

## Appendix Test Data

|                  |                 |                    |                   |
|------------------|-----------------|--------------------|-------------------|
| Report No.:      | 18220WC20166501 | Test Sample No.:   | 1-2-2             |
| Start Test Date: | 2022.7.25       | Finish Test Date:  | 2022.7.30         |
| Test Engineer:   | <i>Jony.He</i>  | Auditor:           | <i>Edward.Pan</i> |
| Temperature:     | 25.3℃           | Relative Humidity: | 57.1 %            |
| Pressure:        | 1012 hPa        |                    |                   |

## Appendix A: DTS Bandwidth

## Test Result

| TestMode | Antenna | Channel | DTS BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|---------|--------------|----------|----------|------------|---------|
| BLE_1M   | Ant1    | 2402    | 0.712        | 2401.640 | 2402.352 | ≥0.5       | PASS    |
|          |         | 2440    | 0.696        | 2439.640 | 2440.336 | ≥0.5       | PASS    |
|          |         | 2480    | 0.704        | 2479.636 | 2480.340 | ≥0.5       | PASS    |

## Test Graphs

BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



BLE\_1M\_Ant1\_2480

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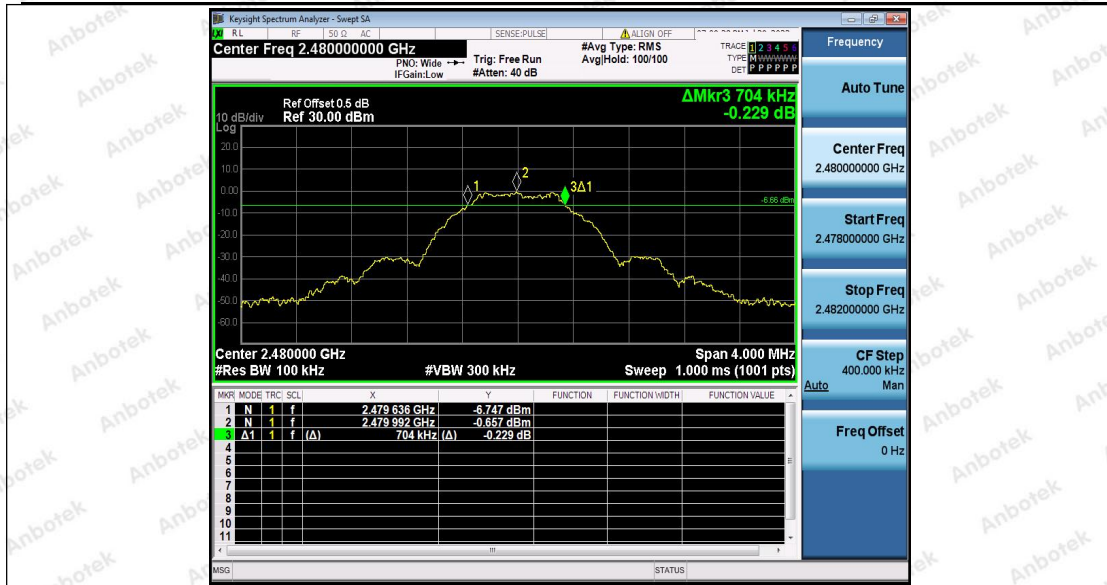
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## Appendix B: Occupied Channel Bandwidth

### Test Result

| TestMode | Antenna | Channel | OCB [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|---------|-----------|----------|----------|------------|---------|
| BLE_1M   | Ant1    | 2402    | 1.0270    | 2401.494 | 2402.521 | ---        | PASS    |
|          |         | 2440    | 1.0329    | 2439.492 | 2440.525 | ---        | PASS    |
|          |         | 2480    | 1.0287    | 2479.492 | 2480.521 | ---        | PASS    |

## Test Graphs



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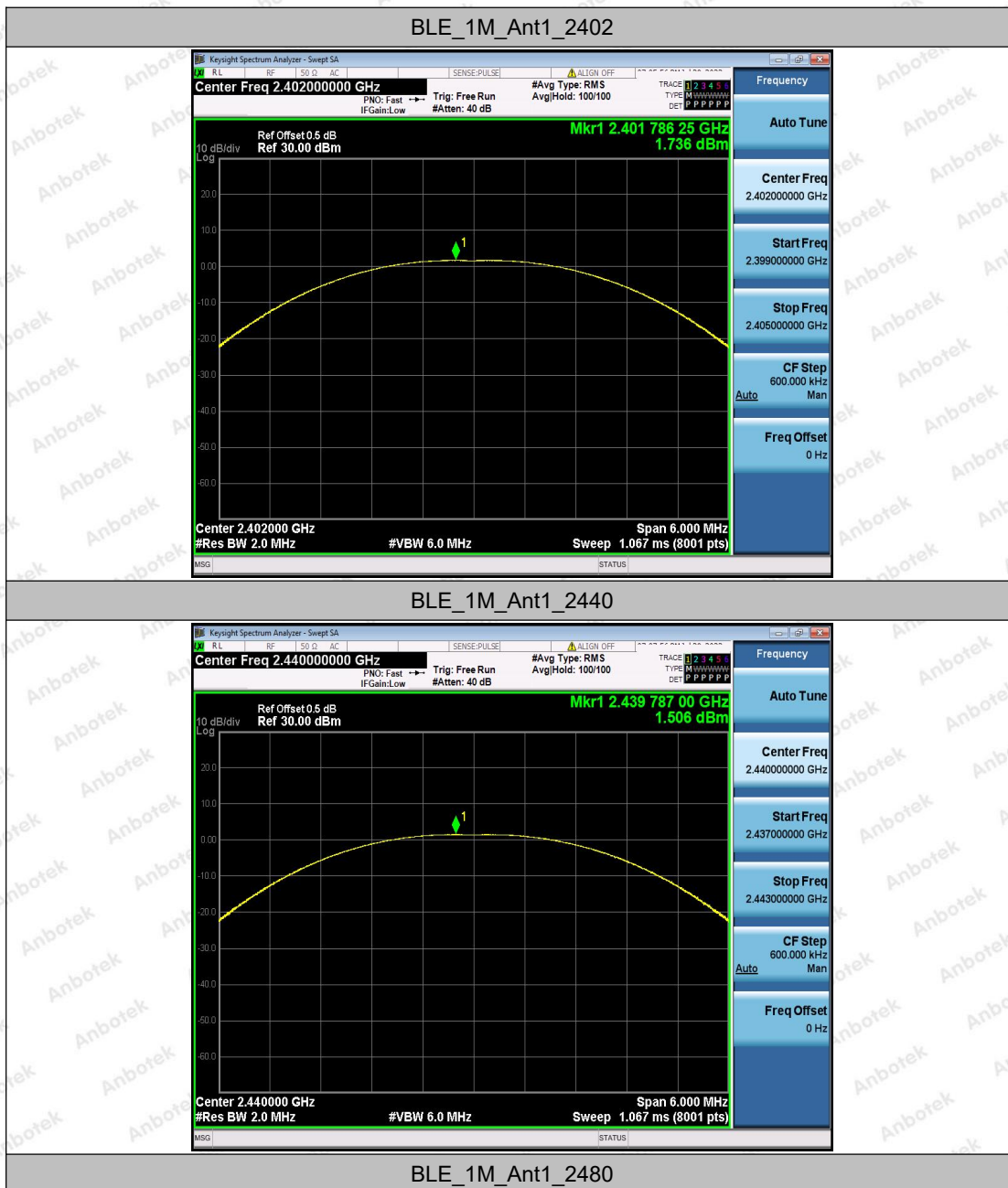
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## Appendix C: Maximum conducted output power

### Test Result

| TestMode | Antenna | Channel | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|-------------|------------|---------|
| BLE_1M   | Ant1    | 2402    | 1.74        | ≤30        | PASS    |
|          |         | 2440    | 1.51        | ≤30        | PASS    |
|          |         | 2480    | 0.31        | ≤30        | PASS    |

## Test Graphs



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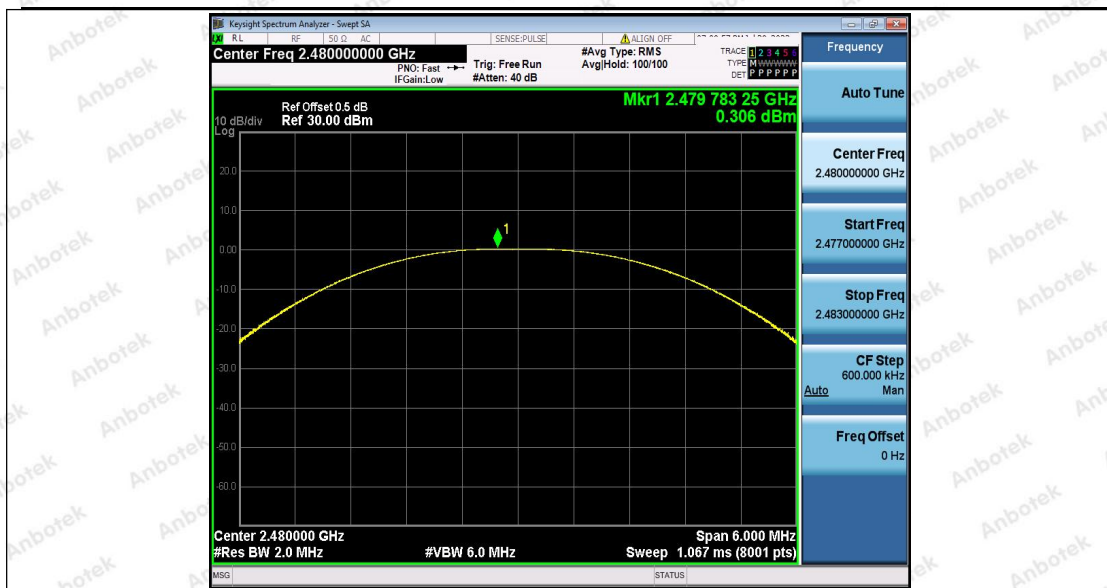
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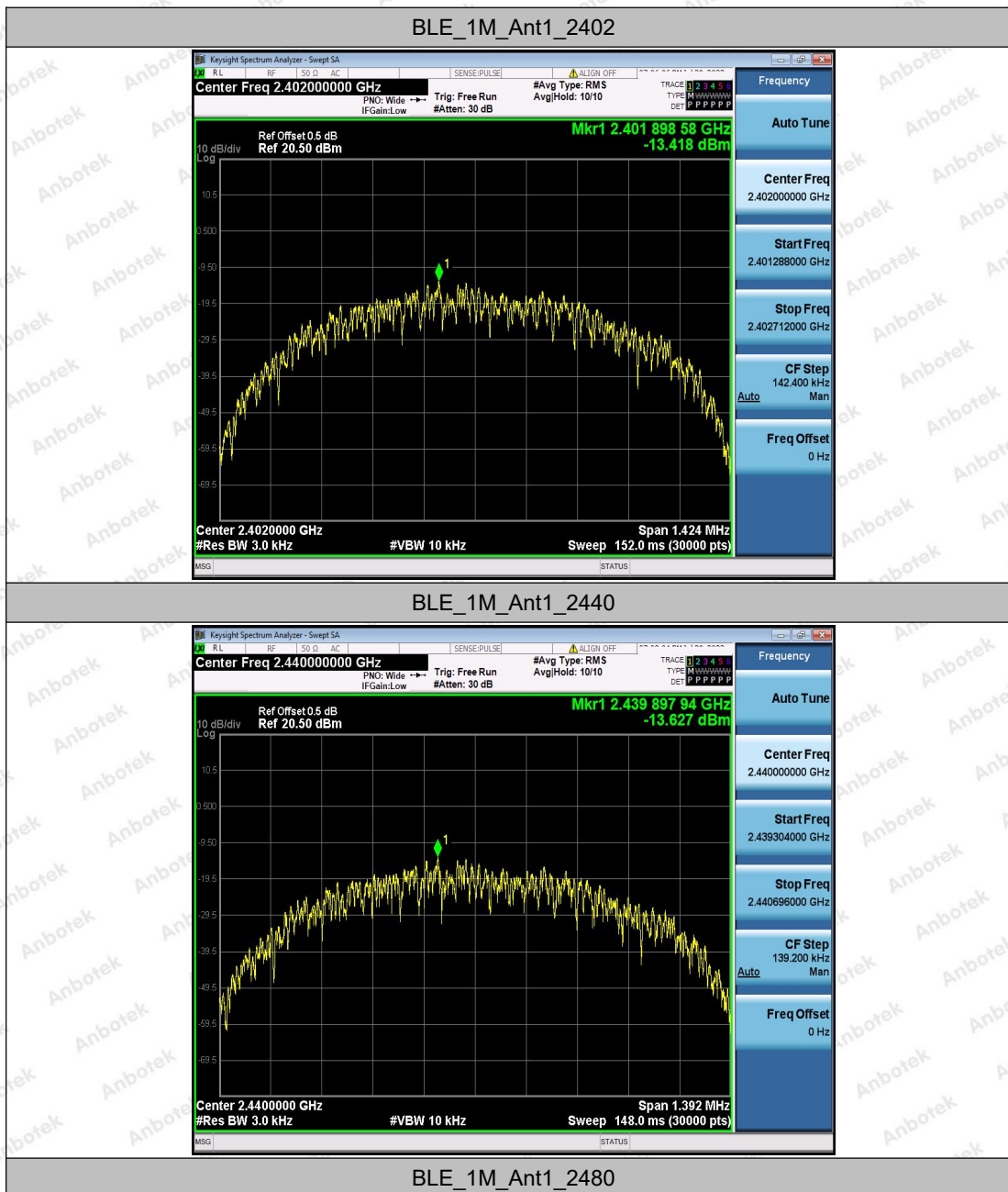
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## Appendix D: Maximum power spectral density

### Test Result

| TestMode | Antenna | Channel | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|---------|------------------|-----------------|---------|
| BLE_1M   | Ant1    | 2402    | -13.42           | ≤8              | PASS    |
|          |         | 2440    | -13.63           | ≤8              | PASS    |
|          |         | 2480    | -14.85           | ≤8              | PASS    |

## Test Graphs

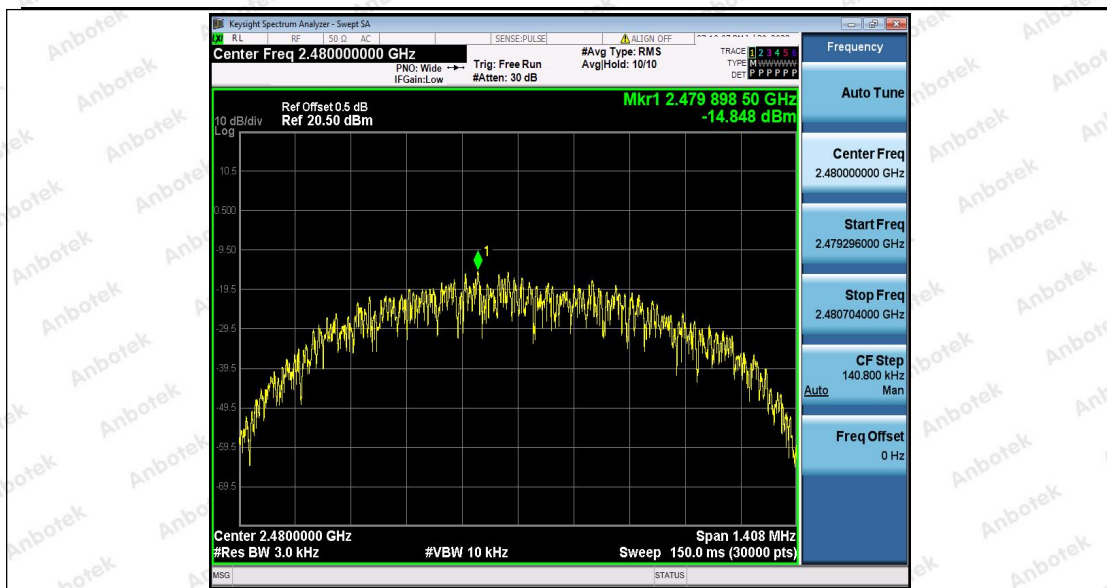


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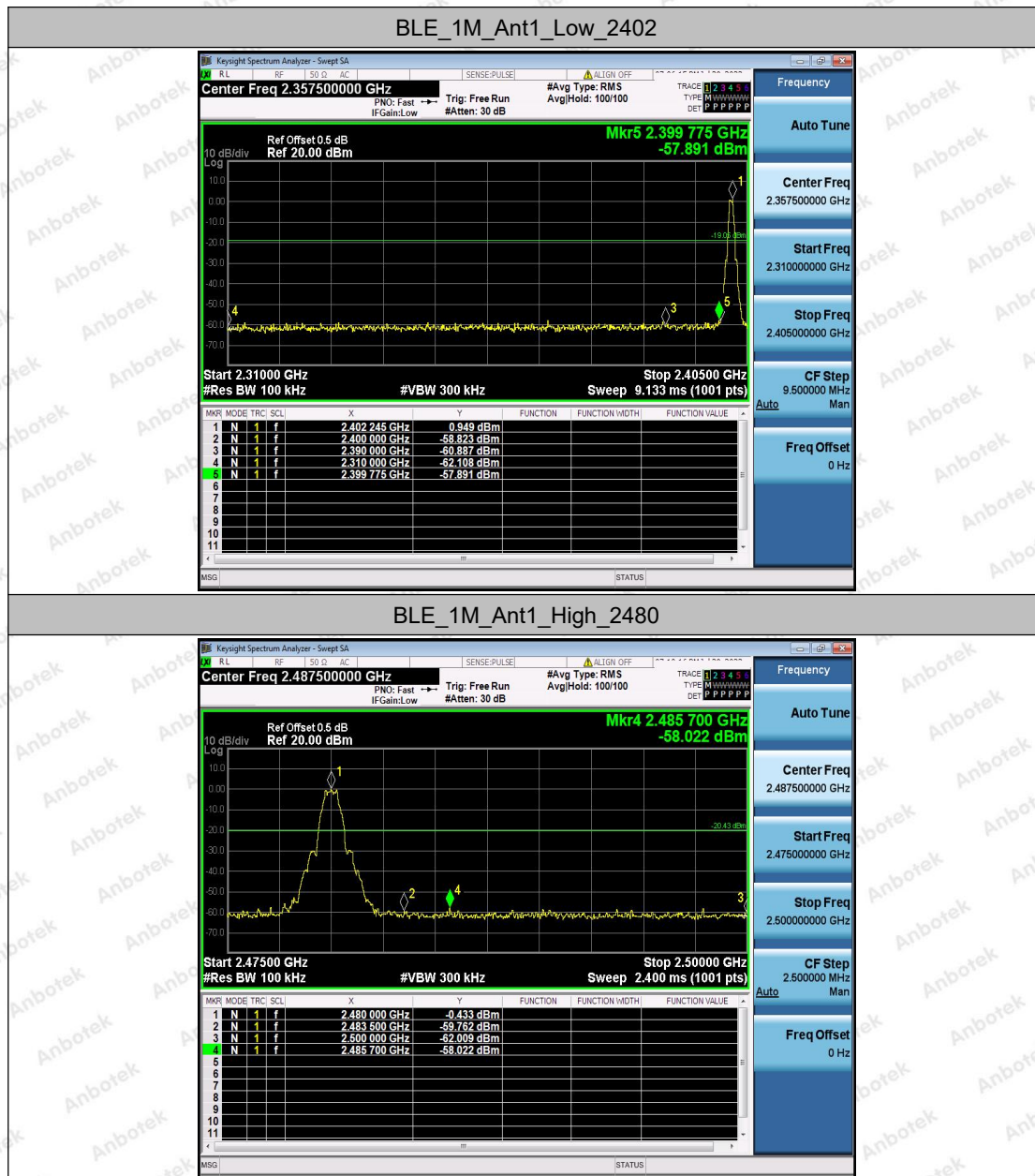
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## Appendix E: Band edge measurements

### Test Result

| TestMode | Antenna | ChName | Channel | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|--------|---------|---------------|-------------|------------|---------|
| BLE_1M   | Ant1    | Low    | 2402    | 0.95          | -57.89      | ≤-19.05    | PASS    |
|          |         | High   | 2480    | -0.43         | -58.02      | ≤-20.43    | PASS    |

## Test Graphs



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## Appendix F: Conducted Spurious Emission

### Test Result

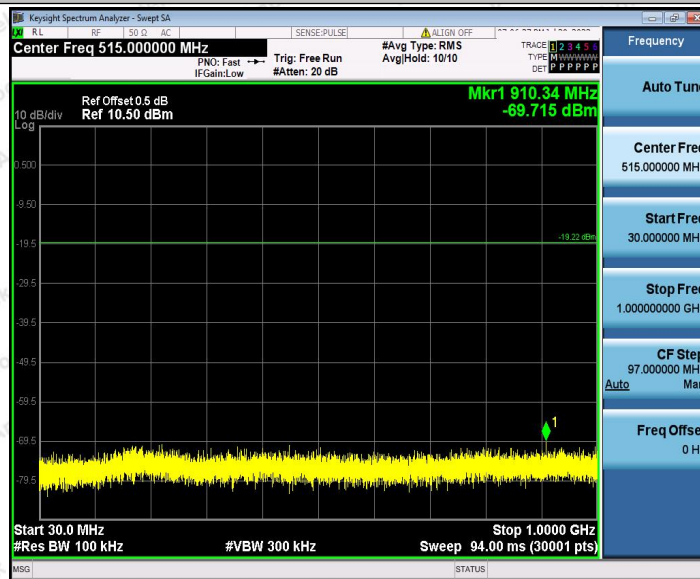
| TestMode | Antenna | Channel | FreqRange<br>[MHz] | RefLevel<br>[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|--------------------|-------------------|-------------|------------|---------|
| BLE_1M   | Ant1    | 2402    | Reference          | 0.78              | 0.78        | ---        | PASS    |
|          |         |         | 30~1000            | 0.78              | -69.72      | ≤-19.22    | PASS    |
|          |         |         | 1000~265<br>00     | 0.78              | -54.04      | ≤-19.22    | PASS    |
|          |         | 2440    | Reference          | 0.46              | 0.46        | ---        | PASS    |
|          |         |         | 30~1000            | 0.46              | -69.66      | ≤-19.54    | PASS    |
|          |         |         | 1000~265<br>00     | 0.46              | -53.63      | ≤-19.54    | PASS    |
|          |         | 2480    | Reference          | -0.60             | -0.60       | ---        | PASS    |
|          |         |         | 30~1000            | -0.60             | -70.16      | ≤-20.6     | PASS    |
|          |         |         | 1000~265<br>00     | -0.60             | -53.28      | ≤-20.6     | PASS    |

## Test Graphs

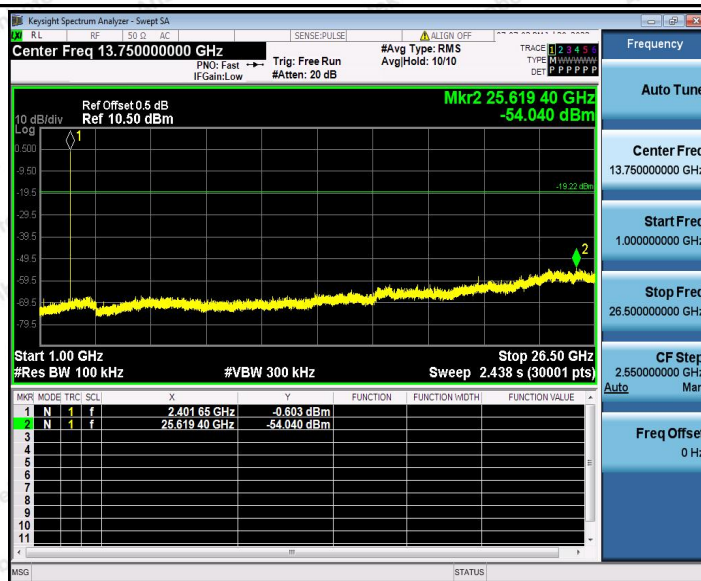
BLE\_1M\_Ant1\_2402\_0~Reference



BLE\_1M\_Ant1\_2402\_30~1000



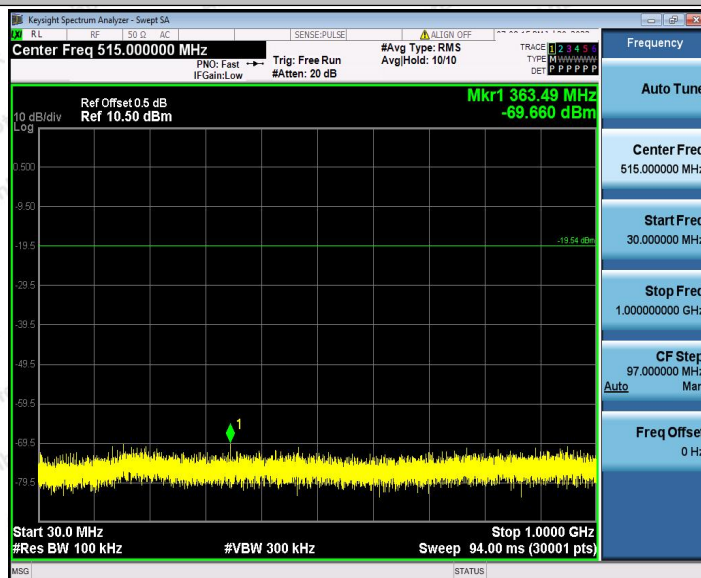
BLE\_1M\_Ant1\_2402\_1000~26500



BLE\_1M\_Ant1\_2440\_0~Reference



BLE\_1M\_Ant1\_2440\_30~1000



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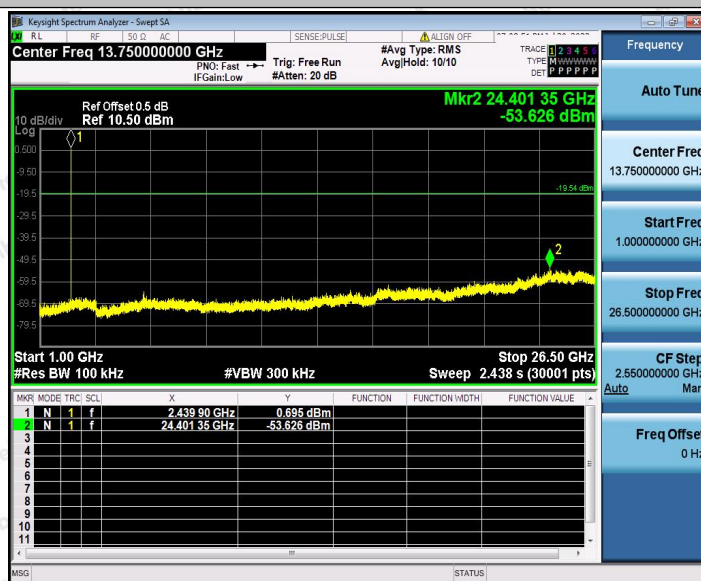


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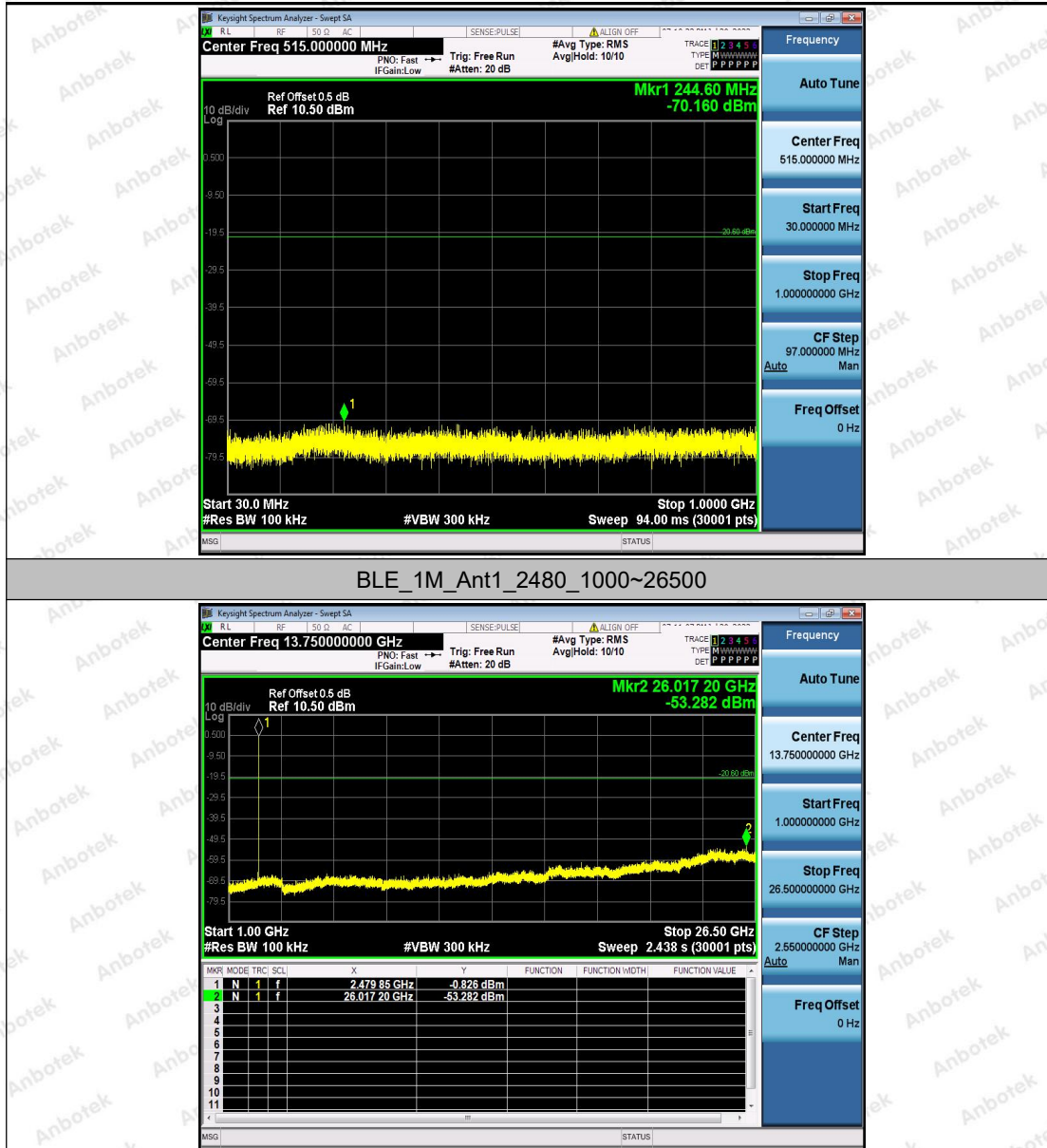
BLE\_1M\_Ant1\_2440\_1000~26500



BLE\_1M\_Ant1\_2480\_0~Reference



BLE\_1M\_Ant1\_2480\_30~1000



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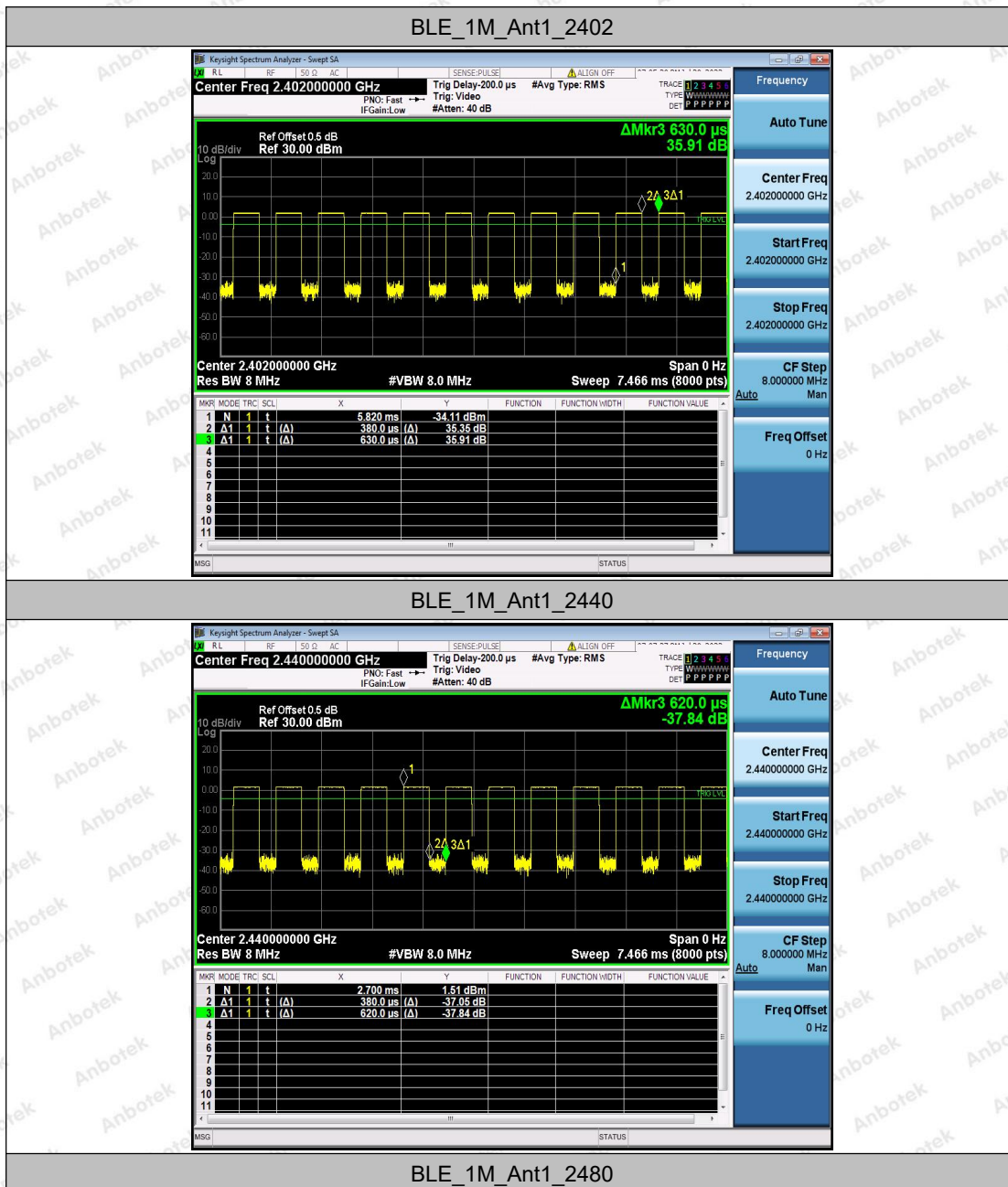
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## Appendix G: Duty Cycle

### Test Result

| TestMode | Antenna | Channel | ON Time<br>[ms] | Period<br>[ms] | X          | DC<br>[%] | xFactor | Limit | Verdict |
|----------|---------|---------|-----------------|----------------|------------|-----------|---------|-------|---------|
| BLE_1M   | Ant1    | 2402    | 0.38            | 0.63           | 0.603<br>2 | 60.32     | 2.20    | ---   | PASS    |
|          |         | 2440    | 0.38            | 0.62           | 0.612<br>9 | 61.29     | 2.13    | ---   | PASS    |
|          |         | 2480    | 0.38            | 0.63           | 0.603<br>2 | 60.32     | 2.20    | ---   | PASS    |

## Test Graphs



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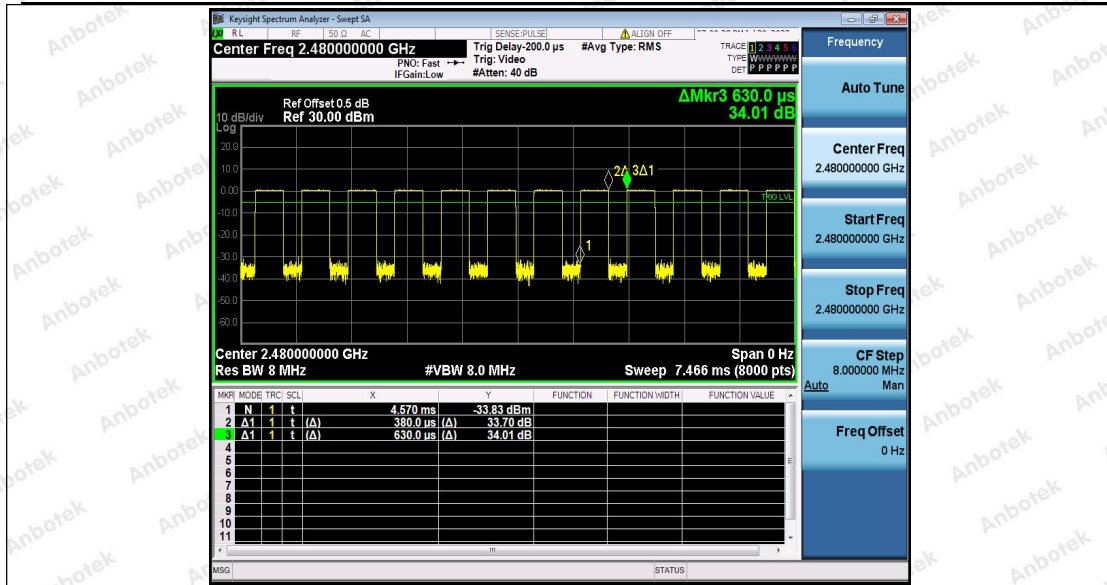
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