

Appendix Test Data

|                  |                 |                    |             |
|------------------|-----------------|--------------------|-------------|
| Report No.:      | 18360WC40005001 | Test Sample No.:   | 1-2-2       |
| Start Test Date: | 2024.04.17      | Finish Test Date:  | 2024.05.24  |
| Test Engineer:   | Joker Huang     | Auditor:           | Justin Feng |
| Temperature:     | 25.5℃           | Relative Humidity: | 47%         |
| 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           | 0.508        | 2401.688 | 2402.196 | 0.5        | PASS    |
| BLE_1M   | Ant1    | 2440           | 0.508        | 2439.688 | 2440.196 | 0.5        | PASS    |
| BLE_1M   | Ant1    | 2480           | 0.508        | 2479.688 | 2480.196 | 0.5        | PASS    |
| BLE_2M   | Ant1    | 2402           | 0.812        | 2401.436 | 2402.248 | 0.5        | PASS    |
| BLE_2M   | Ant1    | 2440           | 0.864        | 2439.428 | 2440.292 | 0.5        | PASS    |
| BLE_2M   | Ant1    | 2480           | 0.812        | 2479.452 | 2480.264 | 0.5        | PASS    |



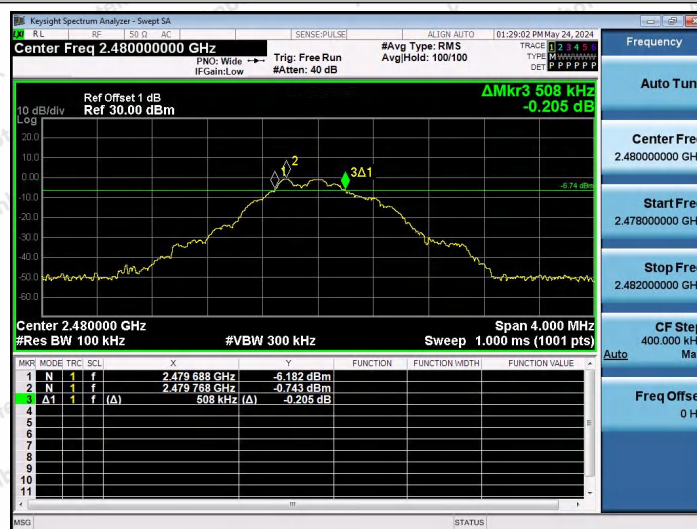
## Test Graphs



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           | 1.0437       | 2401.4994 | 2402.5431 | ---        | ---     |
| BLE_1M   | Ant1    | 2440           | 1.0394       | 2439.5018 | 2440.5412 | ---        | ---     |
| BLE_1M   | Ant1    | 2480           | 1.0439       | 2479.5006 | 2480.5445 | ---        | ---     |
| BLE_2M   | Ant1    | 2402           | 2.0445       | 2401.0113 | 2403.0558 | ---        | ---     |
| BLE_2M   | Ant1    | 2440           | 2.0575       | 2439.0012 | 2441.0587 | ---        | ---     |
| BLE_2M   | Ant1    | 2480           | 2.0542       | 2478.9969 | 2481.0511 | ---        | ---     |





## 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           | -0.05                     | ≤30                  | PASS    |
| BLE_1M   | Ant1    | 2440           | -0.18                     | ≤30                  | PASS    |
| BLE_1M   | Ant1    | 2480           | -0.52                     | ≤30                  | PASS    |
| BLE_2M   | Ant1    | 2402           | -0.11                     | ≤30                  | PASS    |
| BLE_2M   | Ant1    | 2440           | -0.25                     | ≤30                  | PASS    |
| BLE_2M   | Ant1    | 2480           | -0.56                     | ≤30                  | PASS    |

### Test Graphs Peak



BLE\_1M-Ant1-2402-PASS



BLE\_1M-Ant1-2440-PASS

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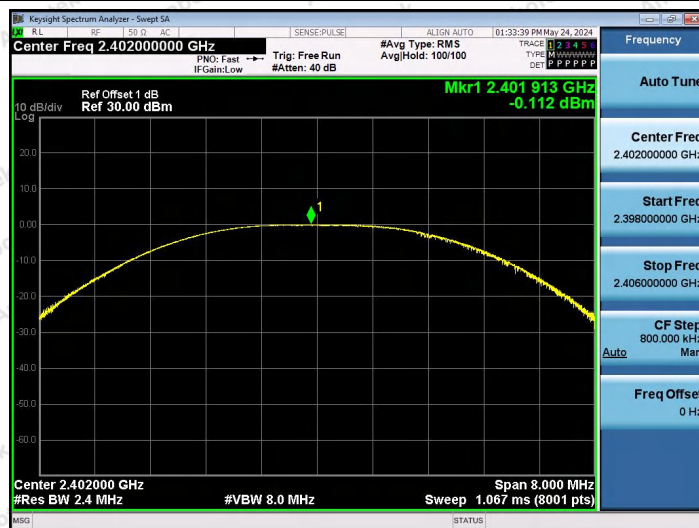


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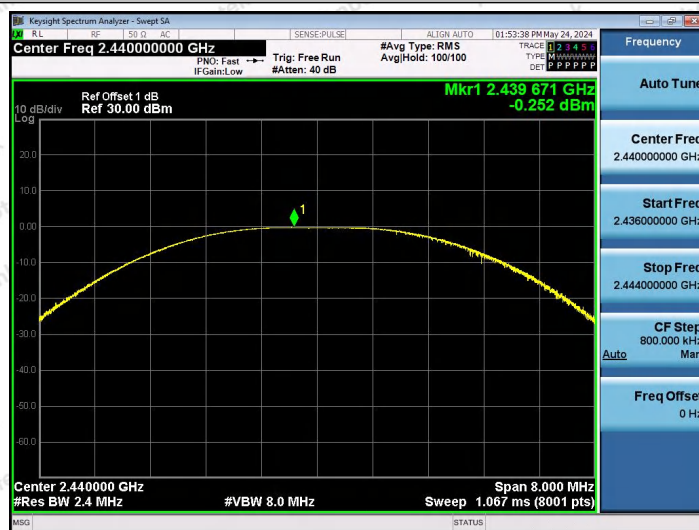




BLE\_1M-Ant1-2480-PASS



BLE\_2M-Ant1-2402-PASS



BLE\_2M-Ant1-2440-PASS

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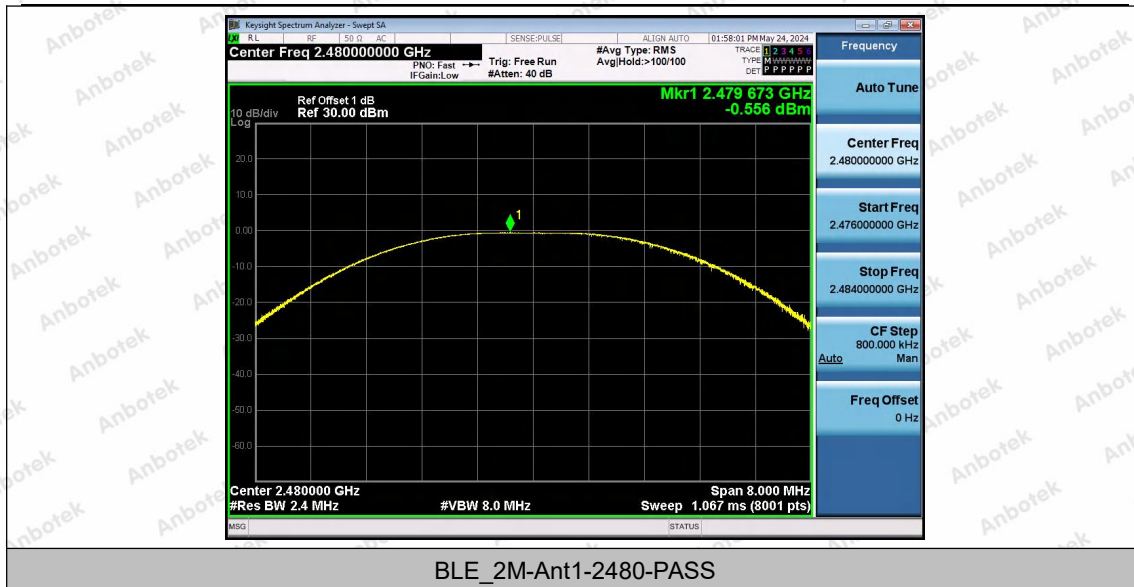
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## Appendix D: Maximum power spectral density

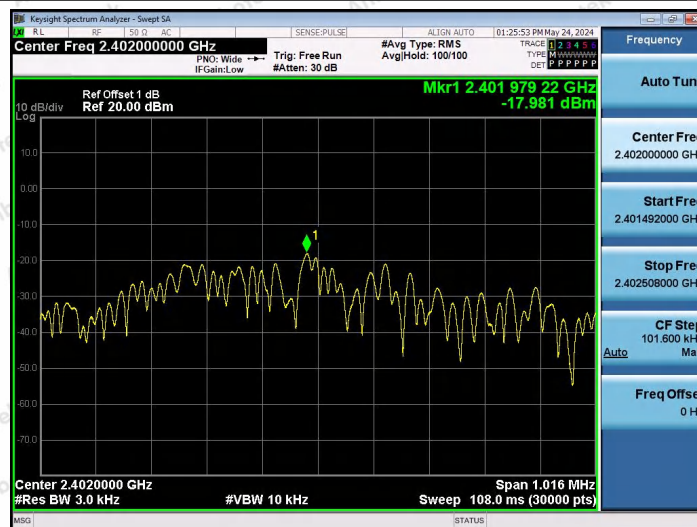
### Test Result

| TestMode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|----------------|------------------|-----------------|---------|
| BLE_1M   | Ant1    | 2402           | -17.98           | ≤8.00           | PASS    |
| BLE_1M   | Ant1    | 2440           | -17.76           | ≤8.00           | PASS    |
| BLE_1M   | Ant1    | 2480           | -18.21           | ≤8.00           | PASS    |
| BLE_2M   | Ant1    | 2402           | -20.53           | ≤8.00           | PASS    |
| BLE_2M   | Ant1    | 2440           | -20.58           | ≤8.00           | PASS    |
| BLE_2M   | Ant1    | 2480           | -20.96           | ≤8.00           | PASS    |

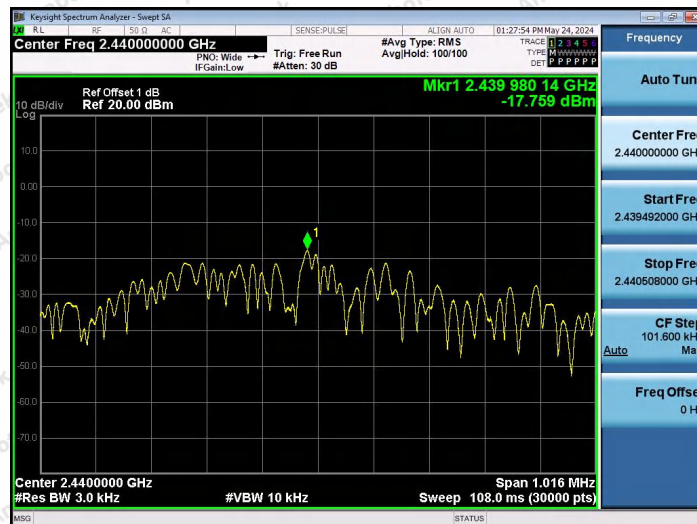




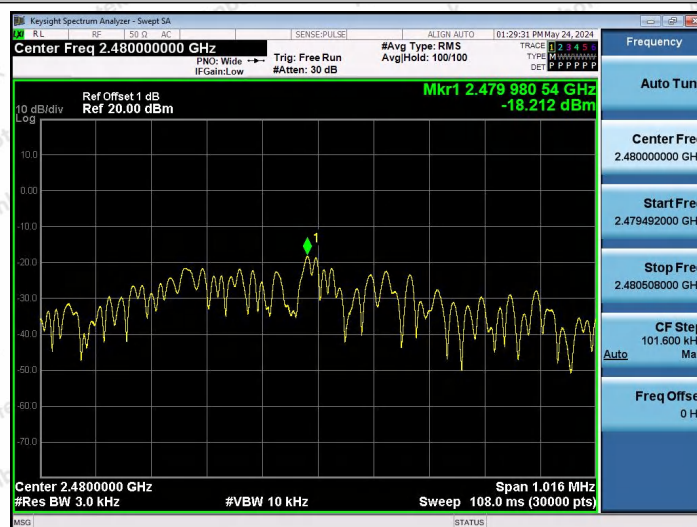
## Test Graphs



BLE\_1M-Ant1-2402-PASS



BLE\_1M-Ant1-2440-PASS



BLE\_1M-Ant1-2480-PASS

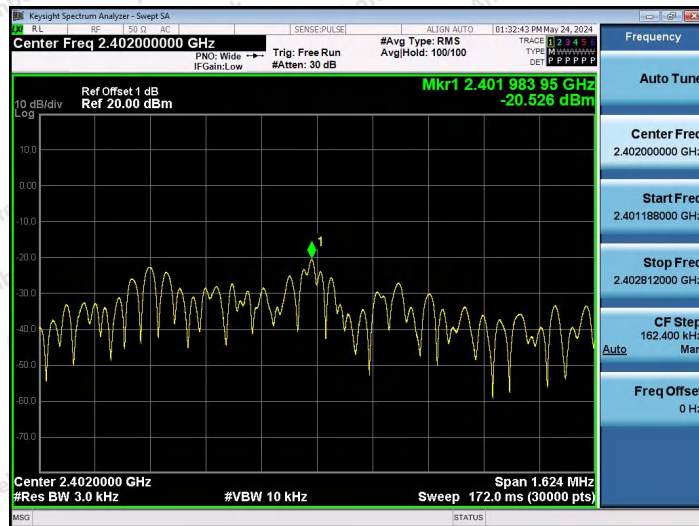
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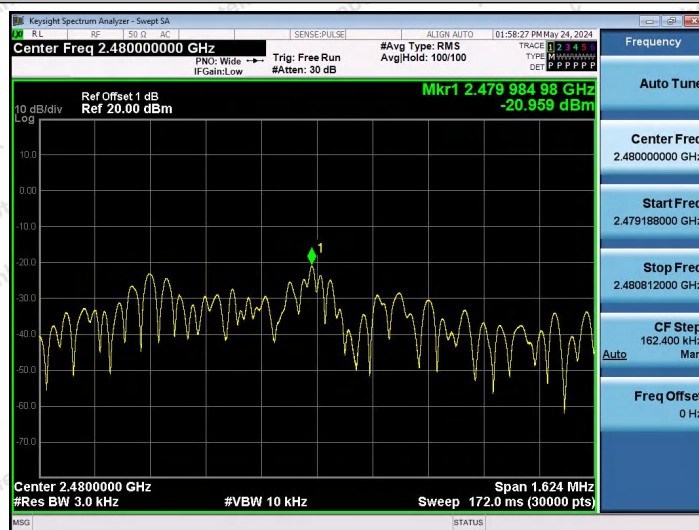




BLE\_2M-Ant1-2402-PASS



BLE\_2M-Ant1-2440-PASS



BLE\_2M-Ant1-2480-PASS

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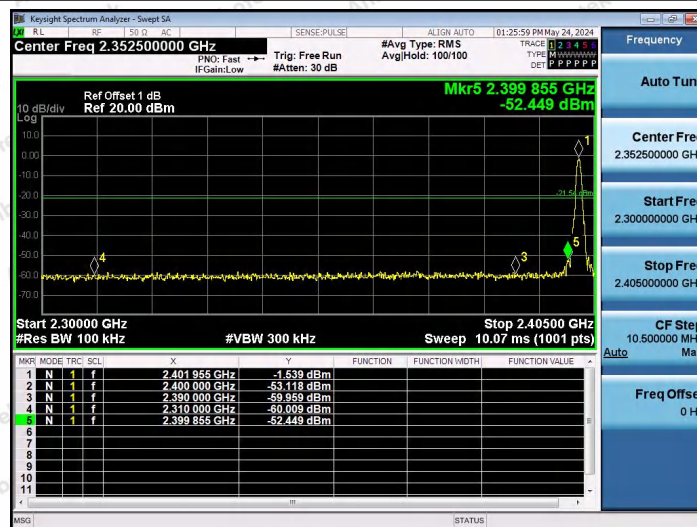
## Appendix E: Band edge measurements

### Test Result

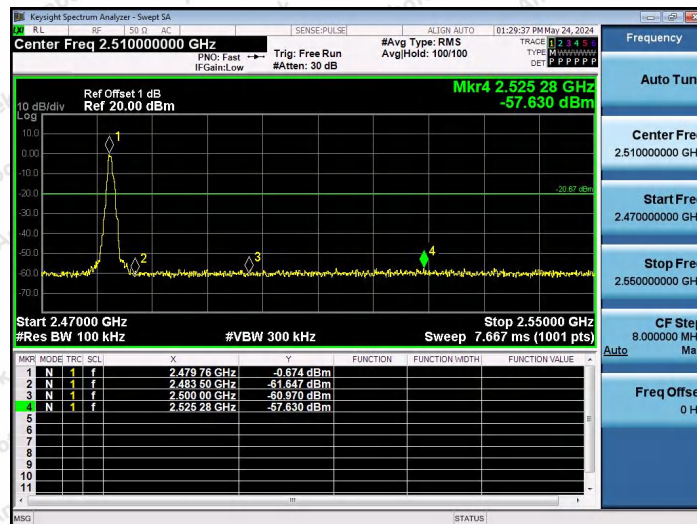
| TestMode | Antenna | Channel | Frequency[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|----------------|---------------|-------------|------------|---------|
| BLE_1M   | Ant1    | Low     | 2402           | -1.54         | -52.45      | ≤-21.54    | PASS    |
| BLE_1M   | Ant1    | High    | 2480           | -0.67         | -57.63      | ≤-20.67    | PASS    |
| BLE_2M   | Ant1    | Low     | 2402           | -0.22         | -34.62      | ≤-20.22    | PASS    |
| BLE_2M   | Ant1    | High    | 2480           | -1.83         | -50.93      | ≤-21.83    | PASS    |



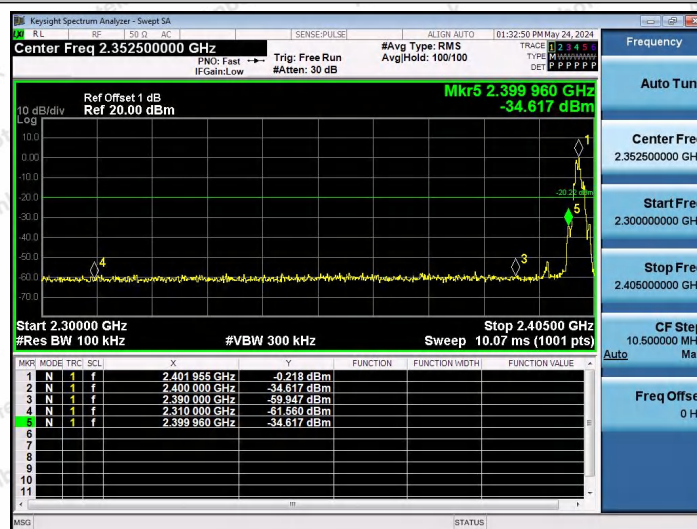
## Test Graphs



BLE\_1M-Ant1-2402-PASS



BLE\_1M-Ant1-2480-PASS



BLE\_2M-Ant1-2402-PASS

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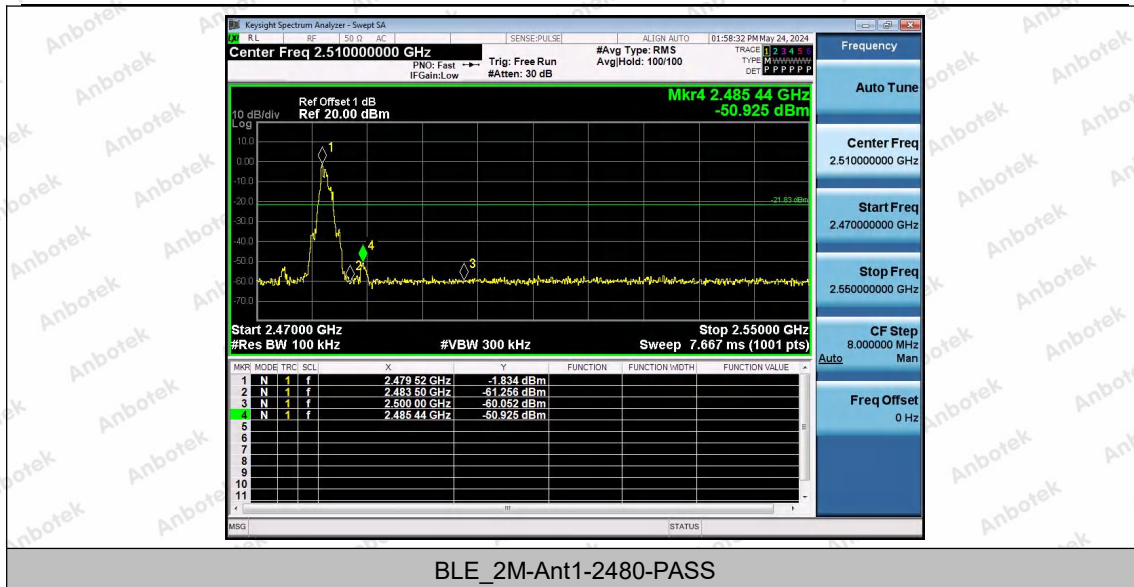
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## Appendix F: Conducted Spurious Emission

### Test Result

| TestMode | Antenna | Frequency[MHz] | FreqRange [MHz] | RefLevel [dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|----------------|-----------------|----------------|-------------|------------|---------|
| BLE_1M   | Ant1    | 2402           | 0~Reference     | -0.24          | -0.24       | ---        | PASS    |
| BLE_1M   | Ant1    | 2402           | 30~1000         | -0.24          | -67.98      | ≤-20.24    | PASS    |
| BLE_1M   | Ant1    | 2402           | 1000~26500      | -0.24          | -42.25      | ≤-20.24    | PASS    |
| BLE_1M   | Ant1    | 2440           | 0~Reference     | -0.47          | -0.47       | ---        | PASS    |
| BLE_1M   | Ant1    | 2440           | 30~1000         | -0.47          | -69.32      | ≤-20.47    | PASS    |
| BLE_1M   | Ant1    | 2440           | 1000~26500      | -0.47          | -33.33      | ≤-20.47    | PASS    |
| BLE_1M   | Ant1    | 2480           | 0~Reference     | -0.72          | -0.72       | ---        | PASS    |
| BLE_1M   | Ant1    | 2480           | 30~1000         | -0.72          | -68.48      | ≤-20.72    | PASS    |
| BLE_1M   | Ant1    | 2480           | 1000~26500      | -0.72          | -35.24      | ≤-20.72    | PASS    |
| BLE_2M   | Ant1    | 2402           | 0~Reference     | -0.73          | -0.73       | ---        | PASS    |
| BLE_2M   | Ant1    | 2402           | 30~1000         | -0.73          | -69.08      | ≤-20.73    | PASS    |
| BLE_2M   | Ant1    | 2402           | 1000~26500      | -0.73          | -35.69      | ≤-20.73    | PASS    |
| BLE_2M   | Ant1    | 2440           | 0~Reference     | -1.02          | -1.02       | ---        | PASS    |
| BLE_2M   | Ant1    | 2440           | 30~1000         | -1.02          | -68.64      | ≤-21.02    | PASS    |
| BLE_2M   | Ant1    | 2440           | 1000~26500      | -1.02          | -33.18      | ≤-21.02    | PASS    |
| BLE_2M   | Ant1    | 2480           | 0~Reference     | -1.20          | -1.20       | ---        | PASS    |
| BLE_2M   | Ant1    | 2480           | 30~1000         | -1.20          | -68.1       | ≤-21.2     | PASS    |
| BLE_2M   | Ant1    | 2480           | 1000~26500      | -1.20          | -44.62      | ≤-21.2     | PASS    |

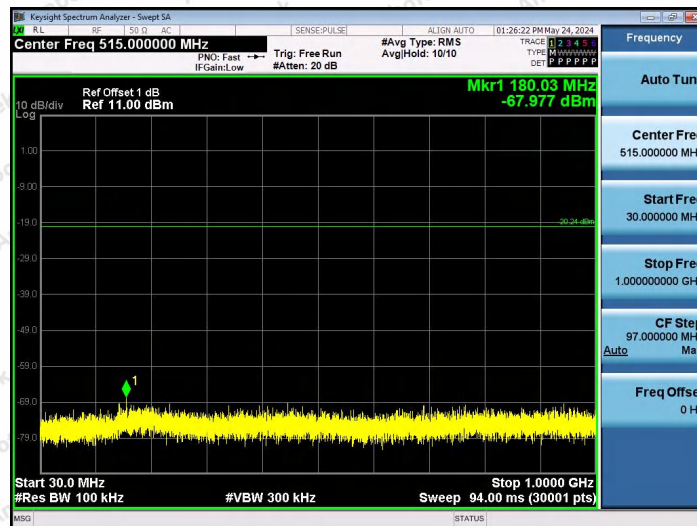




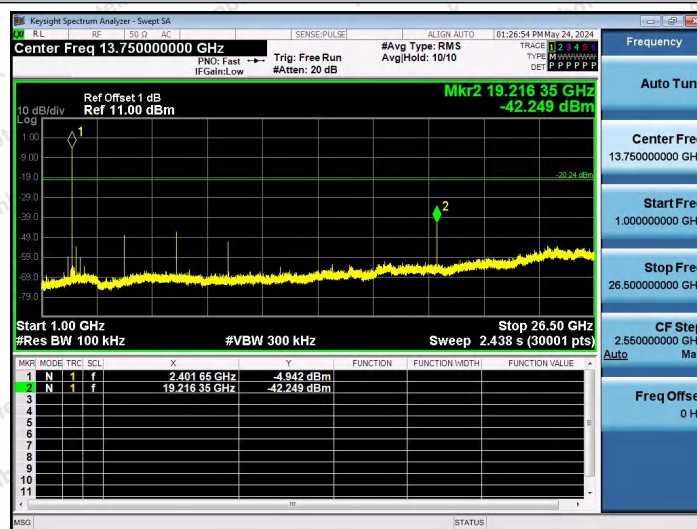
## Test Graphs



BLE\_1M-Ant1-2402-0~Reference-PASS



BLE\_1M-Ant1-2402-30~1000-PASS



BLE\_1M-Ant1-2402-1000~26500-PASS

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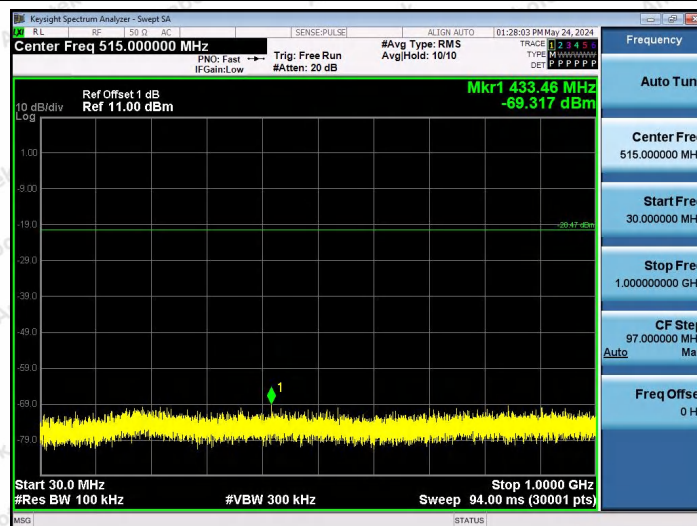


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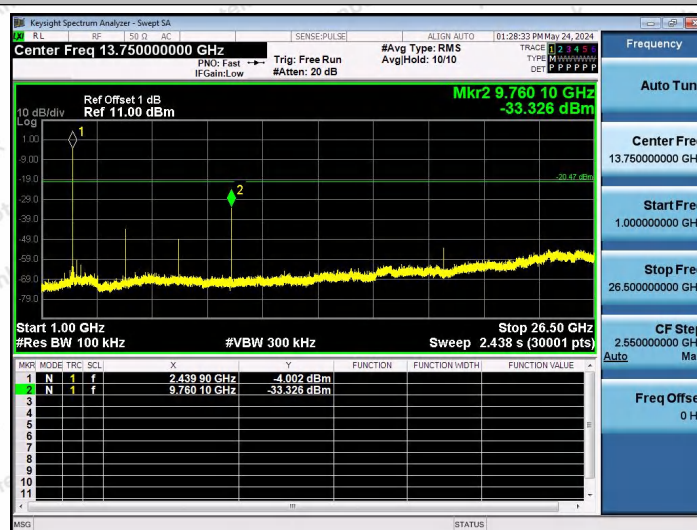




BLE\_1M-Ant1-2440-0~Reference-PASS



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



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

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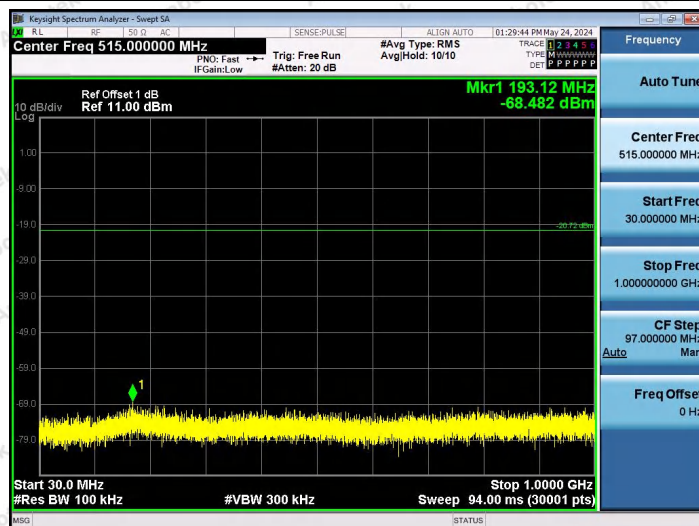
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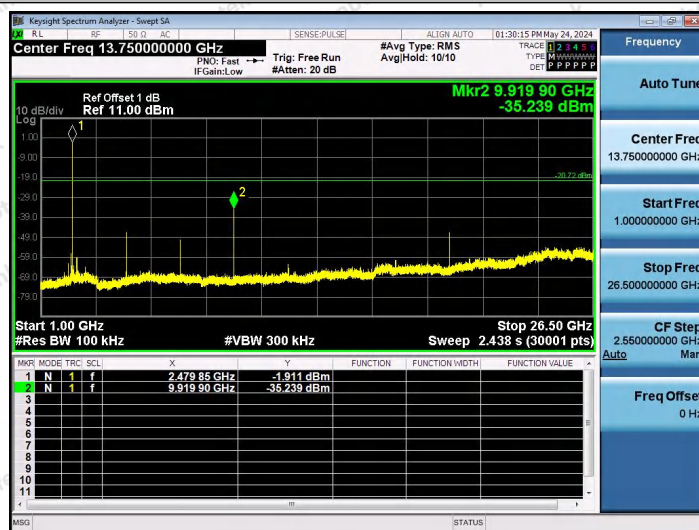




BLE\_1M-Ant1-2480-0~Reference-PASS



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



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

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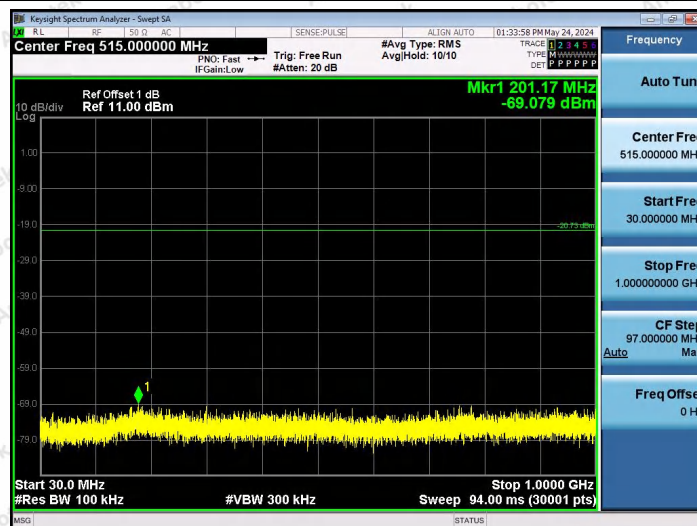


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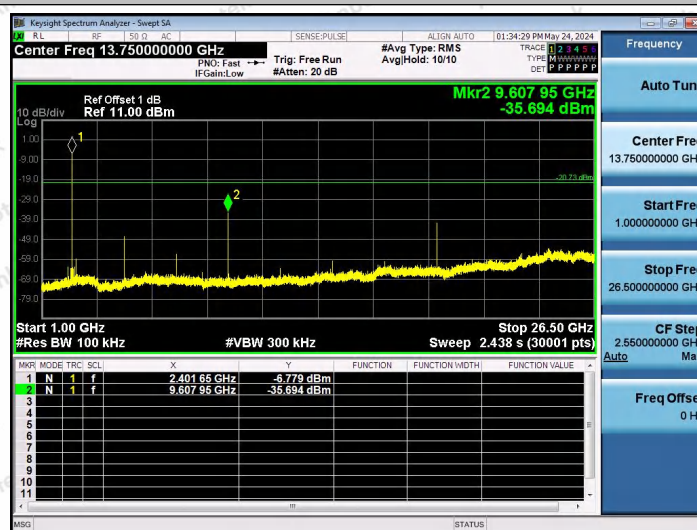




BLE\_2M-Ant1-2402-0~Reference-PASS



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



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

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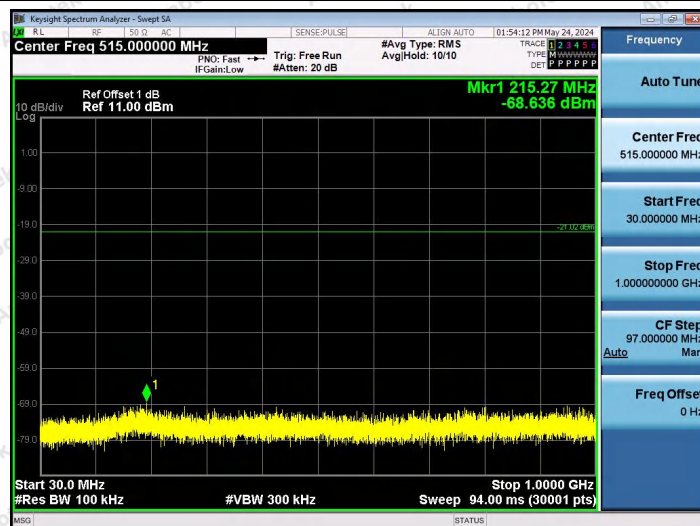
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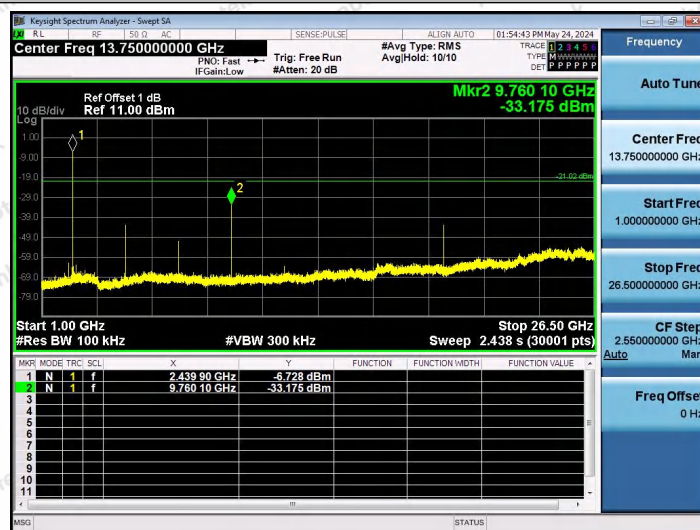




BLE\_2M-Ant1-2440-0~Reference-PASS



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



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

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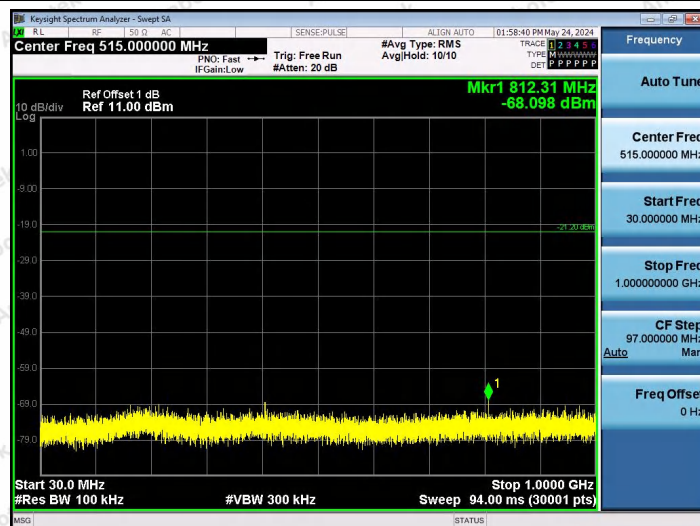


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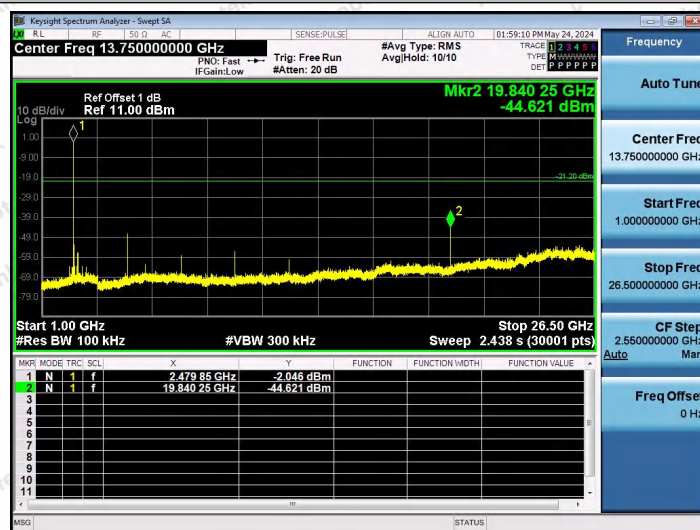




BLE\_2M-Ant1-2480-0~Reference-PASS



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           | 0.09            | 0.62           | 14.52             | 8.38                     |
| BLE_1M   | Ant1    | 2440           | 0.09            | 0.62           | 14.52             | 8.38                     |
| BLE_1M   | Ant1    | 2480           | 0.09            | 0.62           | 14.52             | 8.38                     |
| BLE_2M   | Ant1    | 2402           | 0.06            | 0.63           | 9.52              | 10.21                    |
| BLE_2M   | Ant1    | 2440           | 0.06            | 0.62           | 9.68              | 10.14                    |
| BLE_2M   | Ant1    | 2480           | 0.06            | 0.63           | 9.52              | 10.21                    |

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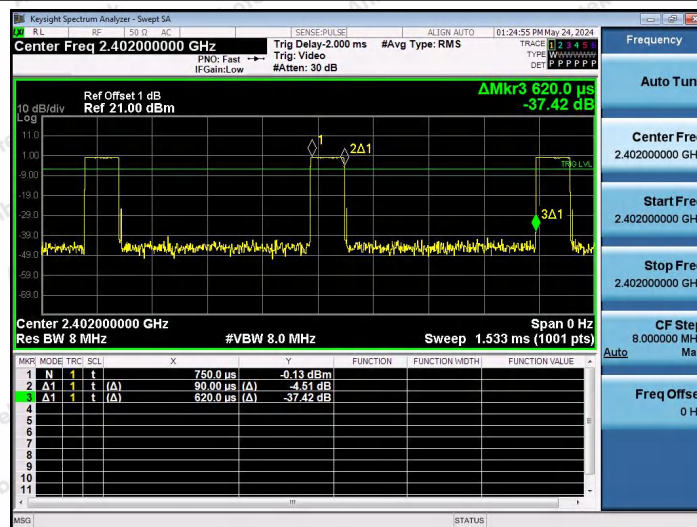
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community,  
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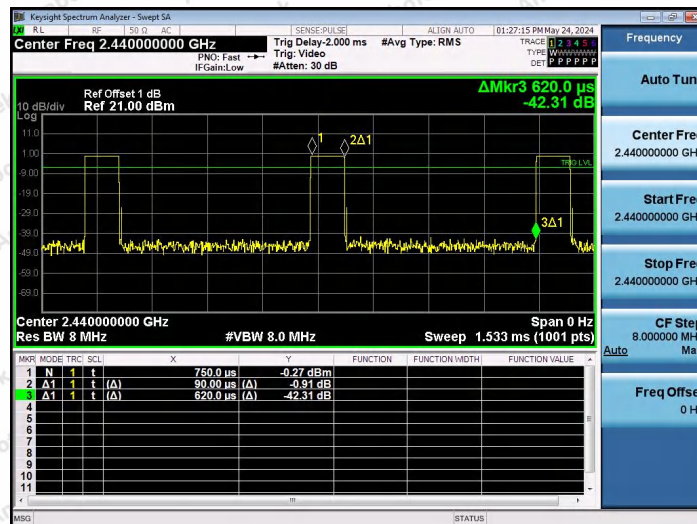
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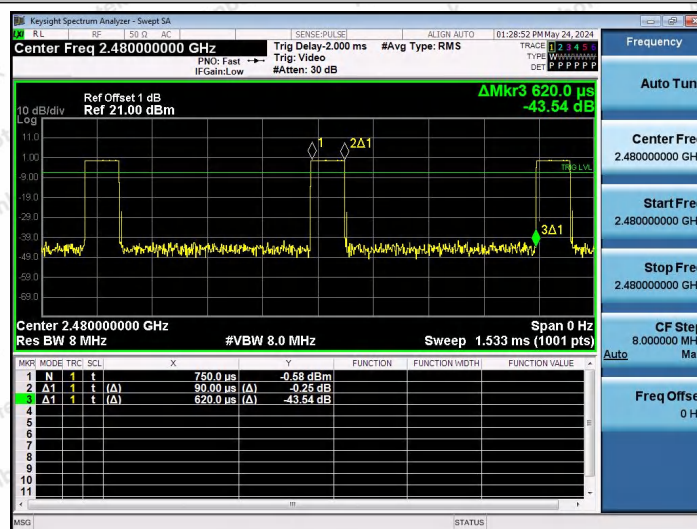
## Test Graphs



NTNV-BLE\_1M-Ant1-2402



NTNV-BLE\_1M-Ant1-2440



NTNV-BLE\_1M-Ant1-2480

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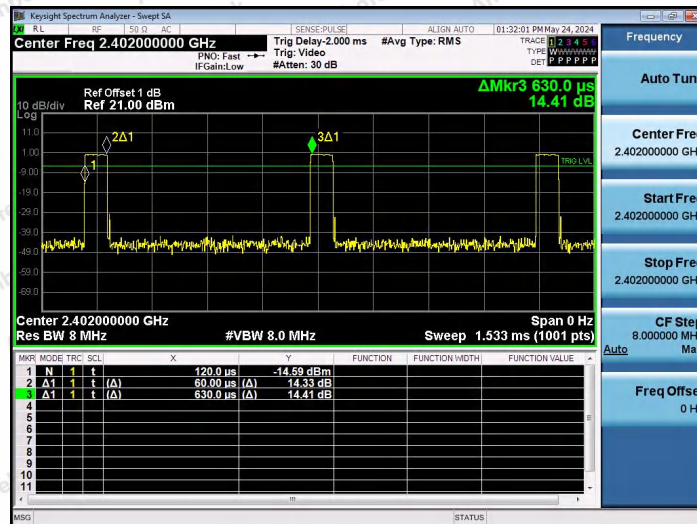
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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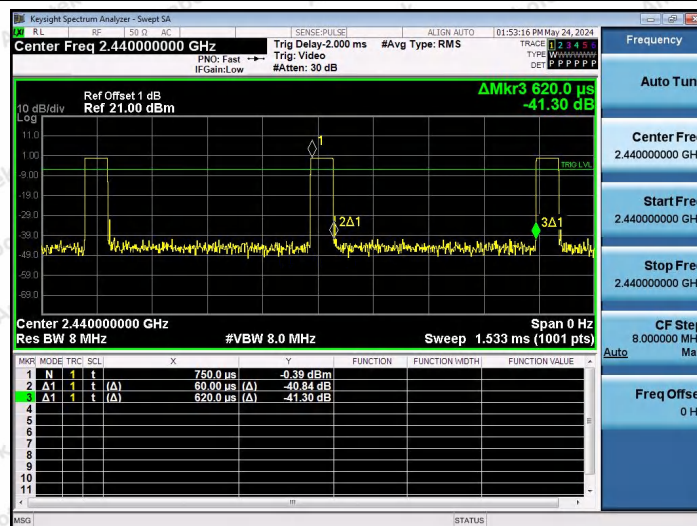
Hotline  
400-003-0500  
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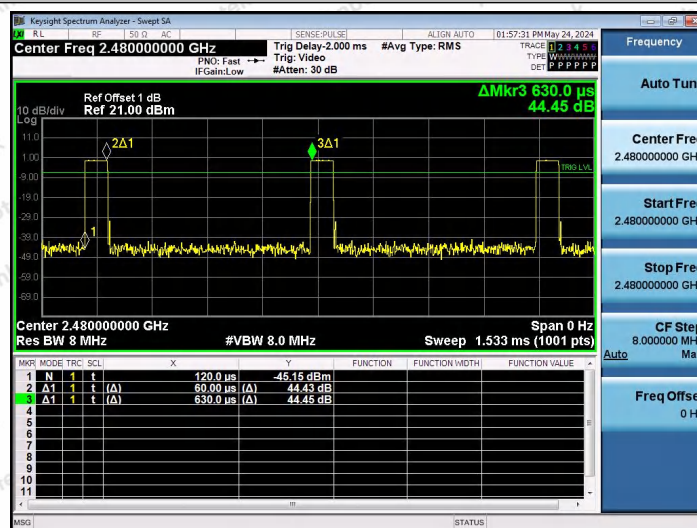




NTNV-BLE\_2M-Ant1-2402



NTNV-BLE\_2M-Ant1-2440



NTNV-BLE\_2M-Ant1-2480

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## Shenzhen Anbotek Compliance Laboratory Limited

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