

## Appendix Test Data

|                  |                 |                    |            |
|------------------|-----------------|--------------------|------------|
| Report No.:      | 18220WC30039502 | Test Sample No.:   | 1-2-2      |
| Start Test Date: | 2023.03.14      | Finish Test Date:  | 2023.03.17 |
| Test Engineer:   | Rick Luo        | Auditor:           | Edward Pan |
| Temperature:     | 24.0°C          | Relative Humidity: | 54%        |
| 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           | 0.640        | 2401.700 | 2402.340 | 0.5        | PASS    |
|          |         | 2440           | 0.636        | 2439.704 | 2440.340 | 0.5        | PASS    |
|          |         | 2480           | 0.660        | 2479.688 | 2480.348 | 0.5        | PASS    |



## Test Graphs



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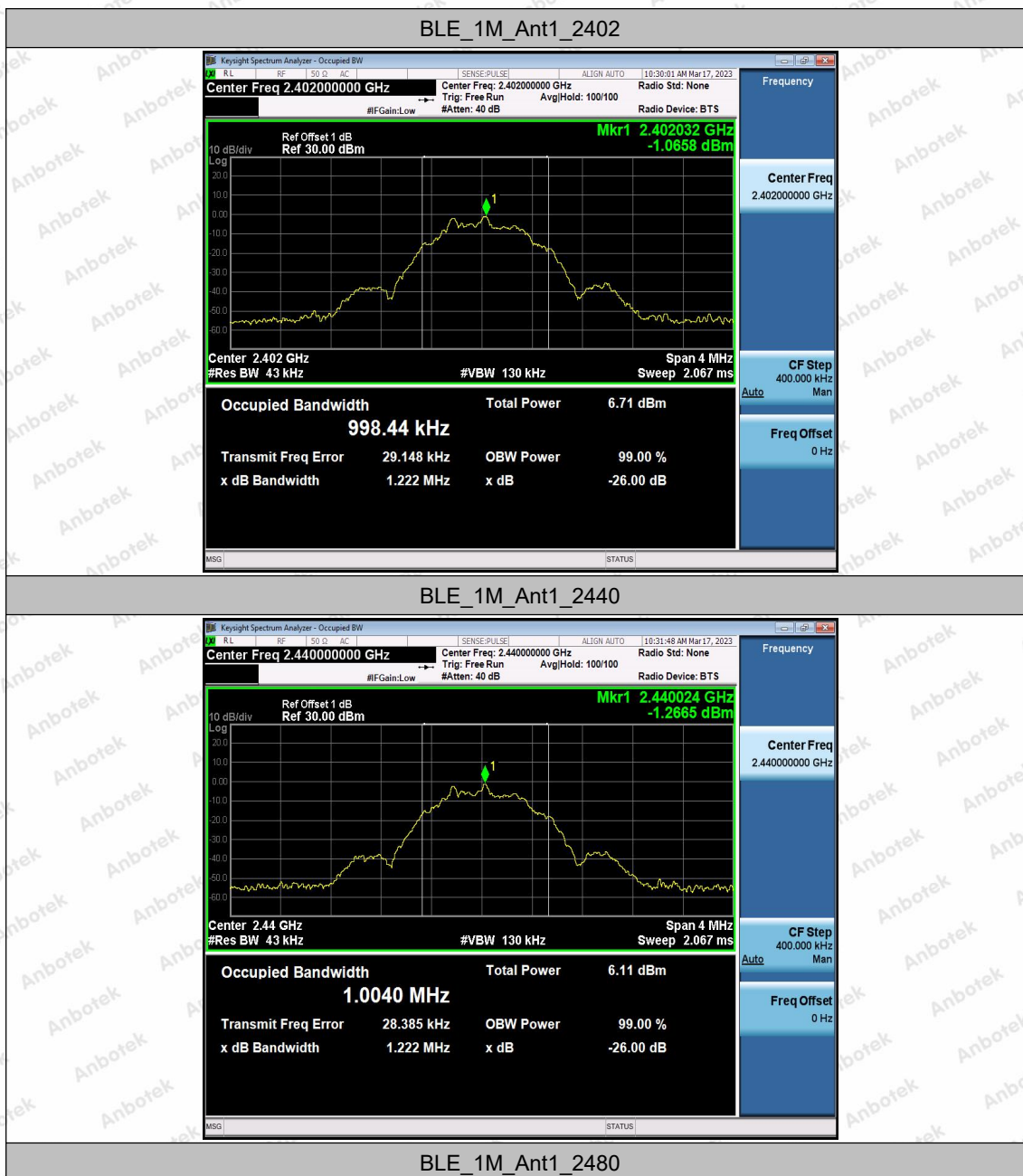
## Appendix B: Occupied Channel Bandwidth

### Test Result

| Test Mode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   |
|-----------|---------|----------------|-----------|-----------|-----------|
| BLE_1M    | Ant1    | 2402           | 0.99844   | 2401.5299 | 2402.5284 |
|           |         | 2440           | 1.0040    | 2439.5264 | 2440.5304 |
|           |         | 2480           | 0.99710   | 2479.5273 | 2480.5244 |



## Test Graphs



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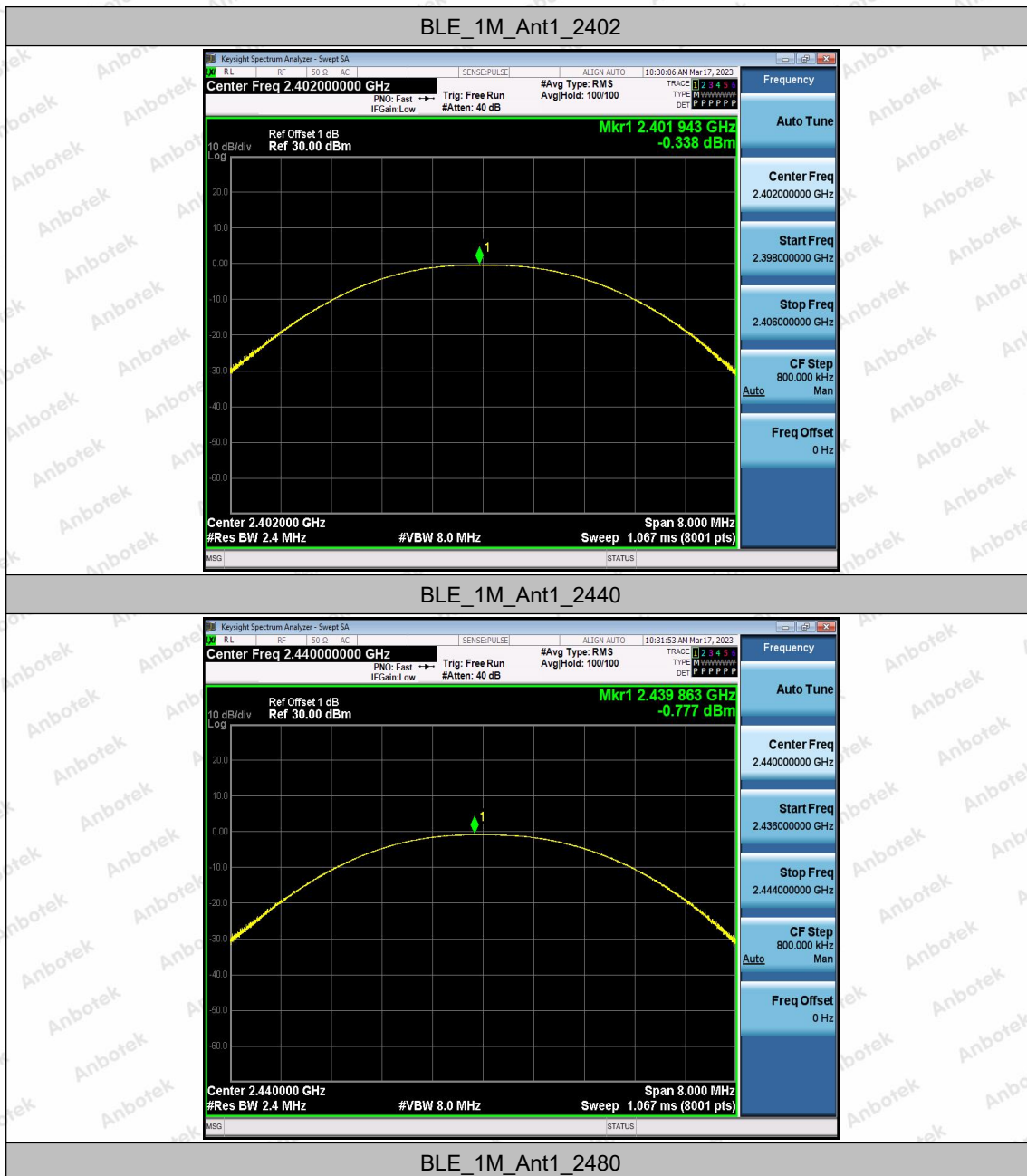
## Appendix C: Maximum conducted output power

### Test Result Peak

| Test Mode | Antenna | Frequency[MHz] | Conducted Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|-----------|---------|----------------|---------------------------|----------------------|---------|
| BLE_1M    | Ant1    | 2402           | -0.34                     | ≤30                  | PASS    |
|           |         | 2440           | -0.78                     | ≤30                  | PASS    |
|           |         | 2480           | -1.81                     | ≤30                  | PASS    |



## Test Graphs Peak



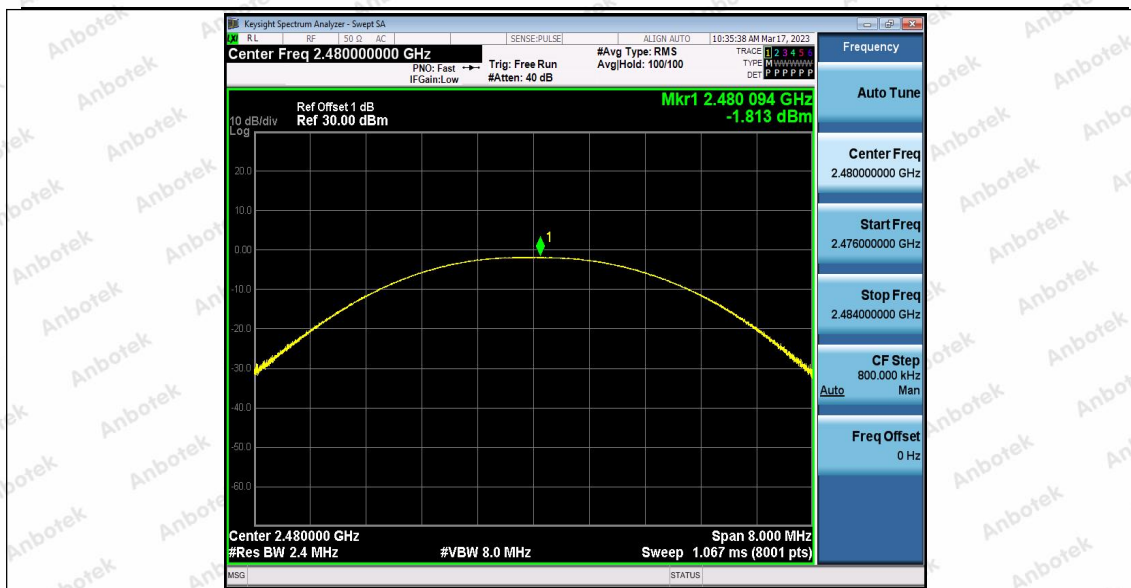
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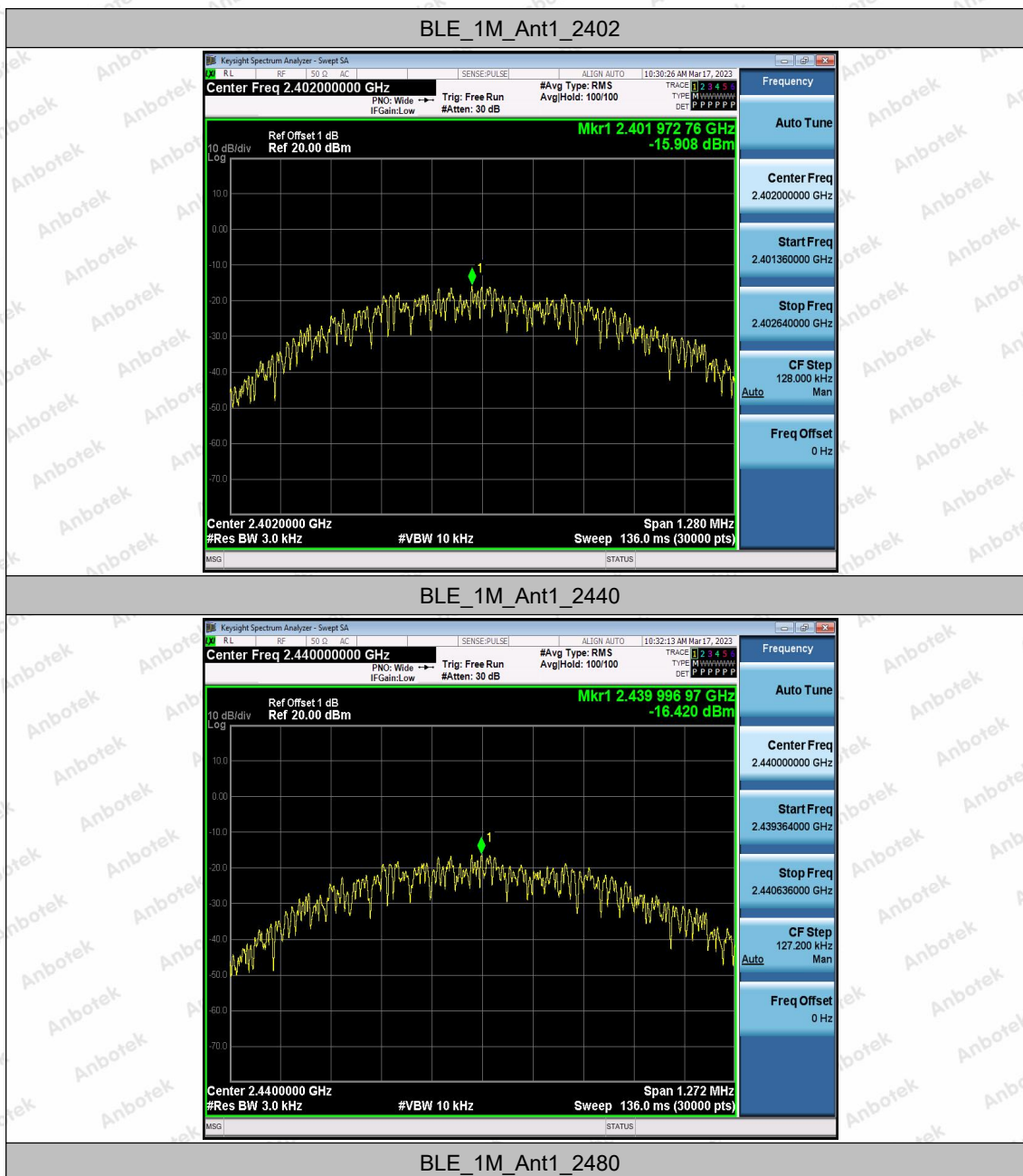
## Appendix D: Maximum power spectral density

### Test Result

| Test Mode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|-----------|---------|----------------|------------------|-----------------|---------|
| BLE_1M    | Ant1    | 2402           | -15.91           | ≤8.00           | PASS    |
|           |         | 2440           | -16.42           | ≤8.00           | PASS    |
|           |         | 2480           | -17.39           | ≤8.00           | PASS    |



## Test Graphs



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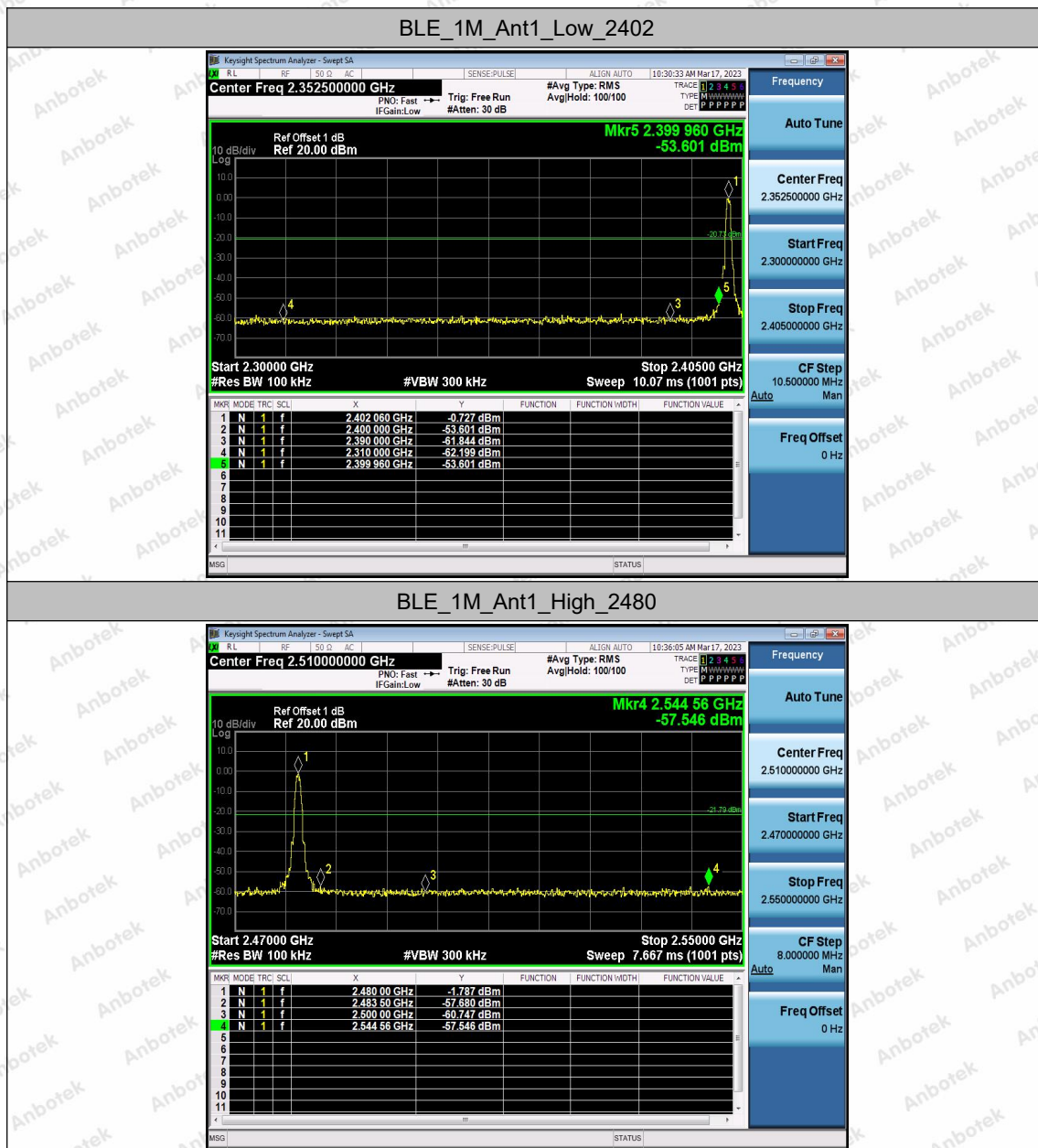


## Appendix E: Band edge measurements

### Test Result

| TestMode | Antenna | ChName | Frequency [MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|--------|-----------------|---------------|-------------|------------|---------|
| BLE_1M   | Ant1    | Low    | 2402            | -0.73         | -53.6       | ≤-20.73    | PASS    |
|          |         | High   | 2480            | -1.79         | -57.55      | ≤-21.79    | PASS    |

### Test Graphs



## Appendix F: Conducted Spurious Emission

### Test Result

| TestMode | Antenna | Frequency<br>[MHz] | FreqRange<br>[MHz] | RefLevel<br>[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|--------------------|--------------------|-------------------|-------------|------------|---------|
| BLE_1M   | Ant1    | 2402               | Reference          | -0.86             | -0.86       | ---        | PASS    |
|          |         |                    | 30~1000            | -0.86             | -62.8       | ≤-20.86    | PASS    |
|          |         |                    | 1000~26500         | -0.86             | -43.46      | ≤-20.86    | PASS    |
|          |         | 2440               | Reference          | -1.20             | -1.20       | ---        | PASS    |
|          |         |                    | 30~1000            | -1.20             | -62.05      | ≤-21.2     | PASS    |
|          |         |                    | 1000~26500         | -1.20             | -40.81      | ≤-21.2     | PASS    |
|          |         | 2480               | Reference          | -2.19             | -2.19       | ---        | PASS    |
|          |         |                    | 30~1000            | -2.19             | -61.66      | ≤-22.19    | PASS    |
|          |         |                    | 1000~26500         | -2.19             | -39.86      | ≤-22.19    | PASS    |

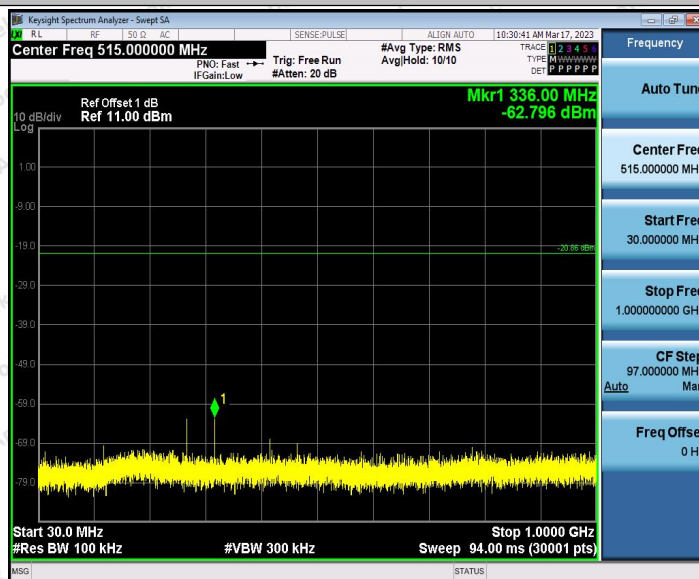


## Test Graphs

BLE\_1M\_Ant1\_2402\_0~Reference



BLE\_1M\_Ant1\_2402\_30~1000



BLE\_1M\_Ant1\_2402\_1000~26500

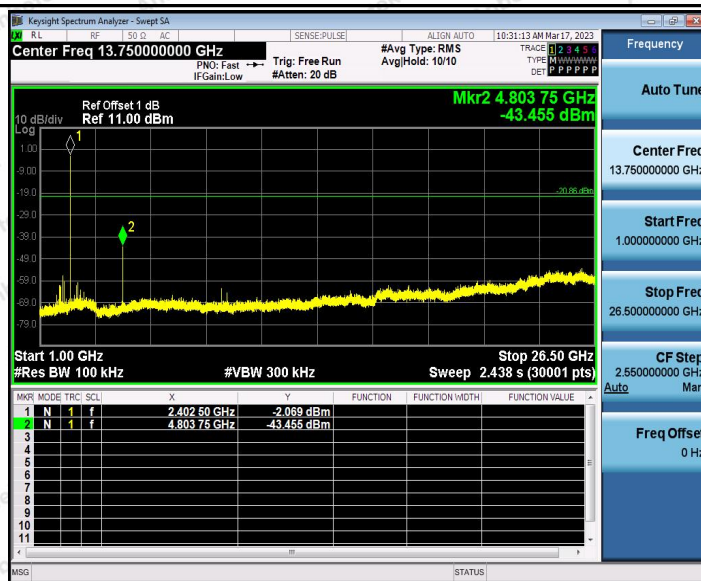
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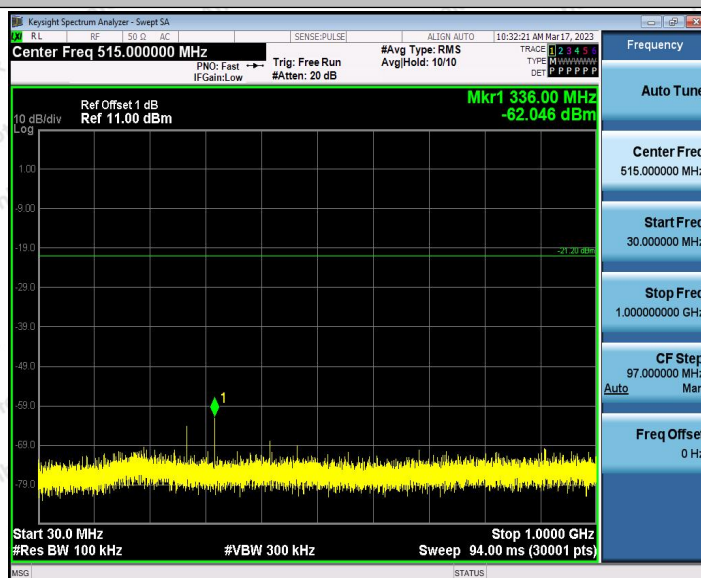




BLE\_1M\_Ant1\_2440\_0~Reference



BLE\_1M\_Ant1\_2440\_30~1000



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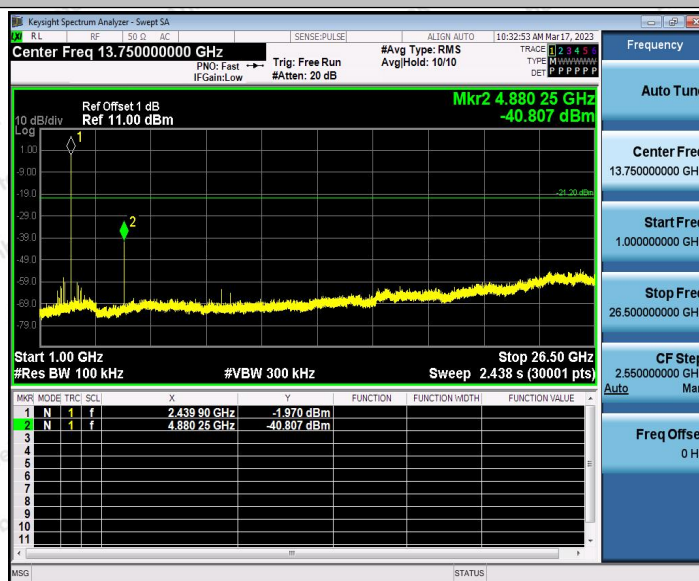
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BLE\_1M\_Ant1\_2440\_1000~26500



BLE\_1M\_Ant1\_2480\_0~Reference



BLE\_1M\_Ant1\_2480\_30~1000

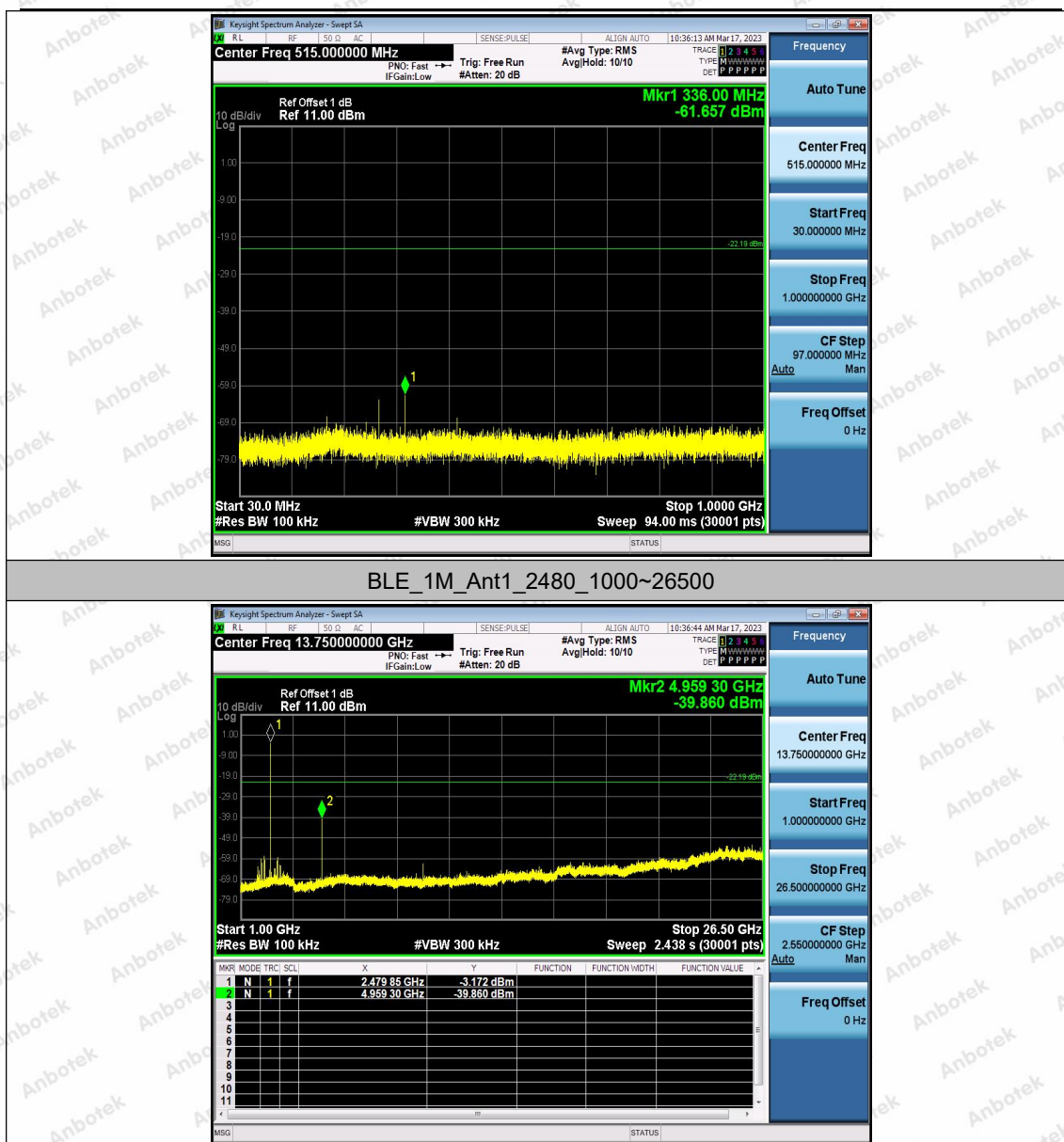
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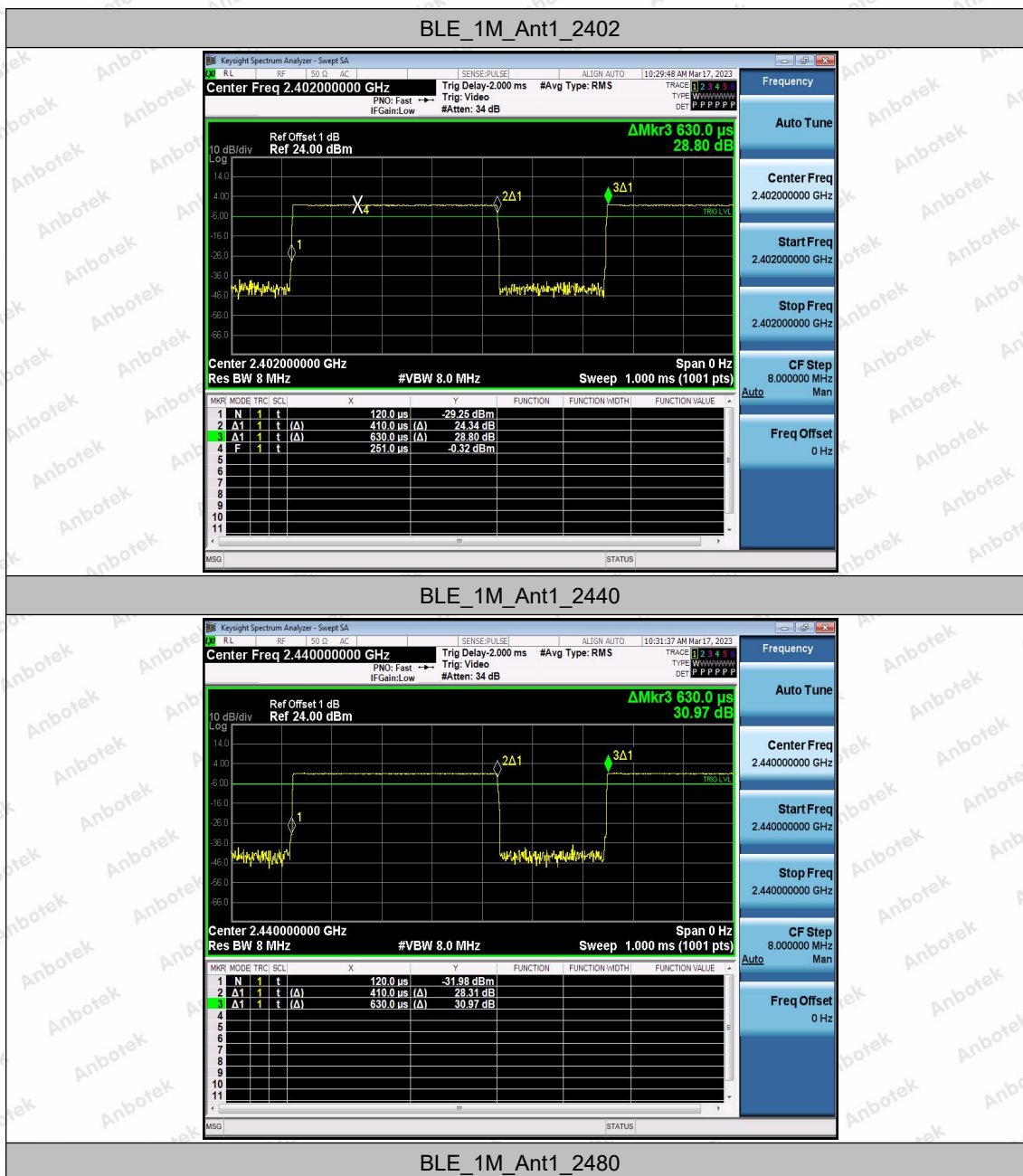
## Appendix G: Duty Cycle

### 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           | 0.41            | 0.63           | 65.08             | 1.87                     |
|          |         | 2440           | 0.41            | 0.63           | 65.08             | 1.87                     |
|          |         | 2480           | 0.41            | 0.63           | 65.08             | 1.87                     |



## Test Graphs



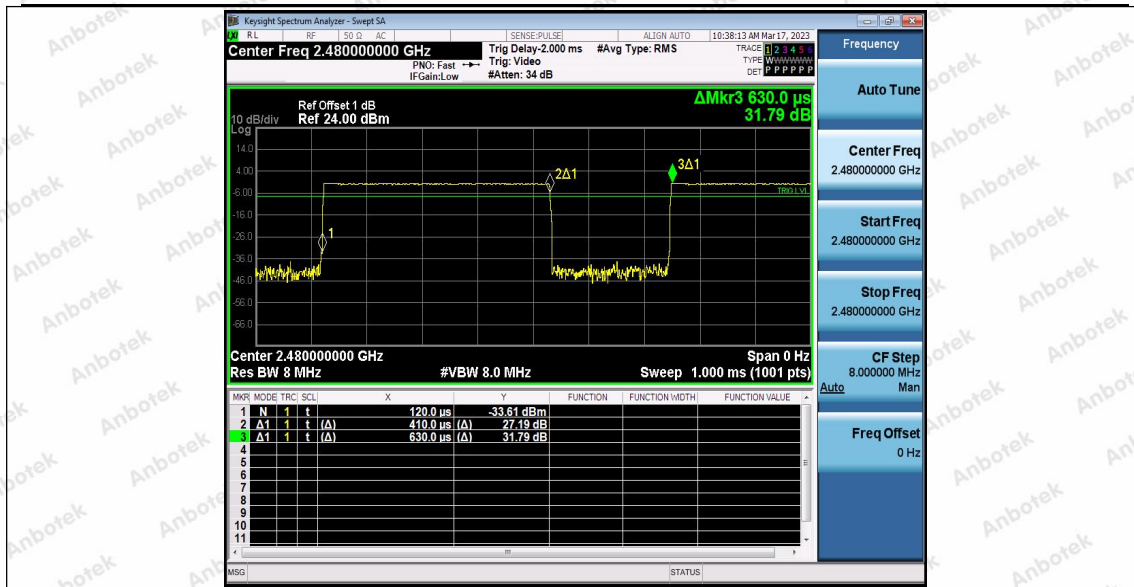
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