

## Appendix Test Data

|                  |                 |                    |                   |
|------------------|-----------------|--------------------|-------------------|
| Report No.:      | 18220WC20055701 | Test Sample No.:   | 1-2-2             |
| Start Test Date: | 2022.3.24       | Finish Test Date:  | 2022.3.29         |
| Test Engineer:   | <i>Jony He</i>  | Auditor:           | <i>Edward Pan</i> |
| Temperature:     | 24.3°C          | Relative Humidity: | 56 %              |
| Pressure:        | 1012 hPa        |                    |                   |

## Appendix A: 20dB Emission Bandwidth

## Test Result

| TestMode | Antenna | Channel | 20db<br>EBW[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|---------|------------------|----------|----------|------------|---------|
| 2.4      | Ant1    | 2408    | 2.050            | 2406.995 | 2409.045 | ---        | PASS    |
|          |         | 2440    | 2.050            | 2438.995 | 2441.045 | ---        | PASS    |
|          |         | 2474    | 2.050            | 2472.995 | 2475.045 | ---        | PASS    |

## Test Graphs

2.4\_Ant1\_2408



2.4\_Ant1\_2440



2.4\_Ant1\_2474



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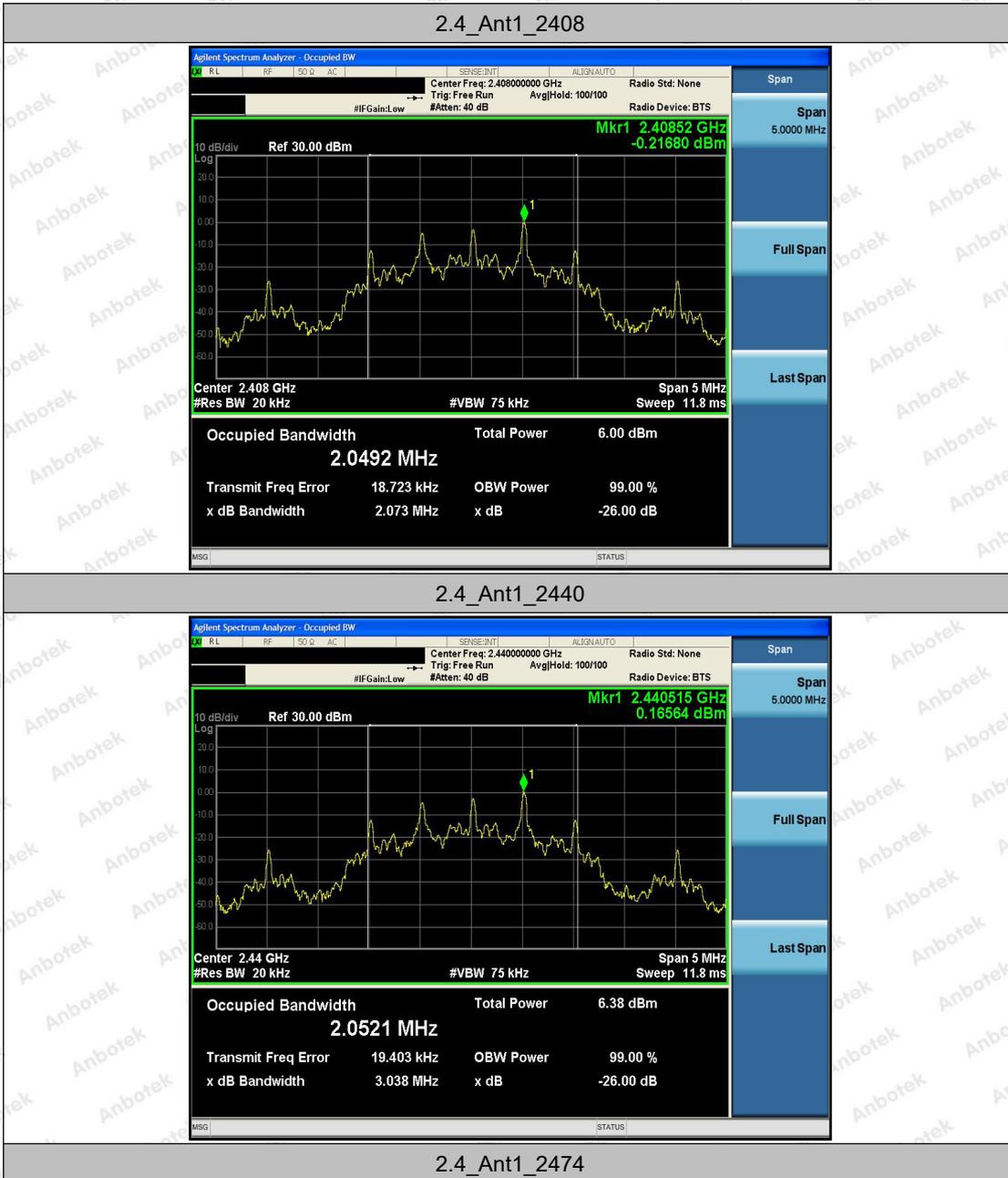
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## Appendix B: Occupied Channel Bandwidth

### Test Result

| TestMode | Antenna | Channel | OCB [MHz] | FL[MHz]      | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|---------|-----------|--------------|----------|------------|---------|
| 2.4      | Ant1    | 2408    | 2.0492    | 2406.99<br>4 | 2409.043 | ---        | PASS    |
|          |         | 2440    | 2.0521    | 2438.99<br>3 | 2441.045 | ---        | PASS    |
|          |         | 2474    | 2.0535    | 2472.99<br>4 | 2475.047 | ---        | PASS    |

## Test Graphs





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## Appendix C: Maximum conducted output power

### Test Result

| TestMode | Antenna | Channel | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|-------------|------------|---------|
| 2.4      | Ant1    | 2408    | 0.64        | ≤20.96     | PASS    |
|          |         | 2440    | 1.05        | ≤20.96     | PASS    |
|          |         | 2474    | 1.93        | ≤20.96     | PASS    |

## Test Graphs



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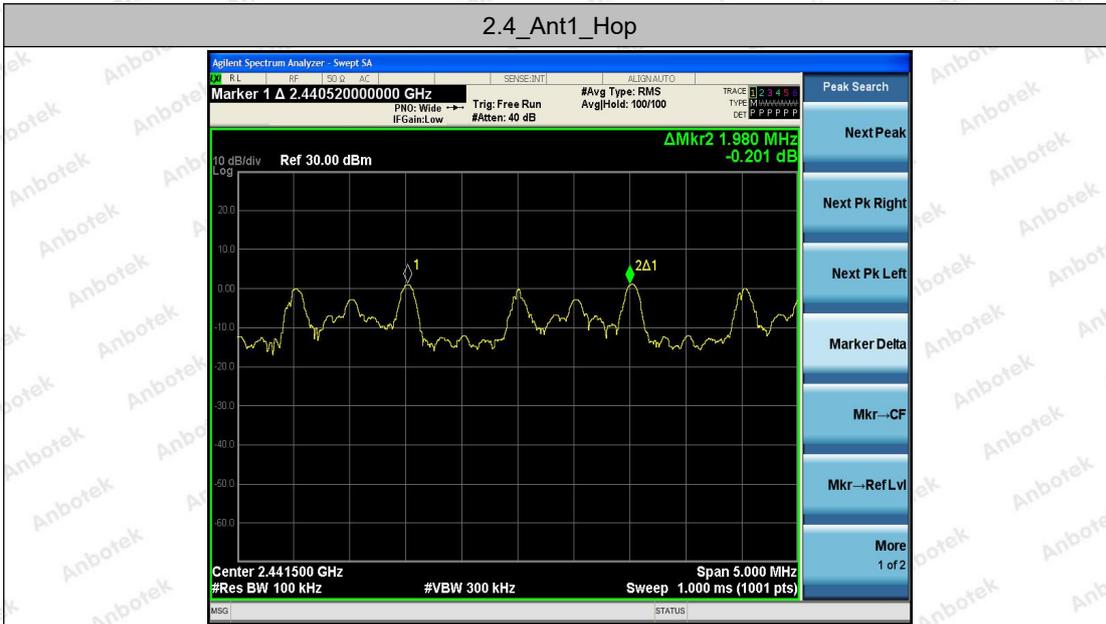
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## Appendix D: Carrier frequency separation

### Test Result

| TestMode | Antenna | Channel | Result[MHz] | Limit[MHz]   | Verdict |
|----------|---------|---------|-------------|--------------|---------|
| 2.4      | Ant1    | Hop     | 1.98        | $\geq 1.367$ | PASS    |

## Test Graphs



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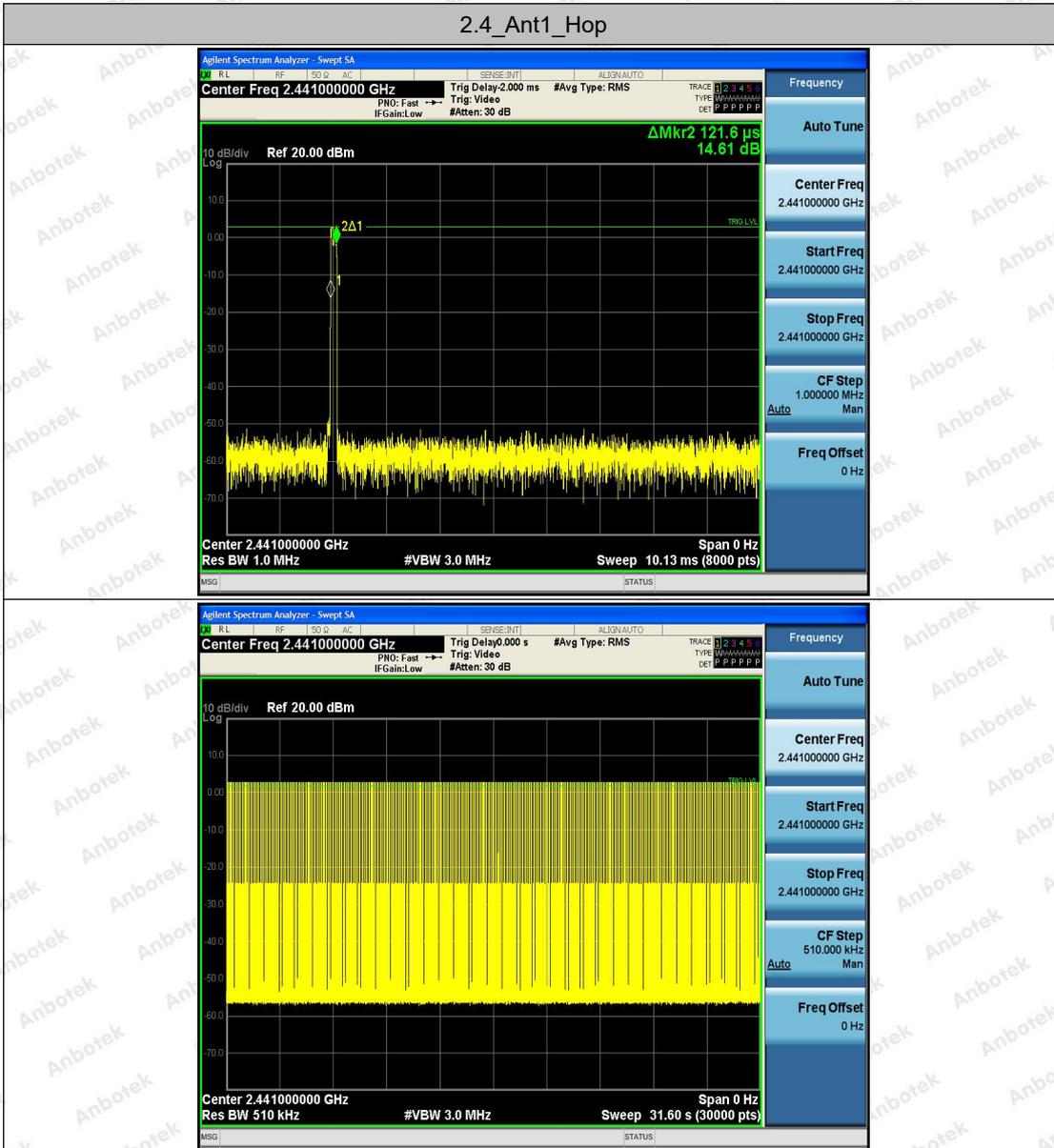
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## Appendix E: Time of occupancy

### Test Result

| TestMode | Antenna | Channel | BurstWidth<br>[ms] | TotalHops<br>[Num] | Result[s] | Limit[s] | Verdict |
|----------|---------|---------|--------------------|--------------------|-----------|----------|---------|
| 2.4      | Ant1    | Hop     | 0.12               | 498                | 0.061     | ≤0.4     | PASS    |

## Test Graphs



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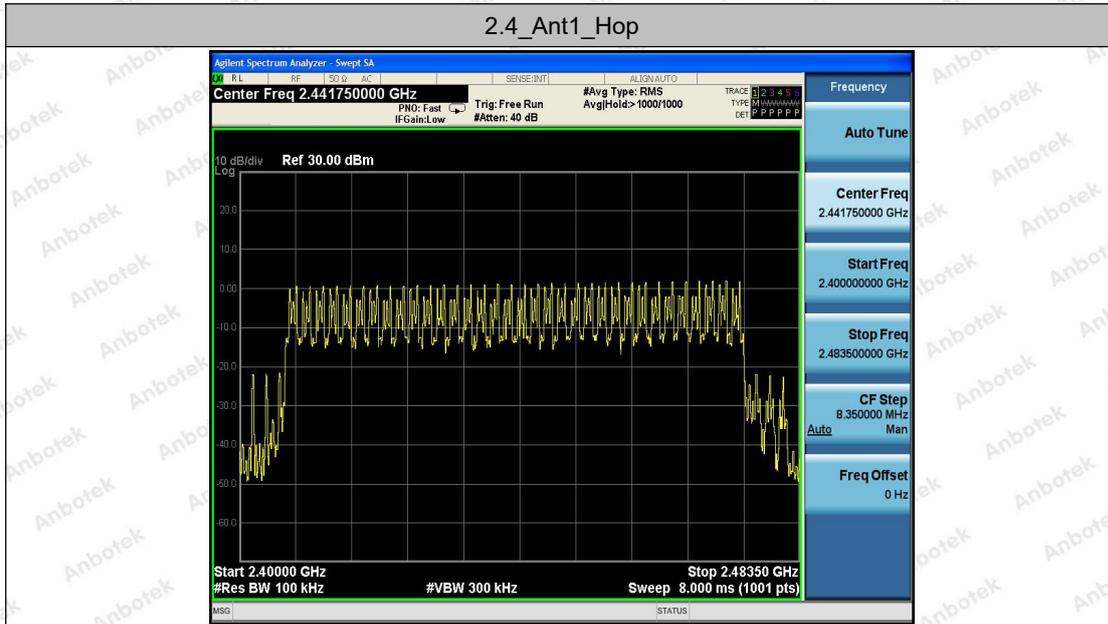
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## Appendix F: Number of hopping channels

### Test Result

| TestMode | Antenna | Channel | Result[Num] | Limit[Num] | Verdict |
|----------|---------|---------|-------------|------------|---------|
| 2.4      | Ant1    | Hop     | 34          | ≥15        | PASS    |

## Test Graphs



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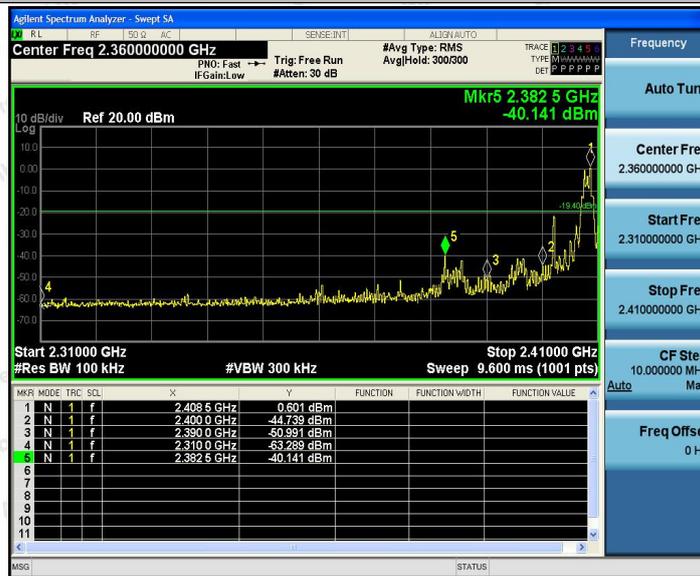
## Appendix G: Band edge measurements

### Test Result

| TestMode | Antenna | ChName | Channel | RefLevel<br>[dBm] | Result<br>[dBm] | Limit<br>[dBm] | Verdict |
|----------|---------|--------|---------|-------------------|-----------------|----------------|---------|
| 2.4      | Ant1    | Low    | 2408    | 0.60              | -40.14          | ≤-19.4         | PASS    |
|          |         | High   | 2474    | 2.02              | -43.21          | ≤-17.98        | PASS    |
|          |         | Low    | Hop     | 0.12              | -40.95          | ≤-19.88        | PASS    |
|          |         | High   | Hop     | 1.96              | -50.16          | ≤-18.04        | PASS    |

## Test Graphs

2.4\_Ant1\_Low\_2408



2.4\_Ant1\_High\_2474



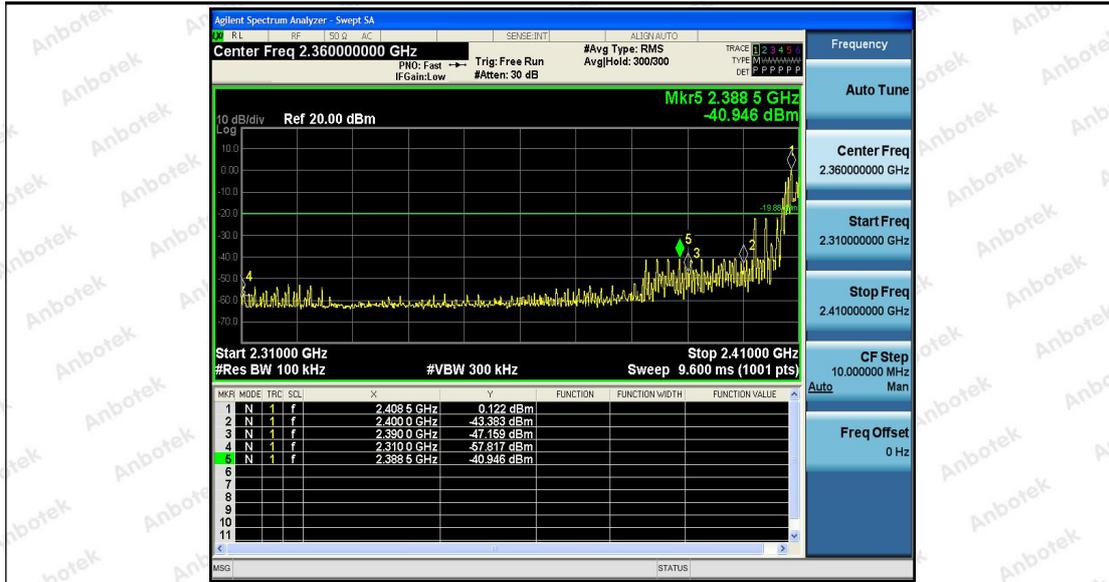
2.4\_Ant1\_Low\_Hop

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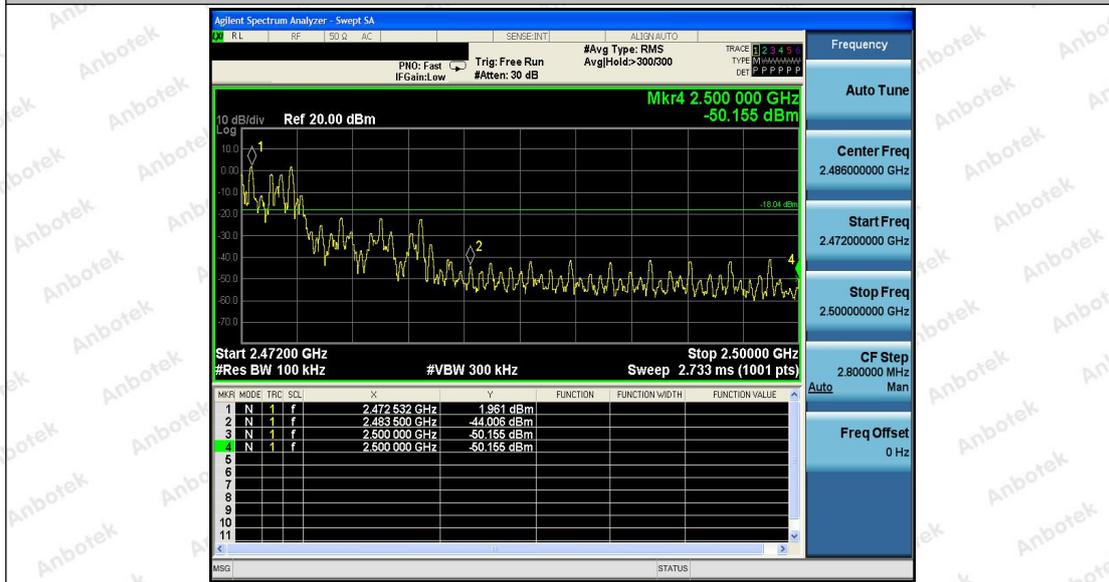
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## 2.4\_Ant1\_High\_Hop



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## Appendix H: Conducted Spurious Emission

### Test Result

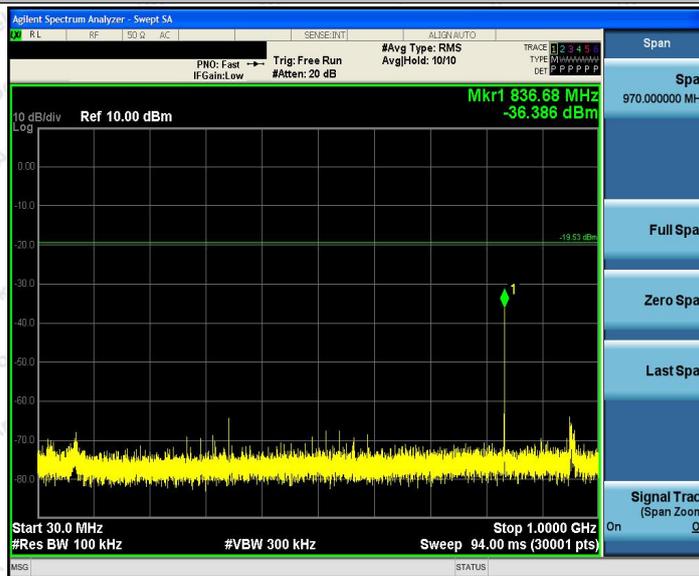
| TestMode | Antenna | Channel | FreqRange<br>[MHz] | RefLevel<br>[dBm] | Result<br>[dBm] | Limit<br>[dBm] | Verdict |
|----------|---------|---------|--------------------|-------------------|-----------------|----------------|---------|
| 2.4      | Ant1    | 2408    | Reference          | 0.47              | 0.47            | ---            | PASS    |
|          |         |         | 30~1000            | 0.47              | -36.39          | ≤-19.53        | PASS    |
|          |         |         | 1000~26500         | 0.47              | -32.67          | ≤-19.53        | PASS    |
|          |         | 2440    | Reference          | 1.01              | 1.01            | ---            | PASS    |
|          |         |         | 30~1000            | 1.01              | -46.52          | ≤-19           | PASS    |
|          |         |         | 1000~26500         | 1.01              | -37.7           | ≤-19           | PASS    |
|          |         | 2474    | Reference          | 1.85              | 1.85            | ---            | PASS    |
|          |         |         | 30~1000            | 1.85              | -45.35          | ≤-18.15        | PASS    |
|          |         |         | 1000~26500         | 1.85              | -33.4           | ≤-18.15        | PASS    |

## Test Graphs

2.4\_Ant1\_2408\_0~Reference



2.4\_Ant1\_2408\_30~1000



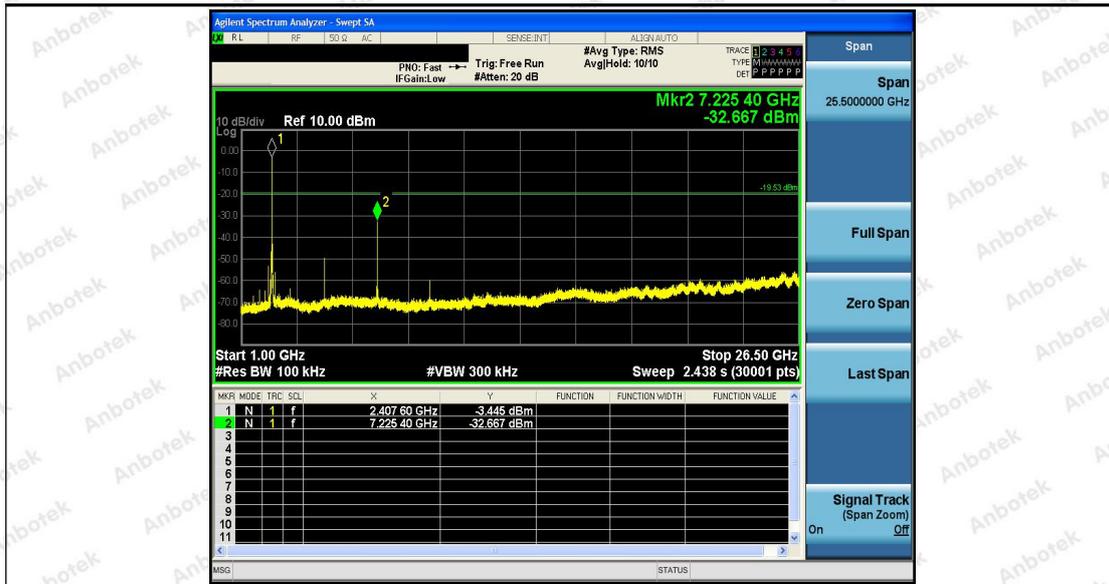
2.4\_Ant1\_2408\_1000~26500

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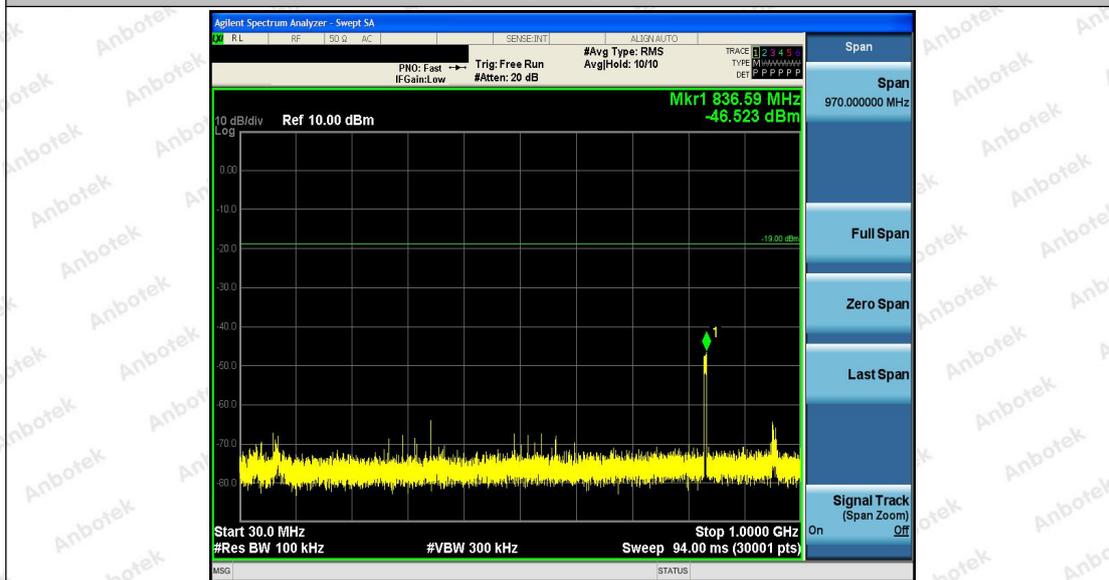
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2.4\_Ant1\_2440\_0~Reference



2.4\_Ant1\_2440\_30~1000

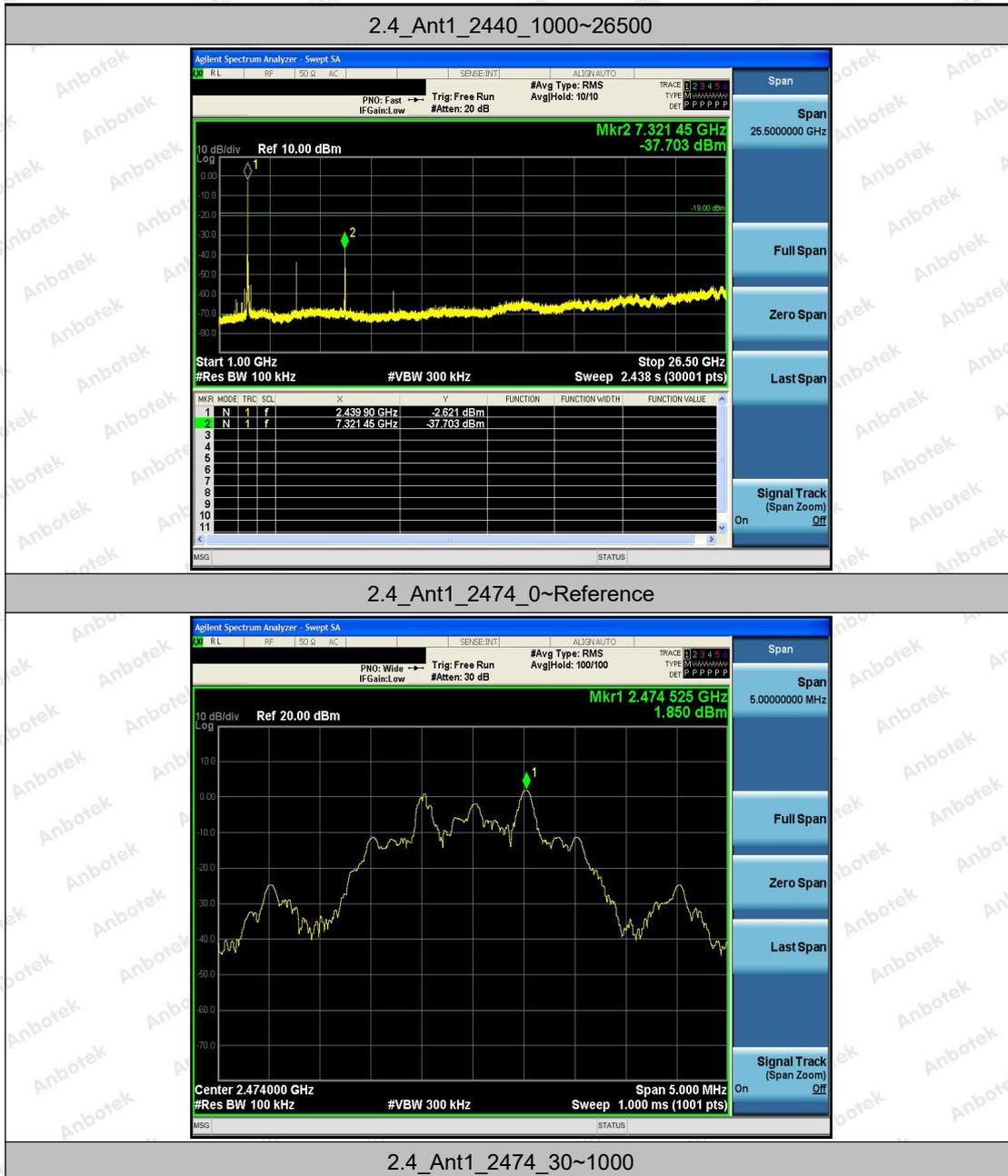


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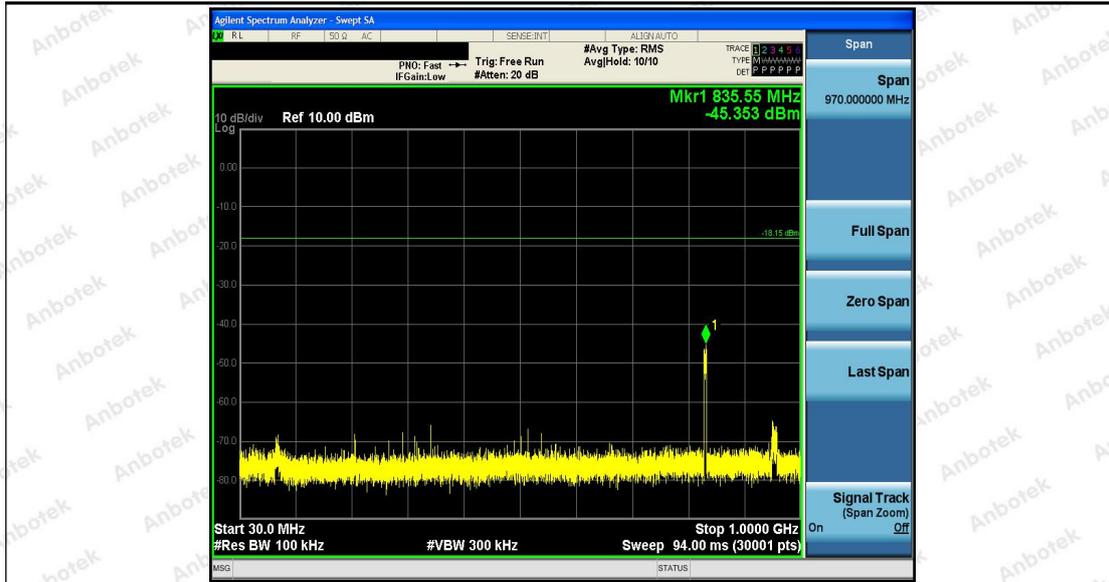


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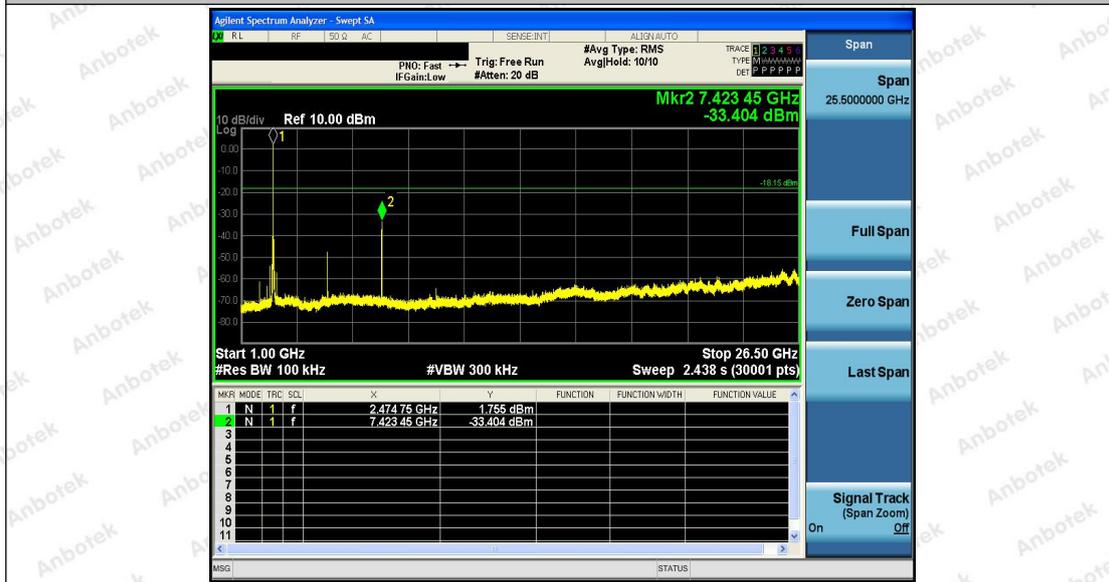
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2.4\_Ant1\_2474\_1000~26500



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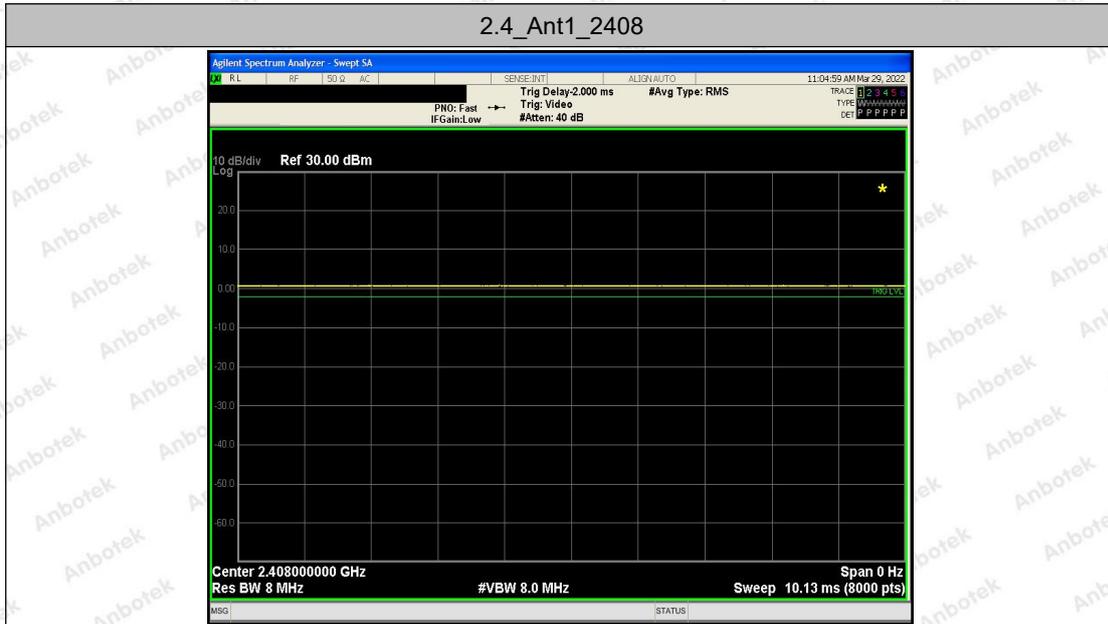
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## Appendix I: Duty Cycle

### Test Result

| TestMode | Antenna | Channel | ON Time<br>[ms] | Period<br>[ms] | X | DC<br>[%] | xFactor | Limit | Verdict |
|----------|---------|---------|-----------------|----------------|---|-----------|---------|-------|---------|
| 2.4      | Ant1    | 2408    | 10.13           | 10.13          | 1 | 100%      | 0       | ---   | PASS    |

### Test Graphs



---End---