

## Appendix Test Data

|                  |                 |                    |                   |
|------------------|-----------------|--------------------|-------------------|
| Report No.:      | 18220WC20229501 | Test Sample No.:   | 1-2-2             |
| Start Test Date: | 2022.9.27       | Finish Test Date:  | 2022.10.28        |
| Test Engineer:   | <i>Jony.He</i>  | Auditor:           | <i>Edward.Pan</i> |
| Temperature:     | 27.3C°          | Relative Humidity: | 47 %              |
| Pressure:        | 1012 hPa        |                    |                   |

## Appendix A: 20dB Emission Bandwidth

## Test Result

| TestMode | Antenna | Frequency[MHz] | 20db<br>EBW[MHz] | FL[MHz]  | FH[MHz]  |
|----------|---------|----------------|------------------|----------|----------|
| 2.4G     | Ant1    | 2404           | 0.264            | 2403.814 | 2404.078 |
|          |         | 2439.1         | 0.264            | 2438.899 | 2439.163 |
|          |         | 2474.2         | 0.279            | 2473.987 | 2474.266 |

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## Test Graphs

2.4G\_Ant1\_2404



2.4G\_Ant1\_2439.1



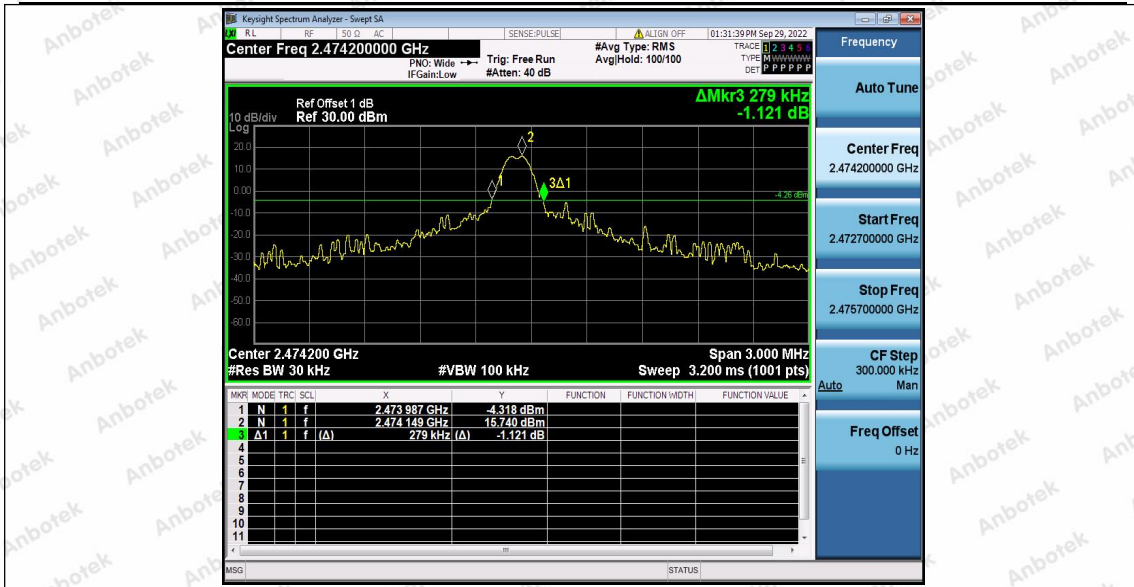
2.4G\_Ant1\_2474.2

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## Appendix B: Occupied Channel Bandwidth

### Test Result

| TestMode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   |
|----------|---------|----------------|-----------|-----------|-----------|
| 2.4G     | Ant1    | 2404           | 0.34068   | 2403.8143 | 2404.1550 |
|          |         | 2439.1         | 0.37140   | 2438.8943 | 2439.2657 |
|          |         | 2474.2         | 0.28098   | 2473.9890 | 2474.2699 |

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## 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      | Ant1    | 2404           | 19.06                     | ≤30                  | PASS    |
|           |         | 2439.1         | 18.95                     | ≤30                  | PASS    |
|           |         | 2474.2         | 18.84                     | ≤30                  | PASS    |

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## Test Graphs



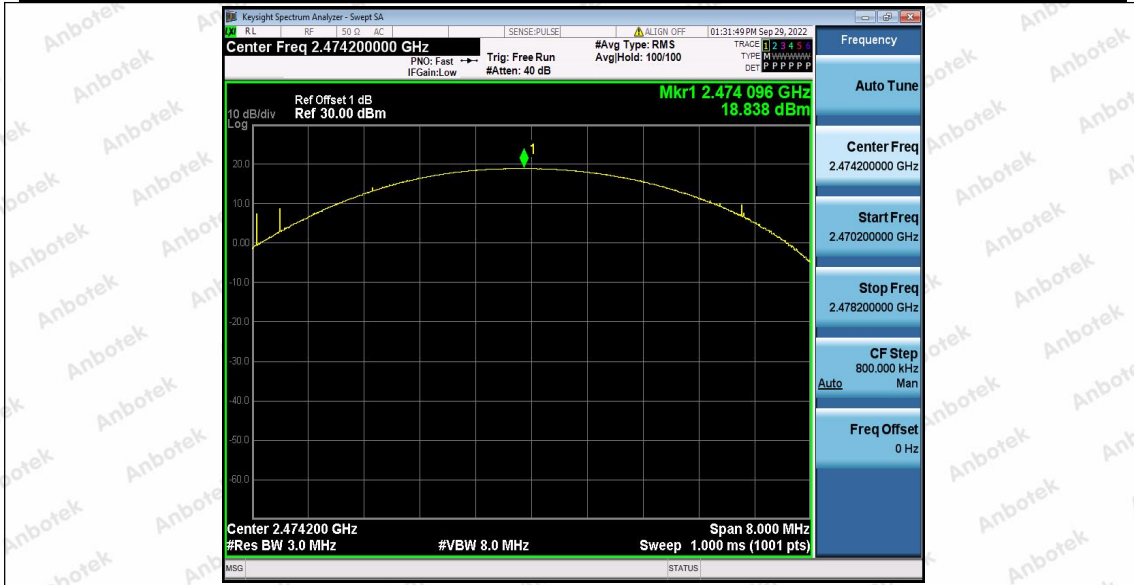
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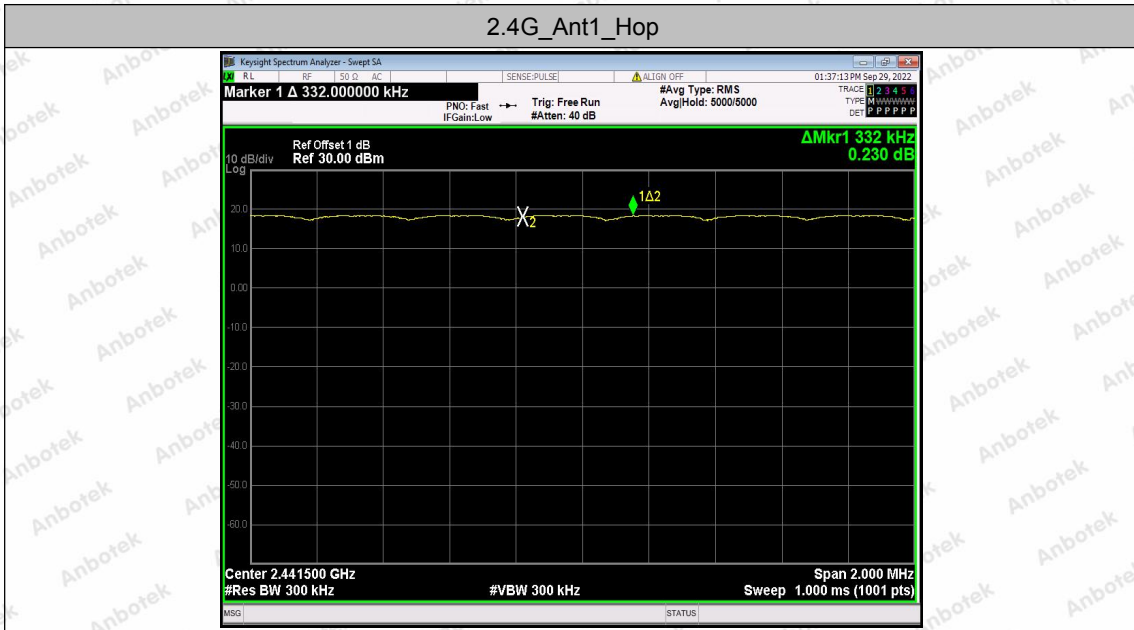
## Appendix D: Carrier frequency separation

### Test Result

| TestMode | Antenna | Frequency[MHz] | Result[MHz] | Limit[MHz] | Verdict |
|----------|---------|----------------|-------------|------------|---------|
| 2.4G     | Ant1    | Hop            | 0.332       | ≥0.186     | PASS    |



## Test Graphs



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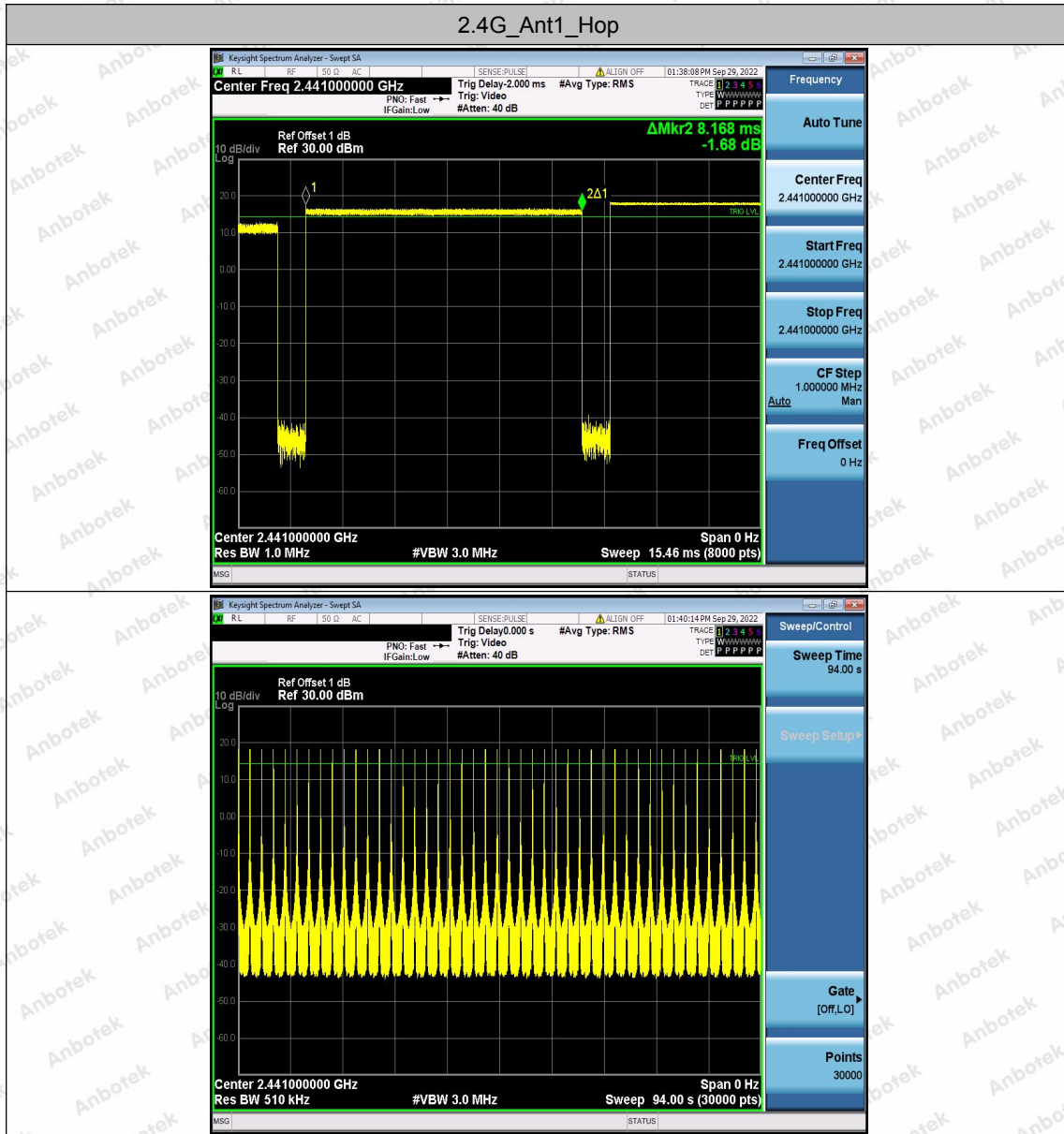
## Appendix E: Time of occupancy

### Test Result

| TestMode | Antenna | Frequency[MHz] | BurstWidth<br>[ms] | TotalHops<br>[Num] | Result[s] | Limit[s] | Verdict |
|----------|---------|----------------|--------------------|--------------------|-----------|----------|---------|
| 2.4G     | Ant1    | Hop            | 8.168              | 45                 | 0.368     | ≤0.4     | PASS    |



## Test Graphs



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## Appendix F: Number of hopping channels

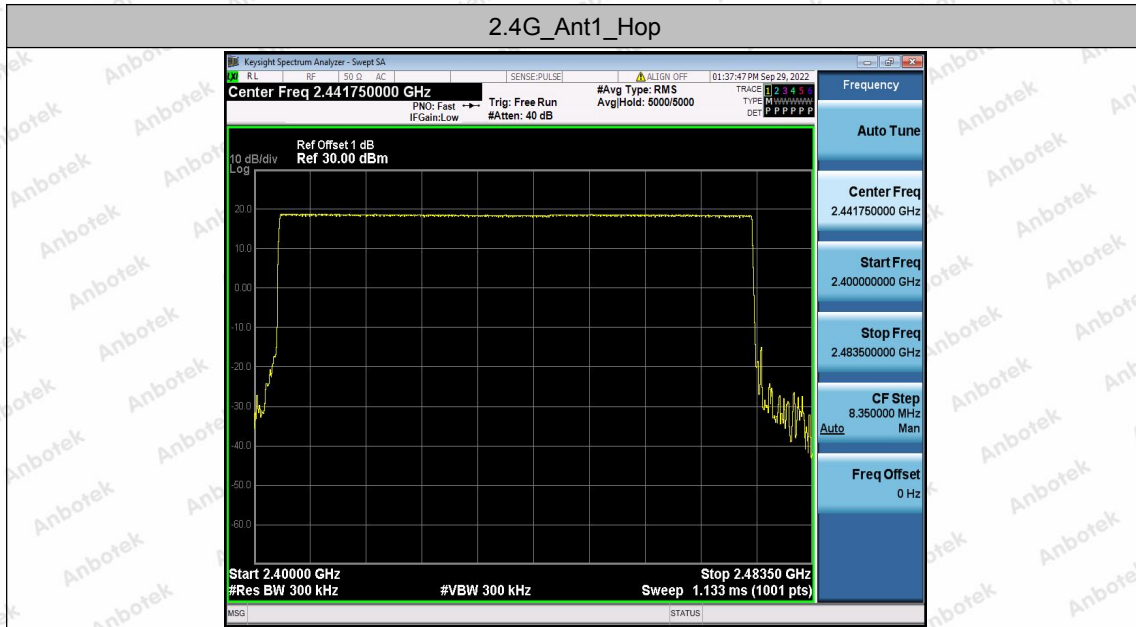
### Test Result

| TestMode | Antenna | Frequency[MHz] | Result[Num] | Limit[Num] | Verdict |
|----------|---------|----------------|-------------|------------|---------|
| 2.4G     | Ant1    | Hop            | 235         | ≥15        | PASS    |





## Test Graphs



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## Appendix G: Band edge measurements

### Test Result

| TestMode | Antenna | ChName | Frequency[MHz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|----------|---------|--------|----------------|----------------|--------------|-------------|---------|
| 2.4G     | Ant1    | Low    | 2404           | 19.35          | -28.56       | ≤-0.65      | PASS    |
|          |         | High   | 2474.2         | 19.14          | -35.69       | ≤-0.86      | PASS    |
|          |         | Low    | Hop_2402       | 18.67          | -40.19       | ≤-1.33      | PASS    |
|          |         | High   | Hop_2480       | 18.39          | -36.8        | ≤-1.61      | PASS    |

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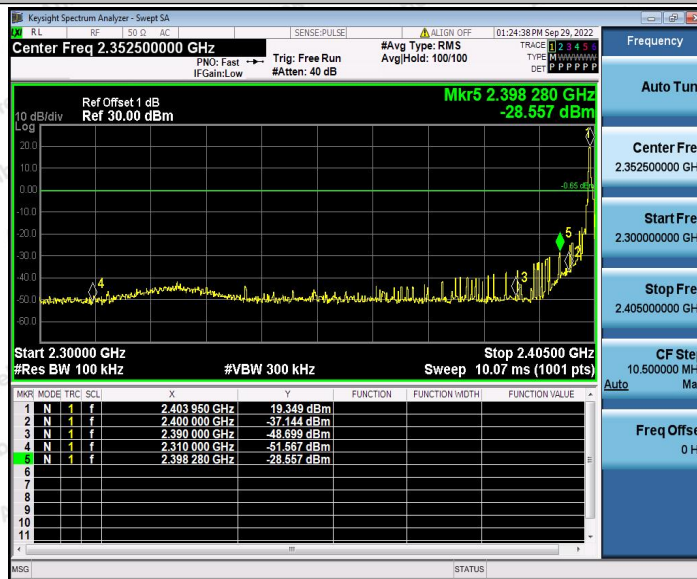


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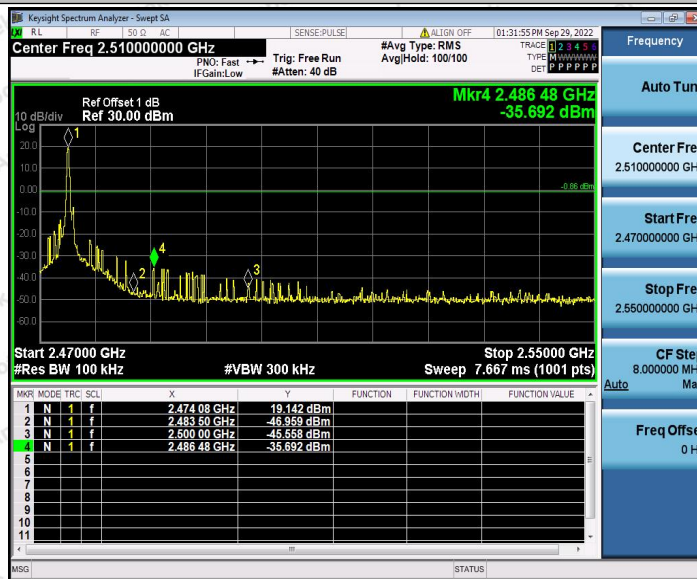


## Test Graphs

2.4G\_Ant1\_Low\_2404



2.4G\_Ant1\_High\_2474.2



2.4G\_Ant1\_Low\_Hop\_2402

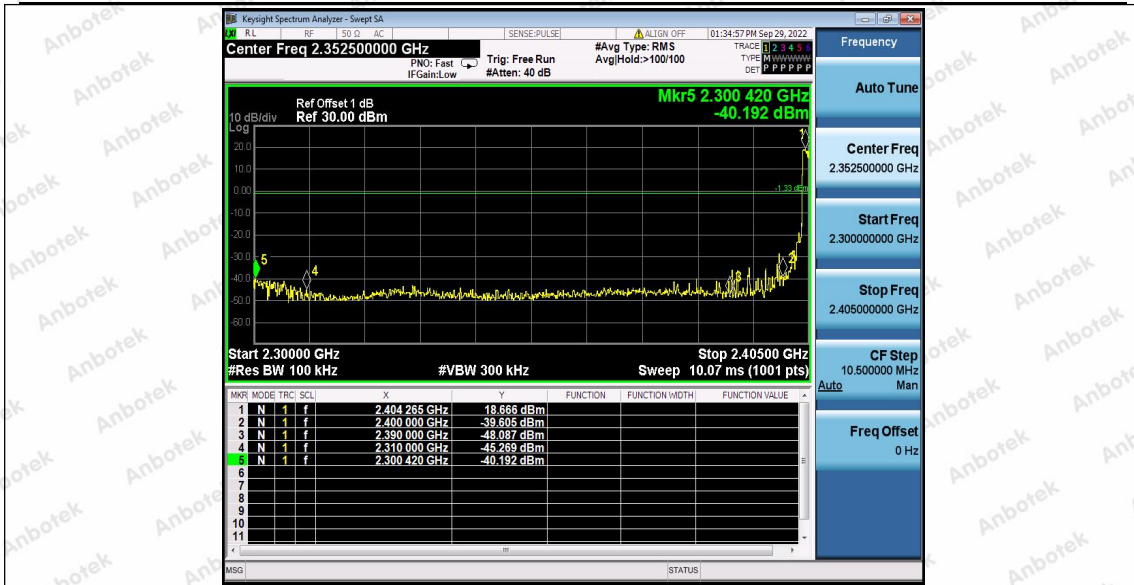
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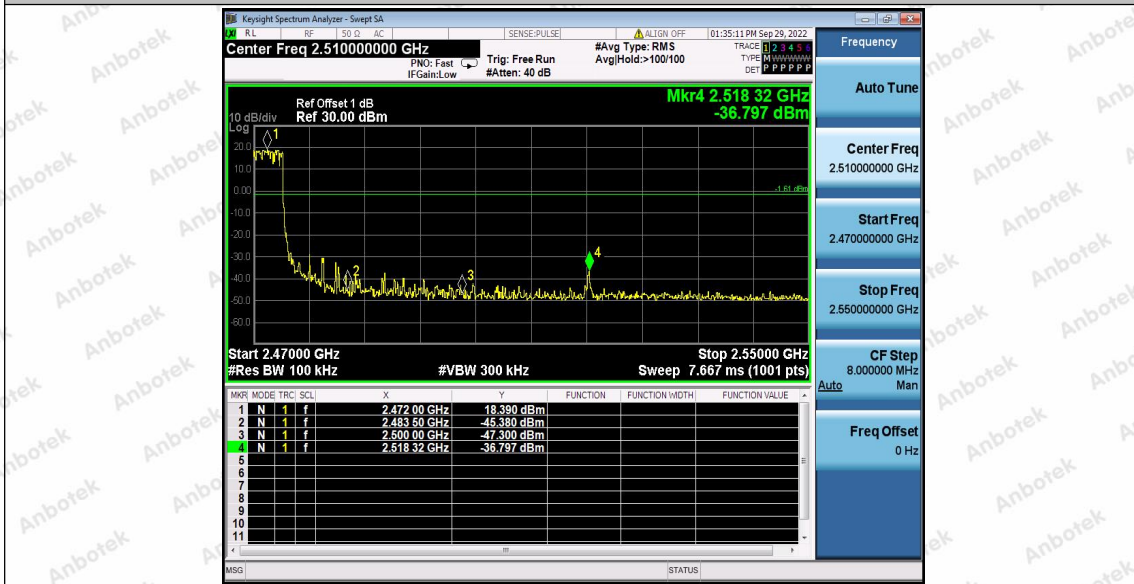
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2.4G\_Ant1\_High\_Hop\_2480



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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     | Ant1    | 2404           | Reference       | 18.90          | 18.90        | ---         | PASS    |
|          |         |                | 30~1000         | 18.90          | -68.2        | ≤-1.1       | PASS    |
|          |         |                | 1000~26500      | 18.90          | -38.06       | ≤-1.1       | PASS    |
|          |         | 2439.1         | Reference       | 18.76          | 18.76        | ---         | PASS    |
|          |         |                | 30~1000         | 18.76          | -68.48       | ≤-1.24      | PASS    |
|          |         |                | 1000~26500      | 18.76          | -30.16       | ≤-1.24      | PASS    |
|          |         | 2474.2         | Reference       | 18.74          | 18.74        | ---         | PASS    |
|          |         |                | 30~1000         | 18.74          | -69.52       | ≤-1.26      | PASS    |
|          |         |                | 1000~26500      | 18.74          | -29.63       | ≤-1.26      | PASS    |

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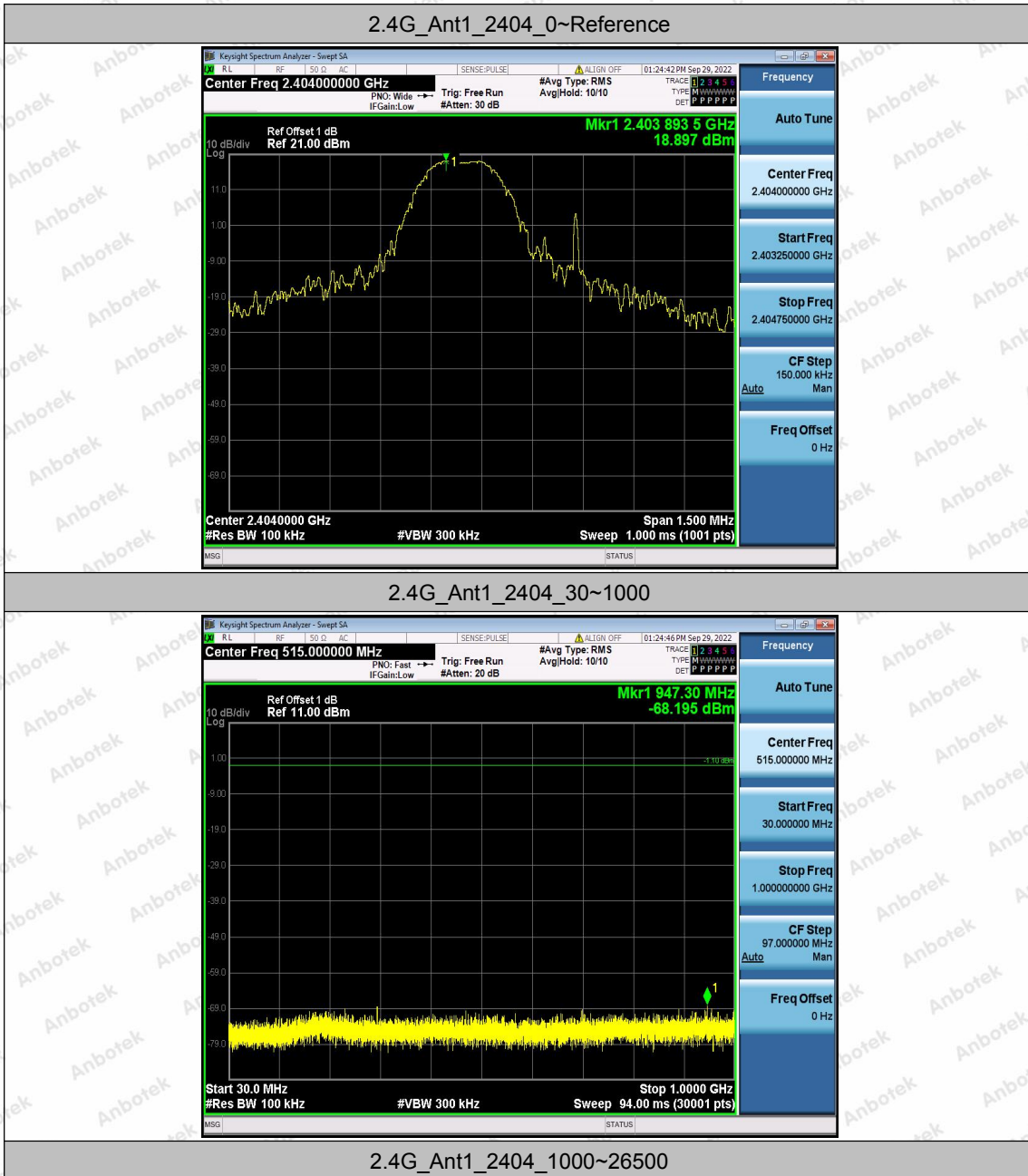
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## Test Graphs



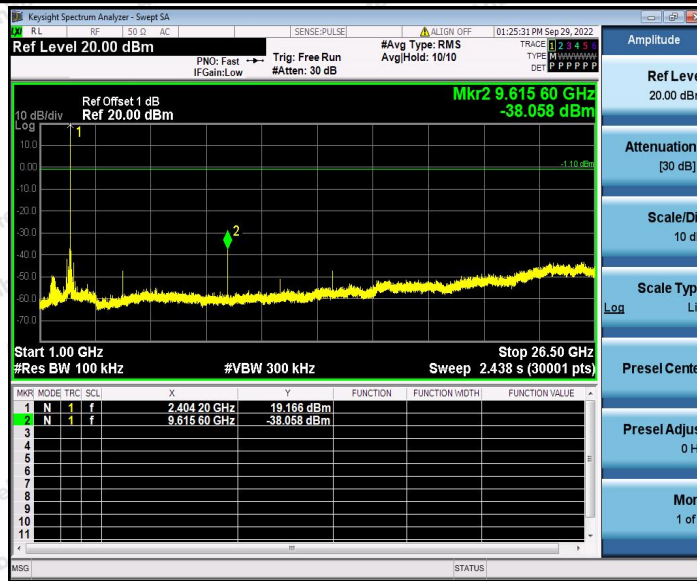
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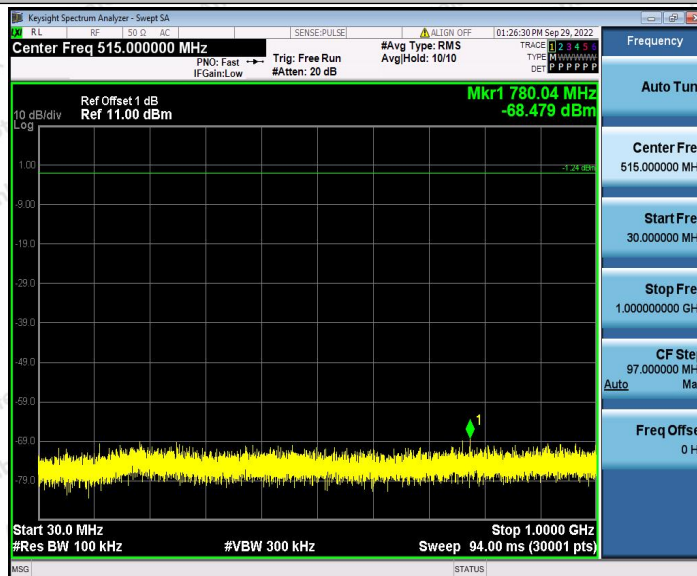




2.4G\_Ant1\_2439.1\_0~Reference



2.4G\_Ant1\_2439.1\_30~1000



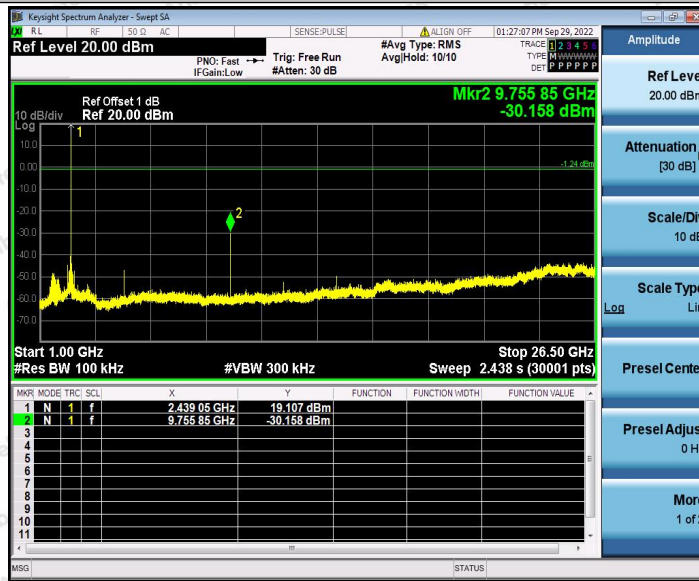
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2.4G\_Ant1\_2439.1\_1000~26500



2.4G\_Ant1\_2474.2\_0~Reference



2.4G\_Ant1\_2474.2\_30~1000

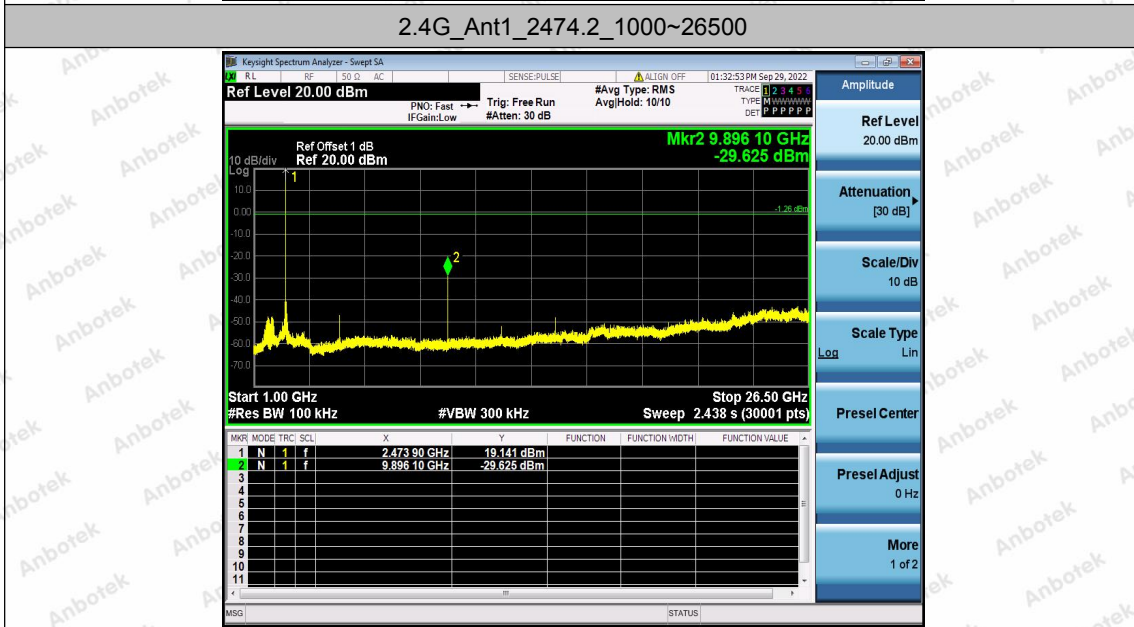
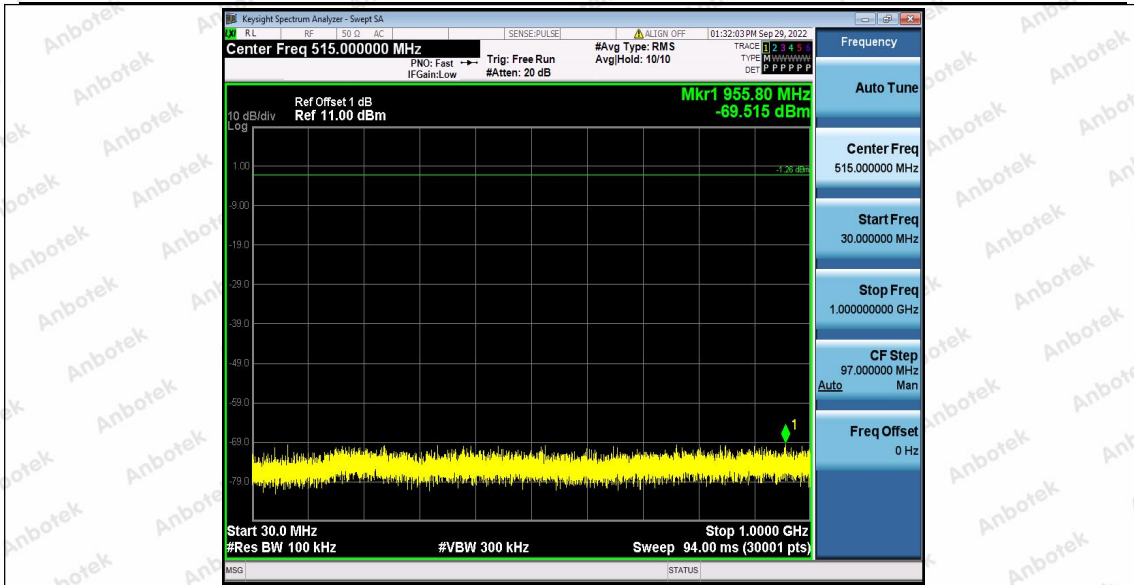
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## Appendix I: Duty Cycle

### Test Result

| TestMode | Antenna | Frequency[MHz] | ON Time [ms] | Period [ms] | Duty Cycle [%] | Duty Cycle Factor[dB] |
|----------|---------|----------------|--------------|-------------|----------------|-----------------------|
| 2.4G     | Ant1    | 2404           | 8.16         | 9.00        | 90.67          | 0.43                  |
|          |         | 2439.1         | 8.17         | 9.00        | 90.78          | 0.42                  |
|          |         | 2474.2         | 8.17         | 9.00        | 90.78          | 0.42                  |

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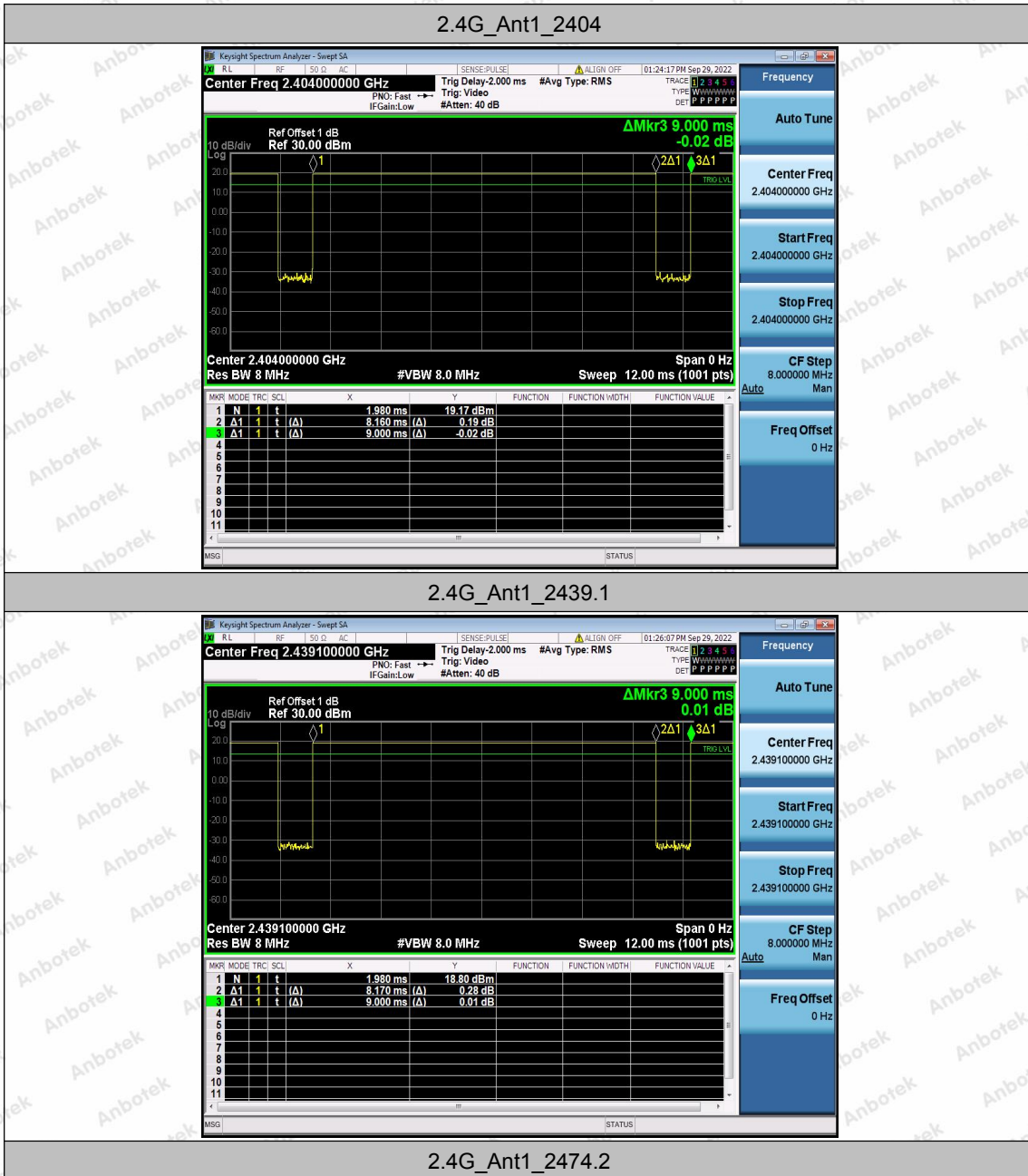
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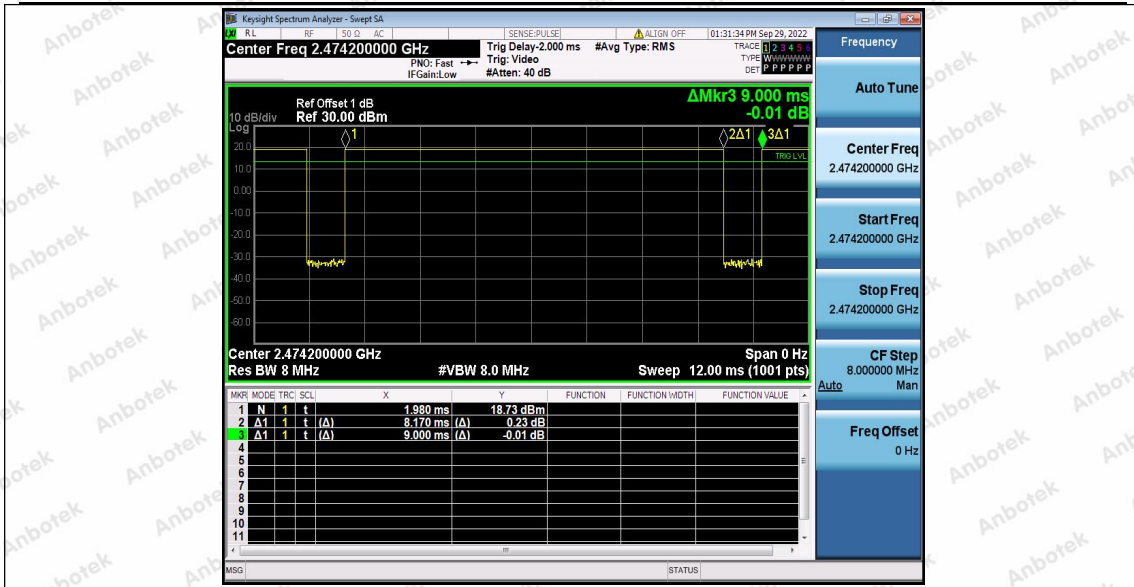


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