

## Appendix Test Data

|                  |                 |                    |                   |
|------------------|-----------------|--------------------|-------------------|
| Report No.:      | 18220WC20028201 | Test Sample No.:   | 1-2-2             |
| Start Test Date: | 2022.2.22       | Finish Test Date:  | 2022.2.28         |
| Test Engineer:   | <i>Tony He</i>  | Auditor:           | <i>Edward Pan</i> |
| Temperature:     | 24.3C°          | Relative Humidity: | 56.5 %            |
| 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    | 0.708        | 2401.644 | 2402.352 | ≥0.5       | PASS    |
|          |         | 2440    | 0.712        | 2439.640 | 2440.352 | ≥0.5       | PASS    |
|          |         | 2480    | 0.716        | 2479.640 | 2480.356 | ≥0.5       | PASS    |

## Test Graphs

BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



BLE\_1M\_Ant1\_2480

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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    | 1.0503    | 2401.483 | 2402.533 | ---        | PASS    |
|          |         | 2440    | 1.0413    | 2439.483 | 2440.524 | ---        | PASS    |
|          |         | 2480    | 1.0346    | 2479.484 | 2480.519 | ---        | PASS    |

## Test Graphs

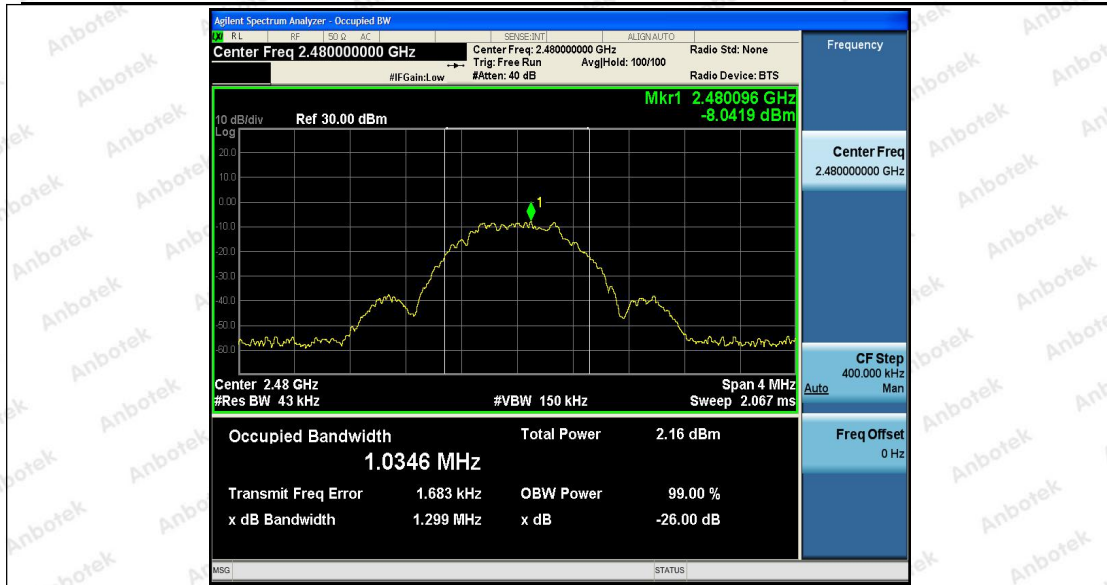


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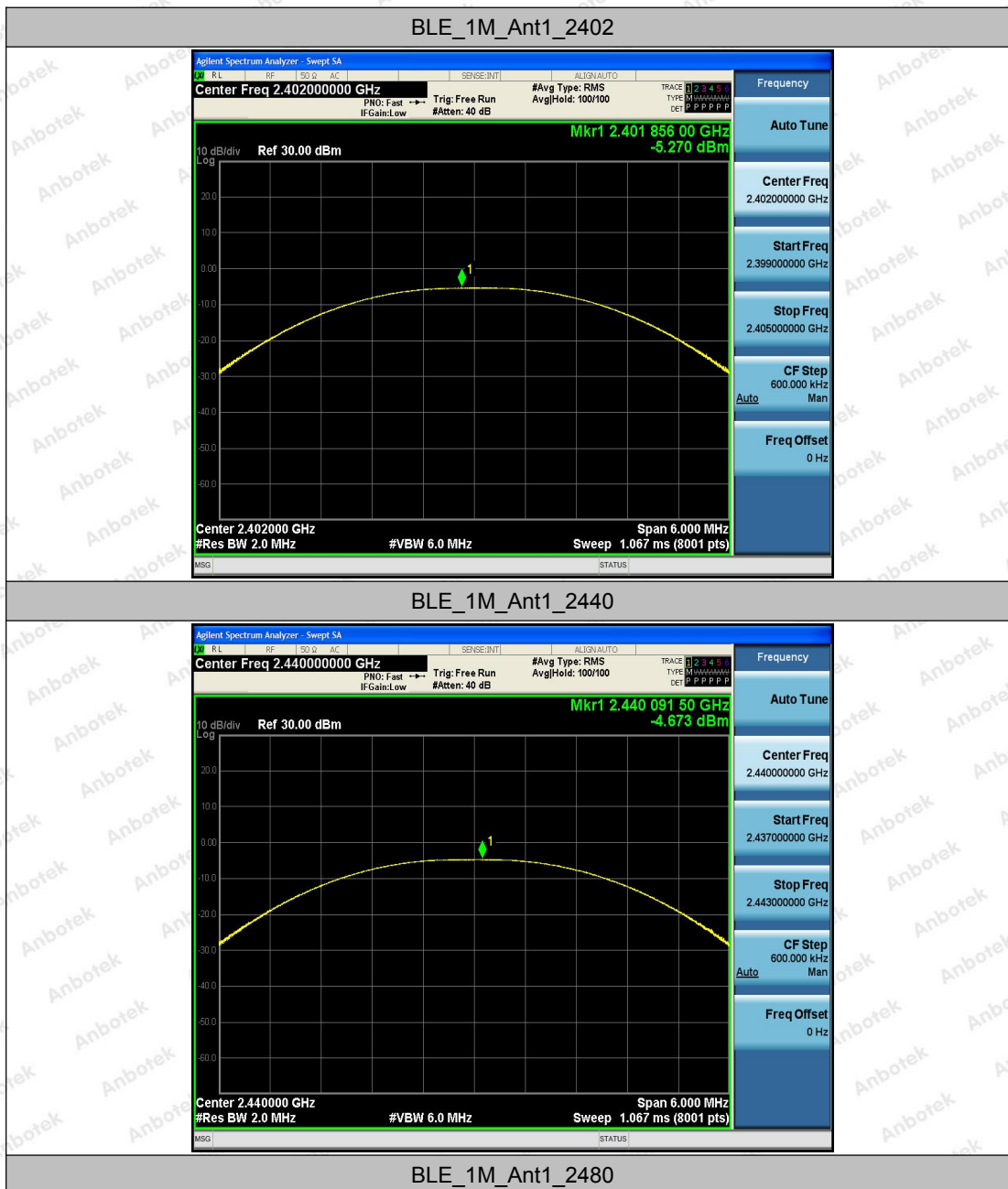
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## Appendix C: Maximum conducted output power

### Test Result

| TestMode | Antenna | Channel | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|-------------|------------|---------|
| BLE_1M   | Ant1    | 2402    | -5.27       | ≤30        | PASS    |
|          |         | 2440    | -4.67       | ≤30        | PASS    |
|          |         | 2480    | -4.37       | ≤30        | PASS    |

## Test Graphs

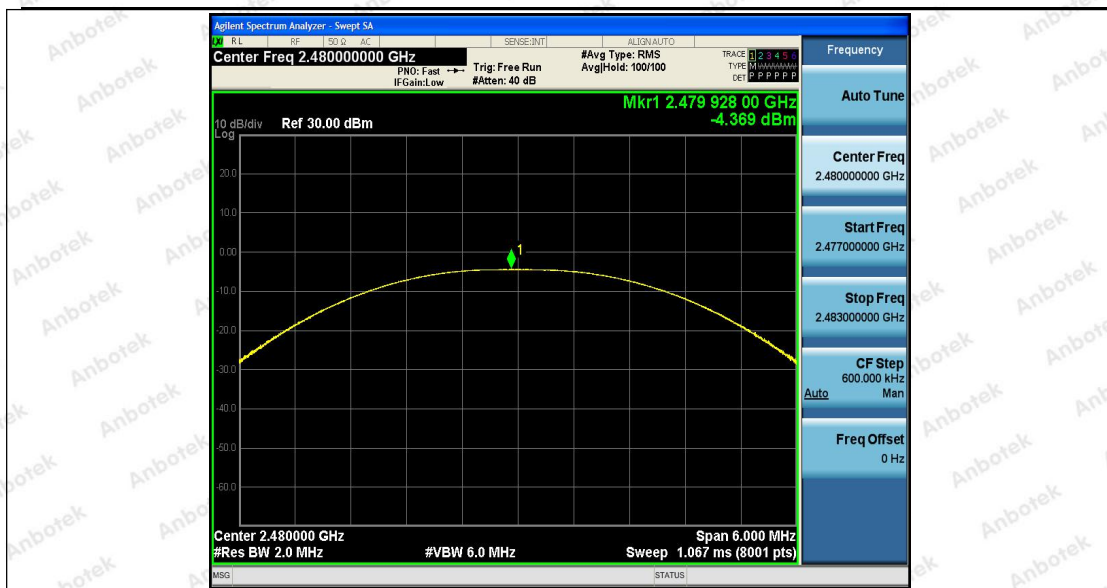


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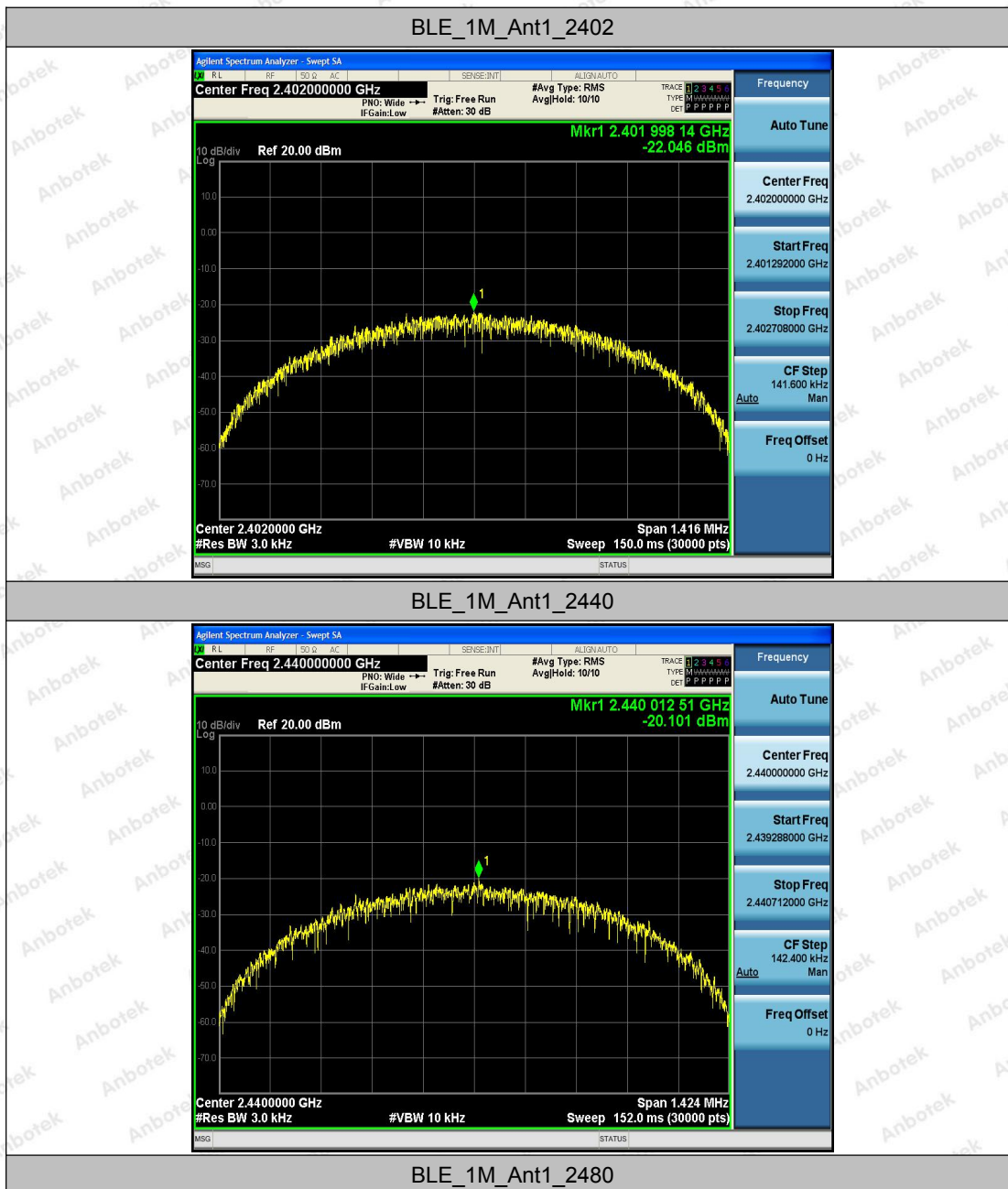
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## Appendix D: Maximum power spectral density

### Test Result

| TestMode | Antenna | Channel | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|---------|------------------|-----------------|---------|
| BLE_1M   | Ant1    | 2402    | -22.05           | ≤8              | PASS    |
|          |         | 2440    | -20.1            | ≤8              | PASS    |
|          |         | 2480    | -20.02           | ≤8              | PASS    |

## Test Graphs

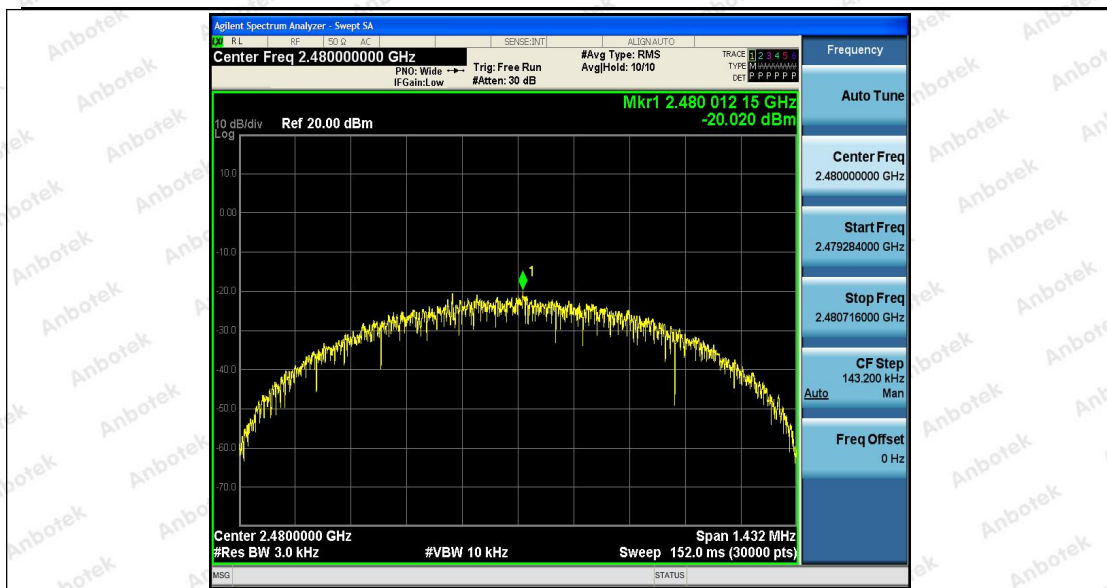


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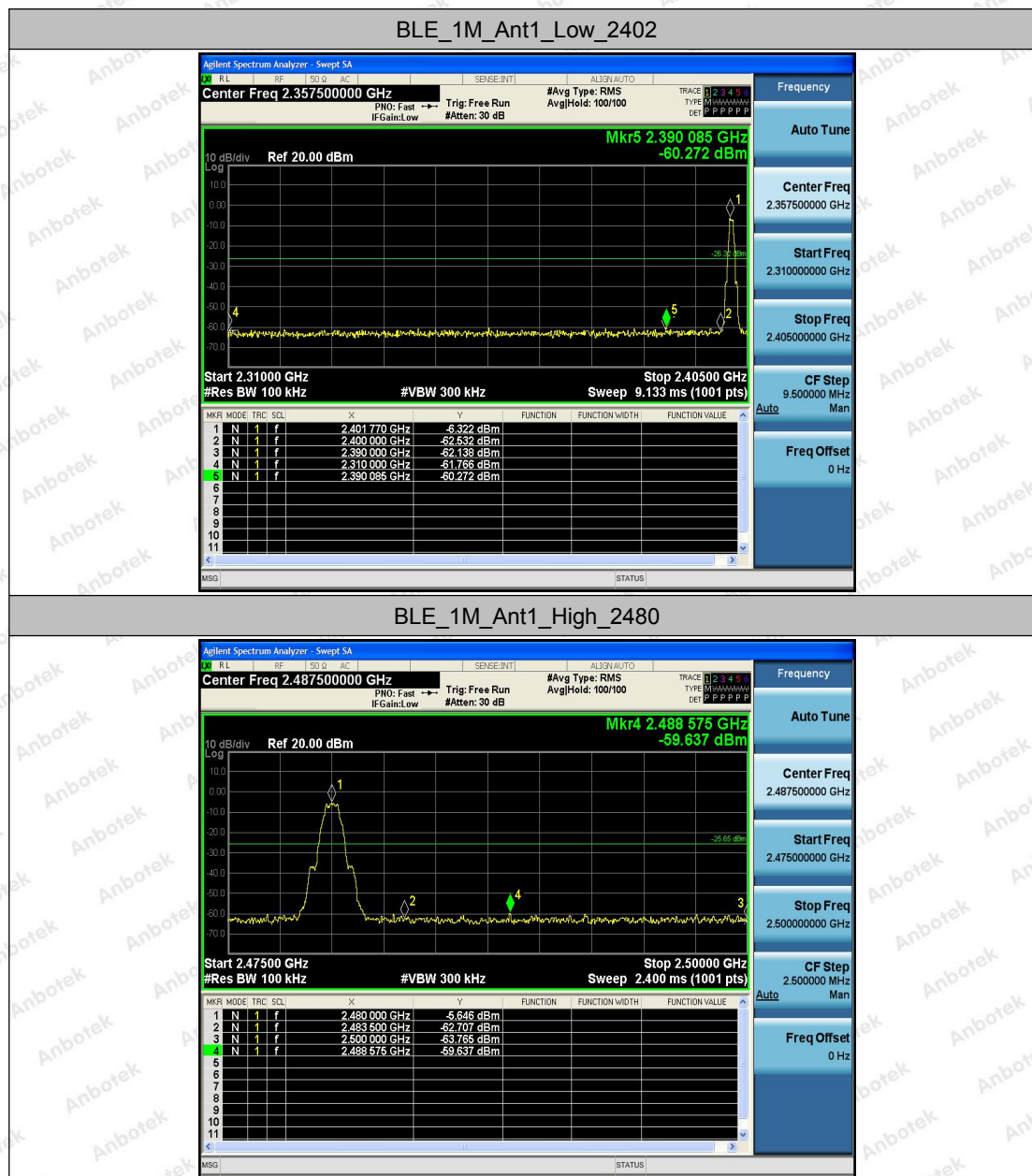
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## Appendix E: Band edge measurements

### Test Result

| TestMode | Antenna | ChName | Channel | RefLevel[dBm] | Result[dBm] | Limit[dBm]    | Verdict |
|----------|---------|--------|---------|---------------|-------------|---------------|---------|
| BLE_1M   | Ant1    | Low    | 2402    | -6.32         | -60.27      | $\leq -26.32$ | PASS    |
|          |         | High   | 2480    | -5.65         | -59.64      | $\leq -25.65$ | PASS    |

## Test Graphs



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## Appendix F: Conducted Spurious Emission

### Test Result

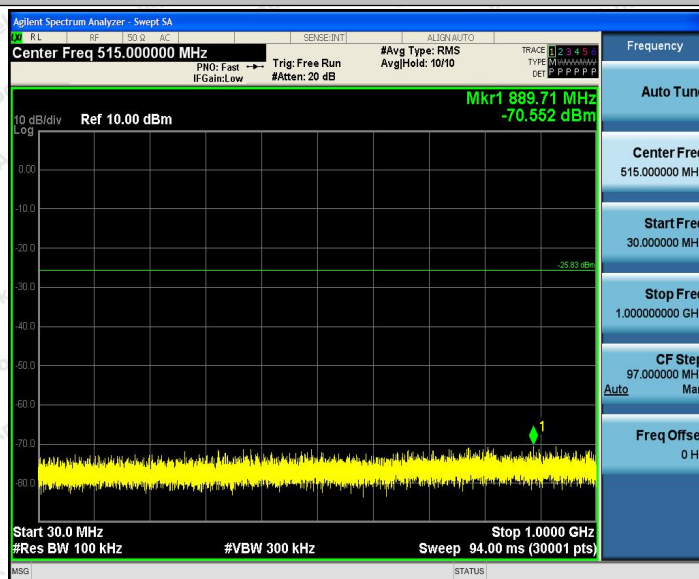
| TestMode | Antenna | Channel | FreqRange<br>[MHz] | RefLevel<br>[dBm] | Result[dBm] | Limit[dBm]    | Verdict |
|----------|---------|---------|--------------------|-------------------|-------------|---------------|---------|
| BLE_1M   | Ant1    | 2402    | Reference          | -5.83             | -5.83       | ---           | PASS    |
|          |         |         | 30~1000            | -5.83             | -70.55      | $\leq -25.83$ | PASS    |
|          |         |         | 1000~265<br>00     | -5.83             | -55.16      | $\leq -25.83$ | PASS    |
|          |         | 2440    | Reference          | -5.32             | -5.32       | ---           | PASS    |
|          |         |         | 30~1000            | -5.32             | -70.41      | $\leq -25.32$ | PASS    |
|          |         |         | 1000~265<br>00     | -5.32             | -54.93      | $\leq -25.32$ | PASS    |
|          |         | 2480    | Reference          | -5.51             | -5.51       | ---           | PASS    |
|          |         |         | 30~1000            | -5.51             | -70.25      | $\leq -25.51$ | PASS    |
|          |         |         | 1000~265<br>00     | -5.51             | -55.45      | $\leq -25.51$ | PASS    |

## Test Graphs

BLE\_1M\_Ant1\_2402\_0~Reference



BLE\_1M\_Ant1\_2402\_30~1000



BLE\_1M\_Ant1\_2402\_1000~26500

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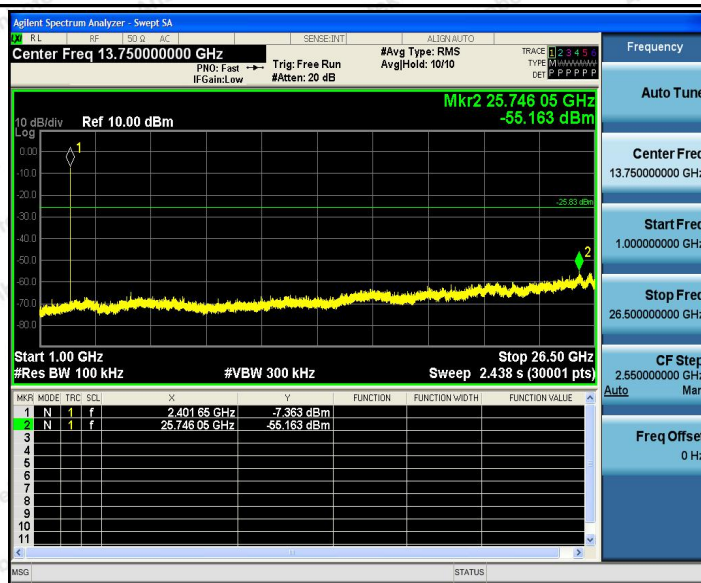
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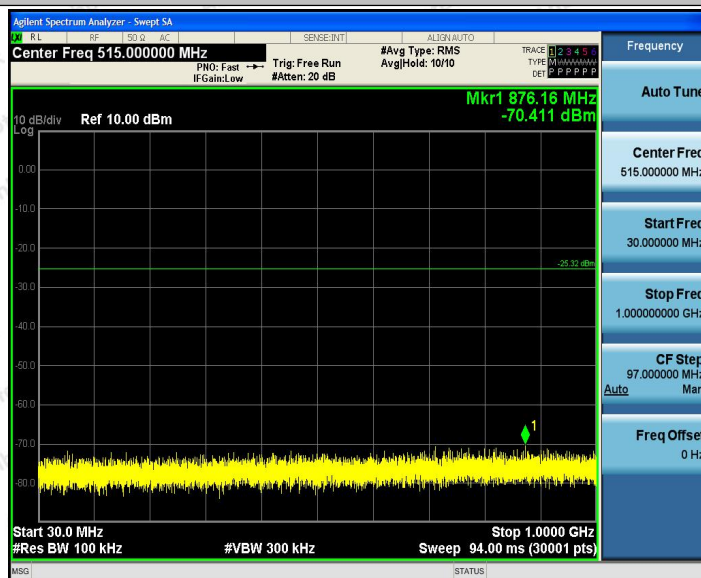
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BLE\_1M\_Ant1\_2440\_0~Reference



BLE\_1M\_Ant1\_2440\_30~1000



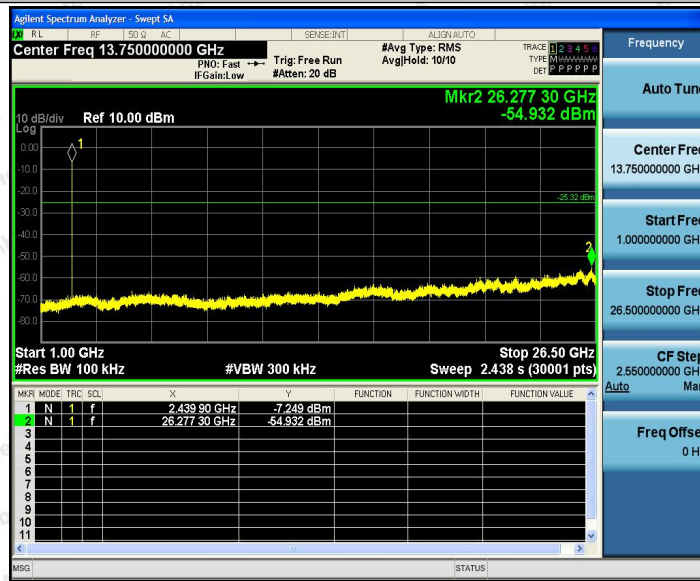
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## BLE\_1M\_Ant1\_2440\_1000~26500



## BLE\_1M\_Ant1\_2480\_0~Reference



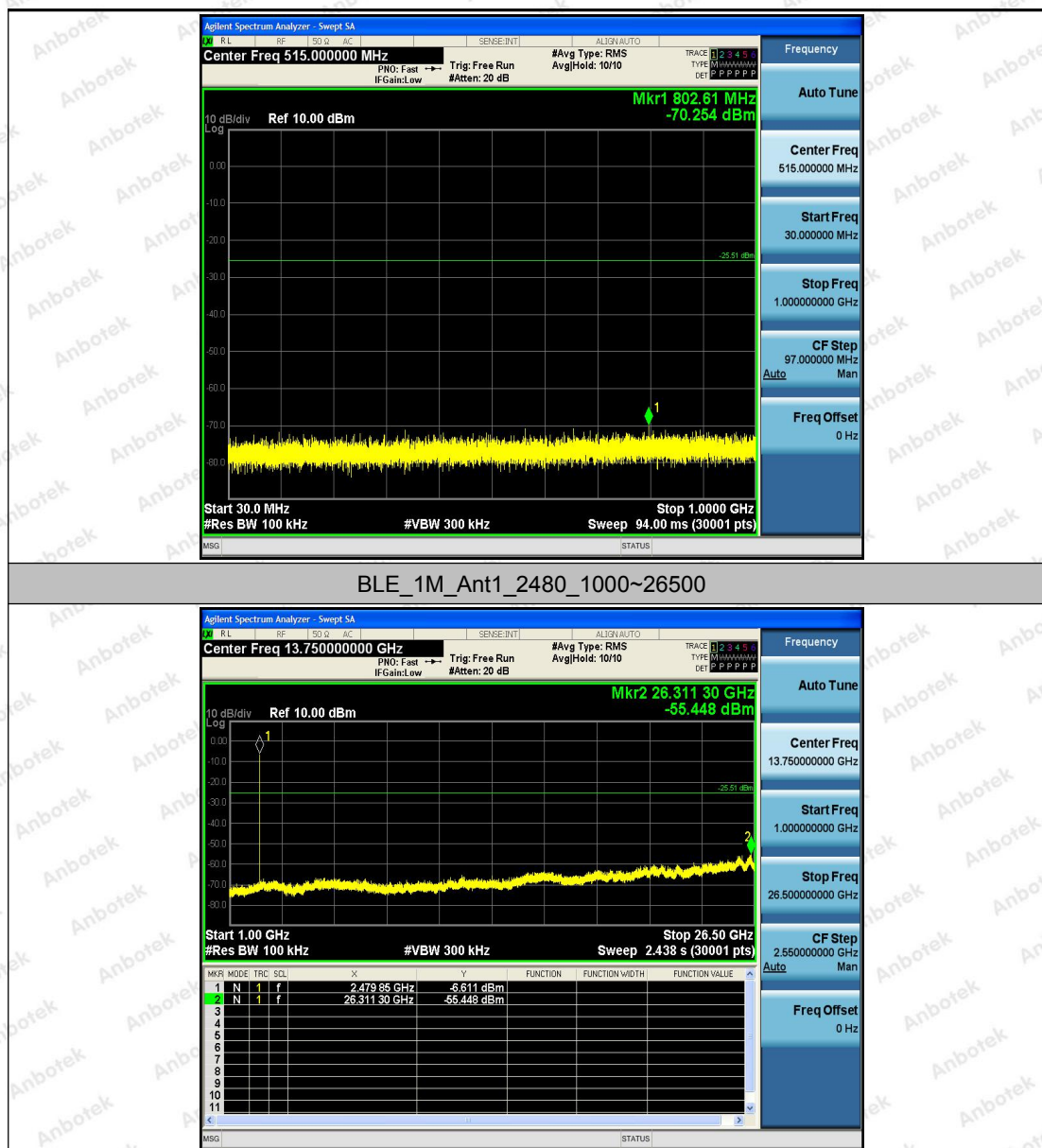
## BLE\_1M\_Ant1\_2480\_30~1000

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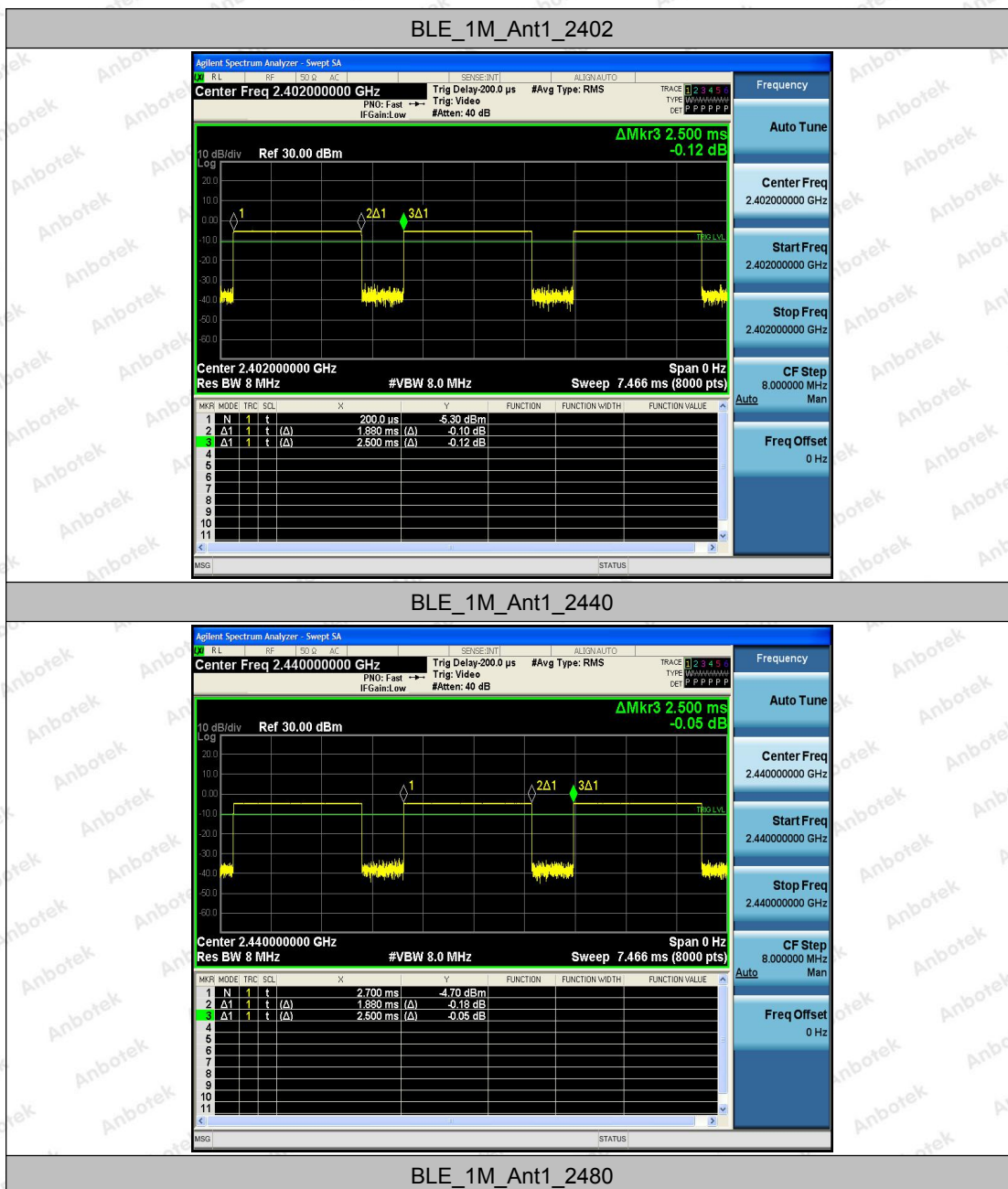
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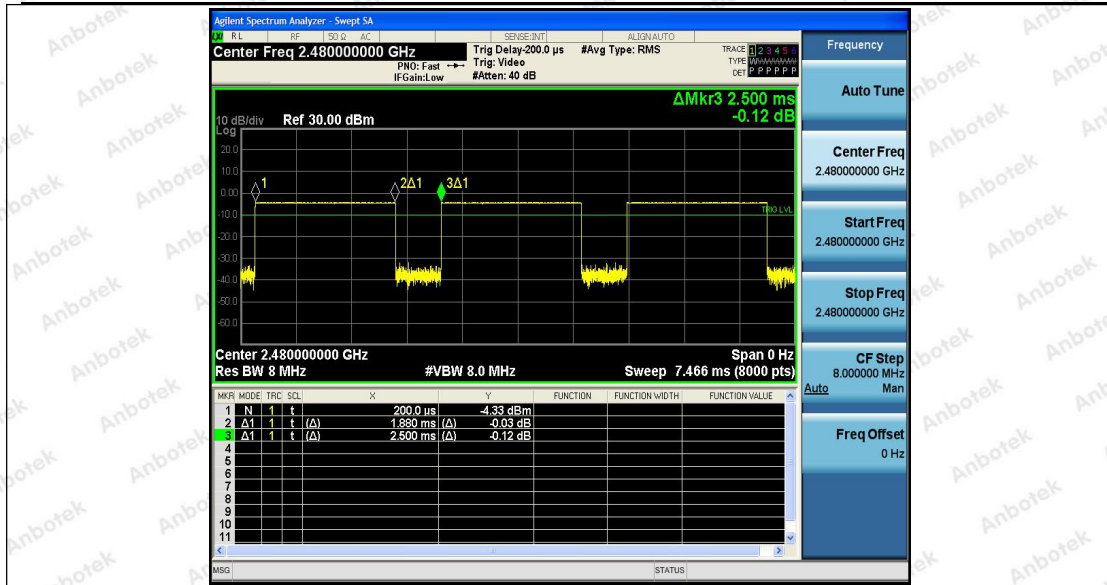
## Appendix G: Duty Cycle

### Test Result

| TestMode | Antenna | Channel | ON Time<br>[ms] | Period<br>[ms] | X          | DC<br>[%] | xFactor | Limit | Verdict |
|----------|---------|---------|-----------------|----------------|------------|-----------|---------|-------|---------|
| BLE_1M   | Ant1    | 2402    | 1.88            | 2.50           | 0.752<br>0 | 75.20     | 1.24    | ---   | PASS    |
|          |         | 2440    | 1.88            | 2.50           | 0.752<br>0 | 75.20     | 1.24    | ---   | PASS    |
|          |         | 2480    | 1.88            | 2.50           | 0.752<br>0 | 75.20     | 1.24    | ---   | PASS    |

## Test Graphs





---End---