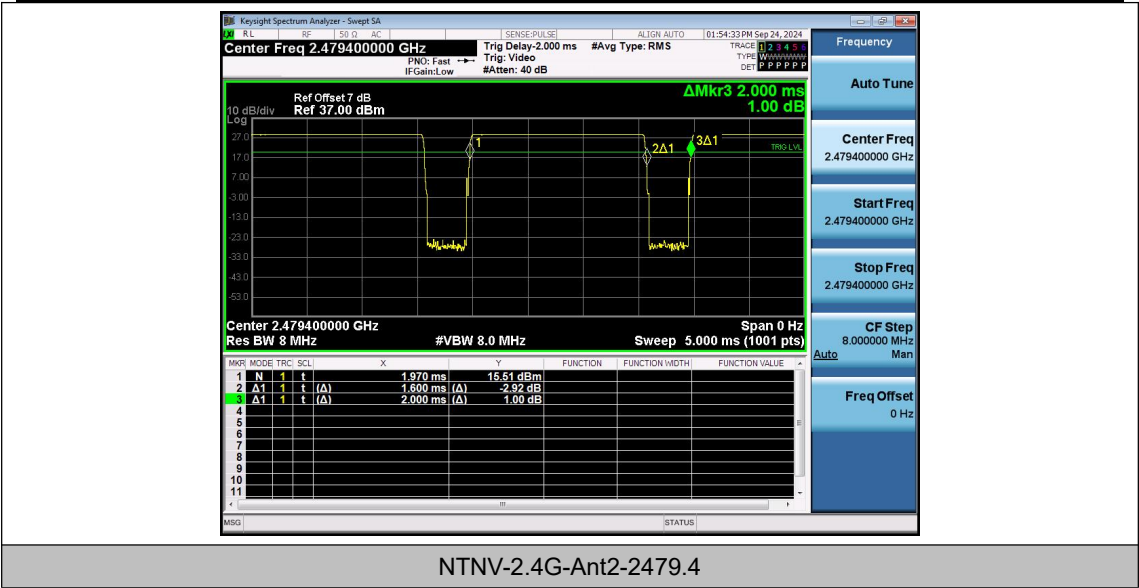


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NTNV-2.4G-Ant2-2479.4

---End---

