

## Appendix Test Data

|                  |                 |                    |                   |
|------------------|-----------------|--------------------|-------------------|
| Report No.:      | 18220WC30013701 | Test Sample No.:   | 1-2-2             |
| Start Test Date: | 2023.2.4        | Finish Test Date:  | 2023.2.6          |
| Test Engineer:   | <i>Tony He</i>  | Auditor:           | <i>Edward Pan</i> |
| Temperature:     | 24.3°C          | Relative Humidity: | 43 %              |
| Pressure:        | 1012 hPa        |                    |                   |

## Appendix A: DTS Bandwidth

## Test Result

| TestMode | Antenna | Frequency[MHz] | DTS BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|----------------|--------------|----------|----------|------------|---------|
| BLE_1M   | Ant1    | 2402           | 0.628        | 2401.688 | 2402.316 | 0.5        | PASS    |
|          |         | 2440           | 0.684        | 2439.680 | 2440.364 | 0.5        | PASS    |
|          |         | 2480           | 0.684        | 2479.676 | 2480.360 | 0.5        | PASS    |



## Test Graphs

BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



BLE\_1M\_Ant1\_2480

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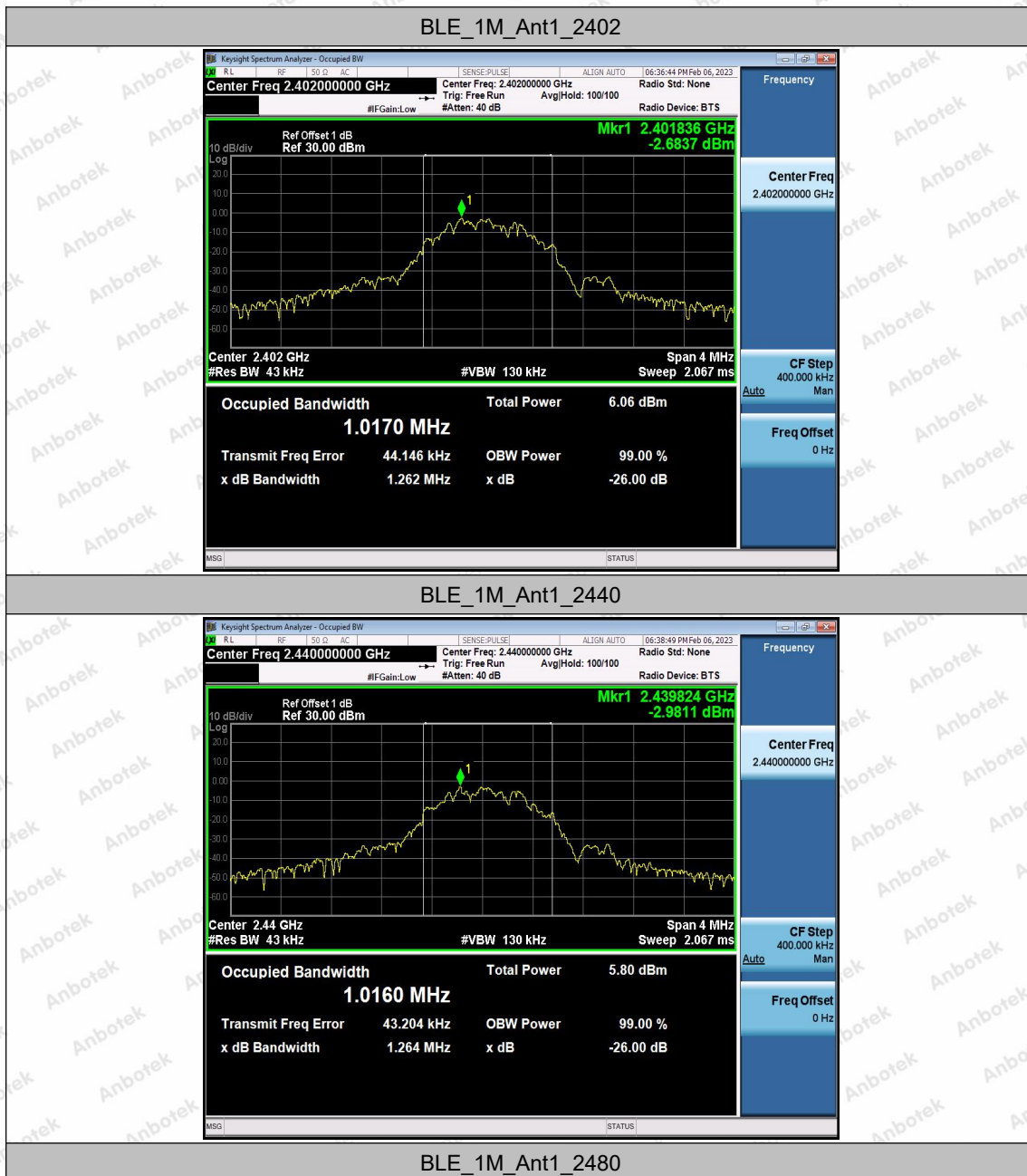
## Appendix B: Occupied Channel Bandwidth

### Test Result

| TestMode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   |
|----------|---------|----------------|-----------|-----------|-----------|
| BLE_1M   | Ant1    | 2402           | 1.0170    | 2401.5357 | 2402.5527 |
|          |         | 2440           | 1.0160    | 2439.5352 | 2440.5512 |
|          |         | 2480           | 1.0332    | 2479.5264 | 2480.5596 |



## Test Graphs



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## Appendix C: Maximum conducted output power

### Test Result Peak

| TestMode | Antenna | Frequency[MHz] | Conducted Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|----------|---------|----------------|---------------------------|----------------------|---------|
| BLE_1M   | Ant1    | 2402           | 0.61                      | ≤30                  | PASS    |
|          |         | 2440           | 0.45                      | ≤30                  | PASS    |
|          |         | 2480           | 0.21                      | ≤30                  | PASS    |



## Test Graphs Peak

BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



BLE\_1M\_Ant1\_2480

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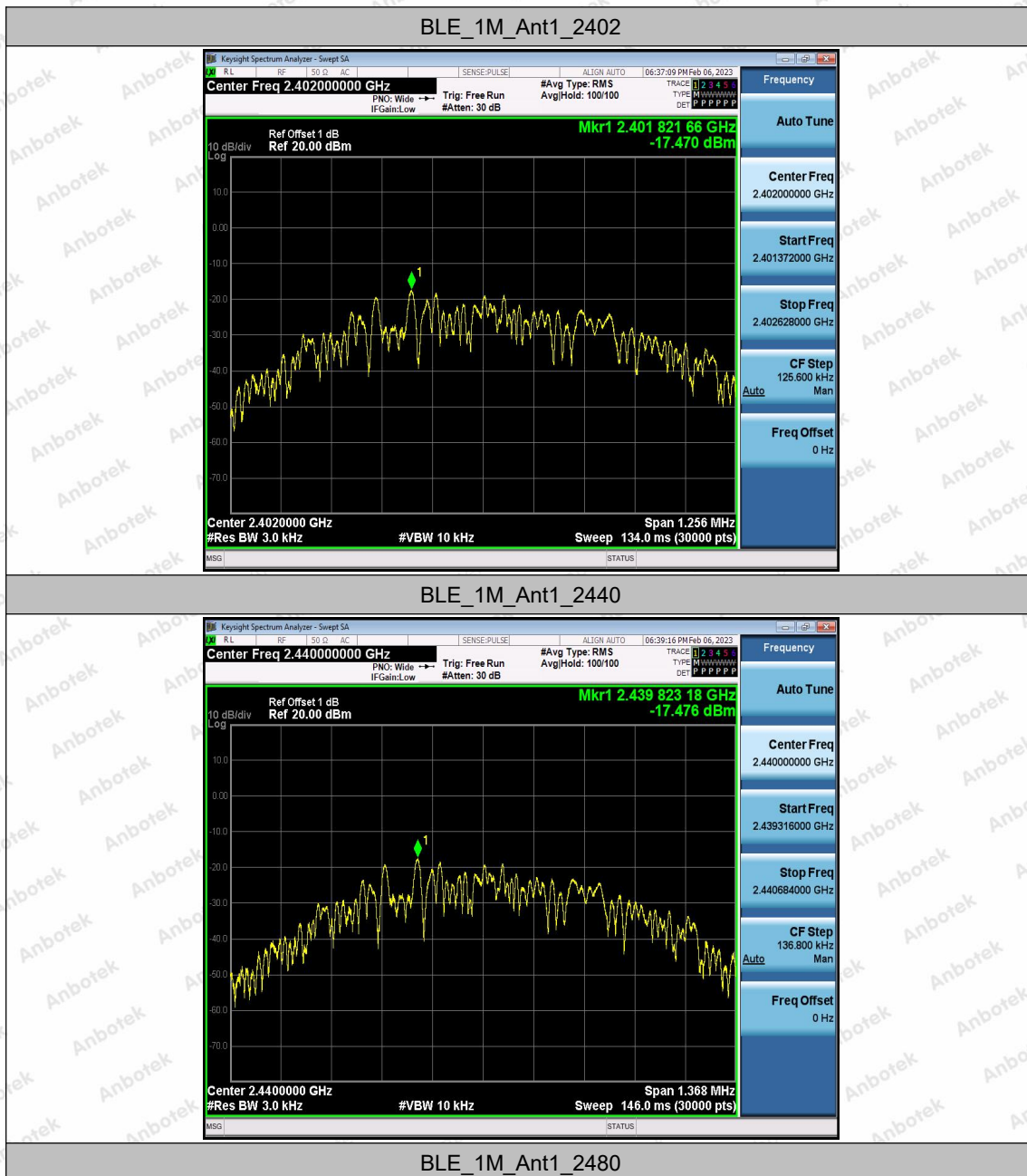
## Appendix D: Maximum power spectral density

### Test Result

| TestMode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|----------------|------------------|-----------------|---------|
| BLE_1M   | Ant1    | 2402           | -17.47           | ≤8.00           | PASS    |
|          |         | 2440           | -17.48           | ≤8.00           | PASS    |
|          |         | 2480           | -17.79           | ≤8.00           | PASS    |



## Test Graphs



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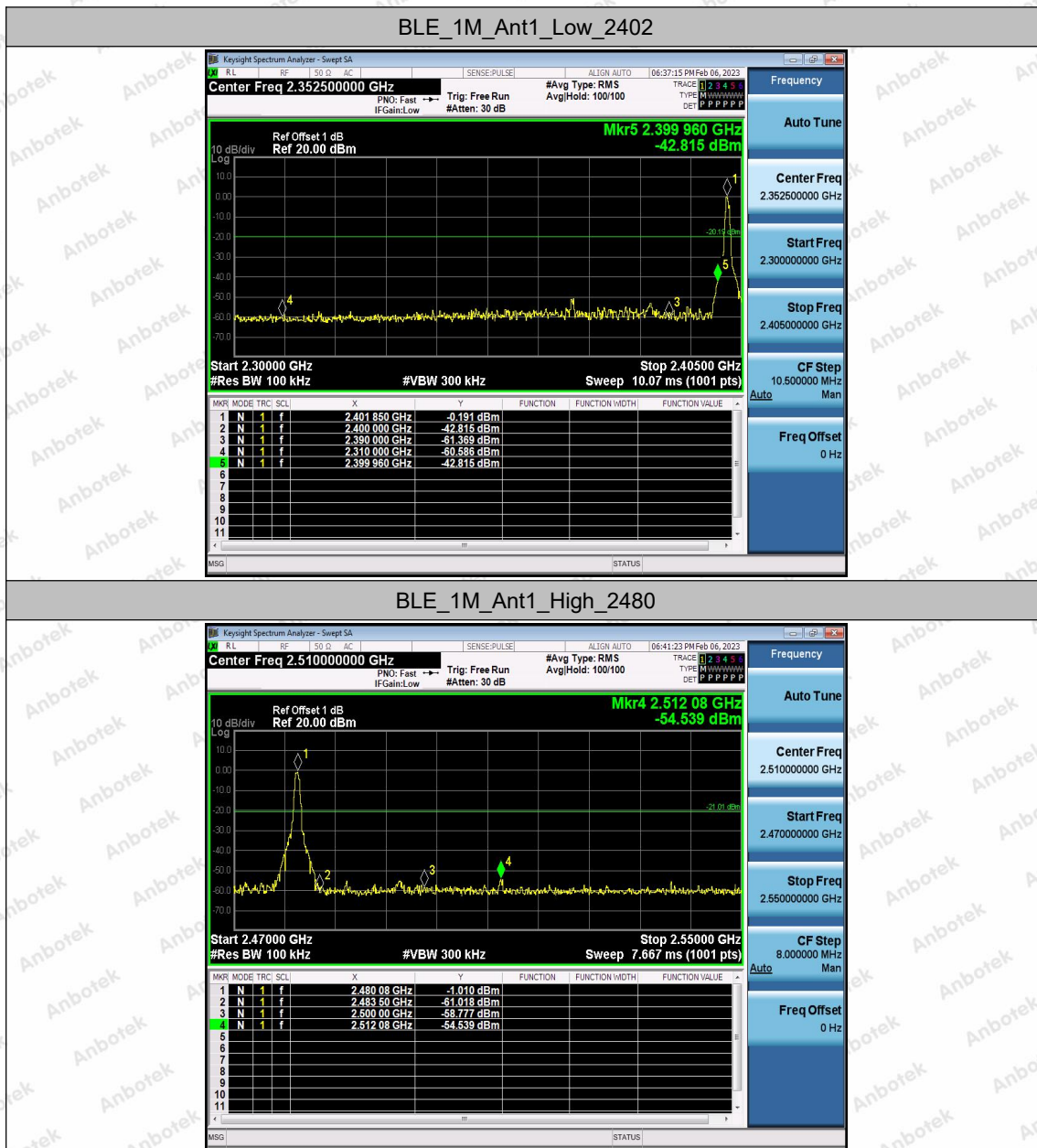
**Appendix E: Band edge measurements**

**Test Result**

| TestMode | Antenna | Channel | Frequency[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|----------------|---------------|-------------|------------|---------|
| BLE_1M   | Ant1    | Low     | 2402           | -0.19         | -42.82      | ≤-20.19    | PASS    |
|          |         | High    | 2480           | -1.01         | -54.54      | ≤-21.01    | PASS    |



## Test Graphs



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## Appendix F: Conducted Spurious Emission

### Test Result

| TestMode | Antenna | Frequency[MHz] | FreqRange [MHz] | RefLevel [dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|----------------|-----------------|----------------|-------------|------------|---------|
| BLE_1M   | Ant1    | 2402           | Reference       | -0.65          | -0.65       | ---        | PASS    |
|          |         |                | 30~1000         | -0.65          | -47.14      | ≤-20.65    | PASS    |
|          |         |                | 1000~26500      | -0.65          | -45.45      | ≤-20.65    | PASS    |
|          |         | 2440           | Reference       | -0.47          | -0.47       | ---        | PASS    |
|          |         |                | 30~1000         | -0.47          | -46.03      | ≤-20.47    | PASS    |
|          |         |                | 1000~26500      | -0.47          | -44.39      | ≤-20.47    | PASS    |
|          |         | 2480           | Reference       | -0.83          | -0.83       | ---        | PASS    |
|          |         |                | 30~1000         | -0.83          | -45.34      | ≤-20.83    | PASS    |
|          |         |                | 1000~26500      | -0.83          | -42.2       | ≤-20.83    | PASS    |

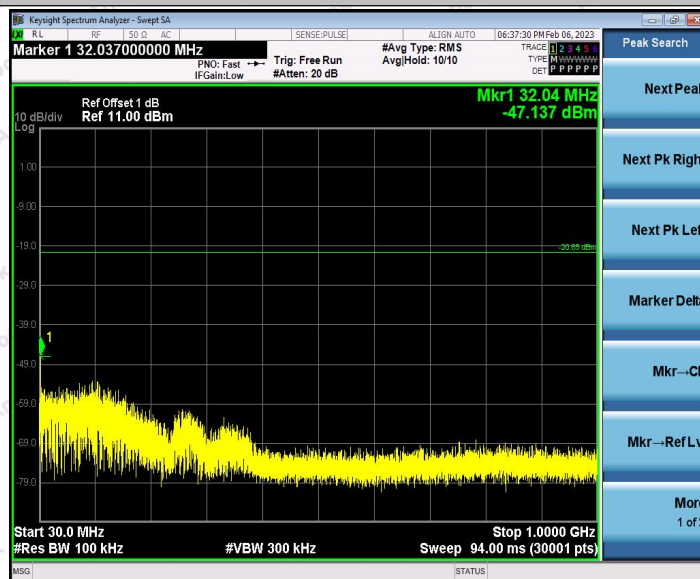


## Test Graphs

BLE\_1M\_Ant1\_2402\_0~Reference



BLE\_1M\_Ant1\_2402\_30~1000



BLE\_1M\_Ant1\_2402\_1000~26500

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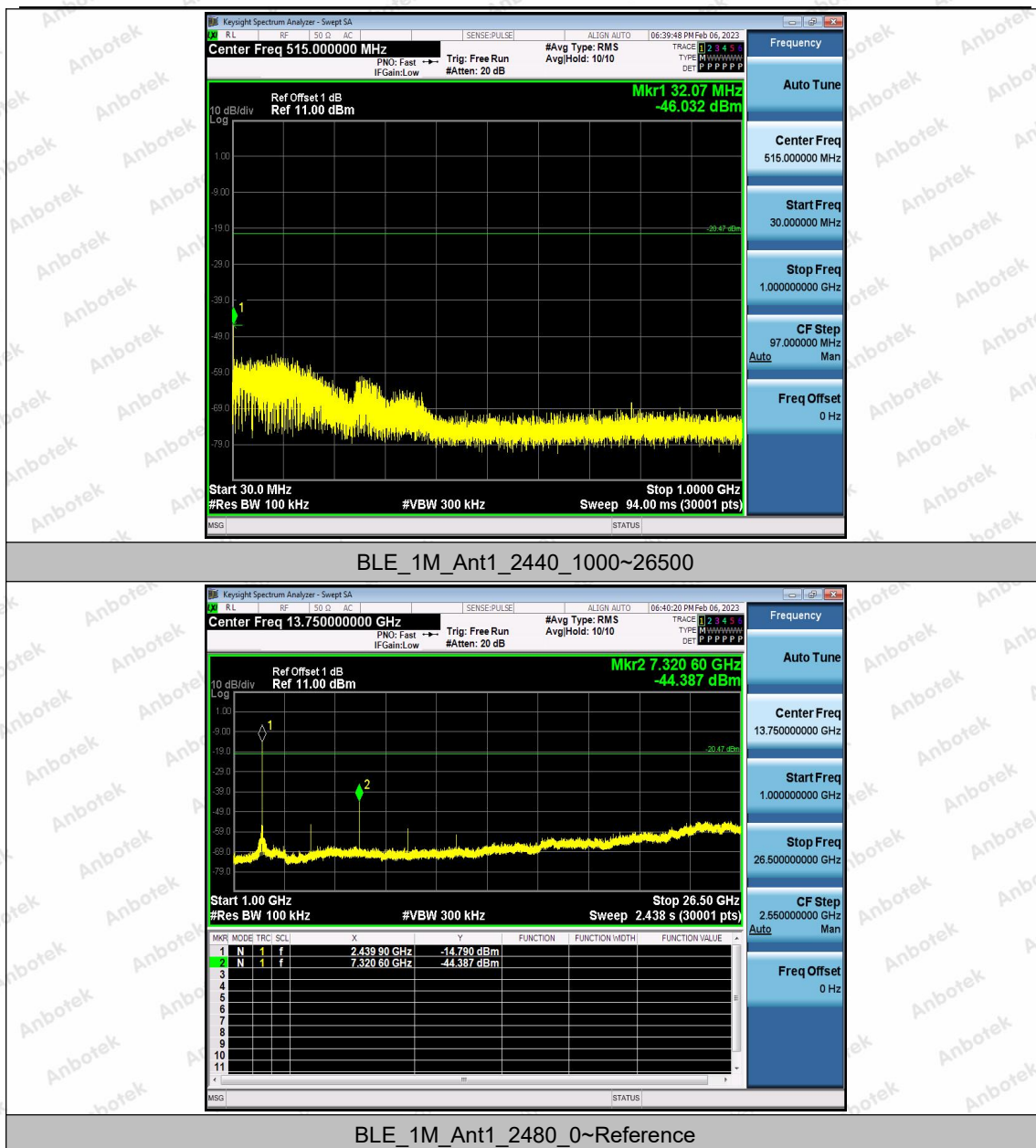
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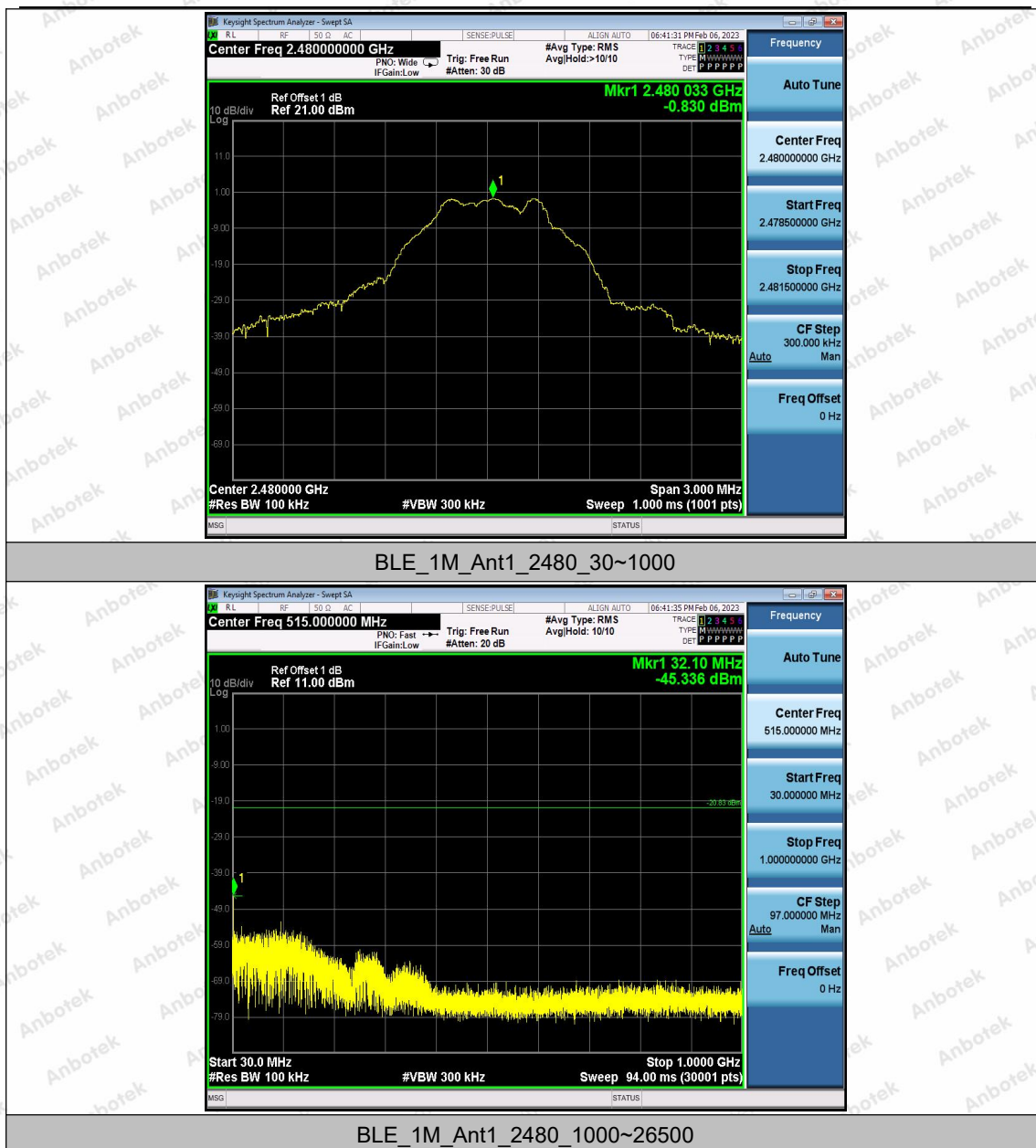
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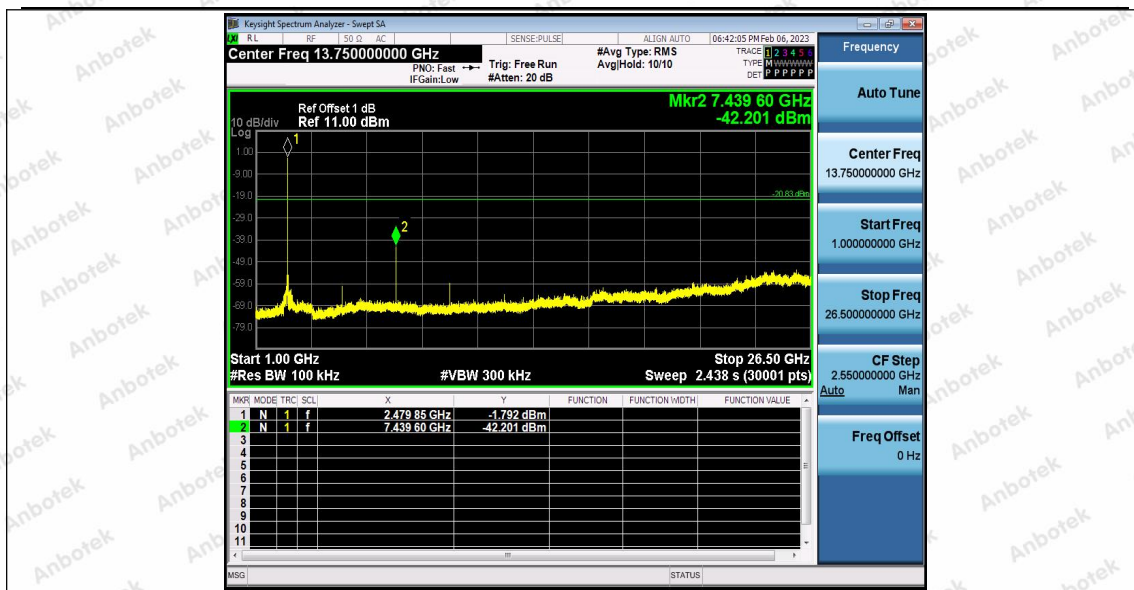
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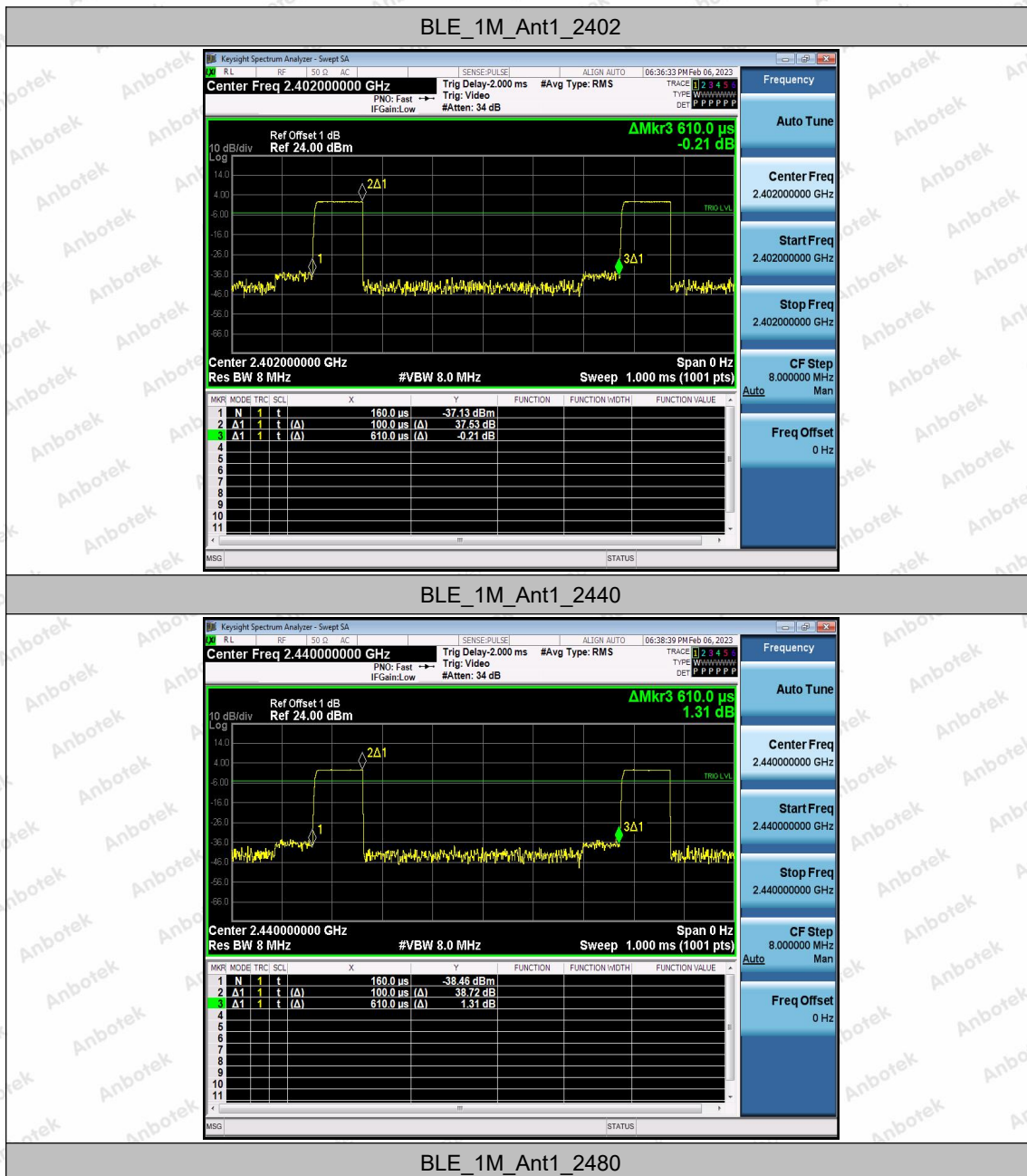
## Appendix G: Duty Cycle

### Test Result

| TestMode | Antenna | Frequency[MHz] | ON Time<br>[ms] | Period<br>[ms] | Duty Cycle<br>[%] | Duty Cycle<br>Factor[dB] |
|----------|---------|----------------|-----------------|----------------|-------------------|--------------------------|
| BLE_1M   | Ant1    | 2402           | 0.10            | 0.61           | 16.39             | 7.85                     |
|          |         | 2440           | 0.10            | 0.61           | 16.39             | 7.85                     |
|          |         | 2480           | 0.10            | 0.61           | 16.39             | 7.85                     |



## Test Graphs



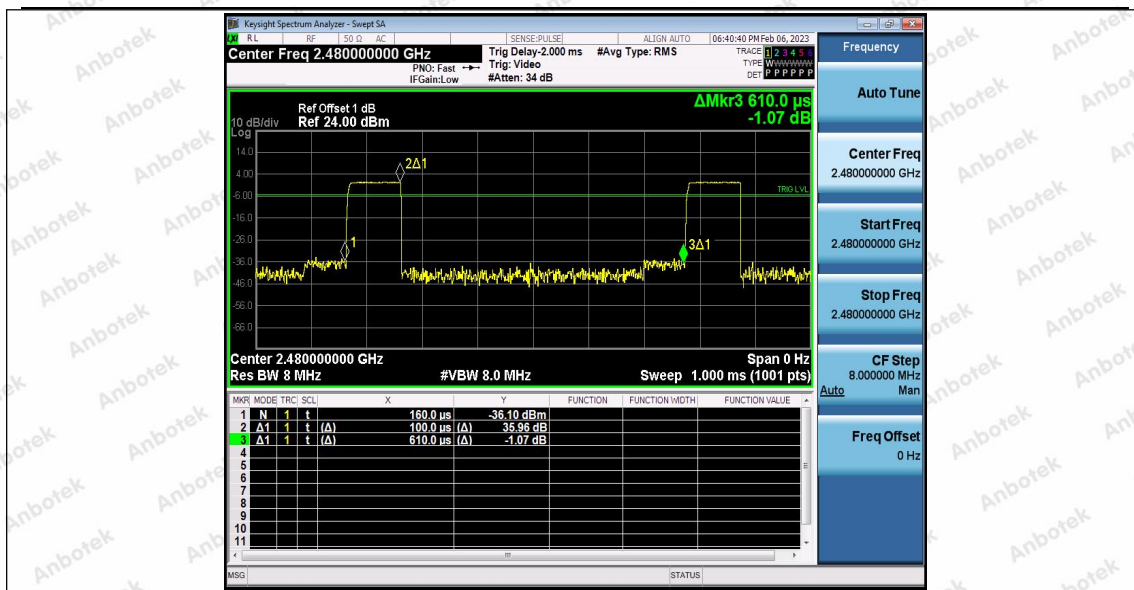
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