

## Appendix Test Data

|                  |                 |                    |                   |
|------------------|-----------------|--------------------|-------------------|
| Report No.:      | 18220WC20189201 | Test Sample No.:   | 1-2-2             |
| Start Test Date: | 2022.8.17       | Finish Test Date:  | 2022.8.29         |
| Test Engineer:   | <i>Tony He</i>  | Auditor:           | <i>Edward Pan</i> |
| Temperature:     | 27.3°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           | 0.696        | 2401.648 | 2402.344 | 0.5        | PASS    |
|          |         | 2440           | 0.684        | 2439.656 | 2440.340 | 0.5        | PASS    |
|          |         | 2480           | 0.688        | 2479.648 | 2480.336 | 0.5        | PASS    |



## Test Graphs



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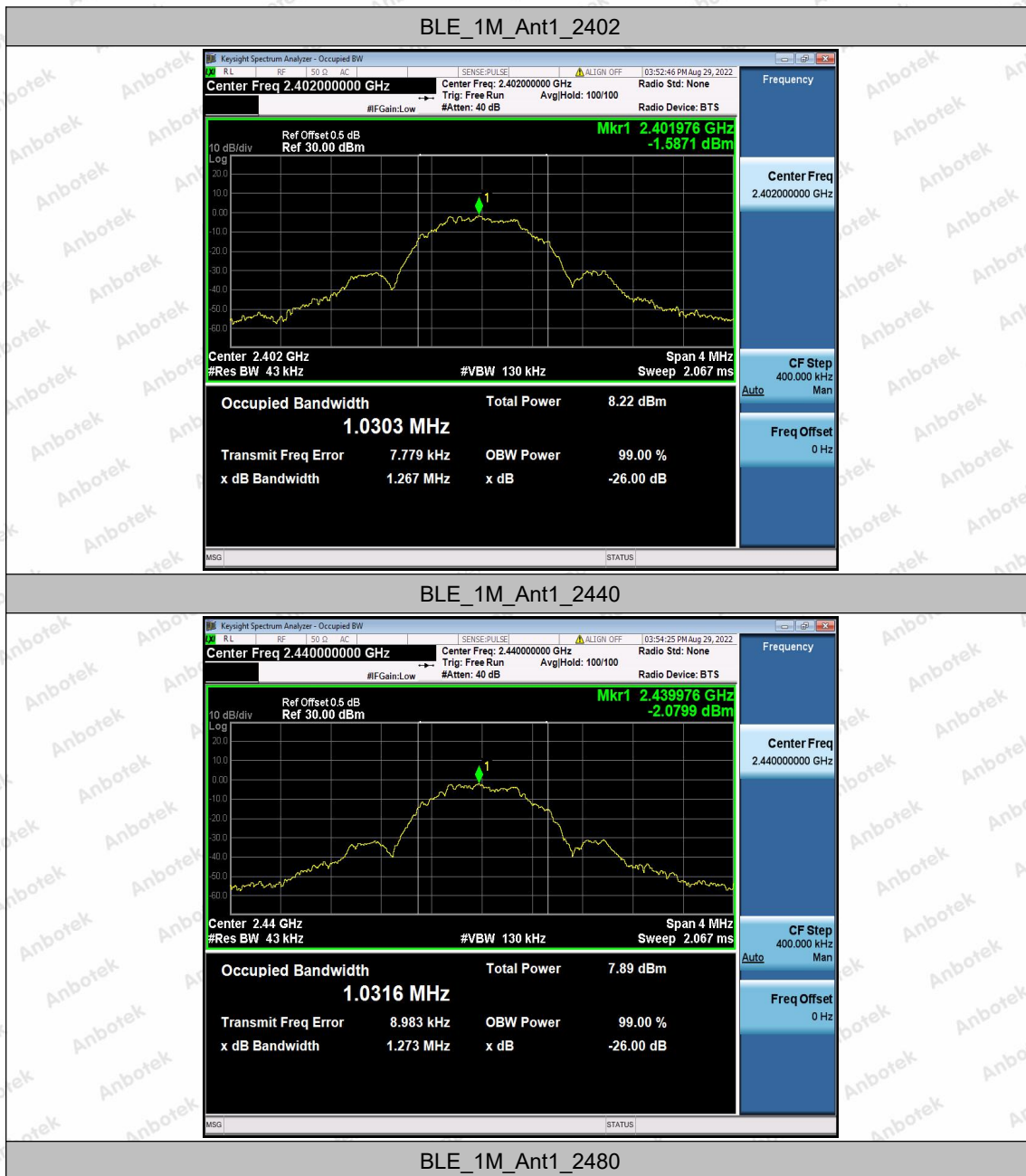
## Appendix B: Occupied Channel Bandwidth

### Test Result

| TestMode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   |
|----------|---------|----------------|-----------|-----------|-----------|
| BLE_1M   | Ant1    | 2402           | 1.0303    | 2401.4926 | 2402.5229 |
|          |         | 2440           | 1.0316    | 2439.4932 | 2440.5248 |
|          |         | 2480           | 1.0248    | 2479.4963 | 2480.5211 |



## Test Graphs



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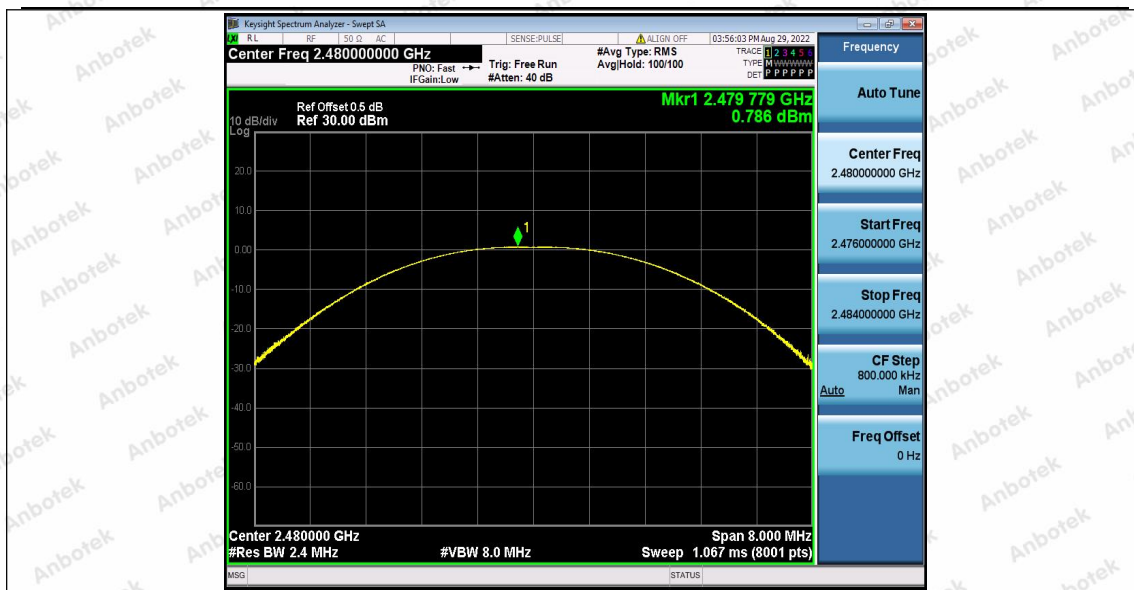
## Appendix C: Maximum conducted output power

### Test Result Peak

| TestMode | Antenna | Frequency[MHz] | Conducted Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|----------|---------|----------------|---------------------------|----------------------|---------|
| BLE_1M   | Ant1    | 2402           | 1.91                      | ≤30                  | PASS    |
|          |         | 2440           | 1.53                      | ≤30                  | PASS    |
|          |         | 2480           | 0.79                      | ≤30                  | PASS    |







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## Appendix D: Maximum power spectral density

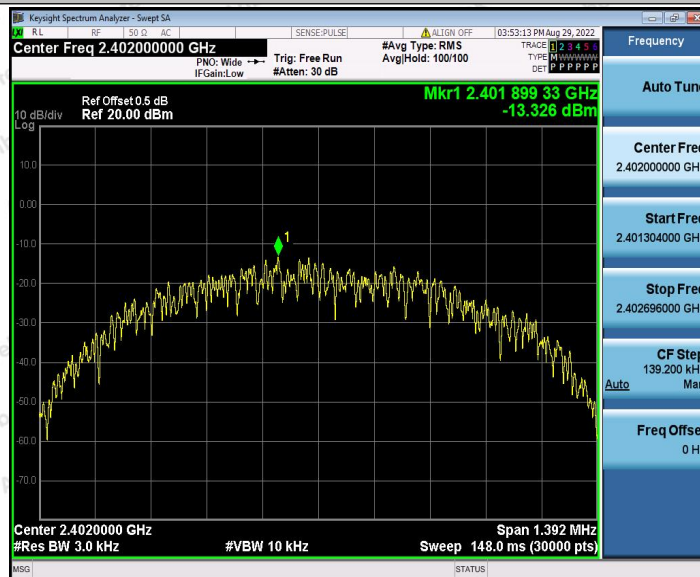
### Test Result

| TestMode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|----------------|------------------|-----------------|---------|
| BLE_1M   | Ant1    | 2402           | -13.33           | ≤8.00           | PASS    |
|          |         | 2440           | -13.6            | ≤8.00           | PASS    |
|          |         | 2480           | -14.37           | ≤8.00           | PASS    |

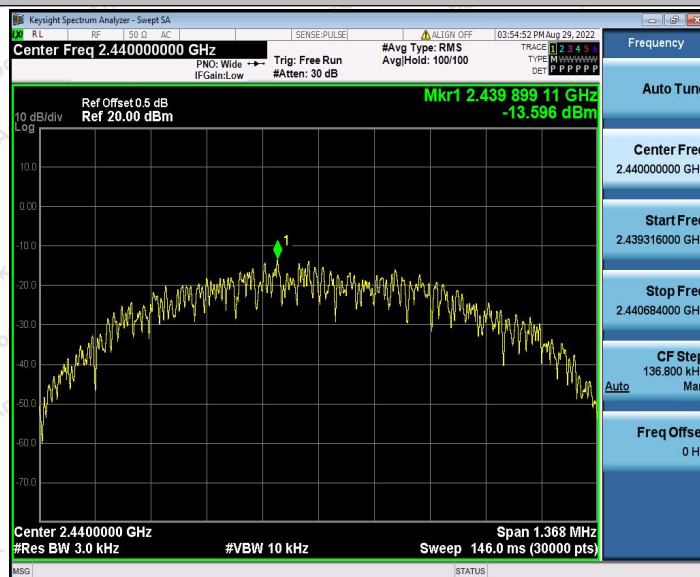


## Test Graphs

BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



BLE\_1M\_Ant1\_2480

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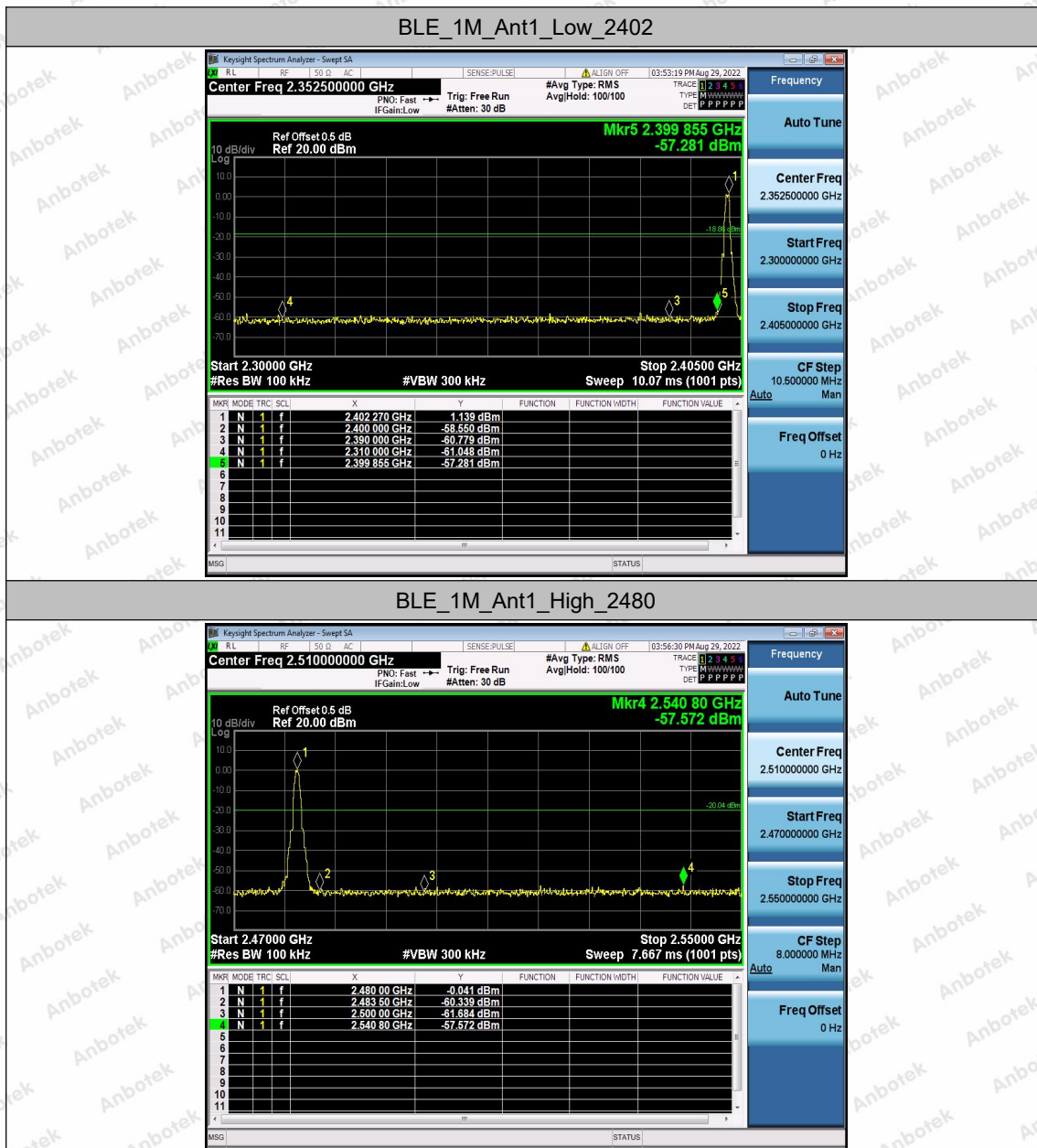
**Appendix E: Band edge measurements**

**Test Result**

| TestMode | Antenna | Channel | Frequency[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|----------------|---------------|-------------|------------|---------|
| BLE_1M   | Ant1    | Low     | 2402           | 1.14          | -57.28      | ≤-18.86    | PASS    |
|          |         | High    | 2480           | -0.04         | -57.57      | ≤-20.04    | 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       | 0.35           | 0.35        | ---        | PASS    |
|          |         |                | 30~1000         | 0.35           | -70.53      | ≤-29.65    | PASS    |
|          |         |                | 1000~26500      | 0.35           | -54.27      | ≤-29.65    | PASS    |
|          |         | 2440           | Reference       | -0.02          | -0.02       | ---        | PASS    |
|          |         |                | 30~1000         | -0.02          | -69.89      | ≤-30.02    | PASS    |
|          |         |                | 1000~26500      | -0.02          | -54.26      | ≤-30.02    | PASS    |
|          |         | 2480           | Reference       | -0.77          | -0.77       | ---        | PASS    |
|          |         |                | 30~1000         | -0.77          | -70.4       | ≤-30.77    | PASS    |
|          |         |                | 1000~26500      | -0.77          | -54.32      | ≤-30.77    | PASS    |



## Test Graphs



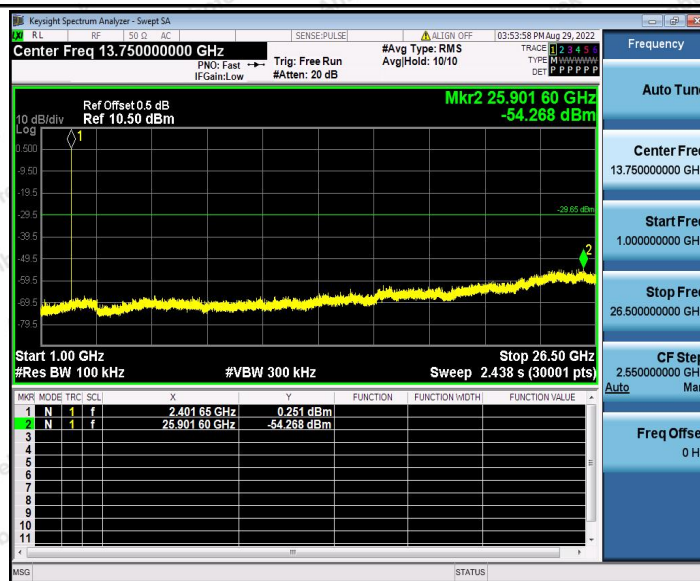
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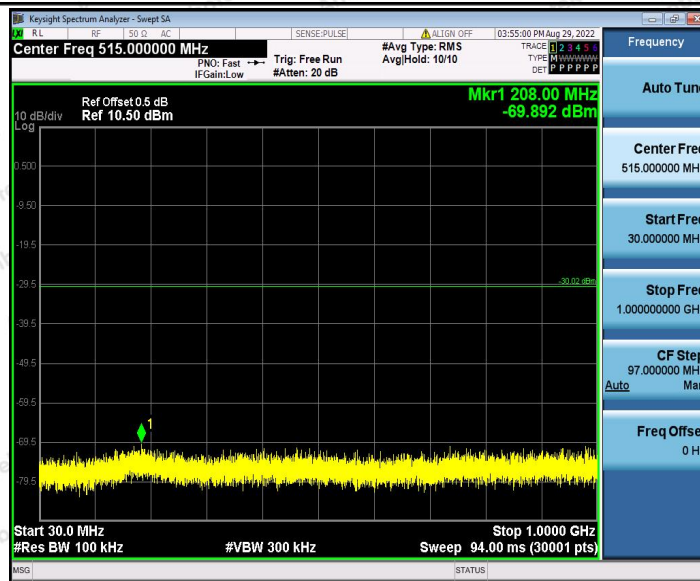


BLE\_1M\_Ant1\_2440\_0~Reference

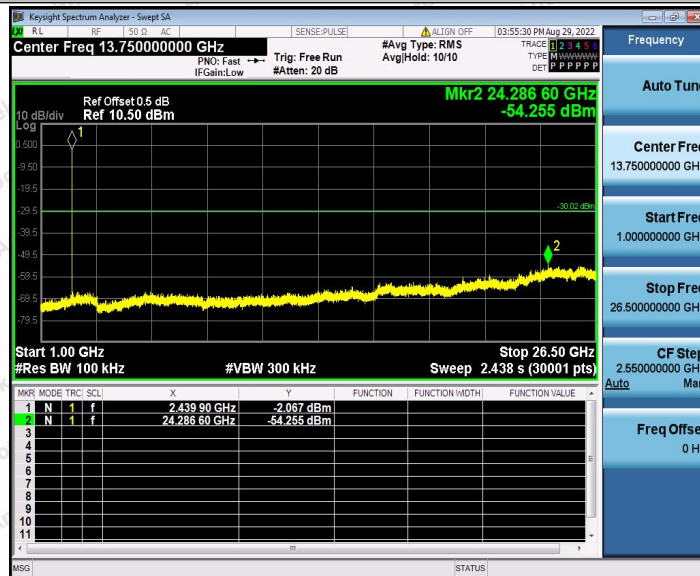


BLE\_1M\_Ant1\_2440\_30~1000





BLE\_1M\_Ant1\_2440\_1000~26500



BLE\_1M\_Ant1\_2480\_0~Reference

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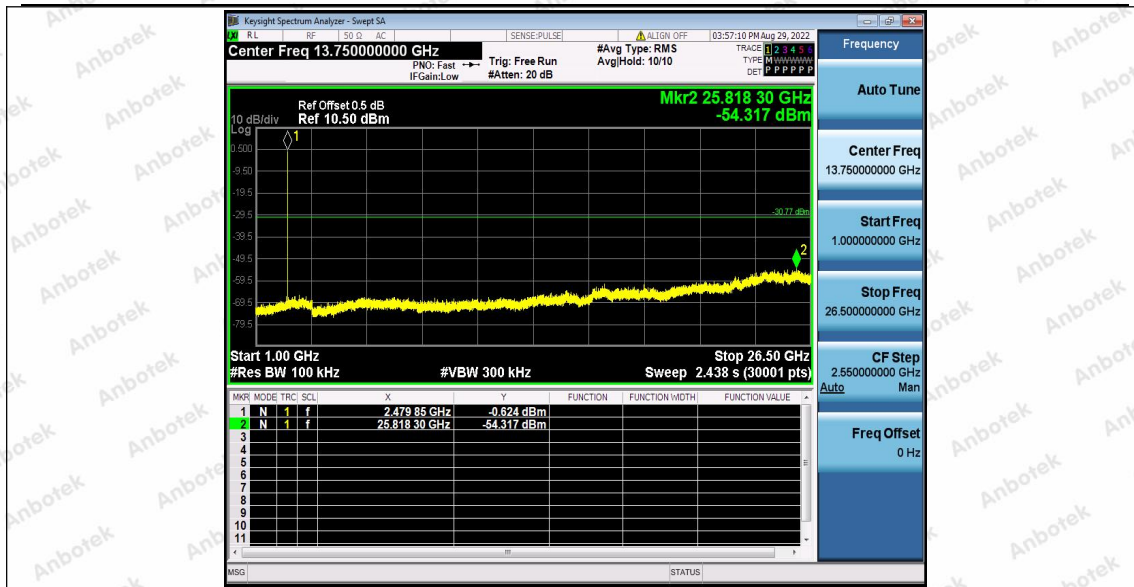
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## Appendix G: Duty Cycle

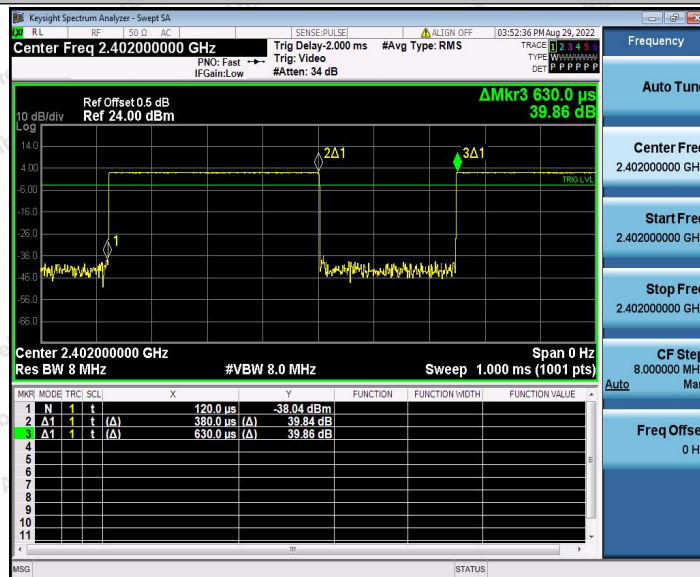
### Test Result

| TestMode | Antenna | Frequency[MHz] | ON Time<br>[ms] | Period<br>[ms] | Duty Cycle<br>[%] | Duty Cycle<br>Factor[dB] |
|----------|---------|----------------|-----------------|----------------|-------------------|--------------------------|
| BLE_1M   | Ant1    | 2402           | 0.38            | 0.63           | 60.32             | 2.20                     |
|          |         | 2440           | 0.38            | 0.63           | 60.32             | 2.20                     |
|          |         | 2480           | 0.38            | 0.63           | 60.32             | 2.20                     |

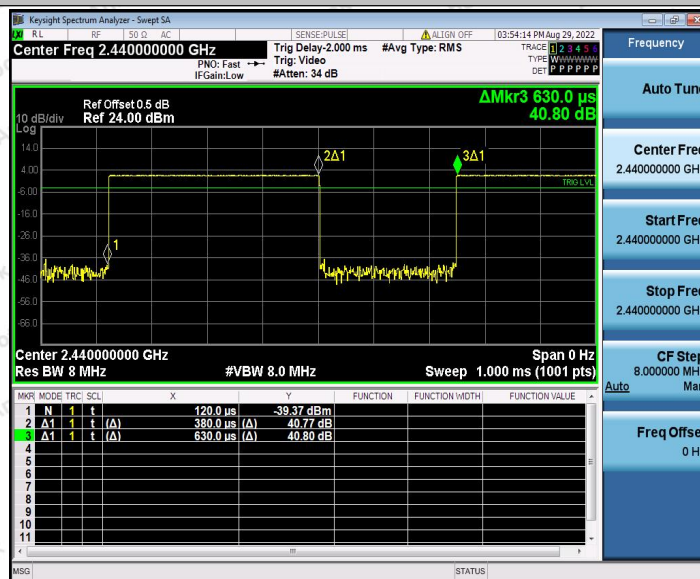


## Test Graphs

BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



BLE\_1M\_Ant1\_2480

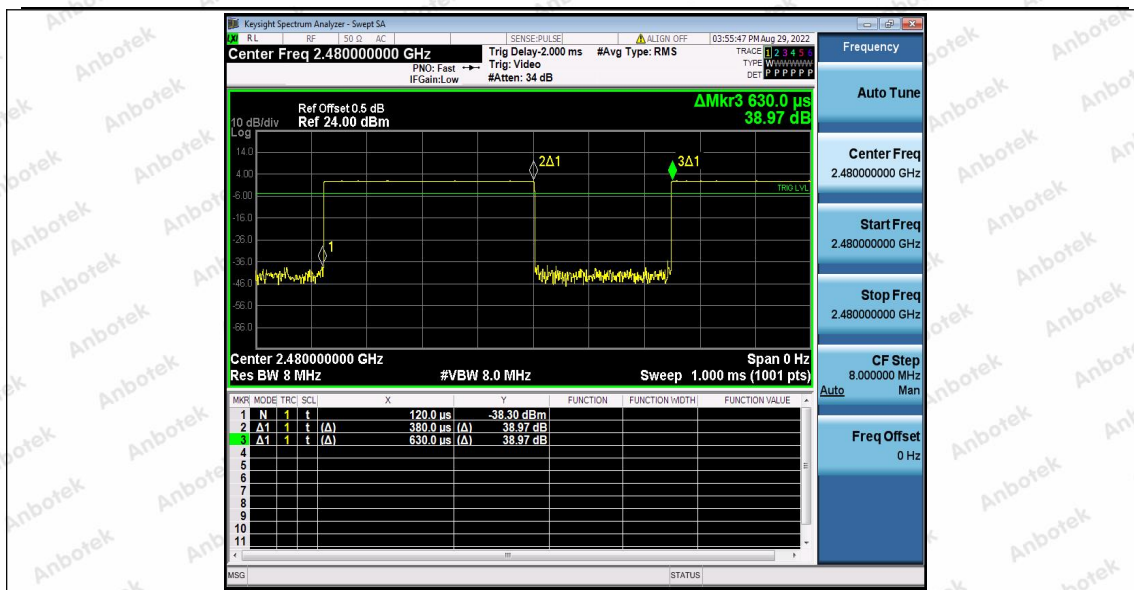
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