

## Appendix Test Data

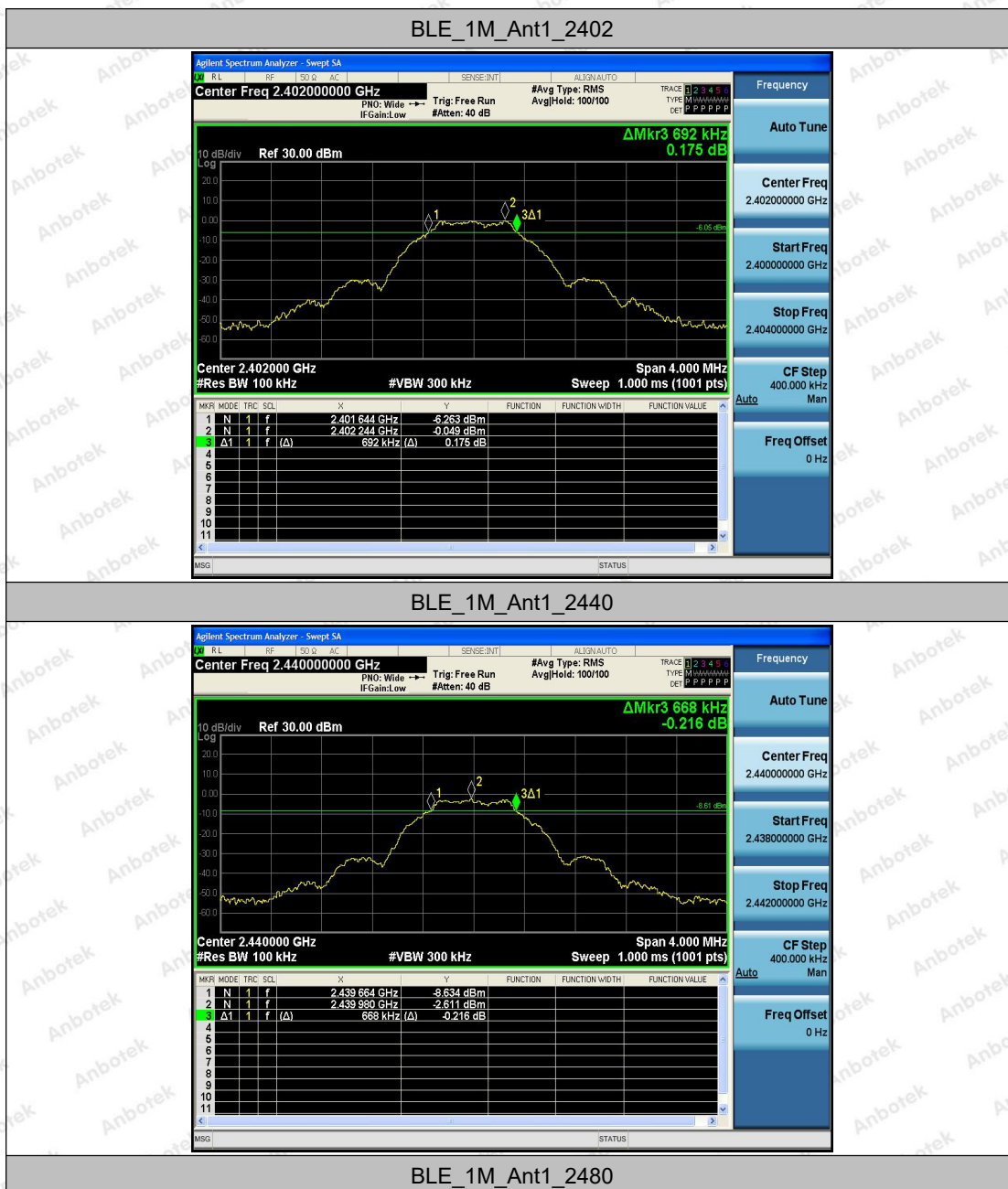
|                |                 |                    |                   |
|----------------|-----------------|--------------------|-------------------|
| Report No.:    | 18220WC10200101 | Test Date:         | 2021.9.13         |
| Test Engineer: | <i>Tony He</i>  | Auditor:           | <i>Edward Pan</i> |
| Temperature:   | 24.3°C          | Relative Humidity: | 57 %              |
| Pressure:      | 1012 hPa        |                    |                   |

## Appendix A: DTS Bandwidth

## Test Result

| TestMode | Antenna | Channel | DTS BW<br>[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|---------|-----------------|----------|----------|------------|---------|
| BLE_1M   | Ant1    | 2402    | 0.692           | 2401.644 | 2402.336 | ≥0.5       | PASS    |
|          |         | 2440    | 0.668           | 2439.664 | 2440.332 | ≥0.5       | PASS    |
|          |         | 2480    | 0.708           | 2479.632 | 2480.340 | ≥0.5       | PASS    |

## Test Graphs



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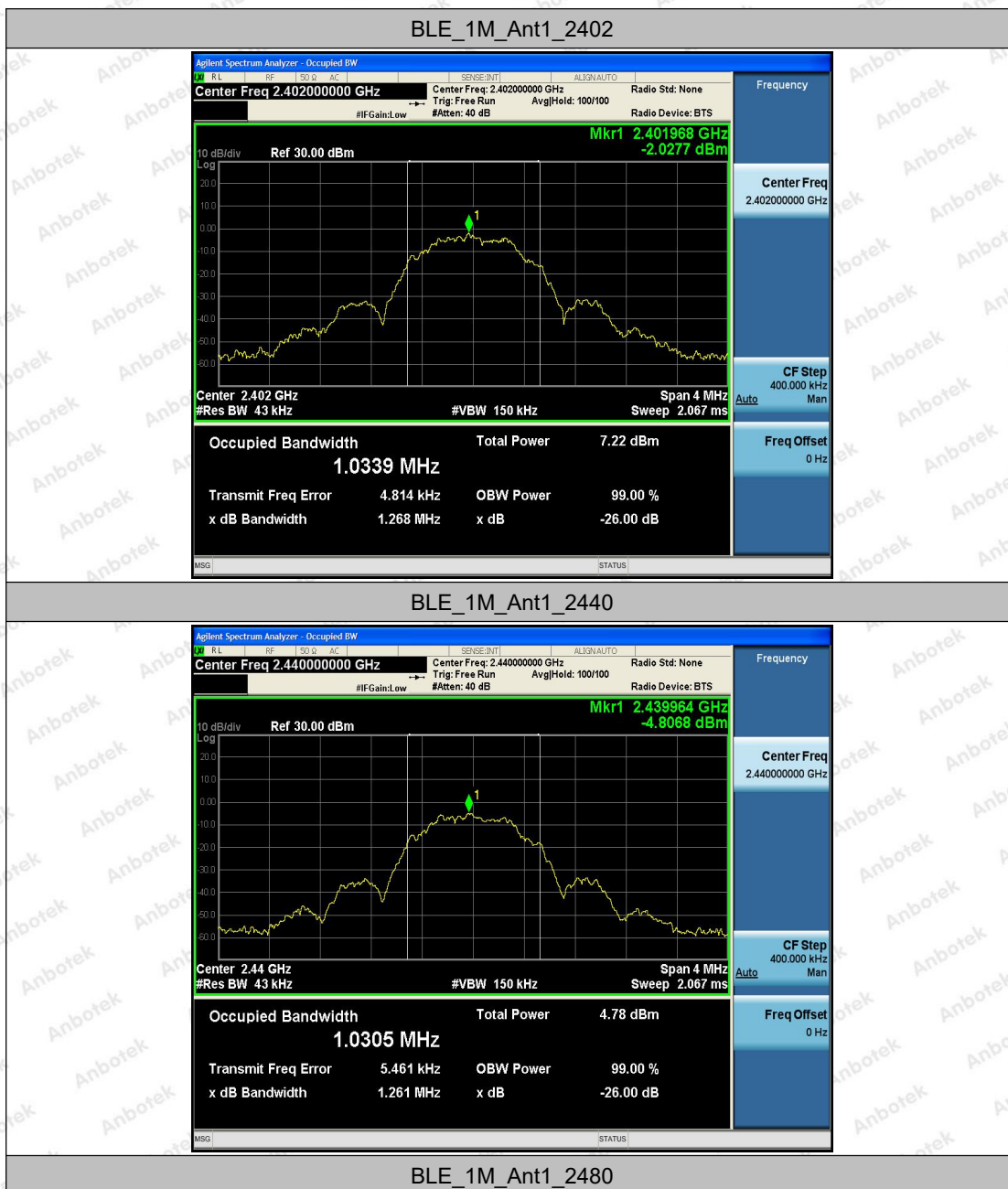
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## Appendix B: Occupied Channel Bandwidth

### Test Result

| TestMode | Antenna | Channel | OCB [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|---------|-----------|----------|----------|------------|---------|
| BLE_1M   | Ant1    | 2402    | 1.0339    | 2401.488 | 2402.522 | ---        | PASS    |
|          |         | 2440    | 1.0305    | 2439.490 | 2440.521 | ---        | PASS    |
|          |         | 2480    | 1.0268    | 2479.494 | 2480.521 | ---        | PASS    |

## Test Graphs



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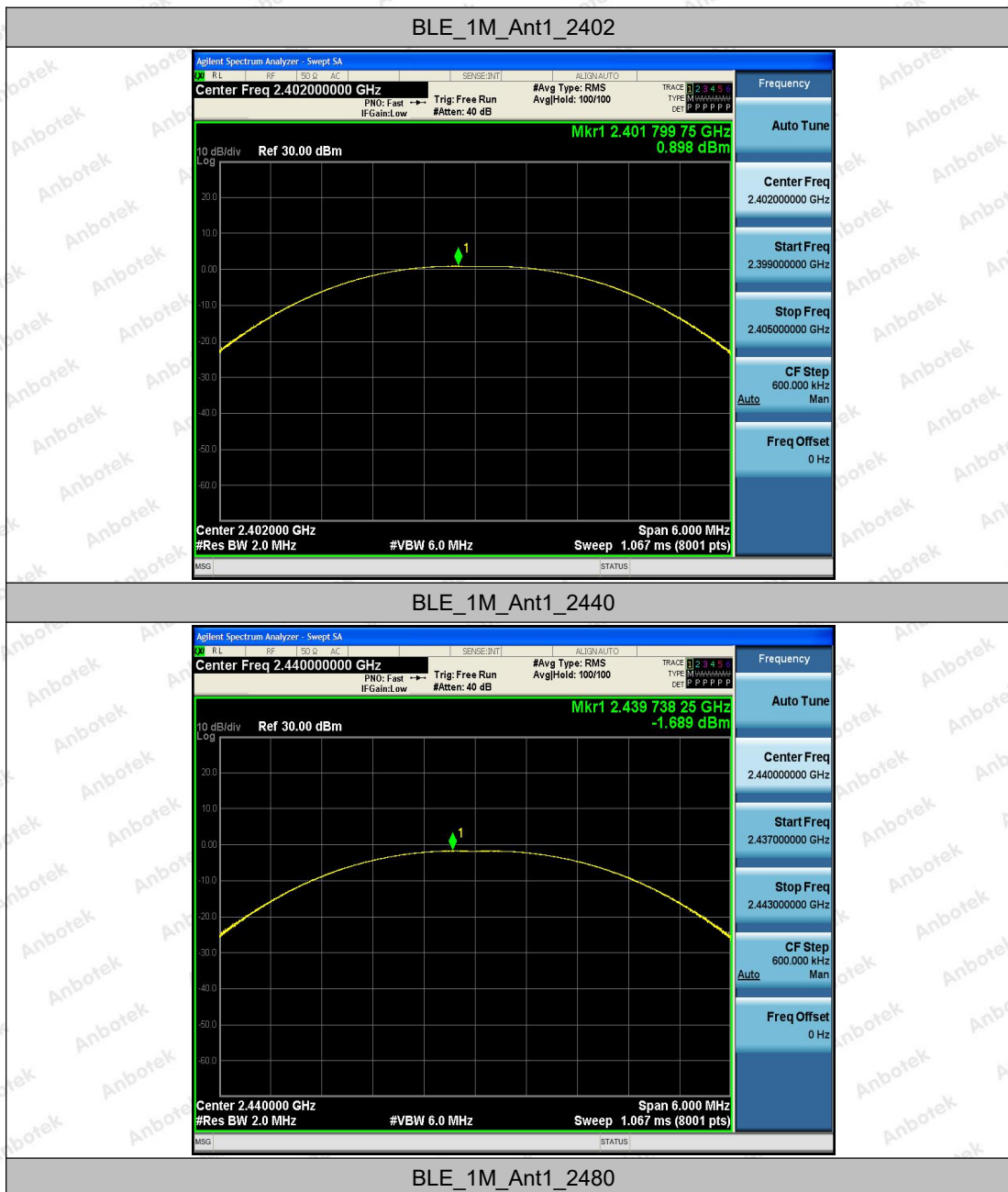
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## Appendix C: Maximum conducted output power

### Test Result

| TestMode | Antenna | Channel | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|-------------|------------|---------|
| BLE_1M   | Ant1    | 2402    | 0.9         | ≤30        | PASS    |
|          |         | 2440    | -1.69       | ≤30        | PASS    |
|          |         | 2480    | -0.59       | ≤30        | PASS    |

## Test Graphs

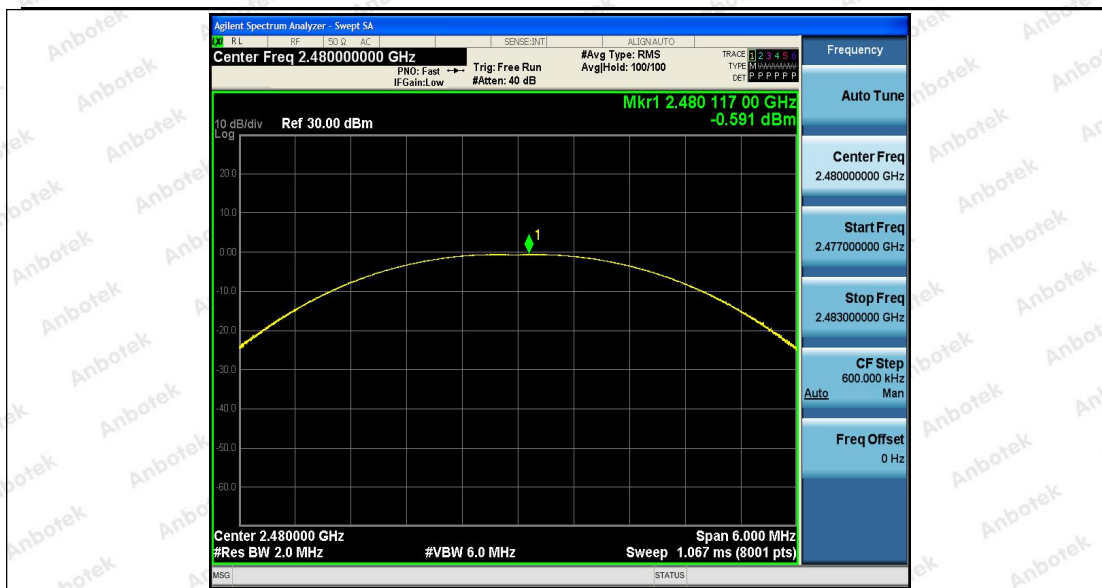


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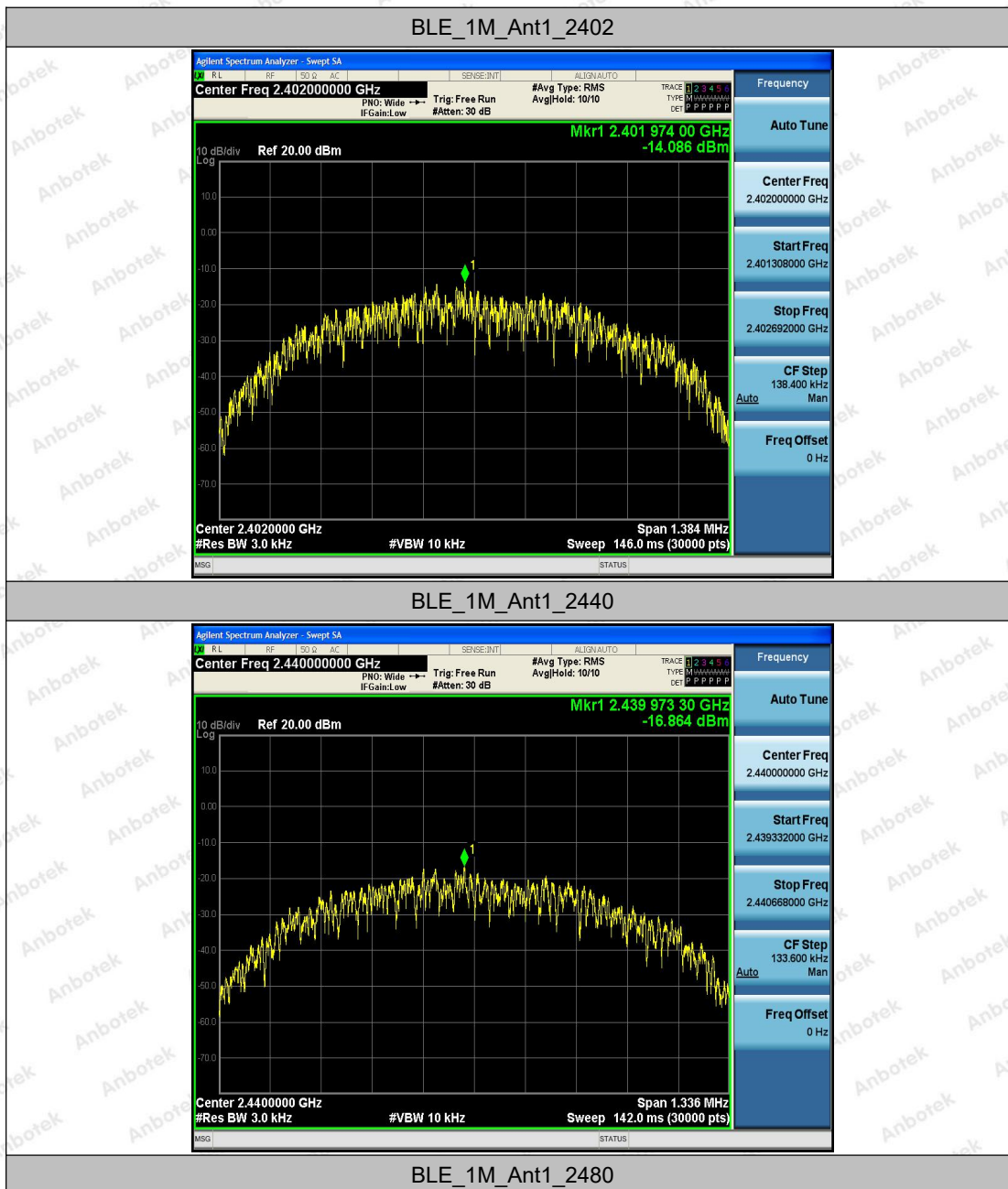
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## Appendix D: Maximum power spectral density

### Test Result

| TestMode | Antenna | Channel | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|---------|------------------|-----------------|---------|
| BLE_1M   | Ant1    | 2402    | -14.09           | ≤8              | PASS    |
|          |         | 2440    | -16.86           | ≤8              | PASS    |
|          |         | 2480    | -15.62           | ≤8              | PASS    |

## Test Graphs

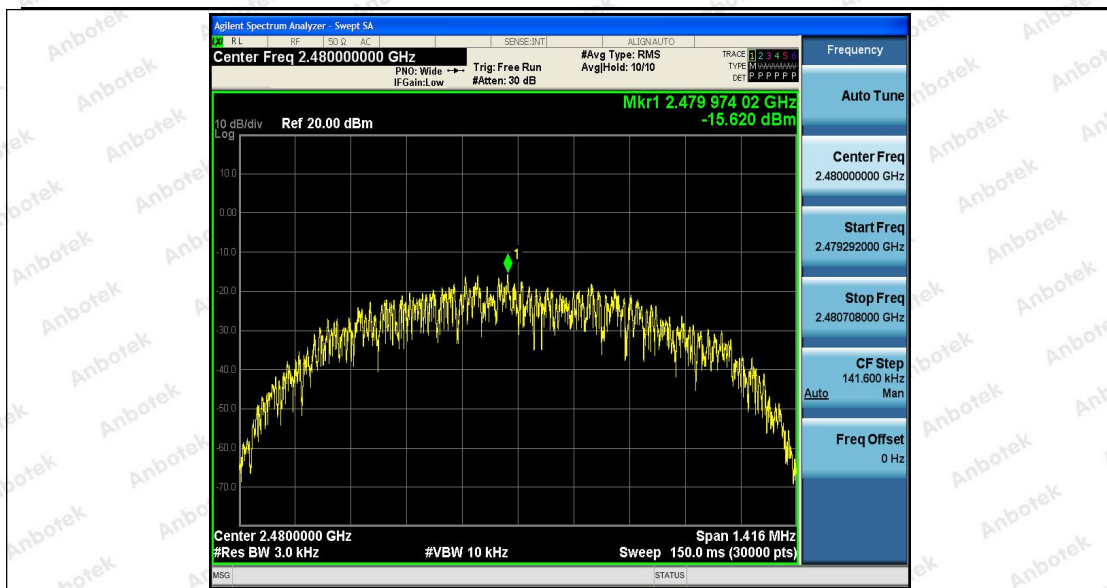


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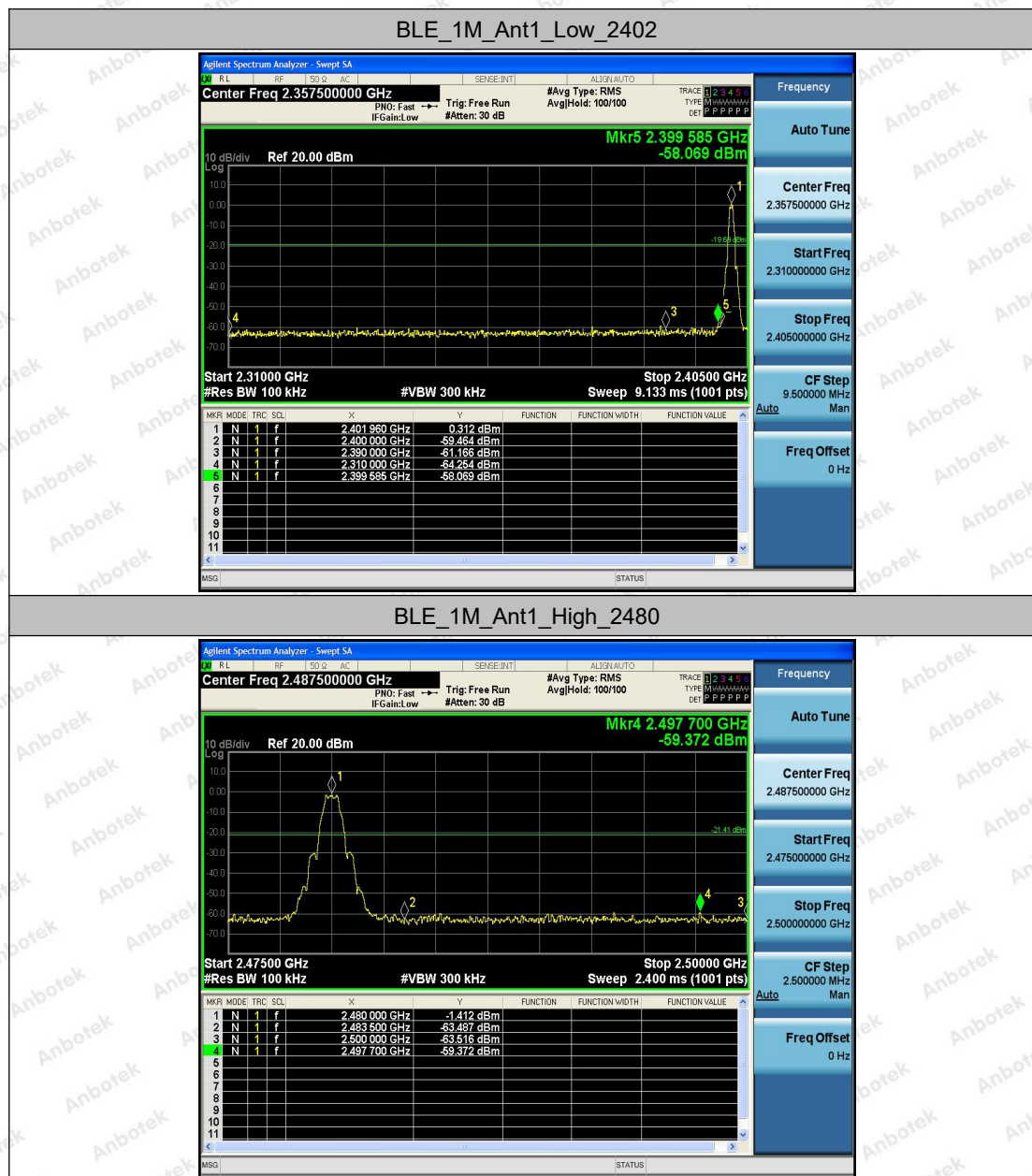
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## Appendix E: Band edge measurements

### Test Result

| TestMode | Antenna | ChName | Channel | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|--------|---------|---------------|-------------|------------|---------|
| BLE_1M   | Ant1    | Low    | 2402    | 0.31          | -58.07      | ≤-19.69    | PASS    |
|          |         | High   | 2480    | -1.41         | -59.37      | ≤-21.41    | PASS    |

## Test Graphs



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## Appendix F: Conducted Spurious Emission

### Test Result

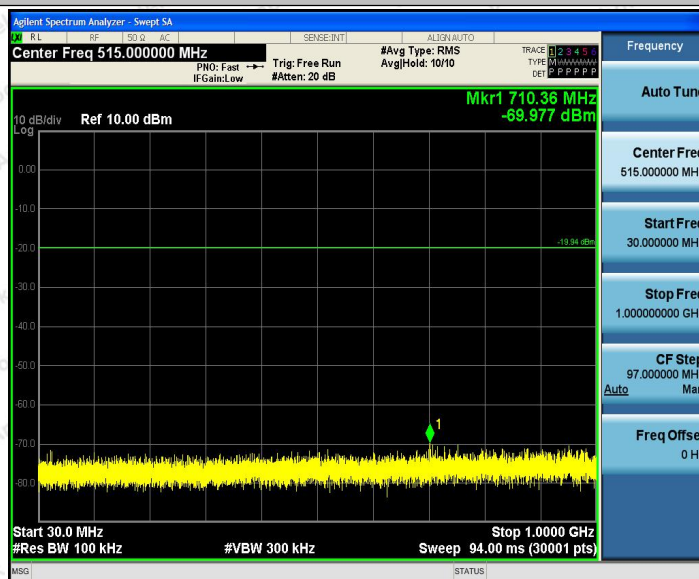
| TestMode | Antenna | Channel | FreqRange<br>[MHz] | RefLevel<br>[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|--------------------|-------------------|-------------|------------|---------|
| BLE_1M   | Ant1    | 2402    | Reference          | 0.06              | 0.06        | ---        | PASS    |
|          |         |         | 30~1000            | 0.06              | -69.98      | ≤-19.94    | PASS    |
|          |         |         | 1000~265<br>00     | 0.06              | -45.04      | ≤-19.94    | PASS    |
|          |         | 2440    | Reference          | -2.54             | -2.54       | ---        | PASS    |
|          |         |         | 30~1000            | -2.54             | -70.12      | ≤-22.54    | PASS    |
|          |         |         | 1000~265<br>00     | -2.54             | -48.25      | ≤-22.54    | PASS    |
|          |         | 2480    | Reference          | -1.43             | -1.43       | ---        | PASS    |
|          |         |         | 30~1000            | -1.43             | -69.99      | ≤-21.43    | PASS    |
|          |         |         | 1000~265<br>00     | -1.43             | -48.43      | ≤-21.43    | 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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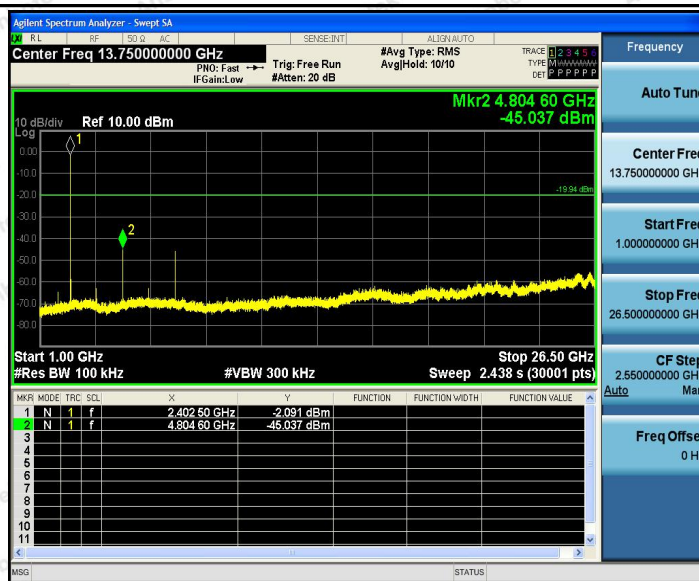
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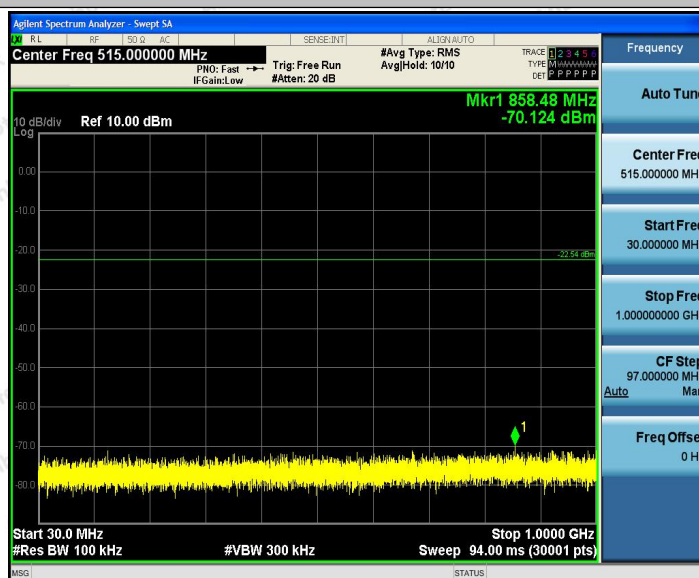
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BLE\_1M\_Ant1\_2440\_0~Reference



BLE\_1M\_Ant1\_2440\_30~1000



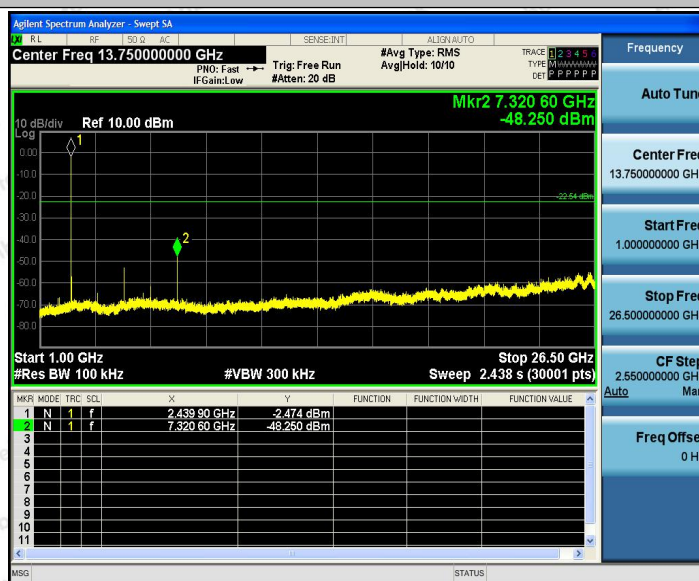
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## BLE\_1M\_Ant1\_2440\_1000~26500



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



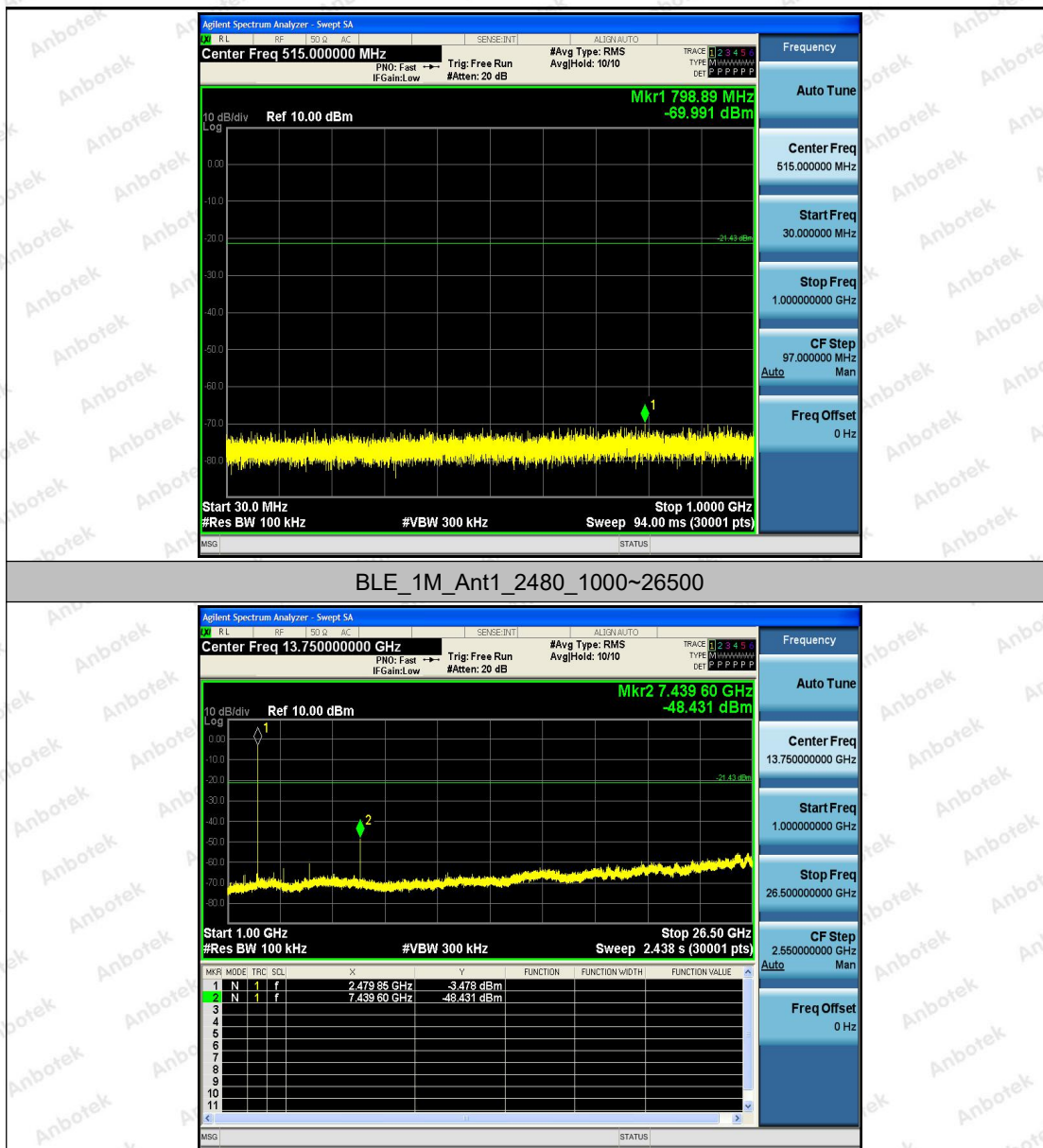
## BLE\_1M\_Ant1\_2480\_30~1000

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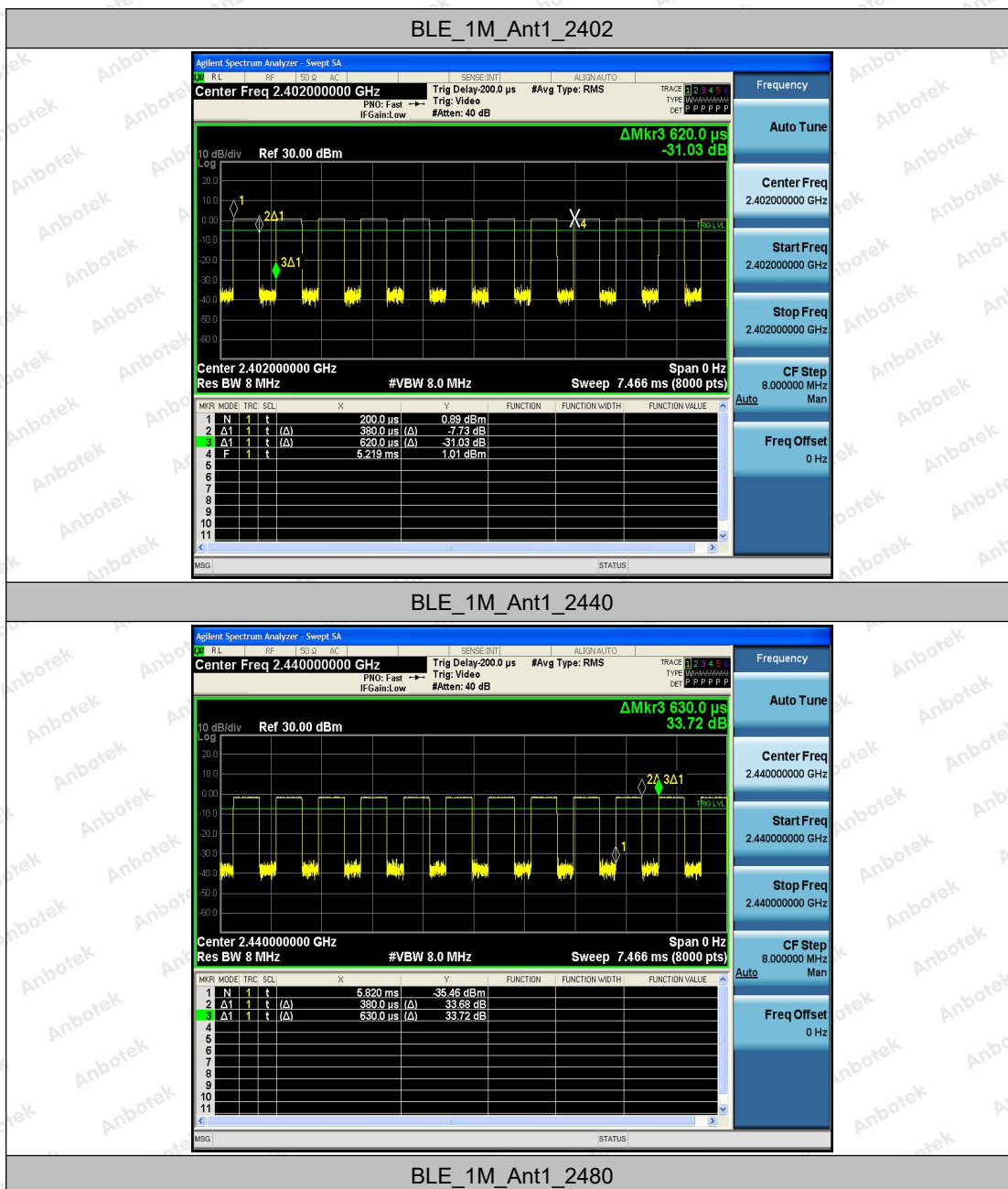
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## Appendix G: Duty Cycle

### Test Result

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

## Test Graphs

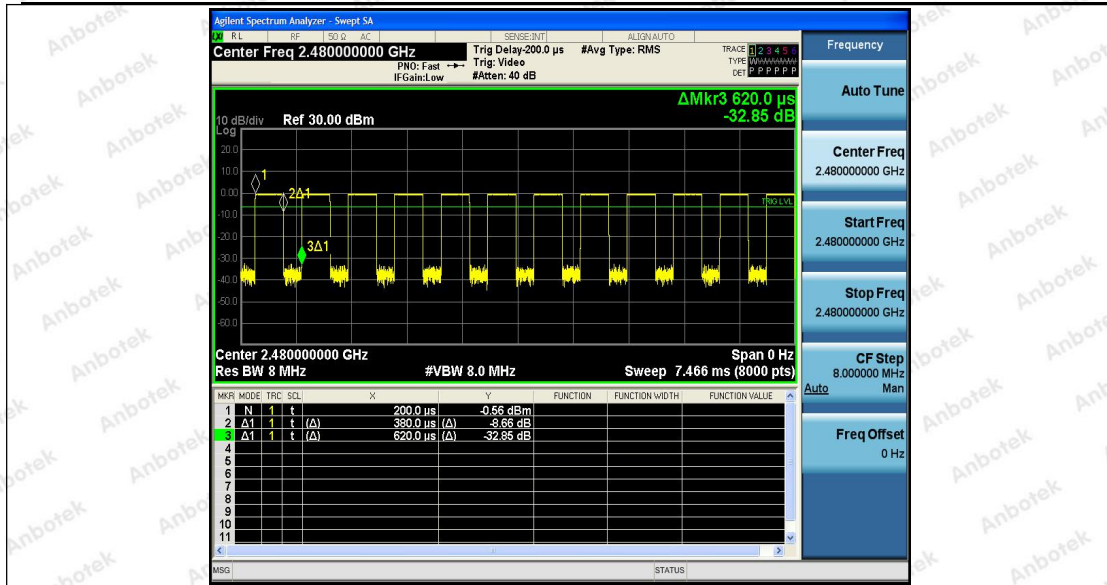


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