

## Appendix Test Data

|                  |                   |                    |                    |
|------------------|-------------------|--------------------|--------------------|
| Report No.:      | 18220WC40074702   | Test Sample No.:   | 1-2-2              |
| Start Test Date: | 2024.04.19        | Finish Test Date:  | 2024.04.20         |
| Test Engineer:   | <i>Joker Wang</i> | Auditor:           | <i>Justin Feng</i> |
| Temperature:     | 25.3°C            | Relative Humidity: | 48%                |
| Pressure:        | 101kPa            |                    |                    |

## Appendix A: 6dB Bandwidth

## Test Result

| TestMode | Antenna | Frequency[MHz] | 6dB BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|----------------|--------------|----------|----------|------------|---------|
| BLE_1M   | Ant2    | 2402           | 0.668        | 2401.692 | 2402.360 | 0.5        | PASS    |
| BLE_1M   | Ant2    | 2440           | 0.676        | 2439.668 | 2440.344 | 0.5        | PASS    |
| BLE_1M   | Ant2    | 2480           | 0.700        | 2479.656 | 2480.356 | 0.5        | PASS    |
| BLE_2M   | Ant2    | 2402           | 1.308        | 2401.348 | 2402.656 | 0.5        | PASS    |
| BLE_2M   | Ant2    | 2440           | 1.332        | 2439.344 | 2440.676 | 0.5        | PASS    |
| BLE_2M   | Ant2    | 2480           | 1.364        | 2479.324 | 2480.688 | 0.5        | PASS    |

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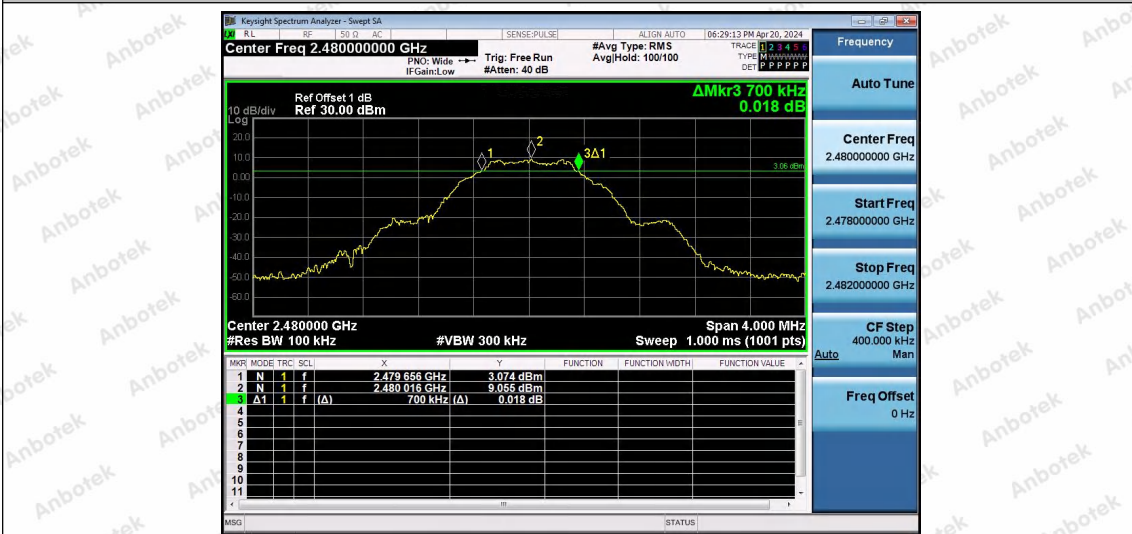
## Test Graphs



BLE\_1M-Ant2-2402-PASS



BLE\_1M-Ant2-2440-PASS



BLE\_1M-Ant2-2480-PASS

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BLE\_2M-Ant2-2402-PASS



BLE\_2M-Ant2-2440-PASS



BLE\_2M-Ant2-2480-PASS

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## Appendix B: 99% Occupied Bandwidth

### Test Result

| TestMode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|----------|---------|----------------|-----------|-----------|-----------|------------|---------|
| BLE_1M   | Ant2    | 2402           | 1.0527    | 2401.4993 | 2402.5520 | ---        | ---     |
| BLE_1M   | Ant2    | 2440           | 1.0526    | 2439.4958 | 2440.5484 | ---        | ---     |
| BLE_1M   | Ant2    | 2480           | 1.0536    | 2479.4865 | 2480.5401 | ---        | ---     |
| BLE_2M   | Ant2    | 2402           | 2.0907    | 2400.9874 | 2403.0781 | ---        | ---     |
| BLE_2M   | Ant2    | 2440           | 2.0962    | 2438.9808 | 2441.0770 | ---        | ---     |
| BLE_2M   | Ant2    | 2480           | 2.0959    | 2478.9727 | 2481.0686 | ---        | ---     |

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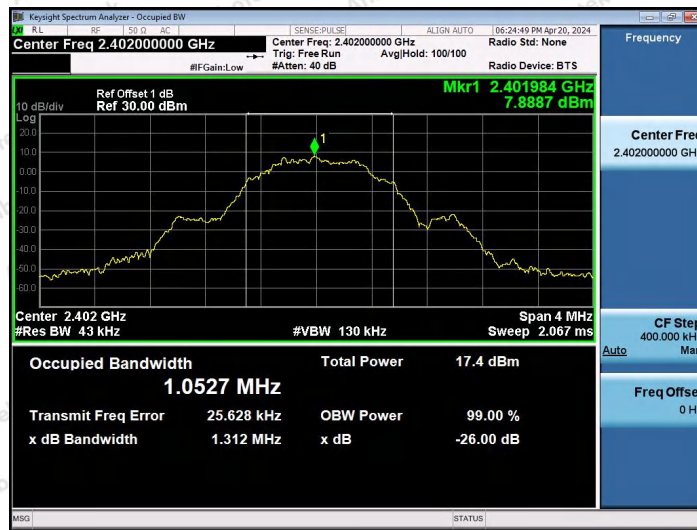


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## Test Graphs



BLE\_1M-Ant2-2402



BLE\_1M-Ant2-2440



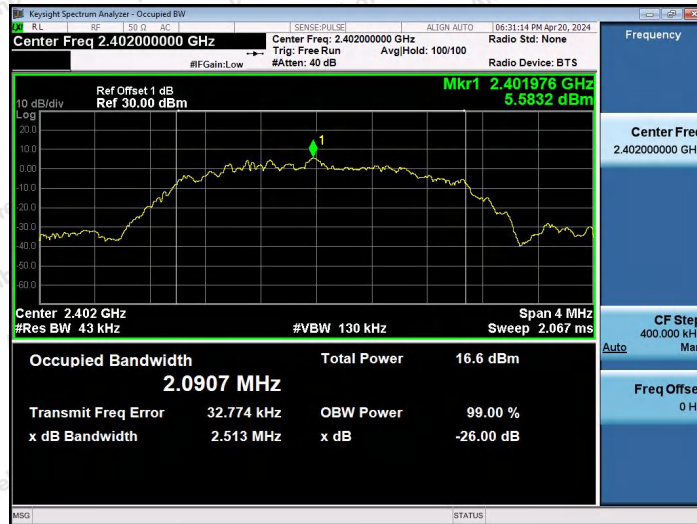
BLE\_1M-Ant2-2480

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BLE\_2M-Ant2-2402



BLE\_2M-Ant2-2440



BLE\_2M-Ant2-2480

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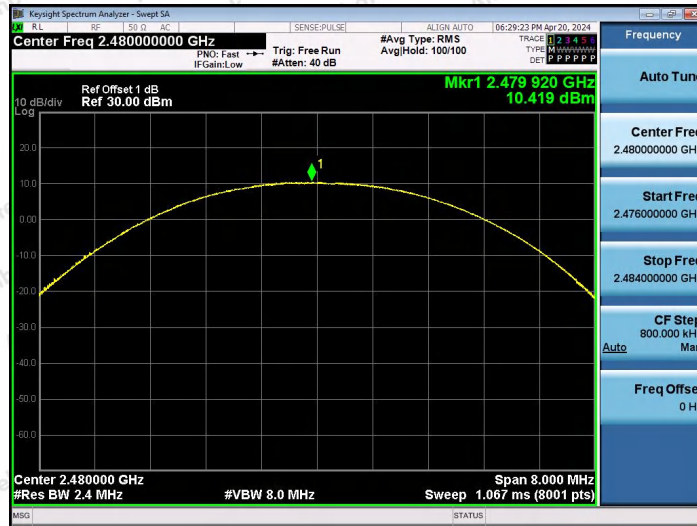
## Appendix C: Maximum conducted output power

### Test Result Peak

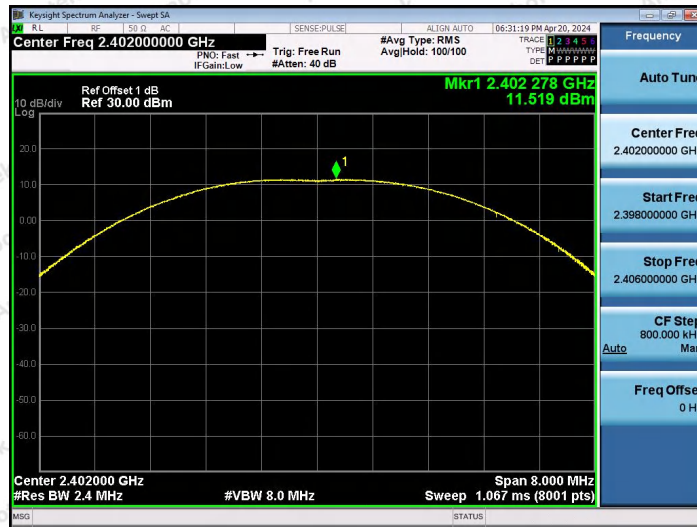
| TestMode | Antenna | Frequency[MHz] | Conducted Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|----------|---------|----------------|---------------------------|----------------------|---------|
| BLE_1M   | Ant2    | 2402           | 11.52                     | ≤30                  | PASS    |
| BLE_1M   | Ant2    | 2440           | 11.28                     | ≤30                  | PASS    |
| BLE_1M   | Ant2    | 2480           | 10.42                     | ≤30                  | PASS    |
| BLE_2M   | Ant2    | 2402           | 11.52                     | ≤30                  | PASS    |
| BLE_2M   | Ant2    | 2440           | 11.32                     | ≤30                  | PASS    |
| BLE_2M   | Ant2    | 2480           | 10.43                     | ≤30                  | PASS    |

### Test Graphs Peak

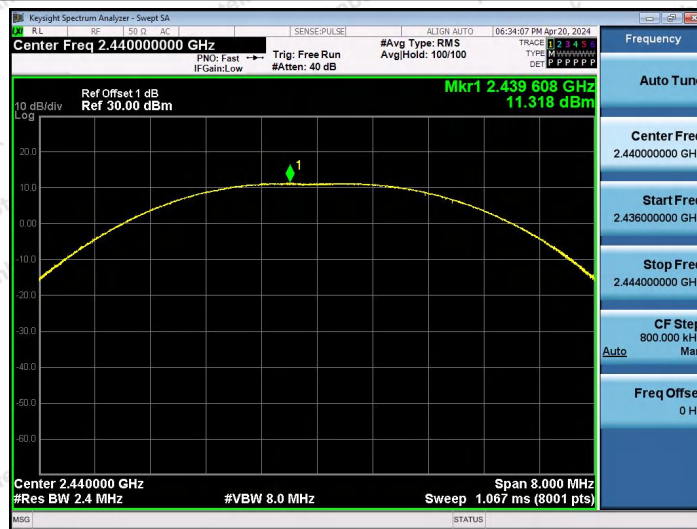




BLE\_1M-Ant2-2480-PASS



BLE\_2M-Ant2-2402-PASS



BLE\_2M-Ant2-2440-PASS

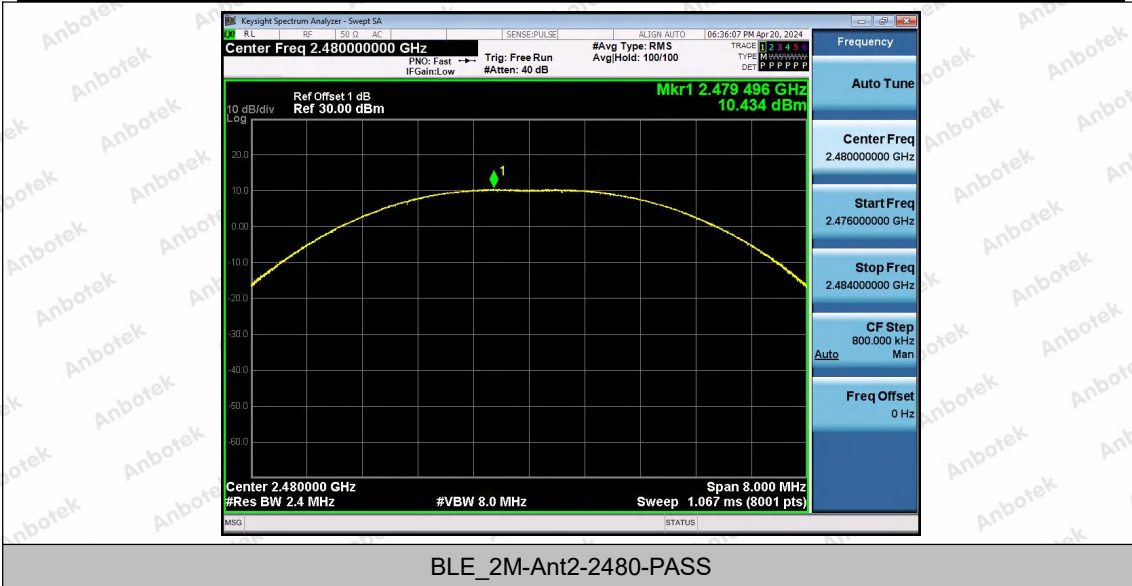
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## Appendix D: Maximum power spectral density

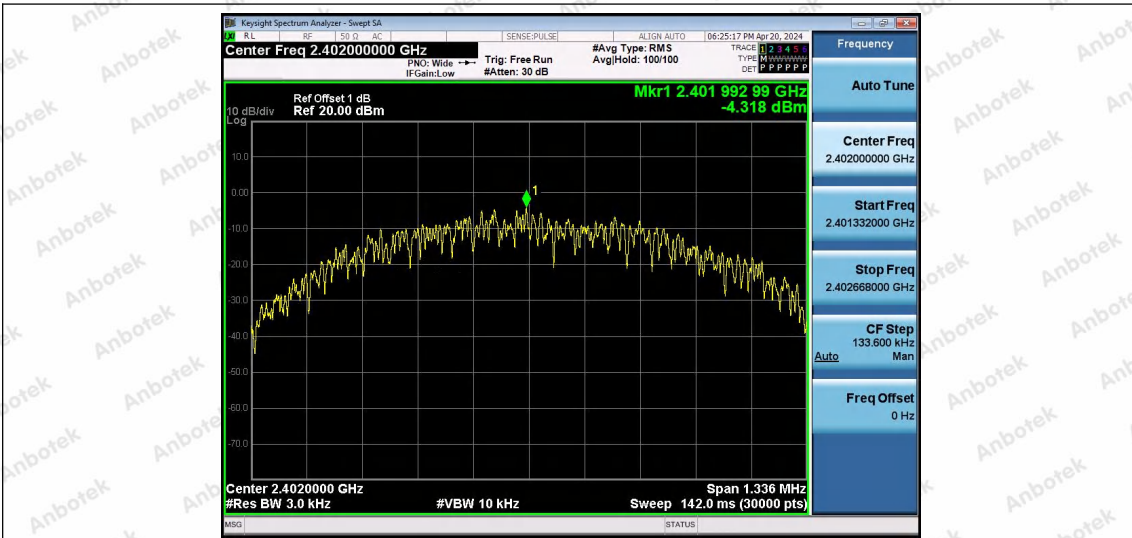
### Test Result

| TestMode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|----------------|------------------|-----------------|---------|
| BLE_1M   | Ant2    | 2402           | -4.32            | ≤8.00           | PASS    |
| BLE_1M   | Ant2    | 2440           | -4.59            | ≤8.00           | PASS    |
| BLE_1M   | Ant2    | 2480           | -5.48            | ≤8.00           | PASS    |
| BLE_2M   | Ant2    | 2402           | -7.15            | ≤8.00           | PASS    |
| BLE_2M   | Ant2    | 2440           | -7.37            | ≤8.00           | PASS    |
| BLE_2M   | Ant2    | 2480           | -8.36            | ≤8.00           | PASS    |

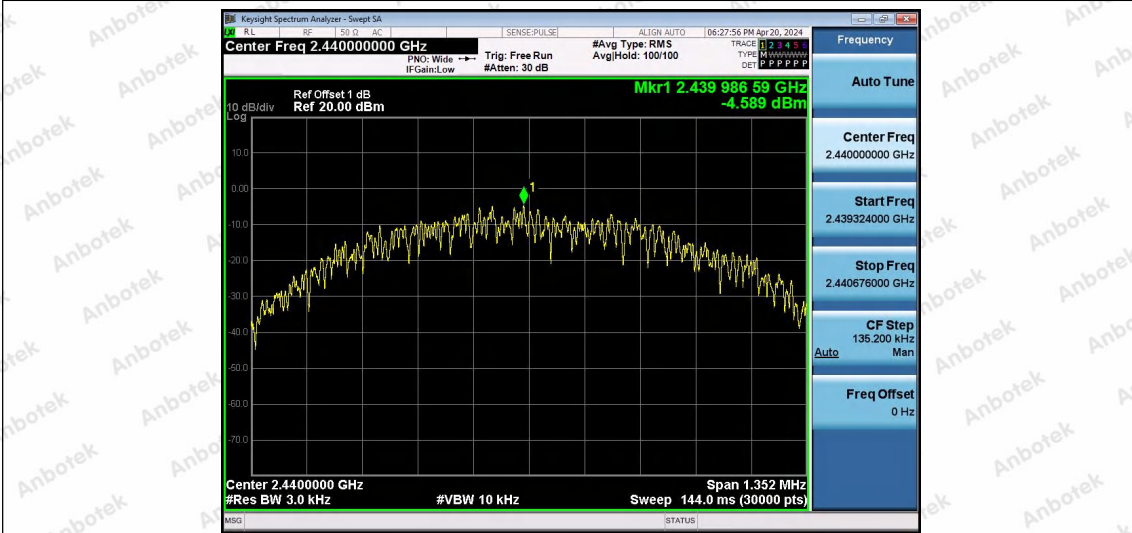




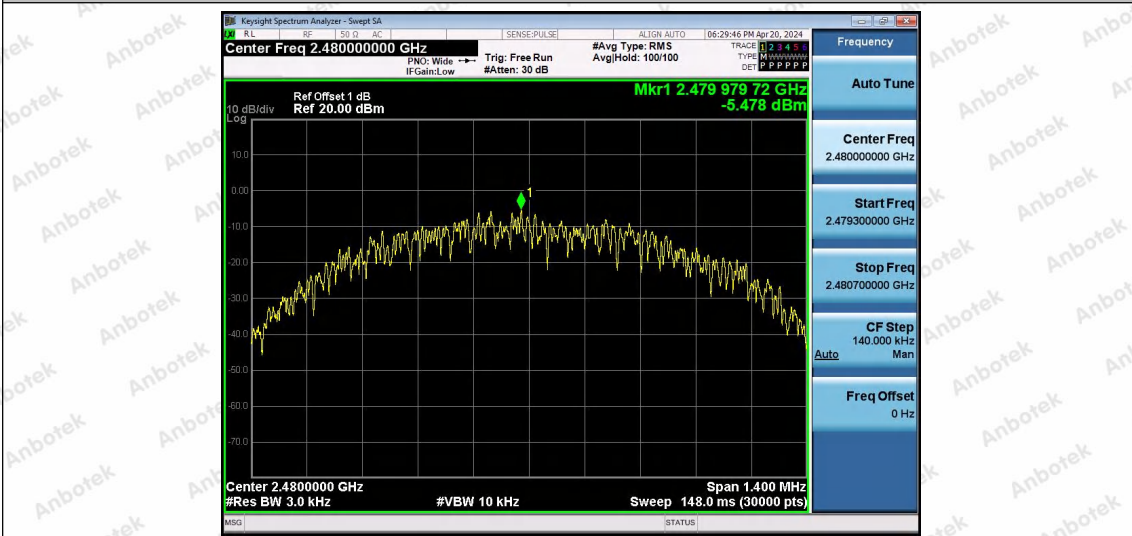
## Test Graphs



BLE\_1M-Ant2-2402-PASS



BLE\_1M-Ant2-2440-PASS



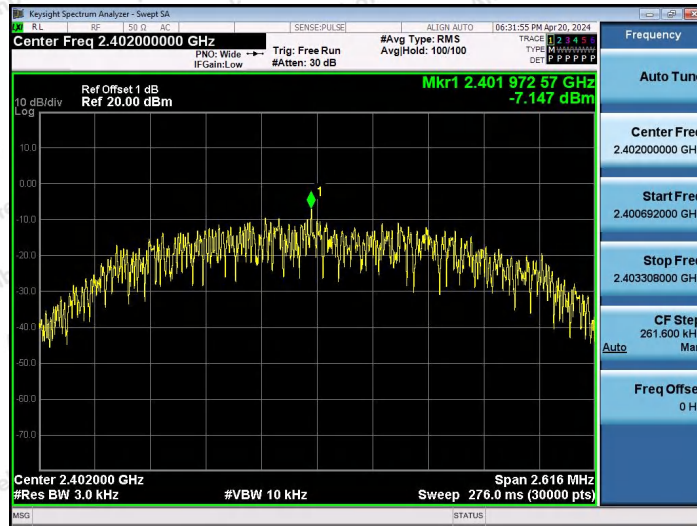
BLE\_1M-Ant2-2480-PASS

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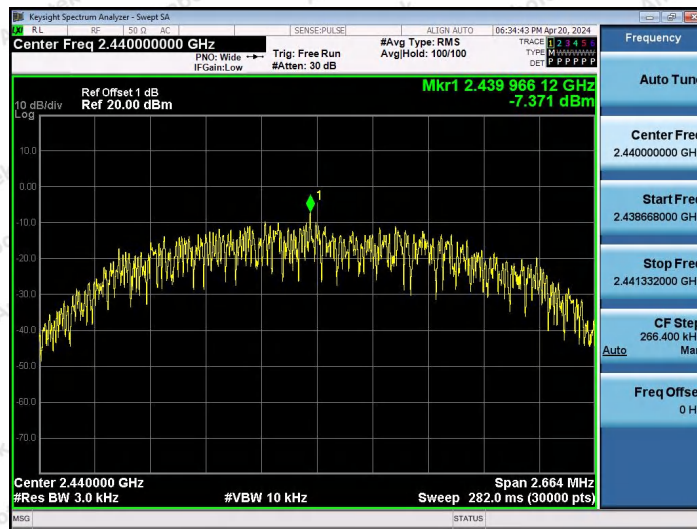
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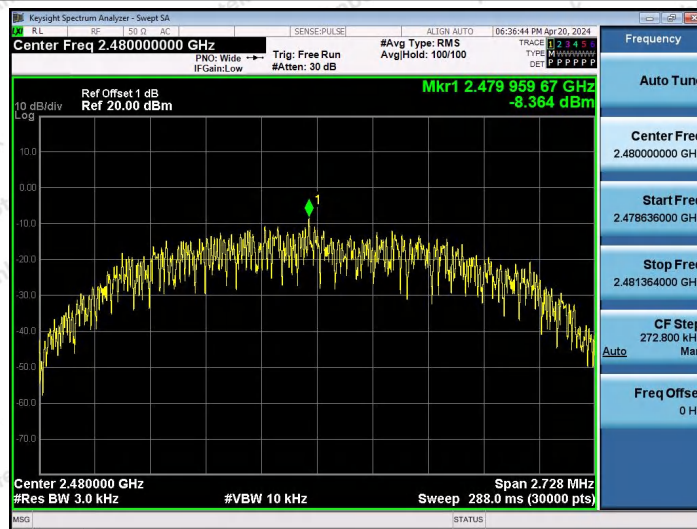




BLE\_2M-Ant2-2402-PASS



BLE\_2M-Ant2-2440-PASS



BLE\_2M-Ant2-2480-PASS

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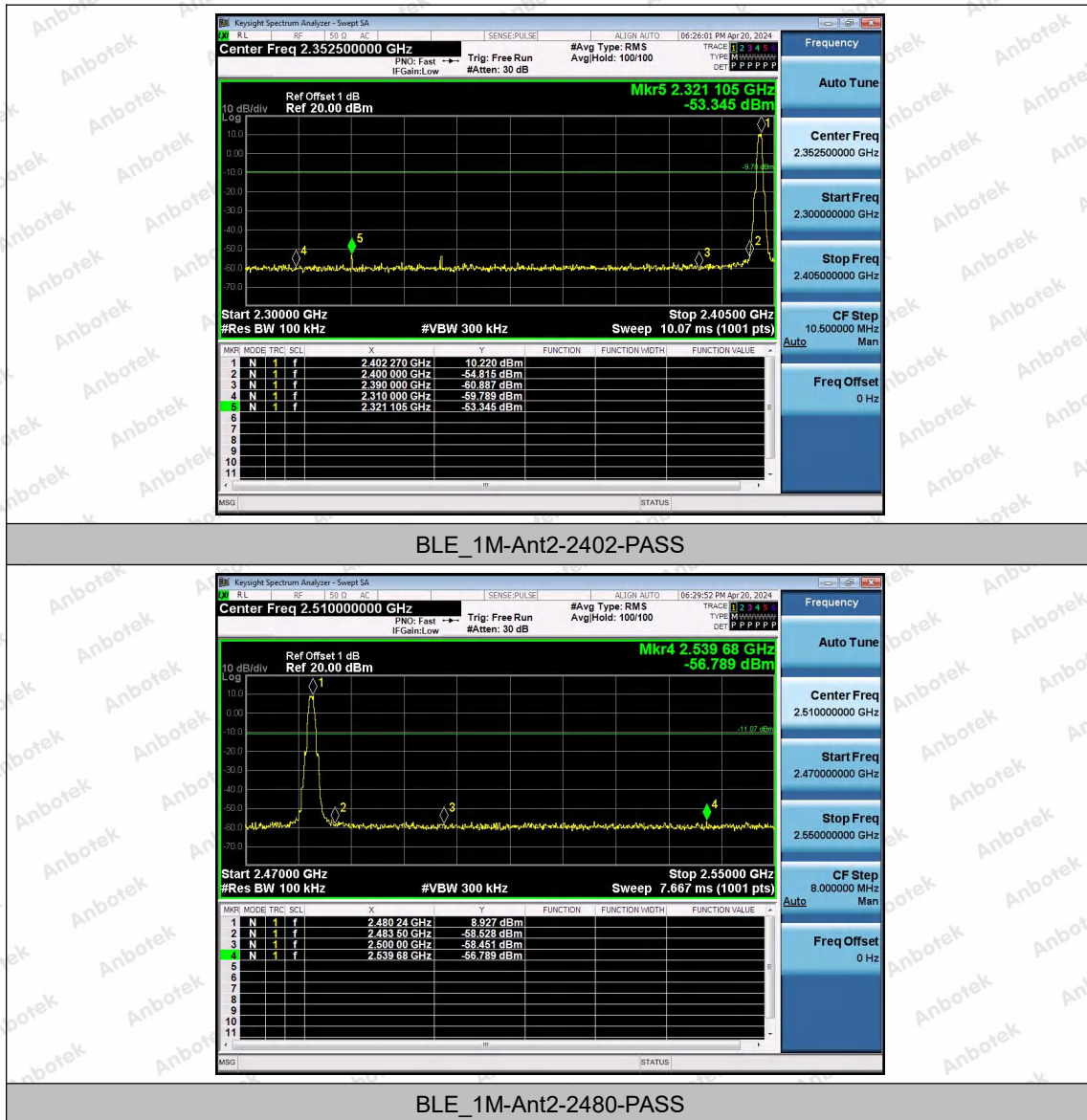


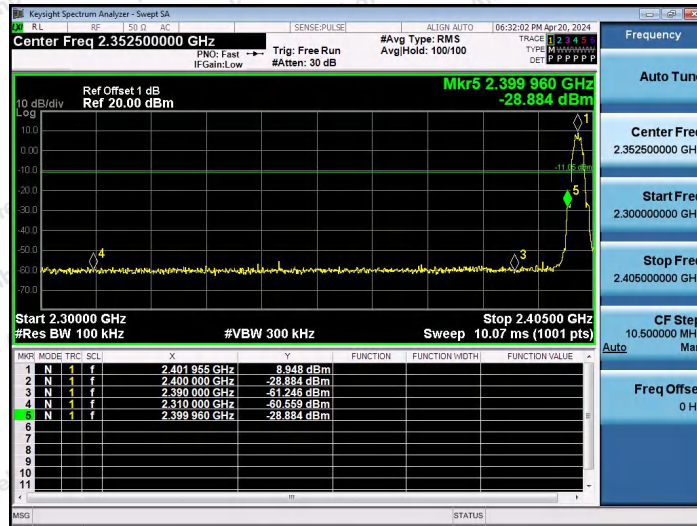
## Appendix E: Band edge measurements

### Test Result

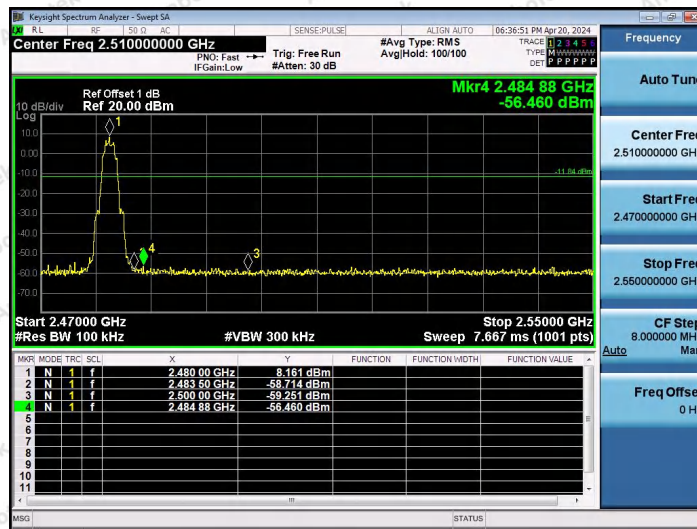
| TestMode | Antenna | Channel | Frequency [MHz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|----------|---------|---------|-----------------|----------------|--------------|-------------|---------|
| BLE_1M   | Ant2    | Low     | 2402            | 10.22          | -53.35       | ≤-9.78      | PASS    |
| BLE_1M   | Ant2    | High    | 2480            | 8.93           | -56.79       | ≤-11.07     | PASS    |
| BLE_2M   | Ant2    | Low     | 2402            | 8.95           | -28.88       | ≤-11.05     | PASS    |
| BLE_2M   | Ant2    | High    | 2480            | 8.16           | -56.46       | ≤-11.84     | PASS    |

### Test Graphs





BLE\_2M-Ant2-240-PASS



BLE\_2M-Ant2-248-PASS

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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   | Ant2    | 2402           | 0~Reference     | 10.29          | 10.29       | ---        | PASS    |
| BLE_1M   | Ant2    | 2402           | 30~1000         | 10.29          | -68.57      | ≤-9.71     | PASS    |
| BLE_1M   | Ant2    | 2402           | 1000~26500      | 10.29          | -40.95      | ≤-9.71     | PASS    |
| BLE_1M   | Ant2    | 2440           | 0~Reference     | 10.05          | 10.05       | ---        | PASS    |
| BLE_1M   | Ant2    | 2440           | 30~1000         | 10.05          | -68.68      | ≤-9.95     | PASS    |
| BLE_1M   | Ant2    | 2440           | 1000~26500      | 10.05          | -44.13      | ≤-9.95     | PASS    |
| BLE_1M   | Ant2    | 2480           | 0~Reference     | 9.18           | 9.18        | ---        | PASS    |
| BLE_1M   | Ant2    | 2480           | 30~1000         | 9.18           | -68.73      | ≤-10.82    | PASS    |
| BLE_1M   | Ant2    | 2480           | 1000~26500      | 9.18           | -47.72      | ≤-10.82    | PASS    |
| BLE_2M   | Ant2    | 2402           | 0~Reference     | 9.26           | 9.26        | ---        | PASS    |
| BLE_2M   | Ant2    | 2402           | 30~1000         | 9.26           | -67.89      | ≤-10.74    | PASS    |
| BLE_2M   | Ant2    | 2402           | 1000~26500      | 9.26           | -41.03      | ≤-10.74    | PASS    |
| BLE_2M   | Ant2    | 2440           | 0~Reference     | 8.99           | 8.99        | ---        | PASS    |
| BLE_2M   | Ant2    | 2440           | 30~1000         | 8.99           | -69.15      | ≤-11.01    | PASS    |
| BLE_2M   | Ant2    | 2440           | 1000~26500      | 8.99           | -44.64      | ≤-11.01    | PASS    |
| BLE_2M   | Ant2    | 2480           | 0~Reference     | 8.04           | 8.04        | ---        | PASS    |
| BLE_2M   | Ant2    | 2480           | 30~1000         | 8.04           | -68.04      | ≤-11.96    | PASS    |
| BLE_2M   | Ant2    | 2480           | 1000~26500      | 8.04           | -47.7       | ≤-11.96    | PASS    |

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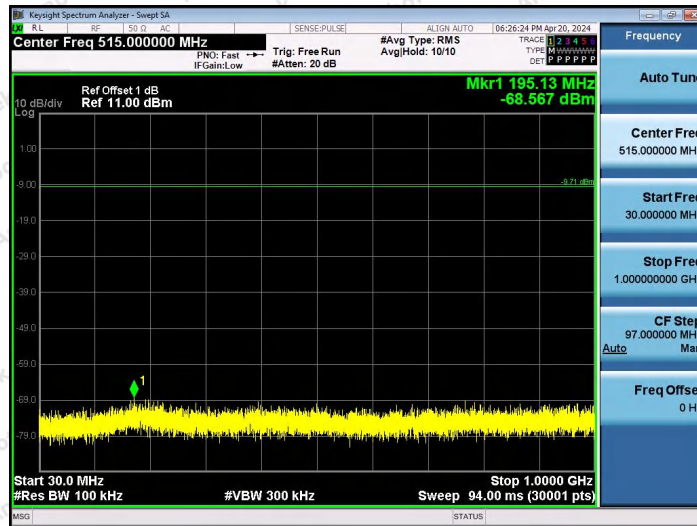
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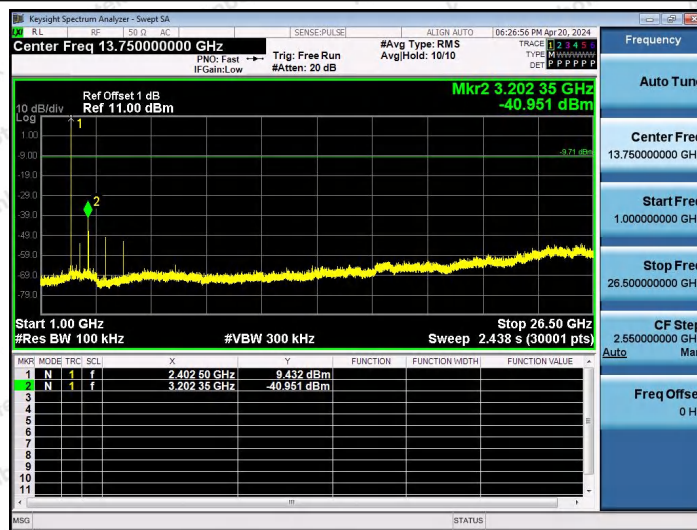
## Test Graphs



BLE\_1M-Ant2-2402-0~Reference-PASS



BLE\_1M-Ant2-2402-30~1000-PASS



BLE\_1M-Ant2-2402-1000~26500-PASS

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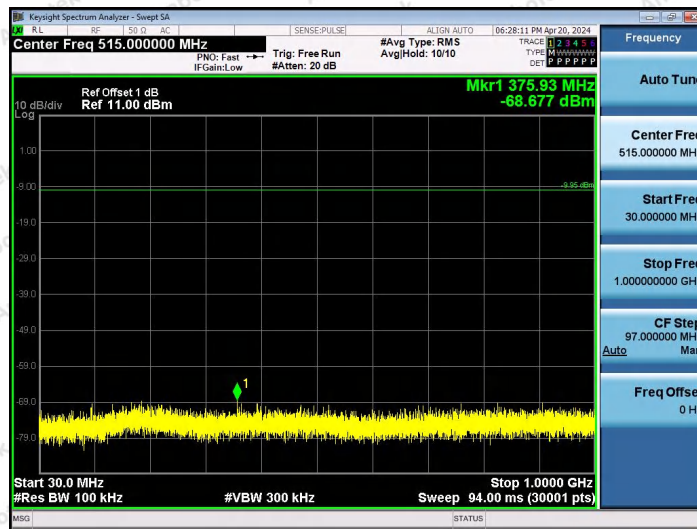
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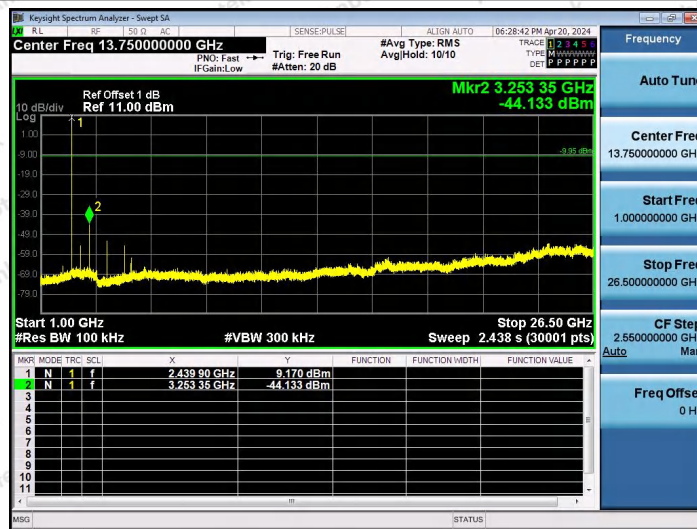




BLE\_1M-Ant2-2440-0~Reference-PASS



BLE\_1M-Ant2-2440-30~1000-PASS



BLE\_1M-Ant2-2440-1000~26500-PASS

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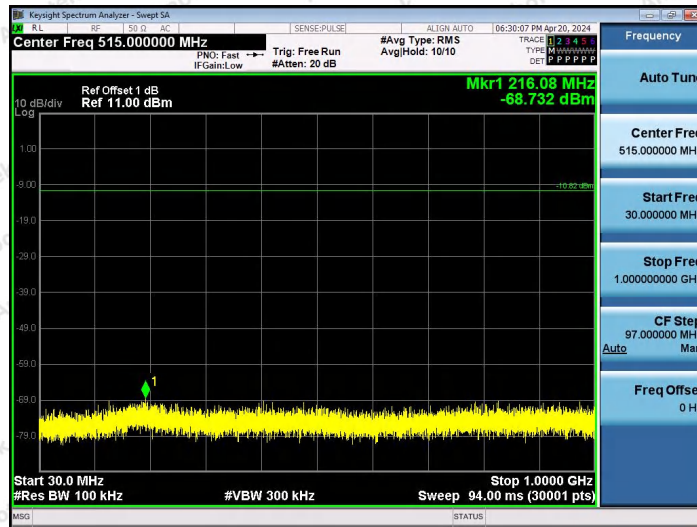
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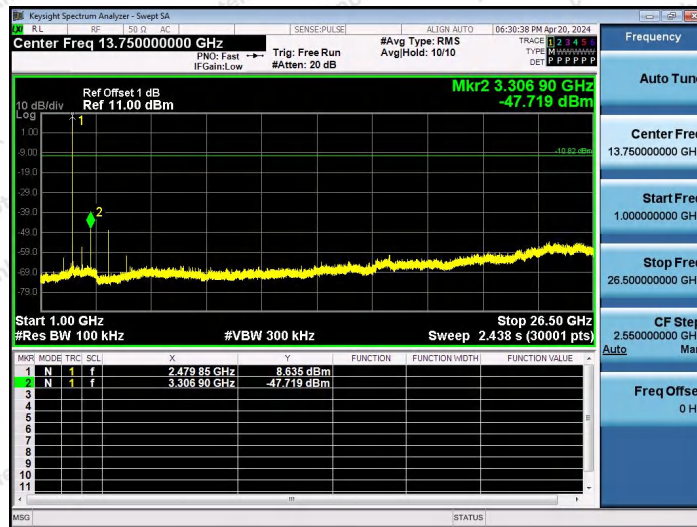




BLE\_1M-Ant2-2480-0~Reference-PASS



BLE\_1M-Ant2-2480-30~1000-PASS



BLE\_1M-Ant2-2480-1000~26500-PASS

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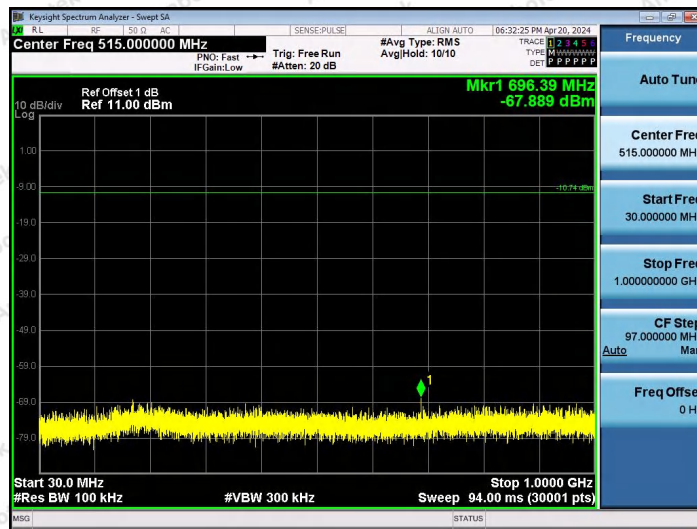
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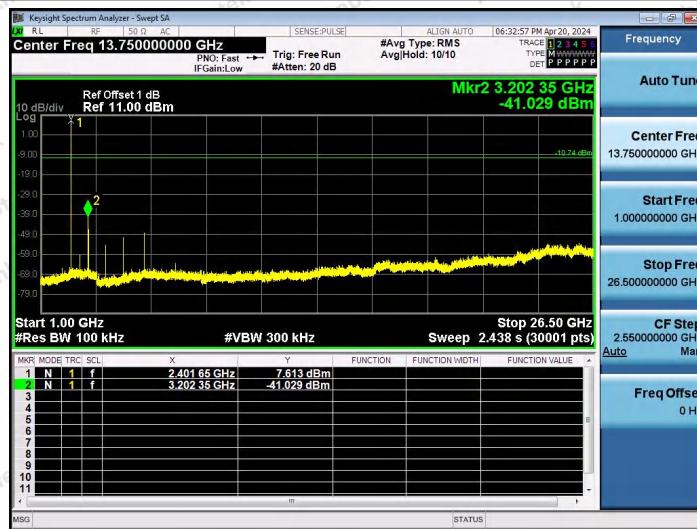




BLE\_2M-Ant2-2402-0~Reference-PASS



BLE\_2M-Ant2-2402-30~1000-PASS



BLE\_2M-Ant2-2402-1000~26500-PASS

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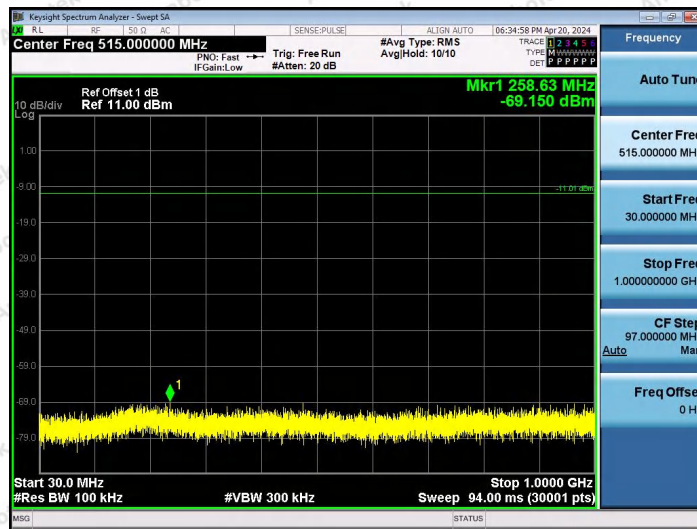
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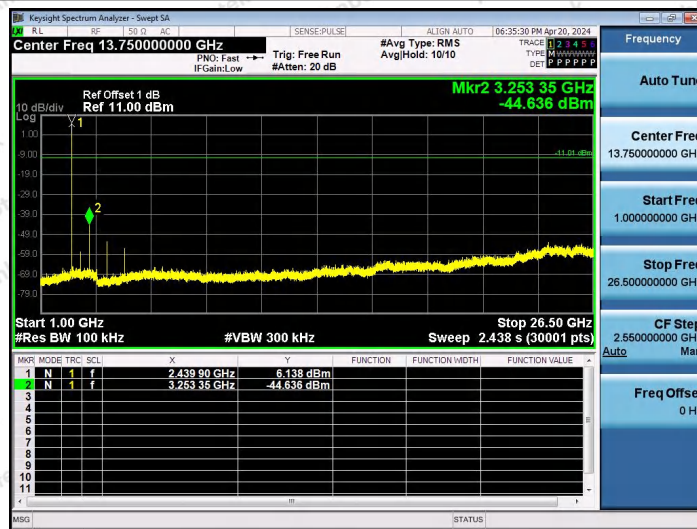




BLE\_2M-Ant2-2440-0~Reference-PASS



BLE\_2M-Ant2-2440-30~1000-PASS



BLE\_2M-Ant2-2440-1000~26500-PASS

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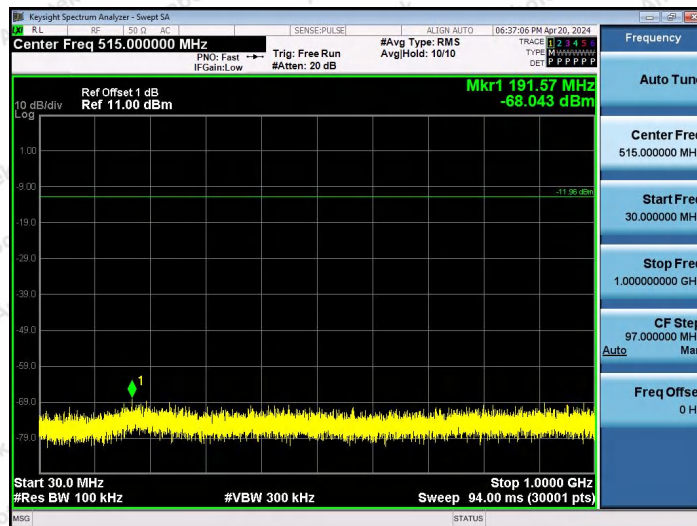
Hotline 400-003-0500  
www.anbotek.com.cn



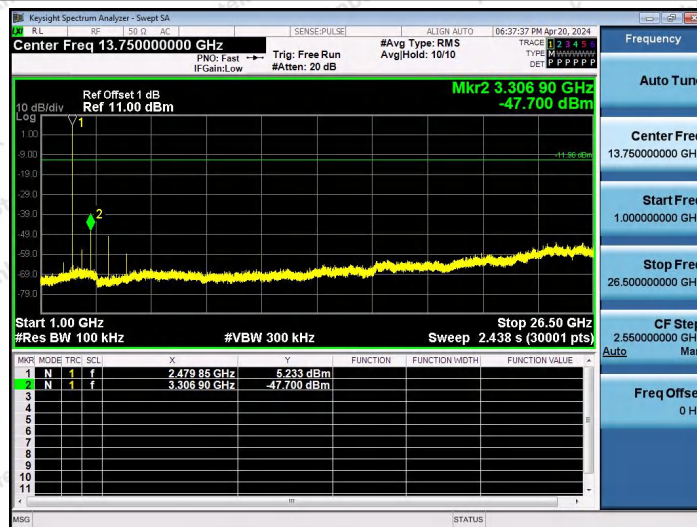




BLE\_2M-Ant2-2480-0~Reference-PASS



BLE\_2M-Ant2-2480-30~1000-PASS



BLE\_2M-Ant2-2480-1000~26500-PASS

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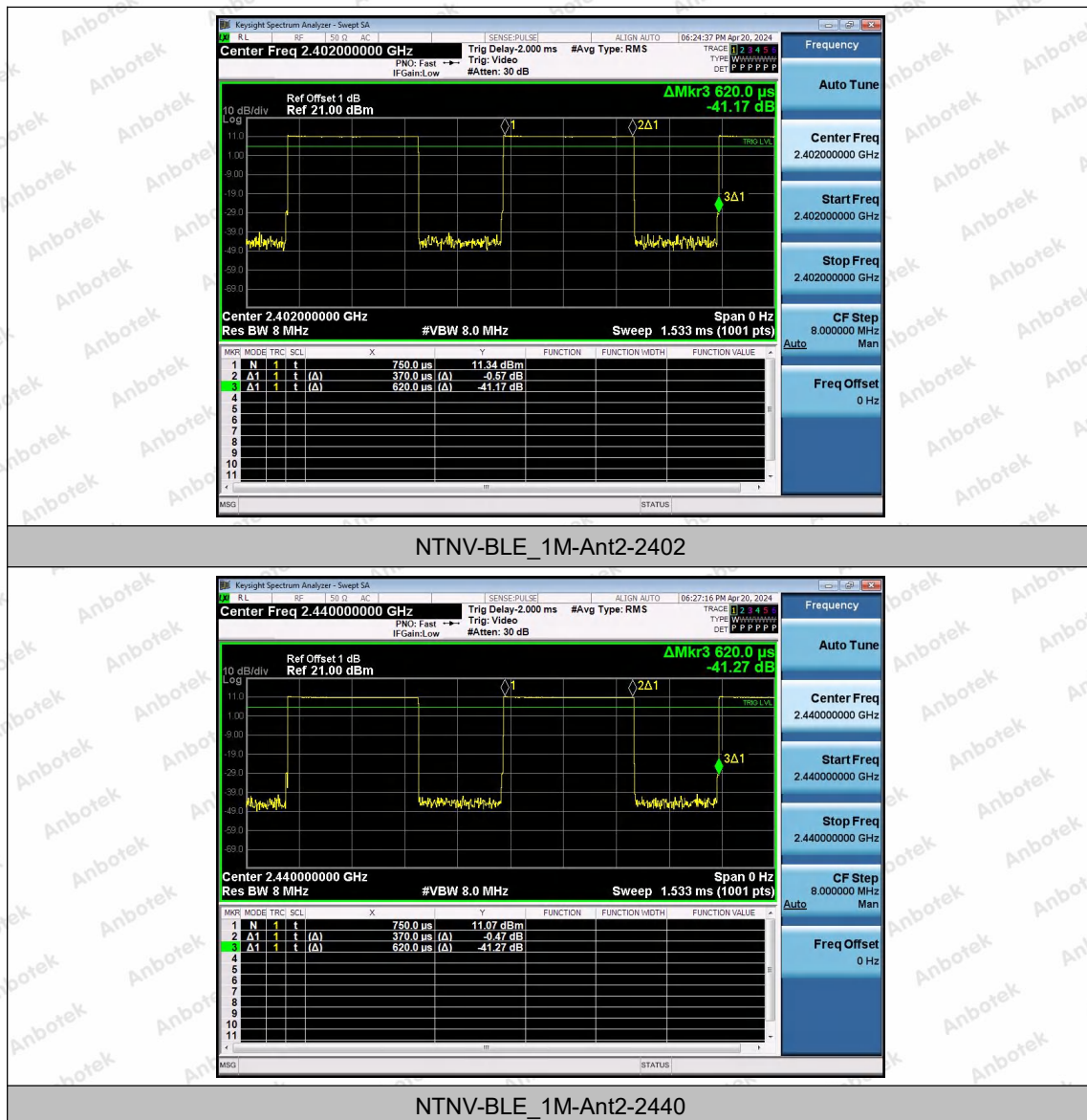


## Appendix G: Duty Cycle

### Test Result

| TestMode | Antenna | Frequency[MHz] | ON Time [ms] | Period [ms] | Duty Cycle [%] | Duty Cycle Factor[dB] |
|----------|---------|----------------|--------------|-------------|----------------|-----------------------|
| BLE_1M   | Ant2    | 2402           | 0.37         | 0.62        | 59.68          | 2.24                  |
| BLE_1M   | Ant2    | 2440           | 0.37         | 0.62        | 59.68          | 2.24                  |
| BLE_1M   | Ant2    | 2480           | 0.38         | 0.63        | 60.32          | 2.20                  |
| BLE_2M   | Ant2    | 2402           | 0.19         | 0.62        | 30.65          | 5.14                  |
| BLE_2M   | Ant2    | 2440           | 0.19         | 0.62        | 30.65          | 5.14                  |
| BLE_2M   | Ant2    | 2480           | 0.20         | 0.63        | 31.75          | 4.98                  |

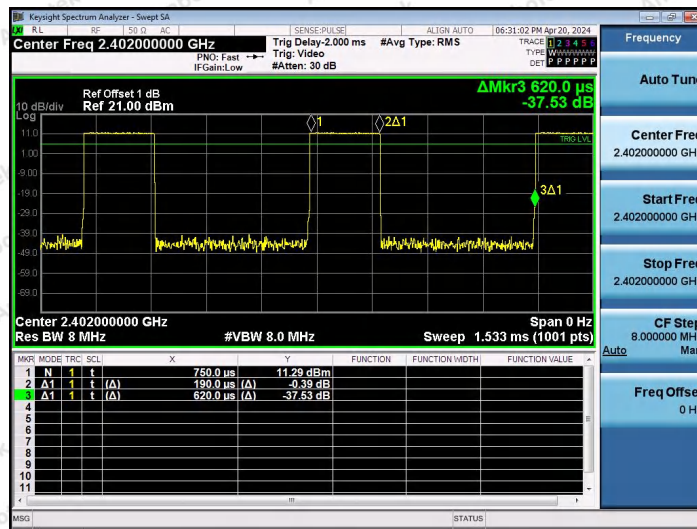
### Test Graphs



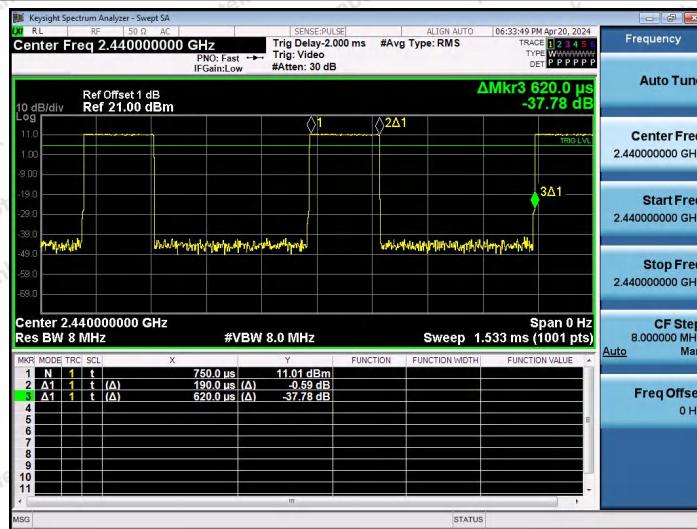




NTNV-BLE\_1M-Ant2-2480



NTNV-BLE\_2M-Ant2-2402



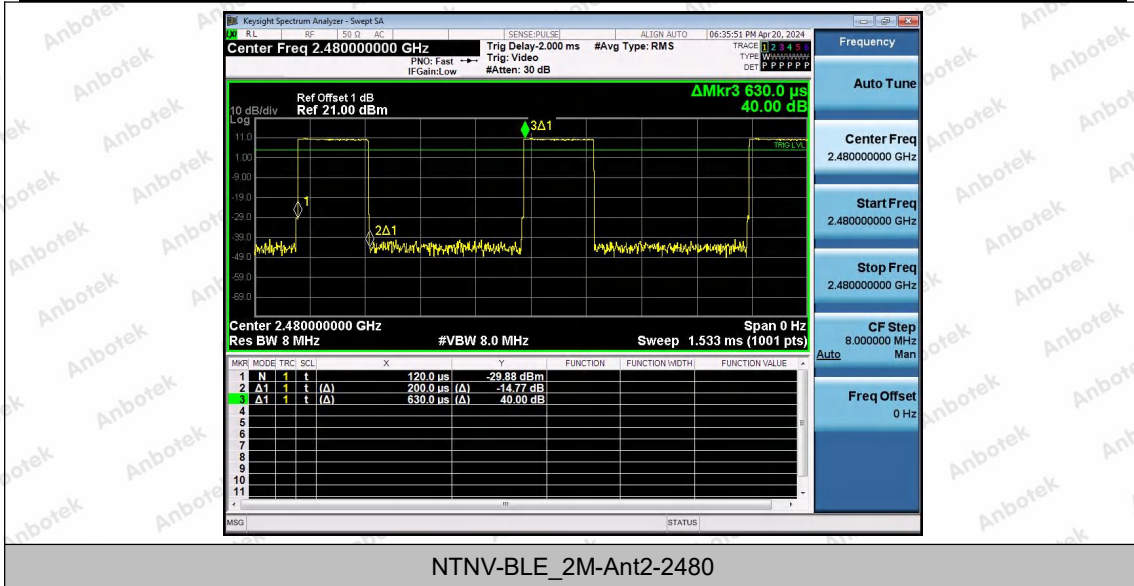
NTNV-BLE\_2M-Ant2-2440

## Shenzhen Anbotek Compliance Laboratory Limited

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NTNV-BLE\_2M-Ant2-2480

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