

## Appendix Test Data

|                  |                 |                    |                   |
|------------------|-----------------|--------------------|-------------------|
| Report No.:      | 18220WC30002002 | Test Sample No.:   | 1-2-2             |
| Start Test Date: | 2023.1.5        | Finish Test Date:  | 2023.1.11         |
| Test Engineer:   | <i>Tony He</i>  | Auditor:           | <i>Edward Pan</i> |
| Temperature:     | 24.3°C          | Relative Humidity: | 47 %              |
| 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           | 0.700        | 2401.648 | 2402.348 | 0.5        | PASS    |
|          |         | 2440           | 0.680        | 2439.664 | 2440.344 | 0.5        | PASS    |
|          |         | 2480           | 0.676        | 2479.660 | 2480.336 | 0.5        | PASS    |



## Test Graphs



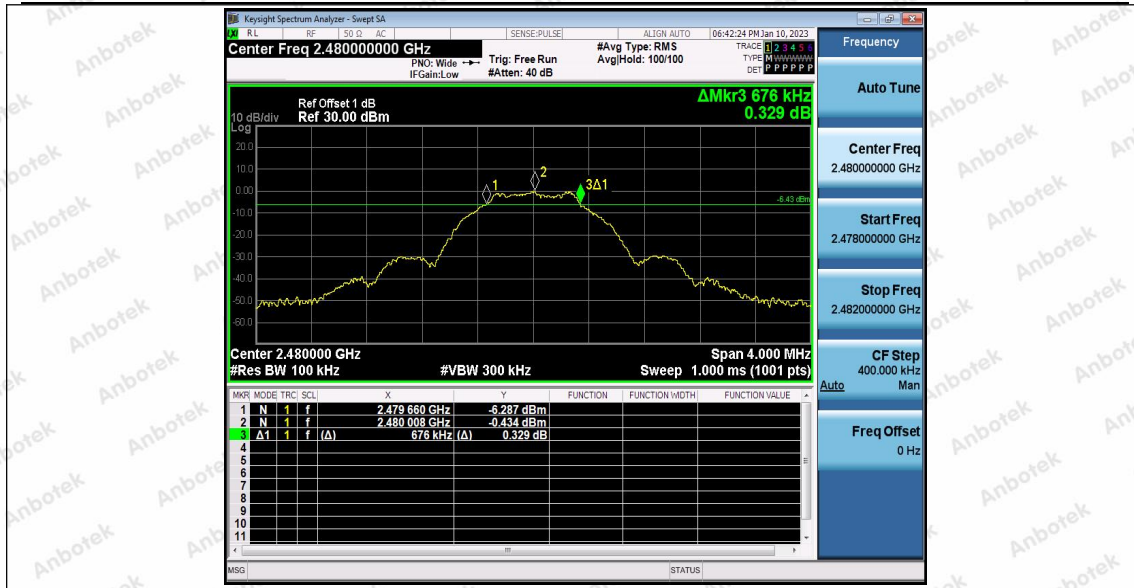
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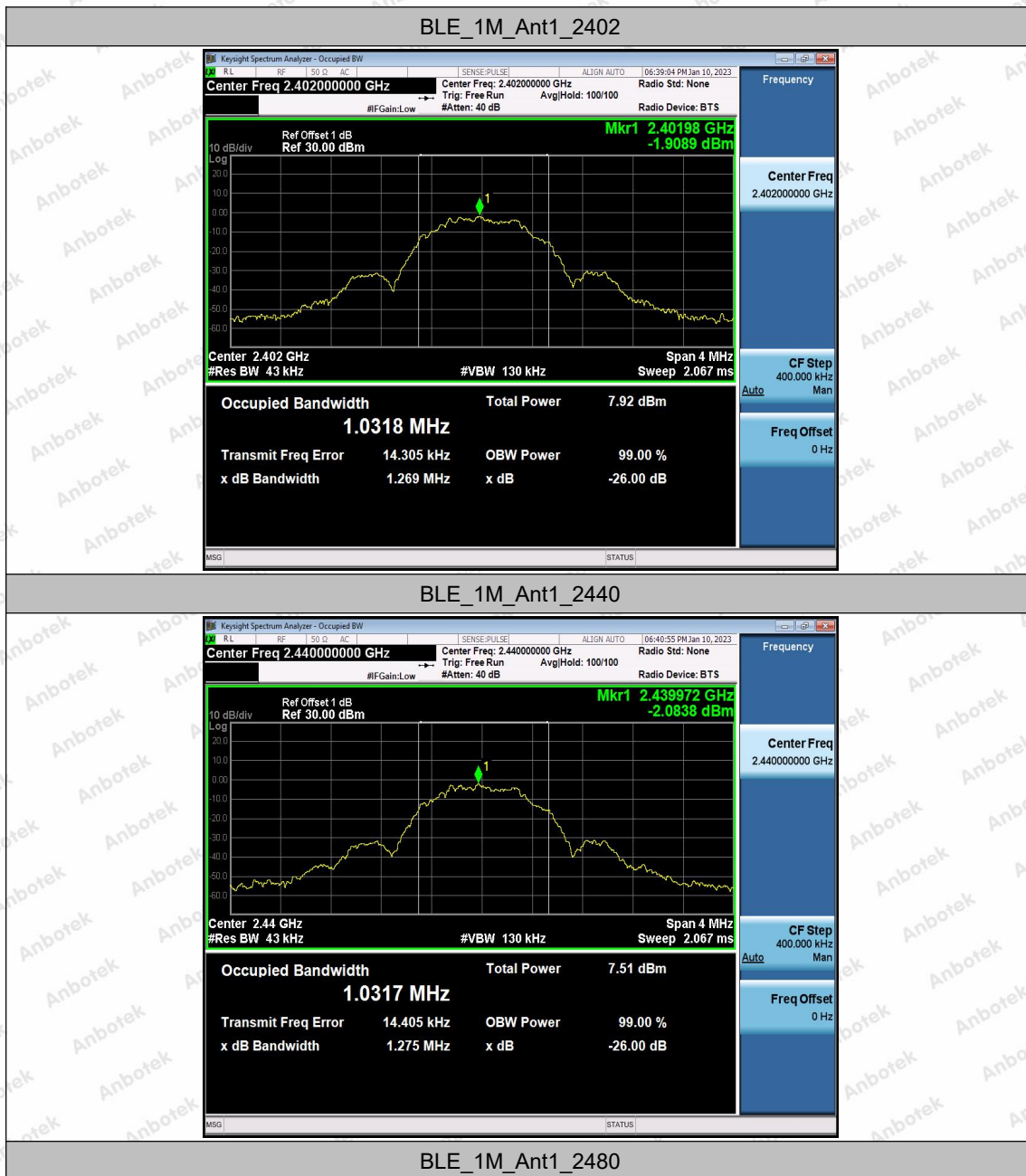
## Appendix B: Occupied Channel Bandwidth

### Test Result

| Test Mode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   |
|-----------|---------|----------------|-----------|-----------|-----------|
| BLE_1M    | Ant1    | 2402           | 1.0318    | 2401.4984 | 2402.5302 |
|           |         | 2440           | 1.0317    | 2439.4986 | 2440.5303 |
|           |         | 2480           | 1.0281    | 2479.4994 | 2480.5275 |



## Test Graphs



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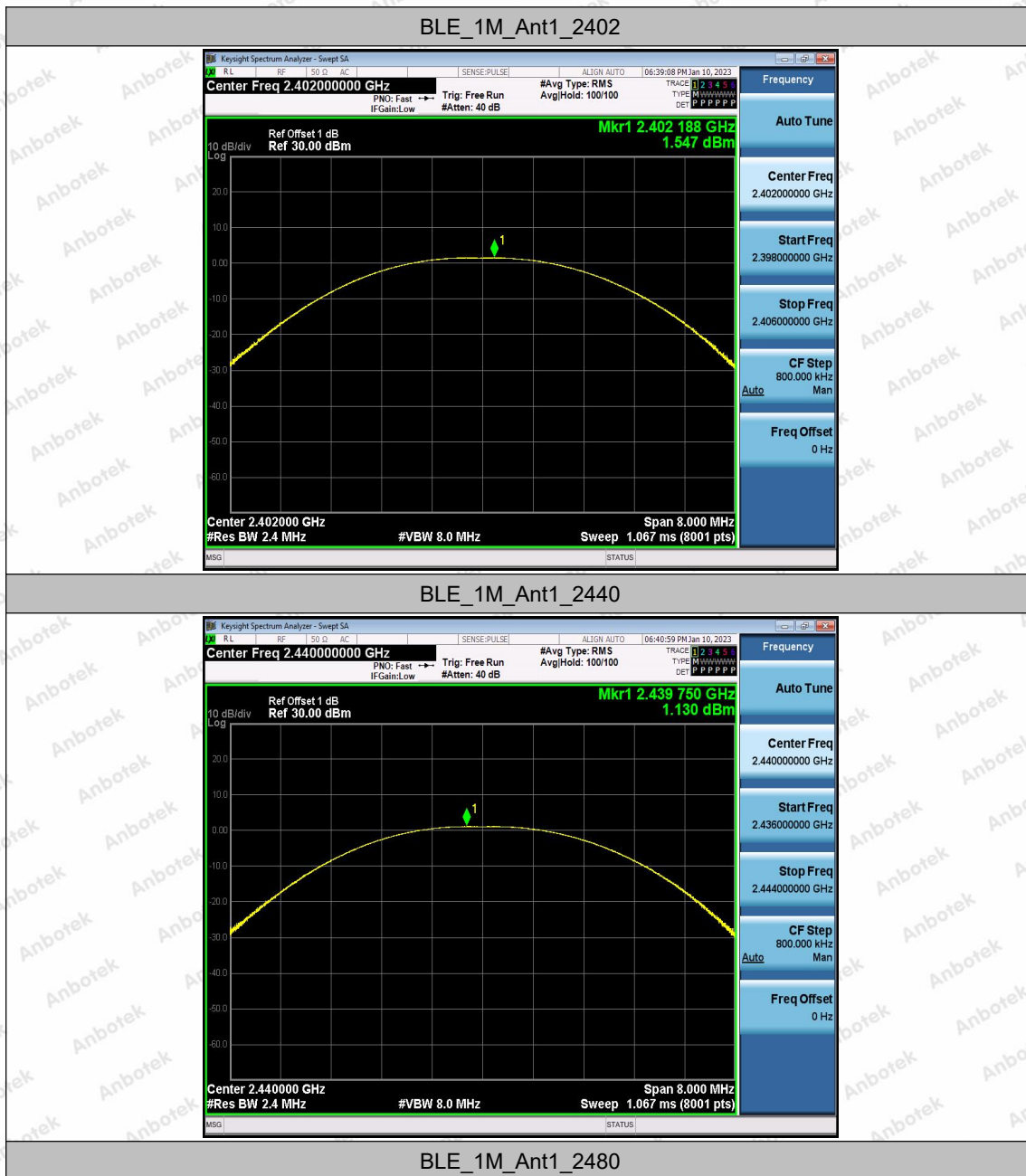
## Appendix C: Maximum conducted output power

### Test Result Peak

| TestMode | Antenna | Frequency[MHz] | Conducted Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|----------|---------|----------------|---------------------------|----------------------|---------|
| BLE_1M   | Ant1    | 2402           | 1.55                      | ≤30                  | PASS    |
|          |         | 2440           | 1.13                      | ≤30                  | PASS    |
|          |         | 2480           | 0.54                      | ≤30                  | PASS    |



## Test Graphs Peak



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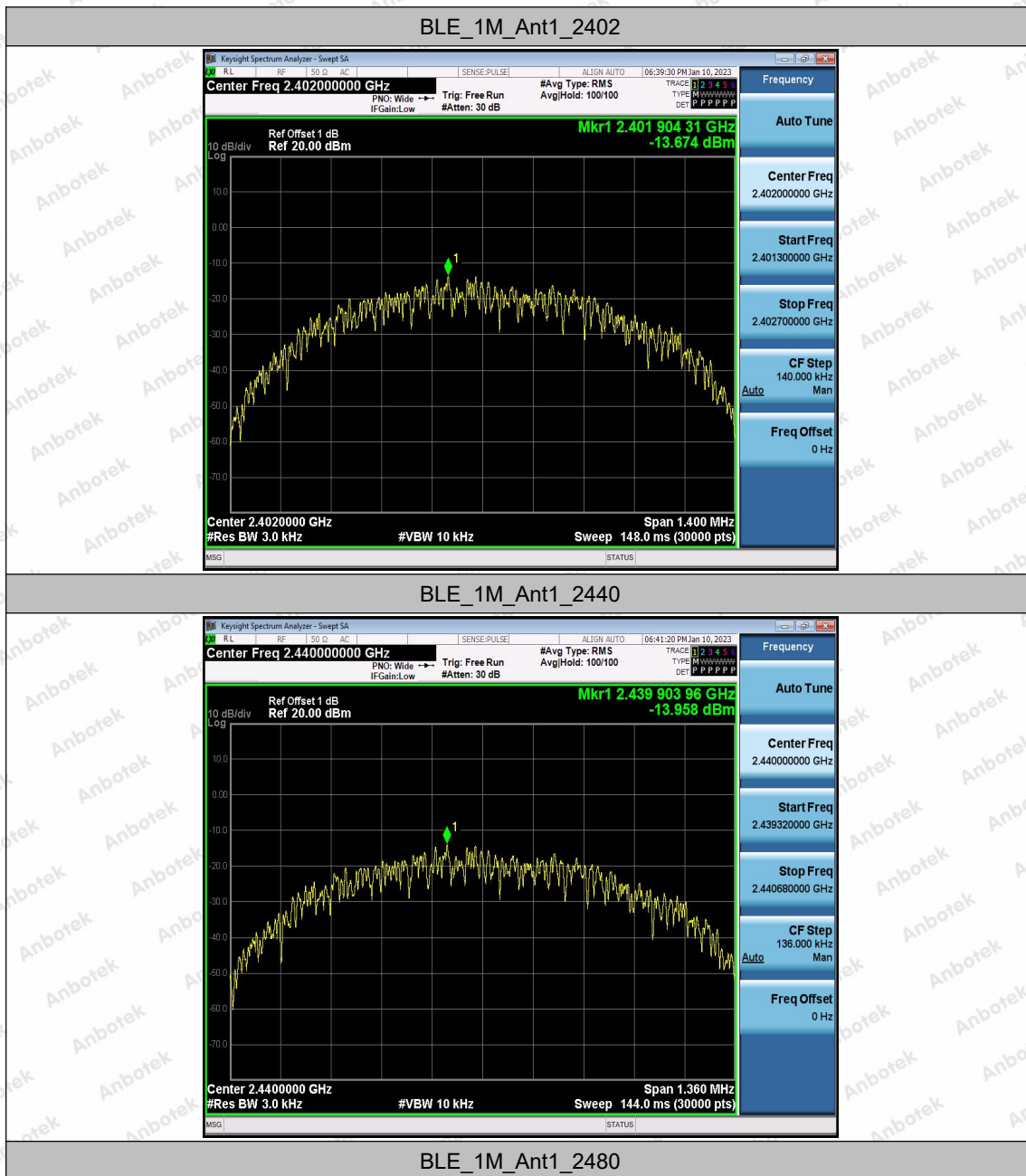
## Appendix D: Maximum power spectral density

### Test Result

| TestMode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|----------------|------------------|-----------------|---------|
| BLE_1M   | Ant1    | 2402           | -13.67           | ≤8.00           | PASS    |
|          |         | 2440           | -13.96           | ≤8.00           | PASS    |
|          |         | 2480           | -14.59           | ≤8.00           | PASS    |



## Test Graphs



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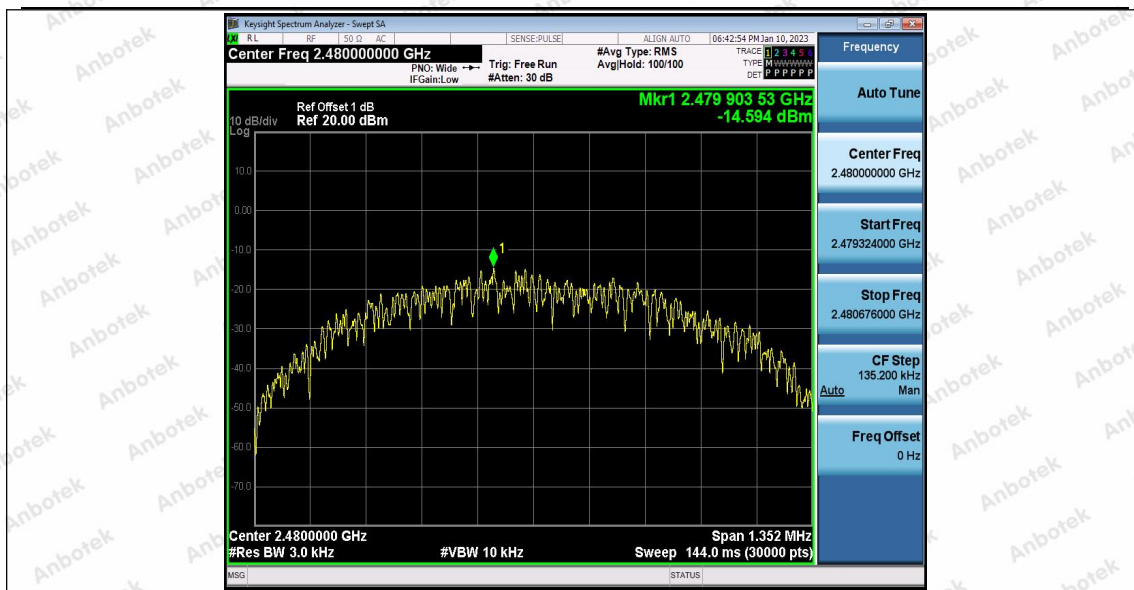
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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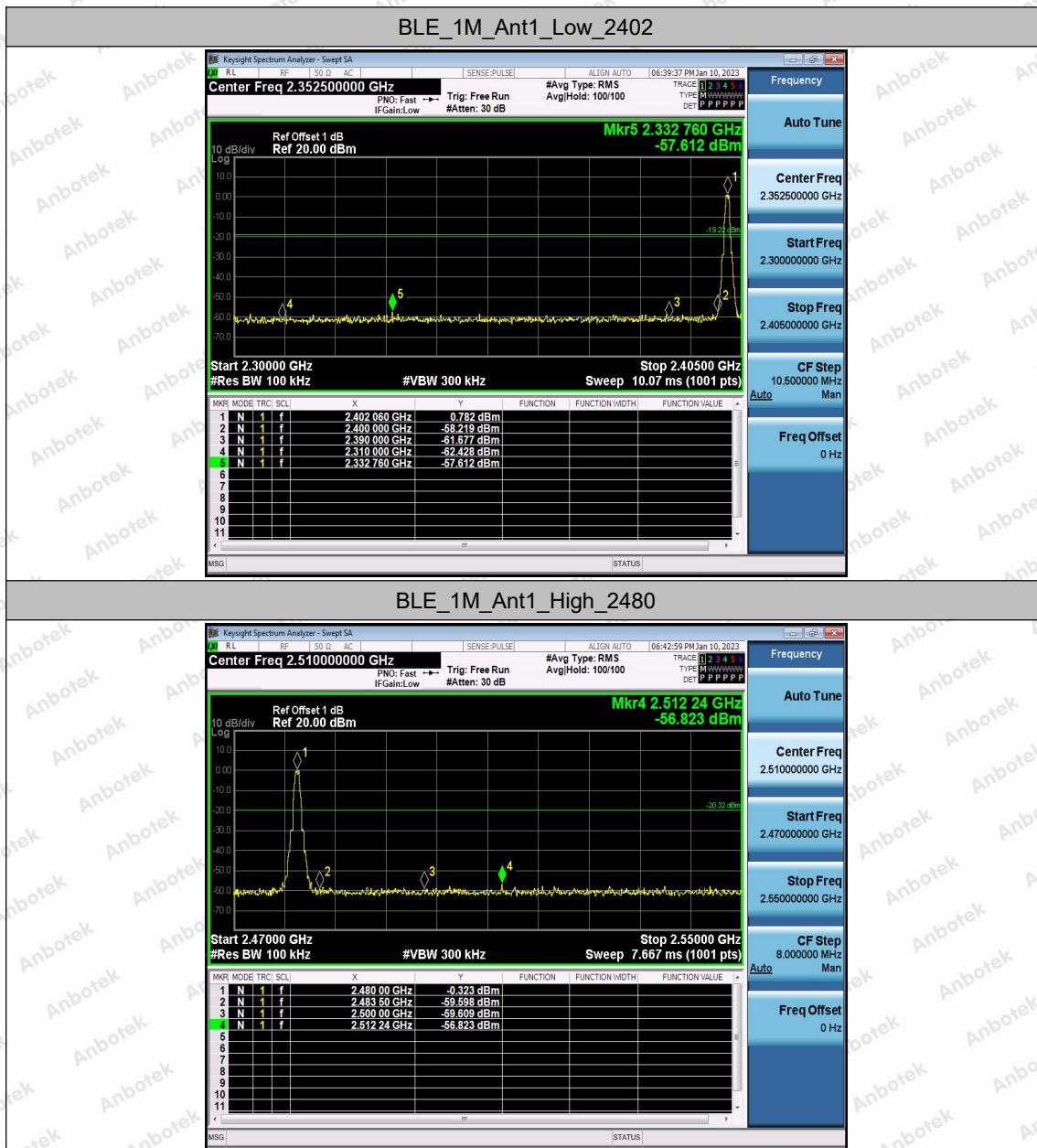
## Appendix E: Band edge measurements

### Test Result

| TestMode | Antenna | ChName | Frequency<br>[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|--------|--------------------|---------------|-------------|------------|---------|
| BLE_1M   | Ant1    | Low    | 2402               | 0.78          | -57.61      | ≤-19.22    | PASS    |
|          |         | High   | 2480               | -0.32         | -56.82      | ≤-20.32    | PASS    |



## Test Graphs



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## 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          | 0.14              | 0.14        | ---        | PASS    |
|          |         |                    | 30~1000            | 0.14              | -69.01      | ≤-19.86    | PASS    |
|          |         |                    | 1000~26500         | 0.14              | -53.1       | ≤-19.86    | PASS    |
|          |         | 2440               | Reference          | -0.23             | -0.23       | ---        | PASS    |
|          |         |                    | 30~1000            | -0.23             | -69.15      | ≤-20.23    | PASS    |
|          |         |                    | 1000~26500         | -0.23             | -52.6       | ≤-20.23    | PASS    |
|          |         | 2480               | Reference          | -0.85             | -0.85       | ---        | PASS    |
|          |         |                    | 30~1000            | -0.85             | -67.62      | ≤-20.85    | PASS    |
|          |         |                    | 1000~26500         | -0.85             | -53.35      | ≤-20.85    | PASS    |

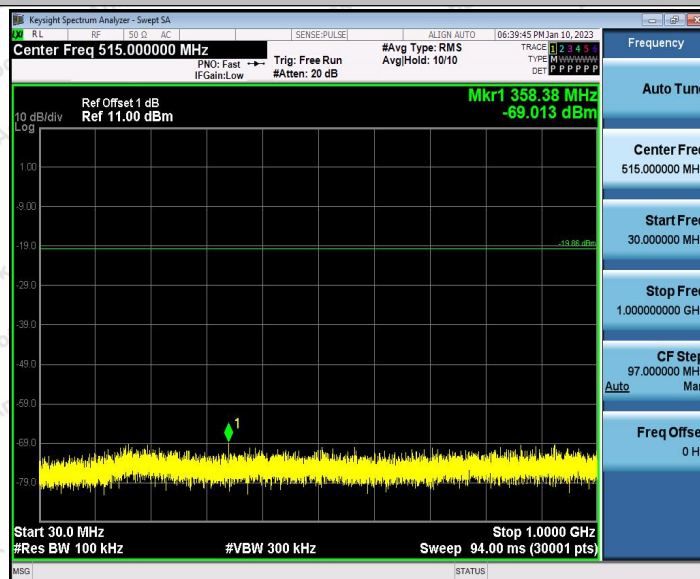


## Test Graphs

BLE\_1M\_Ant1\_2402\_0~Reference



BLE\_1M\_Ant1\_2402\_30~1000



BLE\_1M\_Ant1\_2402\_1000~26500

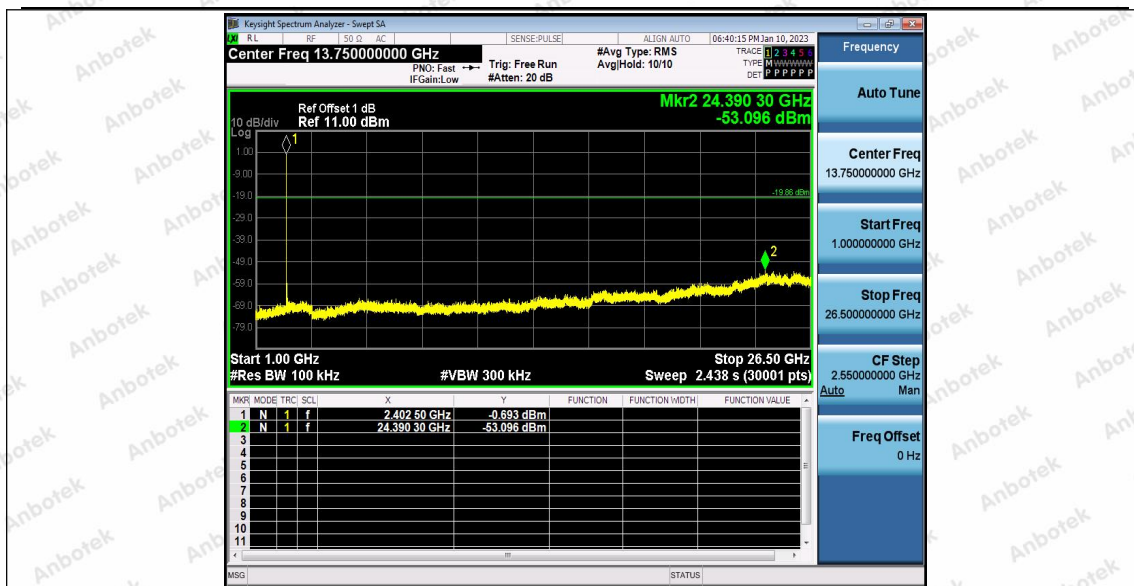
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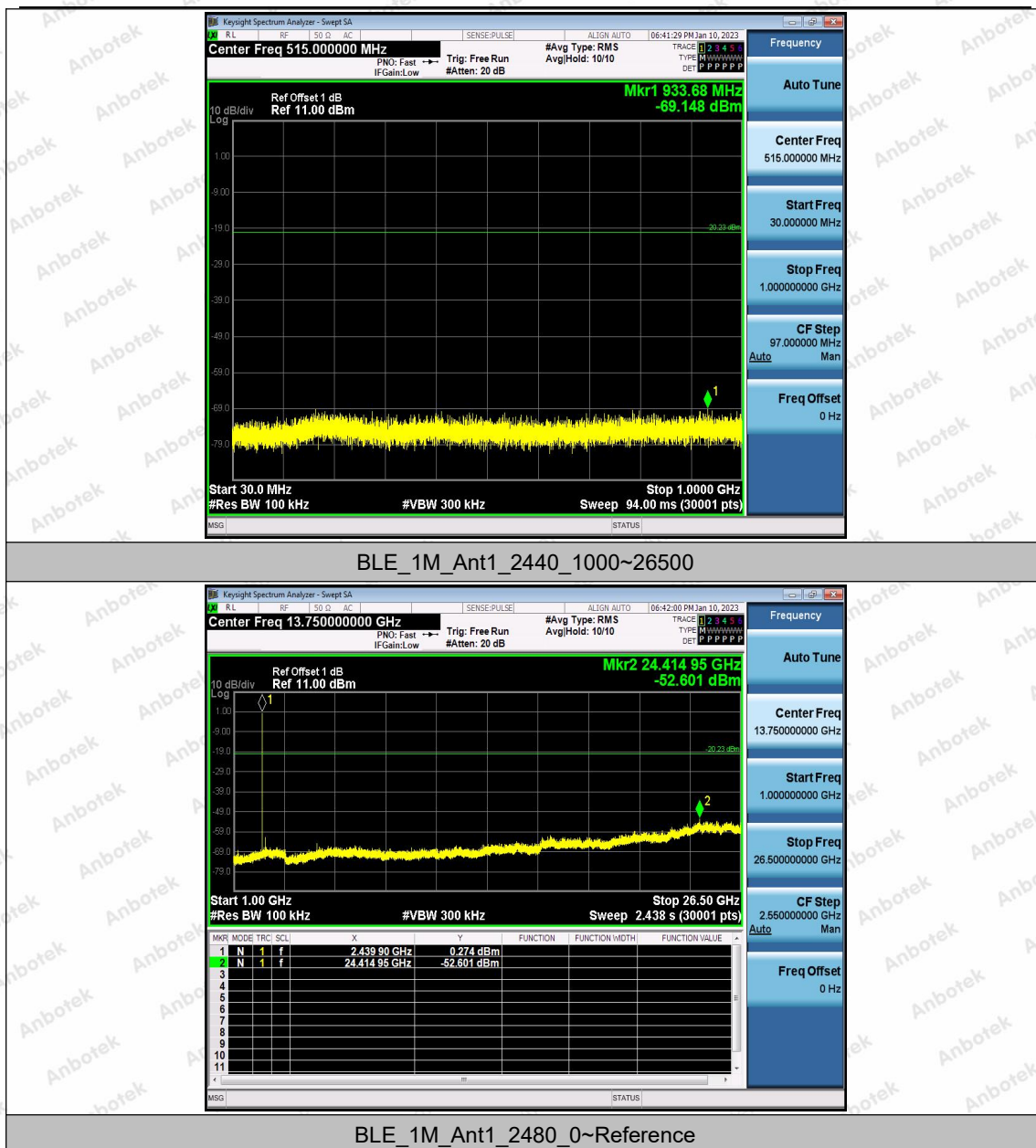
BLE\_1M\_Ant1\_2440\_0~Reference



BLE\_1M\_Ant1\_2440\_30~1000









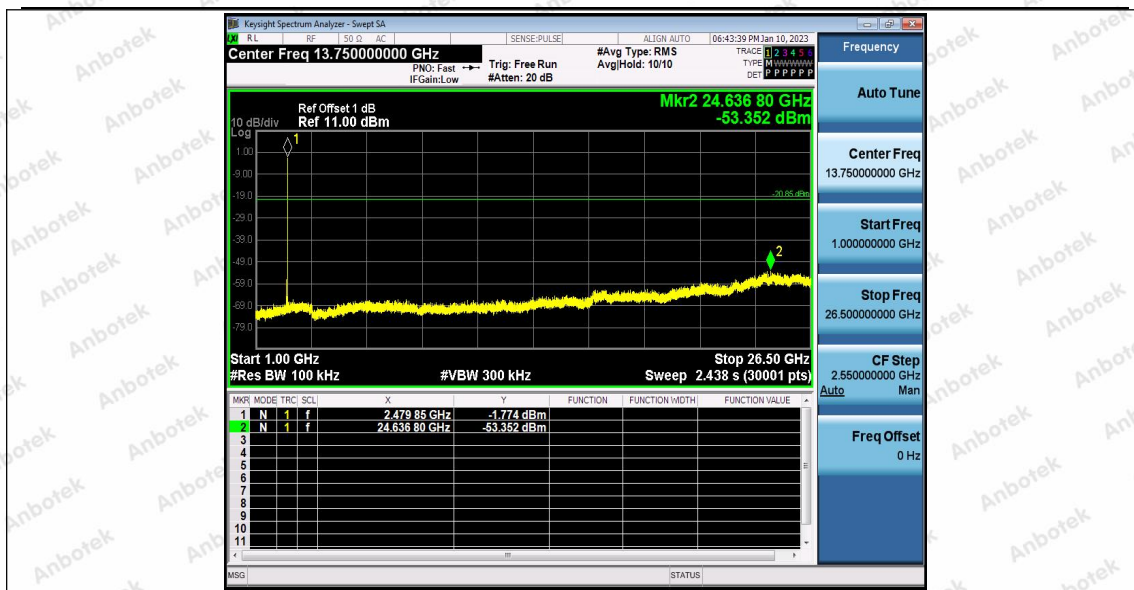
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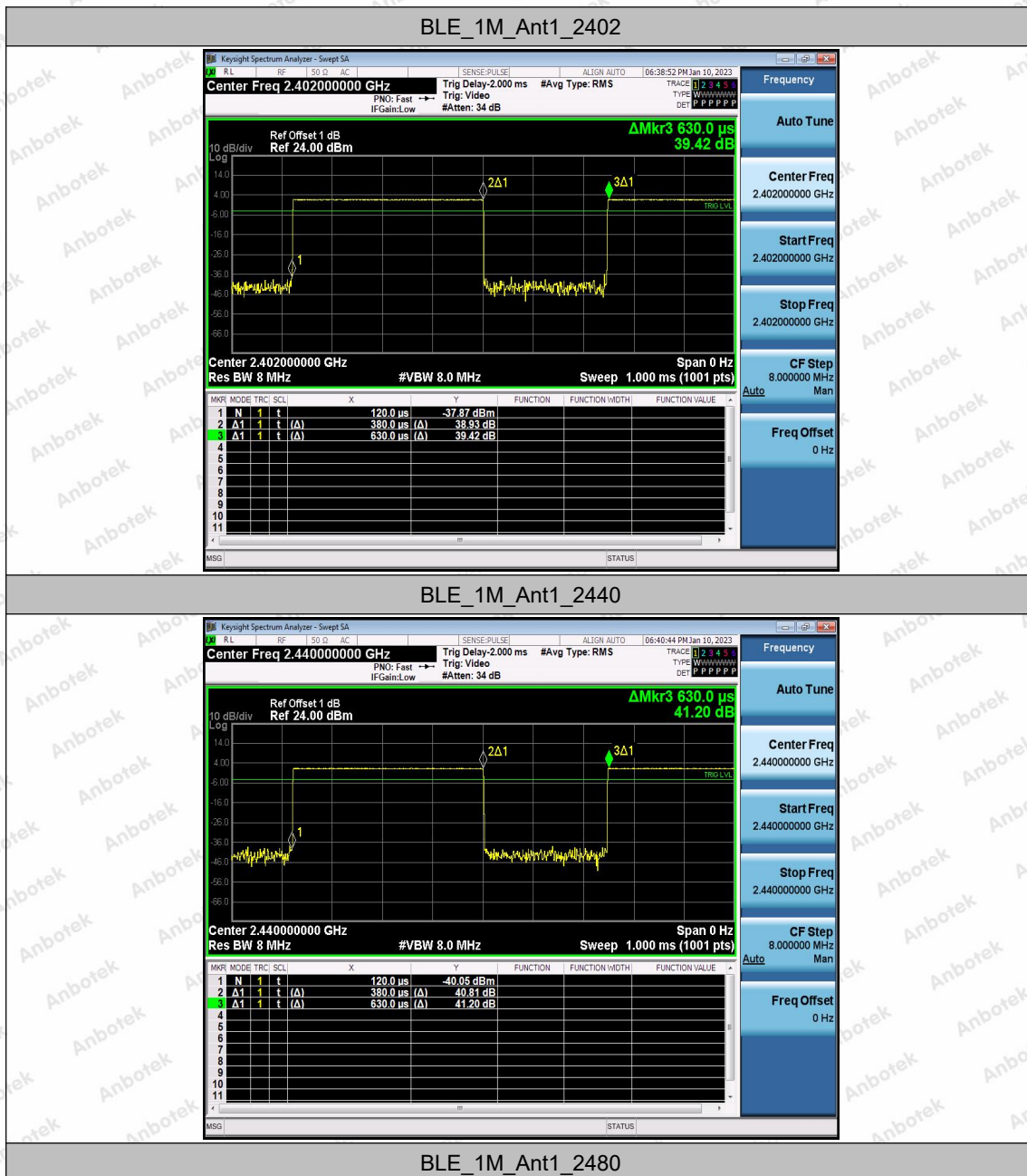
## Appendix G: Duty Cycle

### 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           | 0.38            | 0.63           | 60.32             | 2.20                     |
|          |         | 2440           | 0.38            | 0.63           | 60.32             | 2.20                     |
|          |         | 2480           | 0.38            | 0.63           | 60.32             | 2.20                     |



## Test Graphs



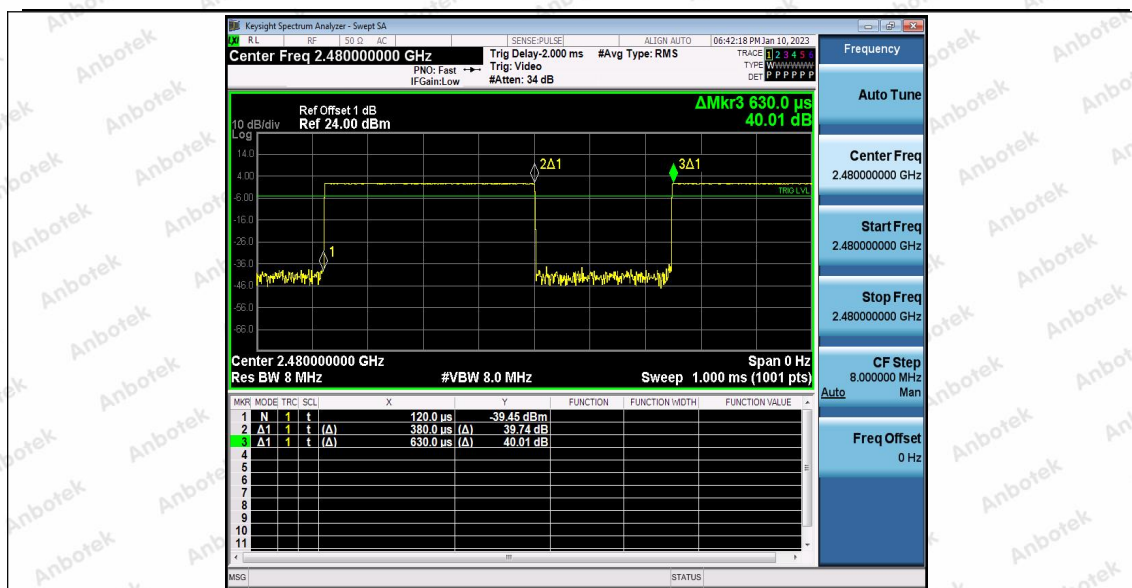
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