

Appendix Test Data

|                  |                 |                    |             |
|------------------|-----------------|--------------------|-------------|
| Report No.:      | 18220WC40084001 | Test Sample No.:   | 1-2-2       |
| Start Test Date: | 2024.05.06      | Finish Test Date:  | 2024.05.06  |
| Test Engineer:   | Joker Wang      | Auditor:           | Justin Feng |
| Temperature:     | 25.3℃           | Relative Humidity: | 48%         |
| Pressure:        | 101kPa          |                    |             |

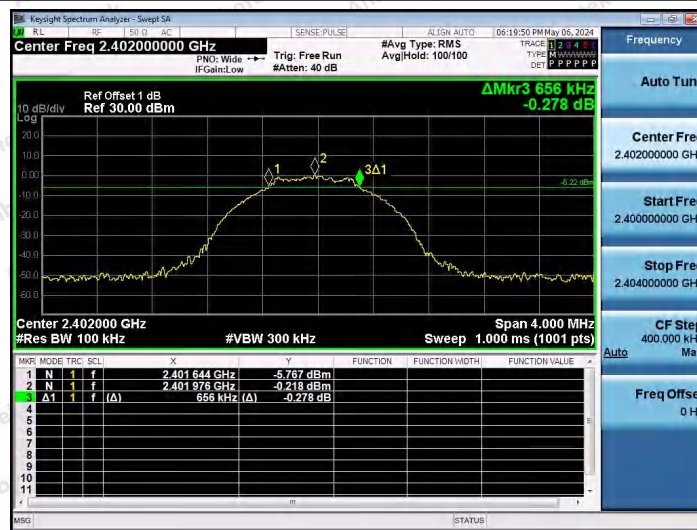
Appendix A: 6dB Bandwidth

Test Result

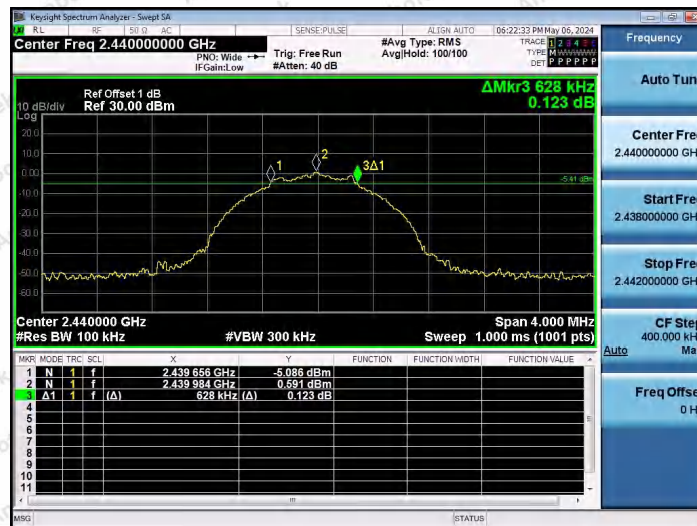
| TestMode | Antenna | Frequency[MHz] | 6dB BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|----------------|--------------|----------|----------|------------|---------|
| BLE_1M   | Ant1    | 2402           | 0.656        | 2401.644 | 2402.300 | 0.5        | PASS    |
| BLE_1M   | Ant1    | 2440           | 0.628        | 2439.656 | 2440.284 | 0.5        | PASS    |
| BLE_1M   | Ant1    | 2480           | 0.640        | 2479.648 | 2480.288 | 0.5        | PASS    |
| BLE_2M   | Ant1    | 2402           | 1.048        | 2401.440 | 2402.488 | 0.5        | PASS    |
| BLE_2M   | Ant1    | 2440           | 1.072        | 2439.432 | 2440.504 | 0.5        | PASS    |
| BLE_2M   | Ant1    | 2480           | 1.100        | 2479.432 | 2480.532 | 0.5        | PASS    |



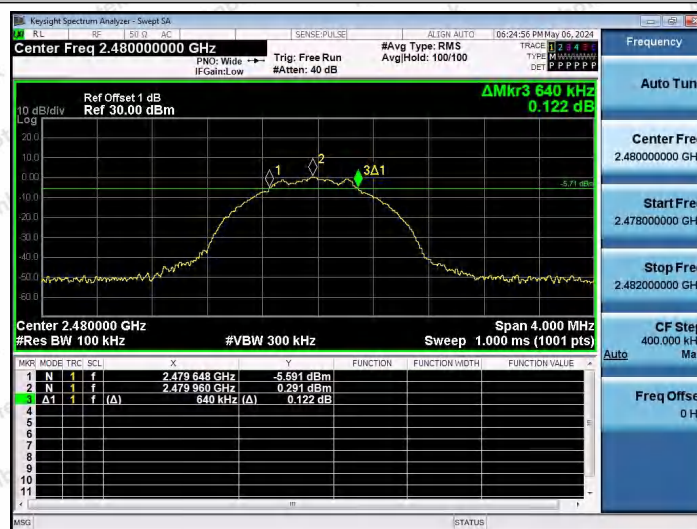
## Test Graphs



BLE\_1M-Ant1-2402-PASS



BLE\_1M-Ant1-2440-PASS



BLE\_1M-Ant1-2480-PASS

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BLE\_2M-Ant1-2402-PASS



BLE\_2M-Ant1-2440-PASS



BLE\_2M-Ant1-2480-PASS

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## Appendix B: 99% Occupied Bandwidth

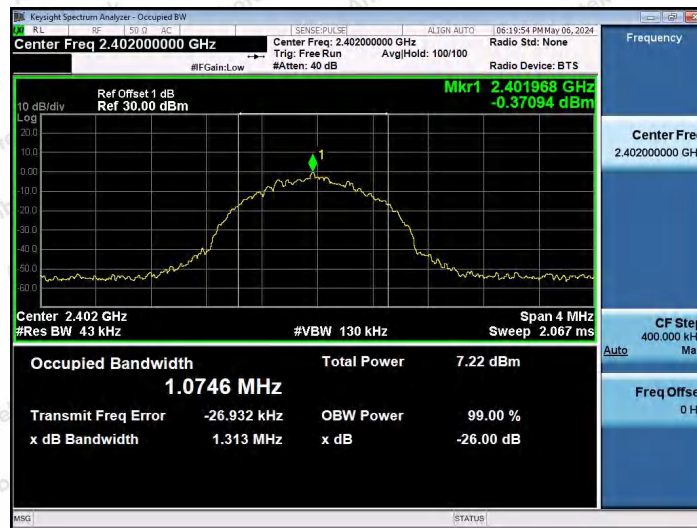
### Test Result

| TestMode | Antenna | Frequency[MHz] | OCB<br>[MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|----------|---------|----------------|--------------|-----------|-----------|------------|---------|
| BLE_1M   | Ant1    | 2402           | 1.0746       | 2401.4358 | 2402.5104 | ---        | ---     |
| BLE_1M   | Ant1    | 2440           | 1.0726       | 2439.4377 | 2440.5103 | ---        | ---     |
| BLE_1M   | Ant1    | 2480           | 1.0726       | 2479.4328 | 2480.5054 | ---        | ---     |
| BLE_2M   | Ant1    | 2402           | 2.0922       | 2400.9358 | 2403.0280 | ---        | ---     |
| BLE_2M   | Ant1    | 2440           | 2.1025       | 2438.9295 | 2441.0320 | ---        | ---     |
| BLE_2M   | Ant1    | 2480           | 2.1023       | 2478.9274 | 2481.0297 | ---        | ---     |

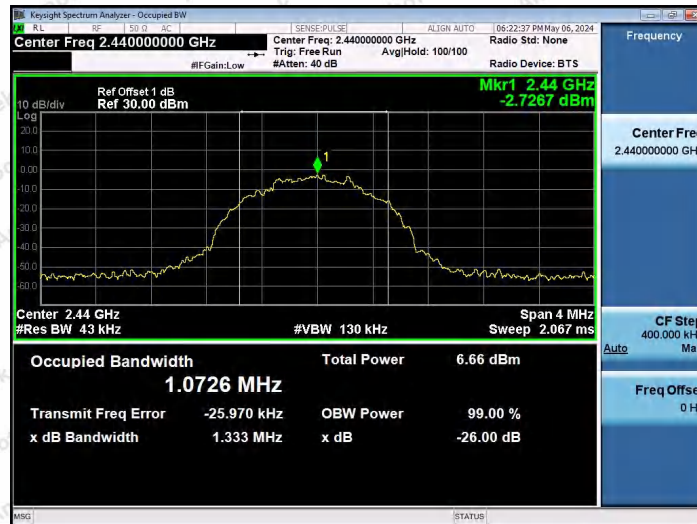




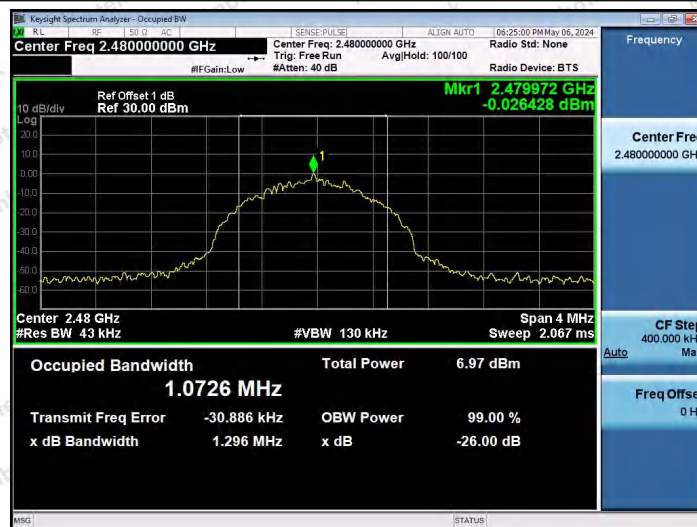
## Test Graphs



BLE\_1M-Ant1-2402



BLE\_1M-Ant1-2440



BLE\_1M-Ant1-2480

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BLE\_2M-Ant1-2402



BLE\_2M-Ant1-2440



BLE\_2M-Ant1-2480

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## Appendix C: Maximum conducted output power

### Test Result Peak

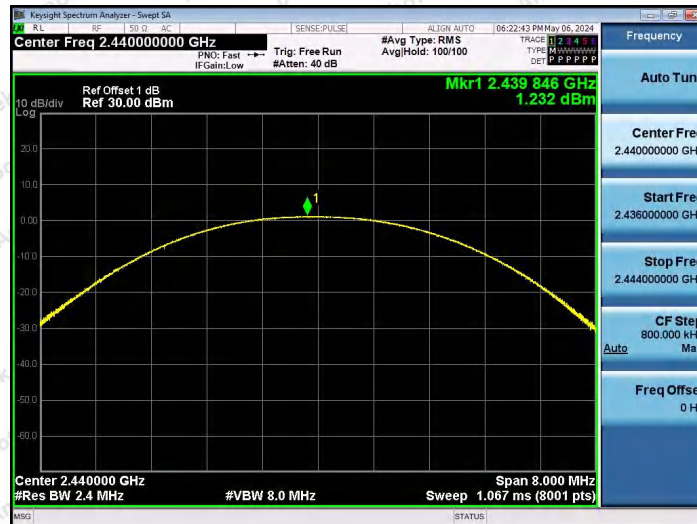
| TestMode | Antenna | Frequency[MHz] | Conducted Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|----------|---------|----------------|---------------------------|----------------------|---------|
| BLE_1M   | Ant1    | 2402           | 1.49                      | ≤30                  | PASS    |
| BLE_1M   | Ant1    | 2440           | 1.23                      | ≤30                  | PASS    |
| BLE_1M   | Ant1    | 2480           | 1.38                      | ≤30                  | PASS    |
| BLE_2M   | Ant1    | 2402           | 1.38                      | ≤30                  | PASS    |
| BLE_2M   | Ant1    | 2440           | 1.00                      | ≤30                  | PASS    |
| BLE_2M   | Ant1    | 2480           | 1.45                      | ≤30                  | PASS    |



## Test Graphs Peak



BLE\_1M-Ant1-2402-PASS



BLE\_1M-Ant1-2440-PASS



BLE\_1M-Ant1-2480-PASS

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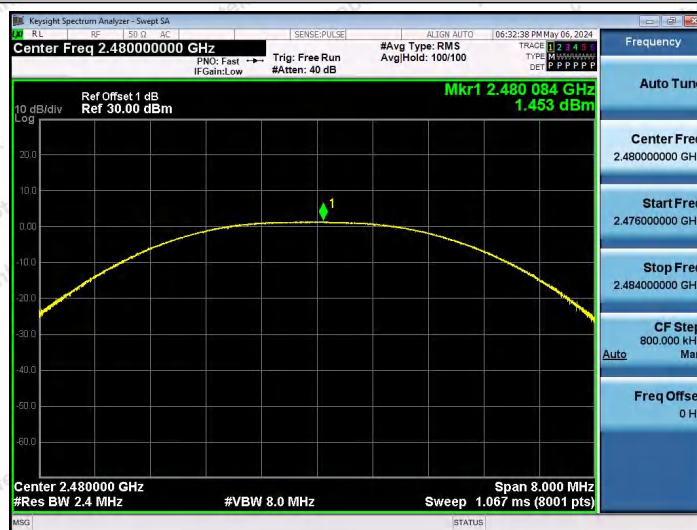




BLE\_2M-Ant1-2402-PASS



BLE\_2M-Ant1-2440-PASS



BLE\_2M-Ant1-2480-PASS

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## Appendix D: Maximum power spectral density

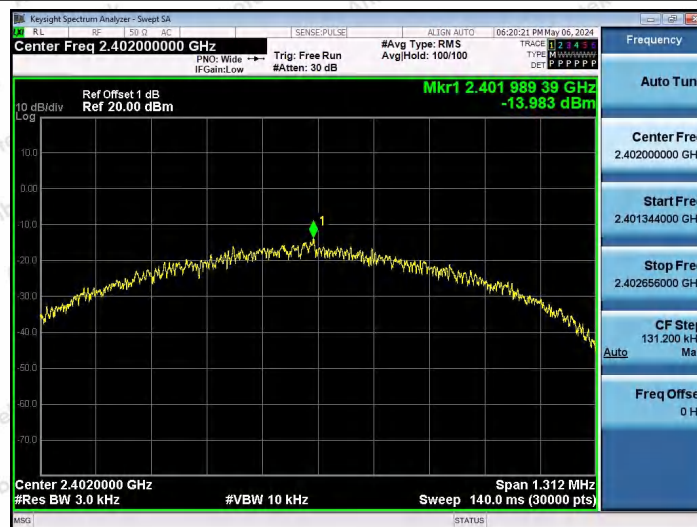
### Test Result

| TestMode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|----------------|------------------|-----------------|---------|
| BLE_1M   | Ant1    | 2402           | -13.98           | ≤8.00           | PASS    |
| BLE_1M   | Ant1    | 2440           | -14.13           | ≤8.00           | PASS    |
| BLE_1M   | Ant1    | 2480           | -14.05           | ≤8.00           | PASS    |
| BLE_2M   | Ant1    | 2402           | -15.93           | ≤8.00           | PASS    |
| BLE_2M   | Ant1    | 2440           | -16.25           | ≤8.00           | PASS    |
| BLE_2M   | Ant1    | 2480           | -15.86           | ≤8.00           | PASS    |





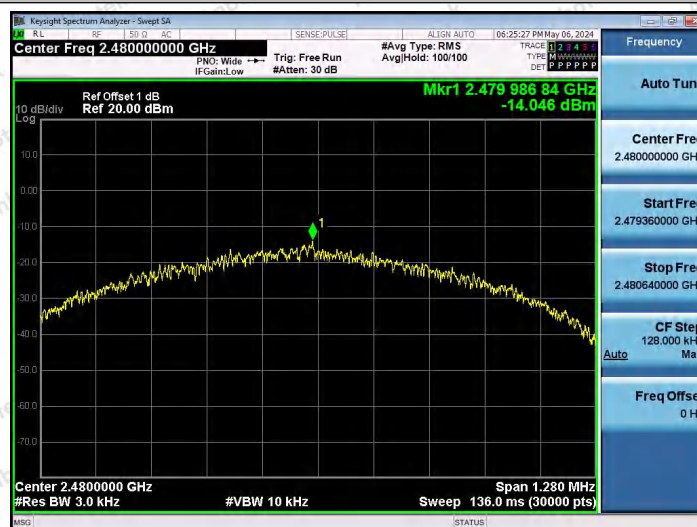
## Test Graphs



BLE\_1M-Ant1-2402-PASS



BLE\_1M-Ant1-2440-PASS



BLE\_1M-Ant1-2480-PASS

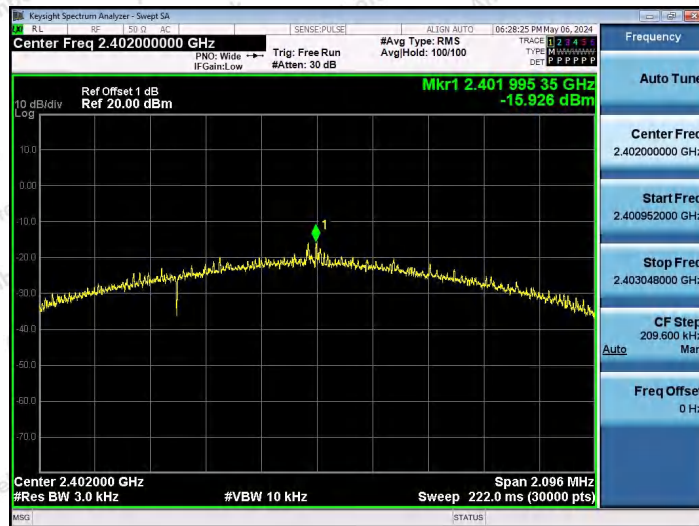
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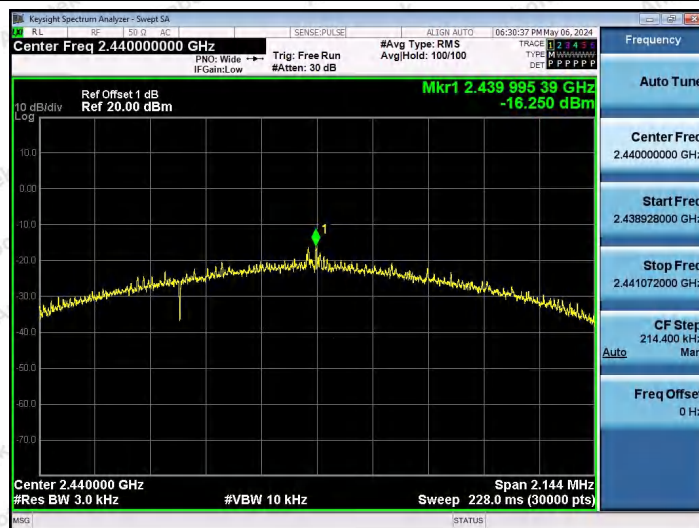


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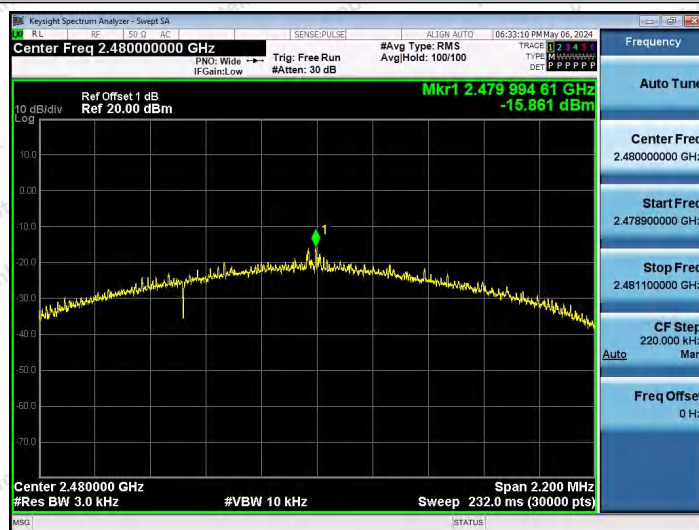




BLE\_2M-Ant1-2402-PASS



BLE\_2M-Ant1-2440-PASS



BLE\_2M-Ant1-2480-PASS

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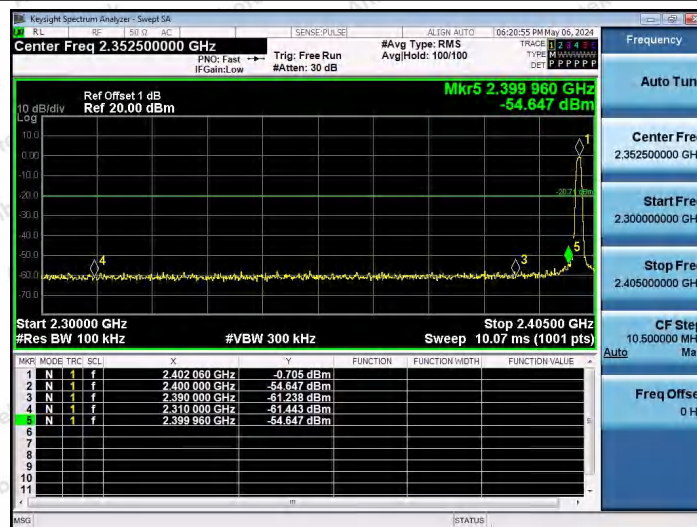
## Appendix E: Band edge measurements

### Test Result

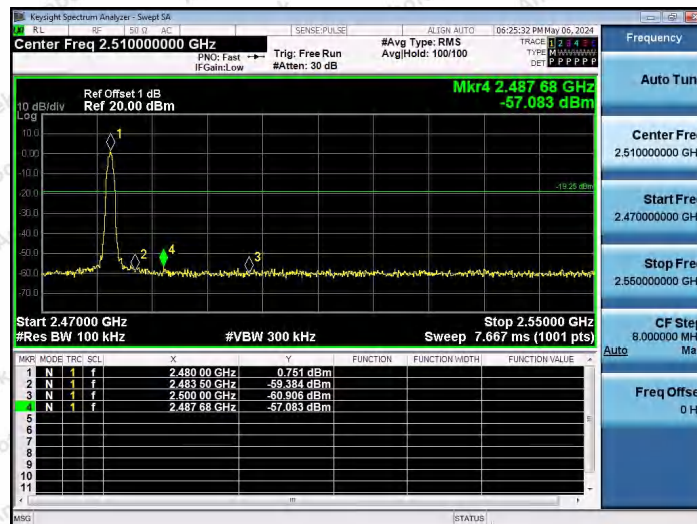
| TestMode | Antenna | ChName | Frequency<br>[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|--------|--------------------|---------------|-------------|------------|---------|
| BLE_1M   | Ant1    | Low    | 2402               | -0.71         | -54.65      | ≤-20.71    | PASS    |
| BLE_1M   | Ant1    | High   | 2480               | 0.75          | -57.08      | ≤-19.25    | PASS    |
| BLE_2M   | Ant1    | Low    | 2402               | 1.20          | -48.72      | ≤-18.8     | PASS    |
| BLE_2M   | Ant1    | High   | 2480               | 1.42          | -56.76      | ≤-18.58    | PASS    |



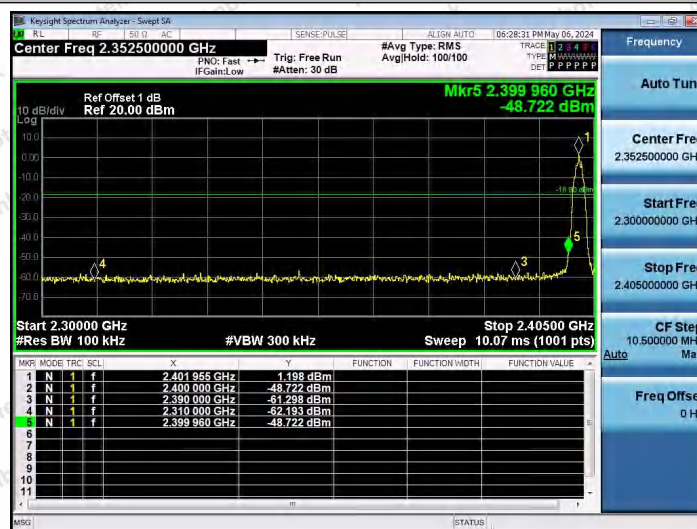
## Test Graphs



BLE\_1M-Ant1-2402-PASS



BLE\_1M-Ant1-2480-PASS



BLE\_2M-Ant1-2402-PASS

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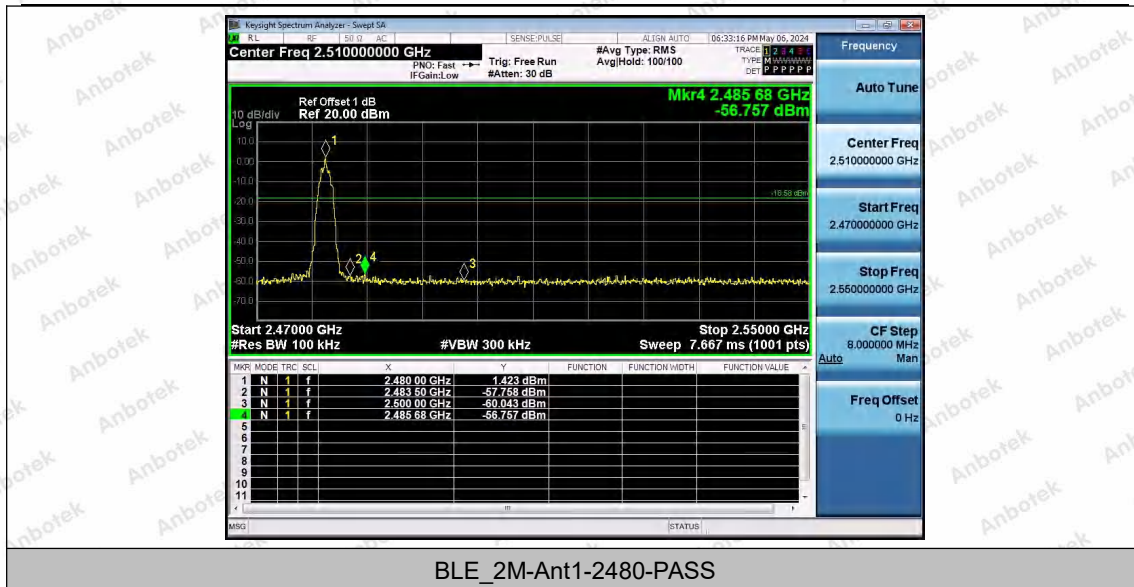
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## Appendix F: Conducted Spurious Emission

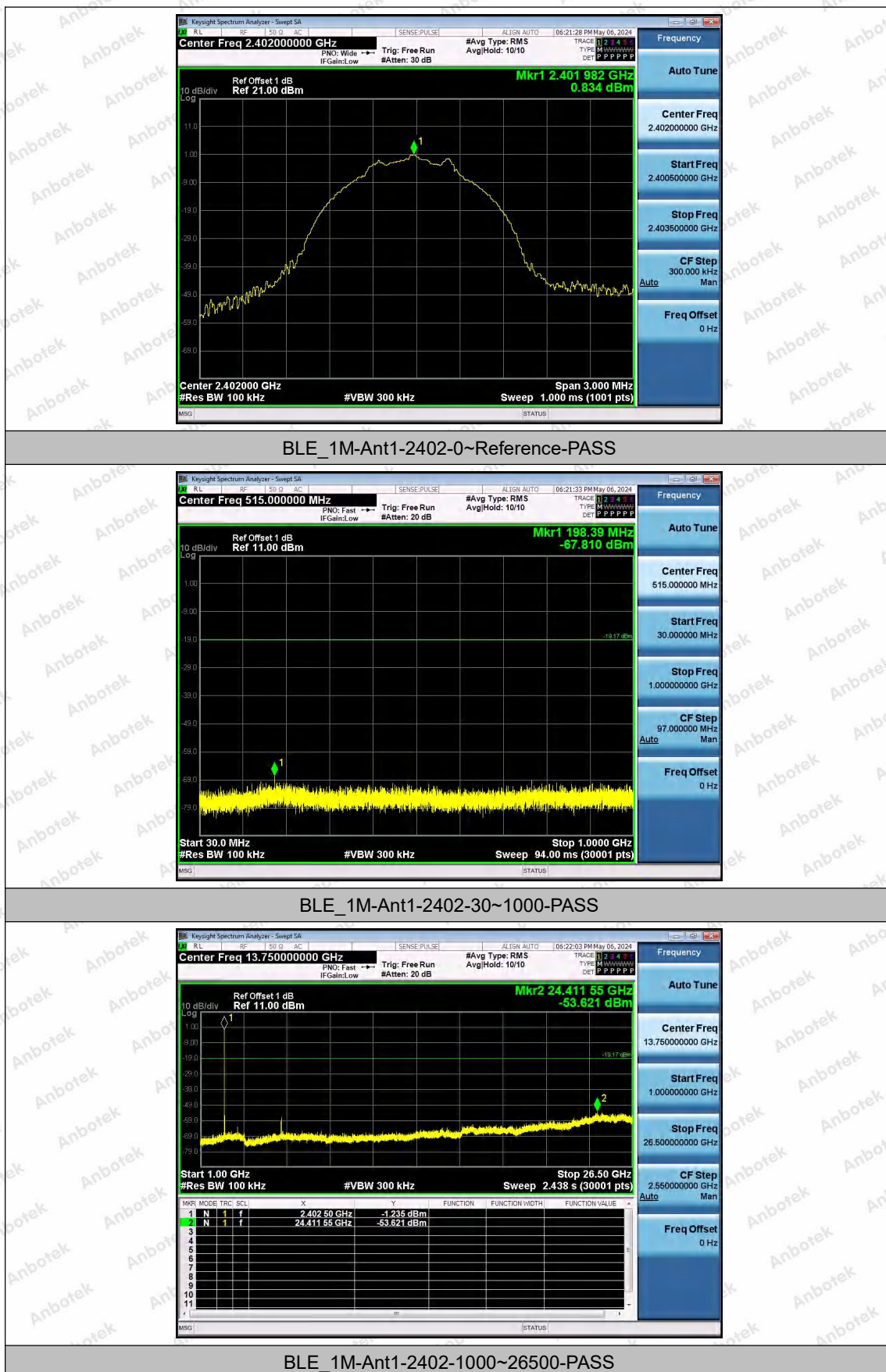
### Test Result

| TestMode | Antenna | Frequency<br>[MHz] | FreqRange<br>[MHz] | RefLevel<br>[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|--------------------|--------------------|-------------------|-------------|------------|---------|
| BLE_1M   | Ant1    | 2402               | 0~Reference        | 0.83              | 0.83        | ---        | PASS    |
| BLE_1M   | Ant1    | 2402               | 30~1000            | 0.83              | -67.81      | ≤-19.17    | PASS    |
| BLE_1M   | Ant1    | 2402               | 1000~26500         | 0.83              | -53.62      | ≤-19.17    | PASS    |
| BLE_1M   | Ant1    | 2440               | 0~Reference        | 0.69              | 0.69        | ---        | PASS    |
| BLE_1M   | Ant1    | 2440               | 30~1000            | 0.69              | -69.12      | ≤-19.31    | PASS    |
| BLE_1M   | Ant1    | 2440               | 1000~26500         | 0.69              | -53.88      | ≤-19.31    | PASS    |
| BLE_1M   | Ant1    | 2480               | 0~Reference        | 0.70              | 0.70        | ---        | PASS    |
| BLE_1M   | Ant1    | 2480               | 30~1000            | 0.70              | -68.51      | ≤-19.3     | PASS    |
| BLE_1M   | Ant1    | 2480               | 1000~26500         | 0.70              | -53.88      | ≤-19.3     | PASS    |
| BLE_2M   | Ant1    | 2402               | 0~Reference        | 1.17              | 1.17        | ---        | PASS    |
| BLE_2M   | Ant1    | 2402               | 30~1000            | 1.17              | -69.39      | ≤-18.83    | PASS    |
| BLE_2M   | Ant1    | 2402               | 1000~26500         | 1.17              | -53.96      | ≤-18.83    | PASS    |
| BLE_2M   | Ant1    | 2440               | 0~Reference        | 0.93              | 0.93        | ---        | PASS    |
| BLE_2M   | Ant1    | 2440               | 30~1000            | 0.93              | -69.48      | ≤-19.07    | PASS    |
| BLE_2M   | Ant1    | 2440               | 1000~26500         | 0.93              | -54.01      | ≤-19.07    | PASS    |
| BLE_2M   | Ant1    | 2480               | 0~Reference        | 1.27              | 1.27        | ---        | PASS    |
| BLE_2M   | Ant1    | 2480               | 30~1000            | 1.27              | -69.36      | ≤-18.73    | PASS    |
| BLE_2M   | Ant1    | 2480               | 1000~26500         | 1.27              | -53.10      | ≤-18.73    | PASS    |





## Test Graphs



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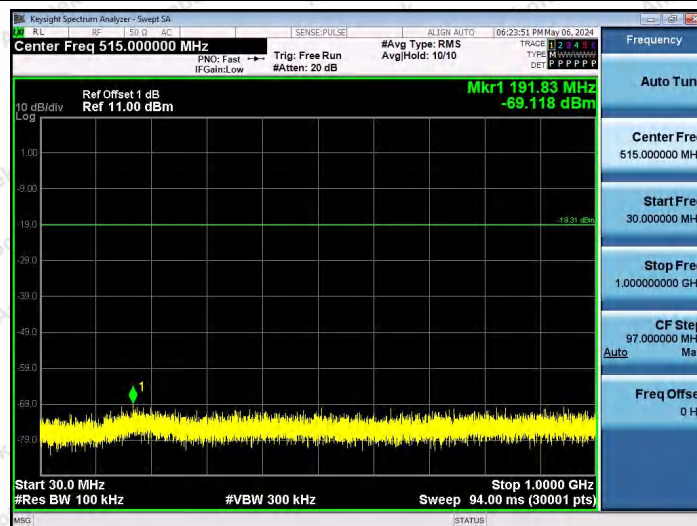


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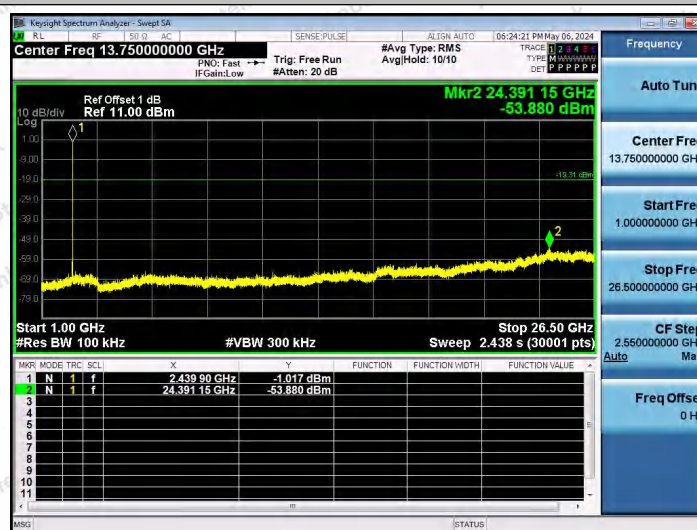




BLE\_1M-Ant1-2440-0~Reference-PASS



BLE\_1M-Ant1-2440-30~1000-PASS



BLE\_1M-Ant1-2440-1000~26500-PASS

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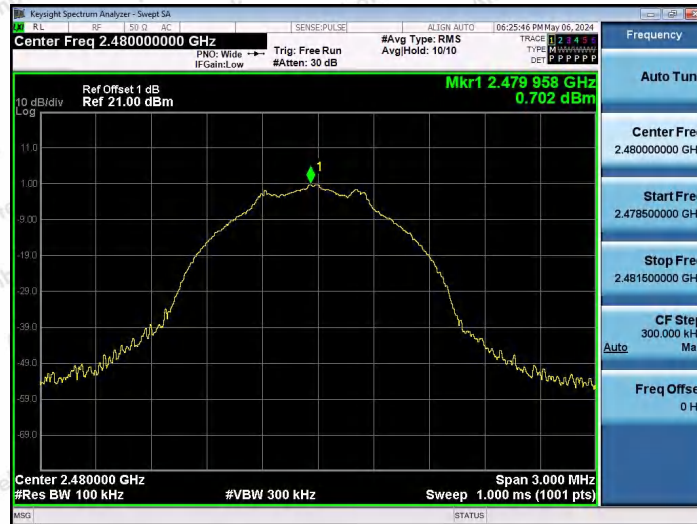
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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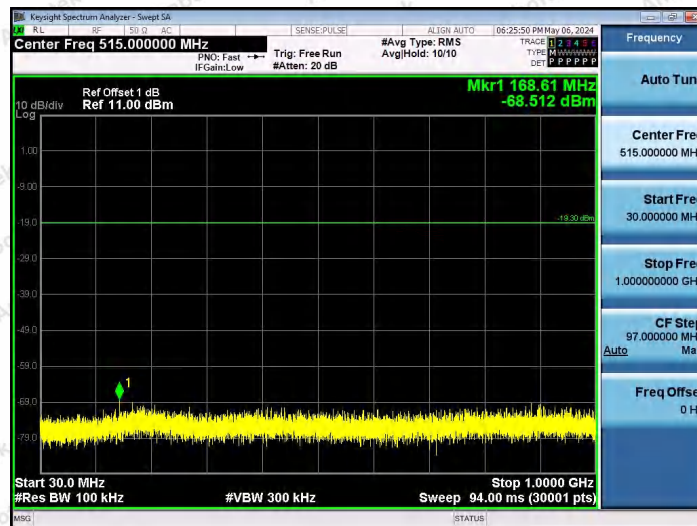
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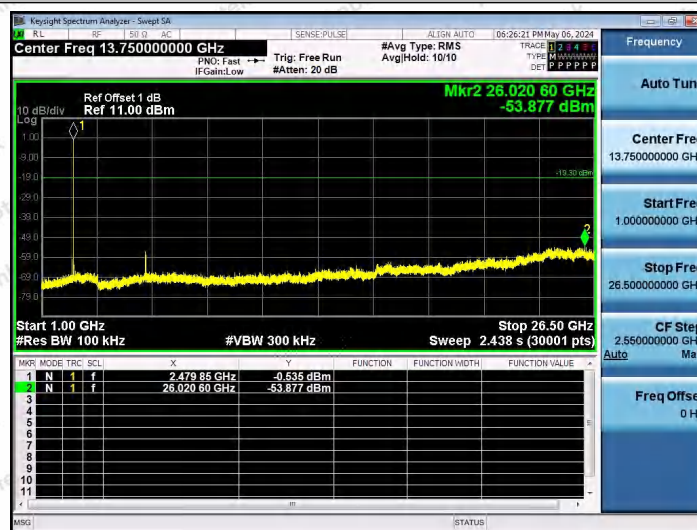




BLE\_1M-Ant1-2480-0~Reference-PASS



BLE\_1M-Ant1-2480-30~1000-PASS



BLE\_1M-Ant1-2480-1000~26500-PASS

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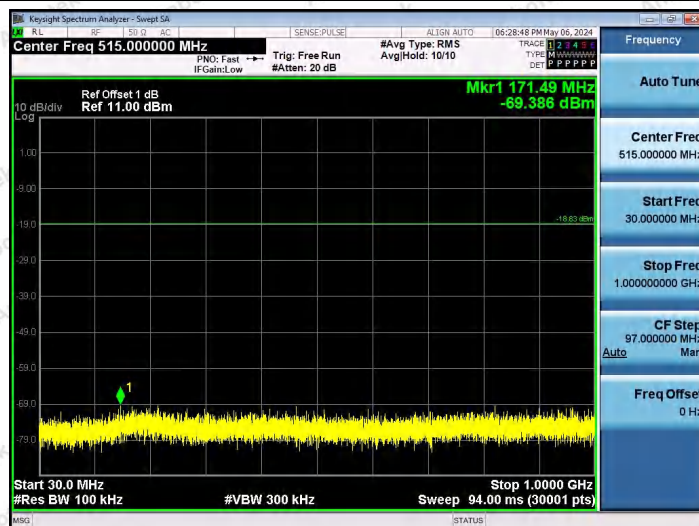


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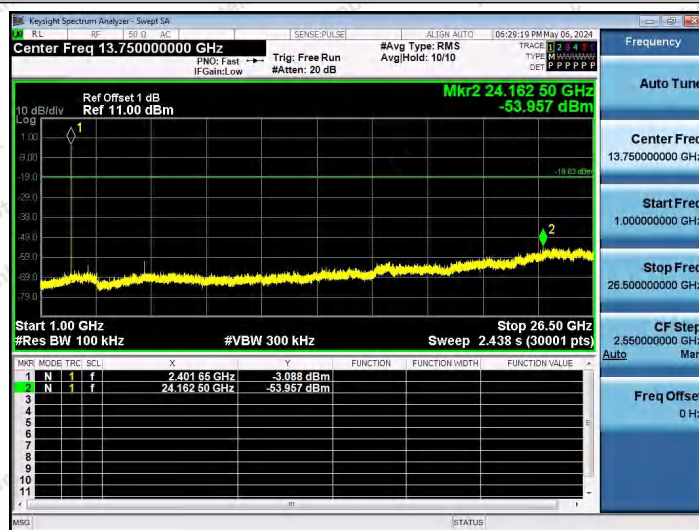




BLE\_2M-Ant1-2402-0~Reference-PASS



BLE\_2M-Ant1-2402-30~1000-PASS



BLE\_2M-Ant1-2402-1000~26500-PASS

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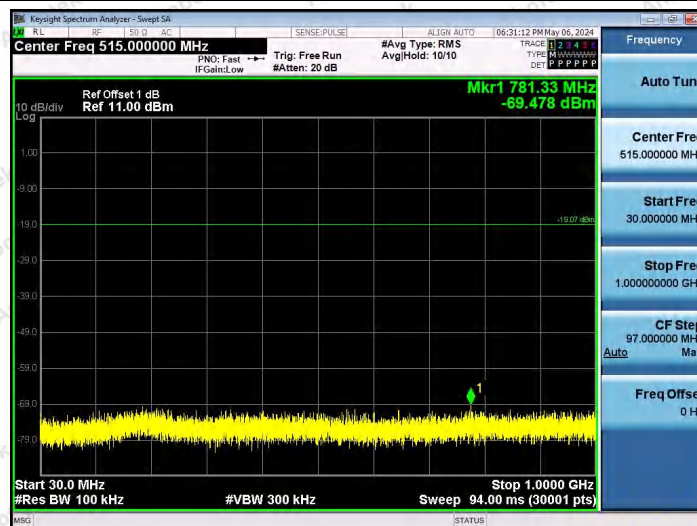
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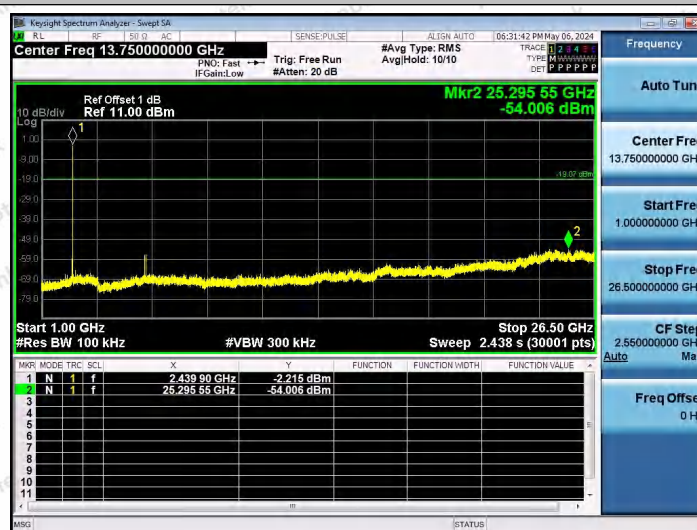




BLE\_2M-Ant1-2440-0~Reference-PASS



BLE\_2M-Ant1-2440-30~1000-PASS



BLE\_2M-Ant1-2440-1000~26500-PASS

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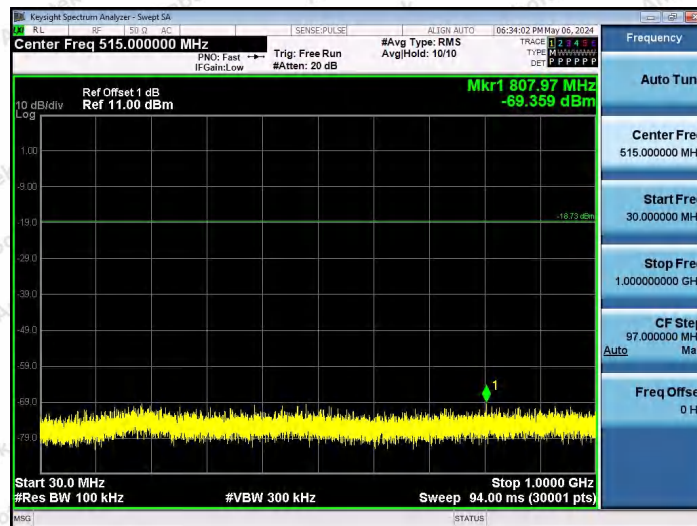


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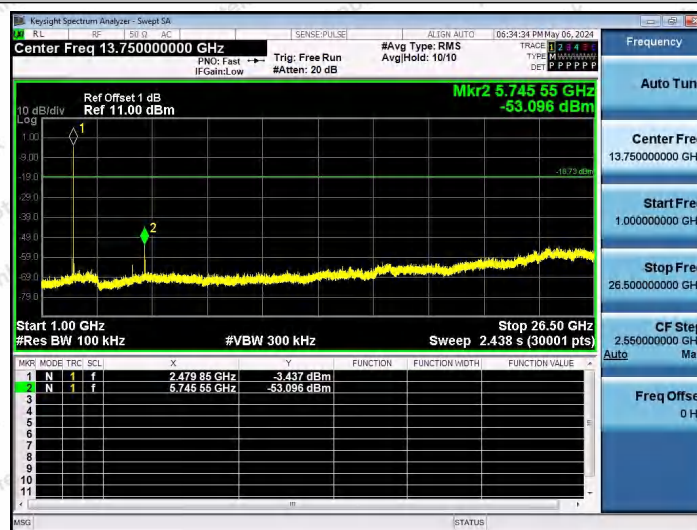




BLE\_2M-Ant1-2480-0~Reference-PASS



BLE\_2M-Ant1-2480-30~1000-PASS



BLE\_2M-Ant1-2480-1000~26500-PASS

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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           | 2.10            | 2.50           | 84.00             | 0.76                     |
| BLE_1M   | Ant1    | 2440           | 2.10            | 2.50           | 84.00             | 0.76                     |
| BLE_1M   | Ant1    | 2480           | 2.10            | 2.50           | 84.00             | 0.76                     |
| BLE_2M   | Ant1    | 2402           | 1.06            | 1.87           | 56.68             | 2.47                     |
| BLE_2M   | Ant1    | 2440           | 1.06            | 1.87           | 56.68             | 2.47                     |
| BLE_2M   | Ant1    | 2480           | 1.06            | 1.87           | 56.68             | 2.47                     |

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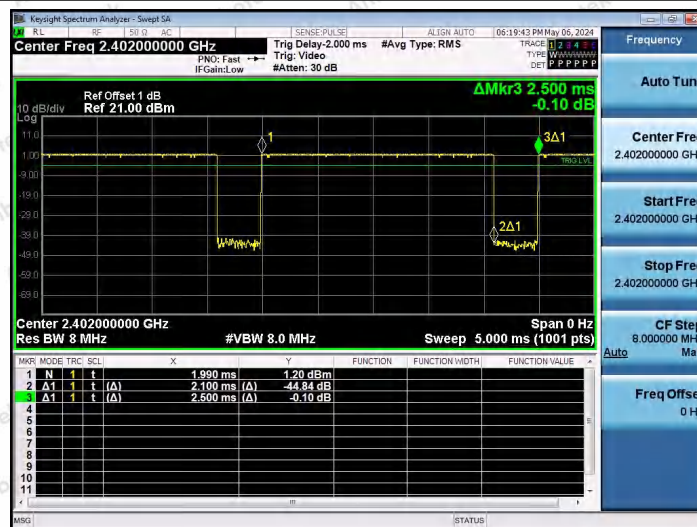
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community,  
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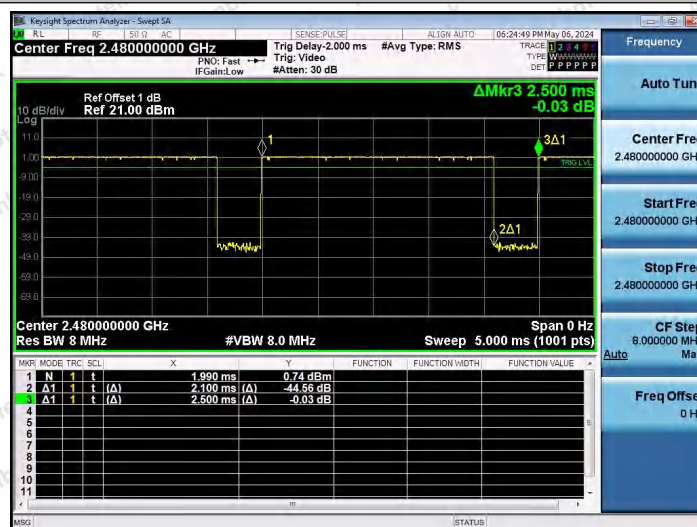
## Test Graphs



NTNV-BLE\_1M-Ant1-2402



NTNV-BLE\_1M-Ant1-2440



NTNV-BLE\_1M-Ant1-2480

## Shenzhen Anbotek Compliance Laboratory Limited

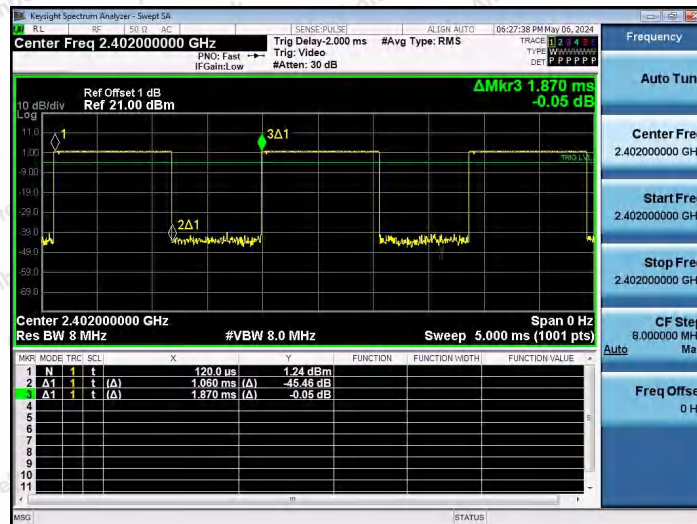
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



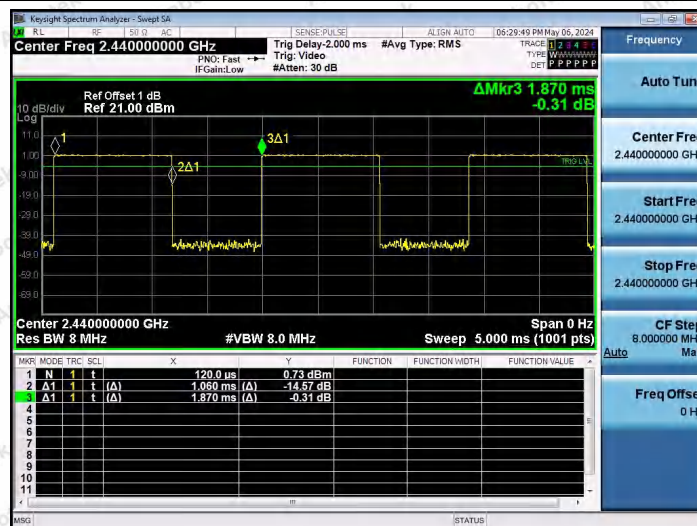
Hotline  
400-003-0500  
www.anbotek.com.cn



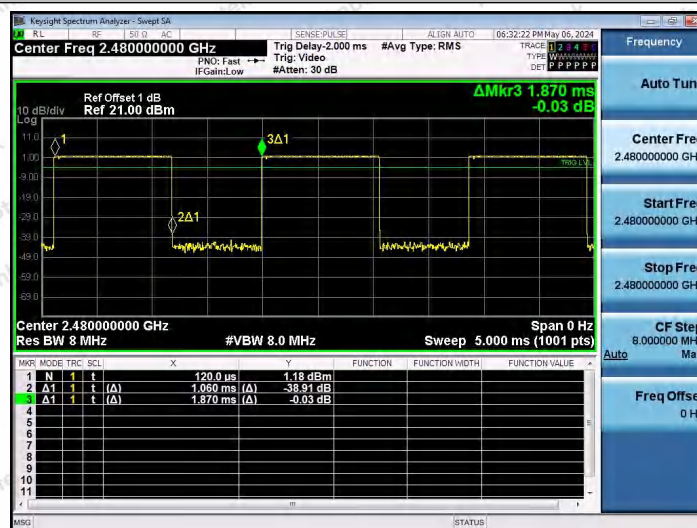




NTNV-BLE\_2M-Ant1-2402



NTNV-BLE\_2M-Ant1-2440



NTNV-BLE\_2M-Ant1-2480

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