

## Appendix Test Data

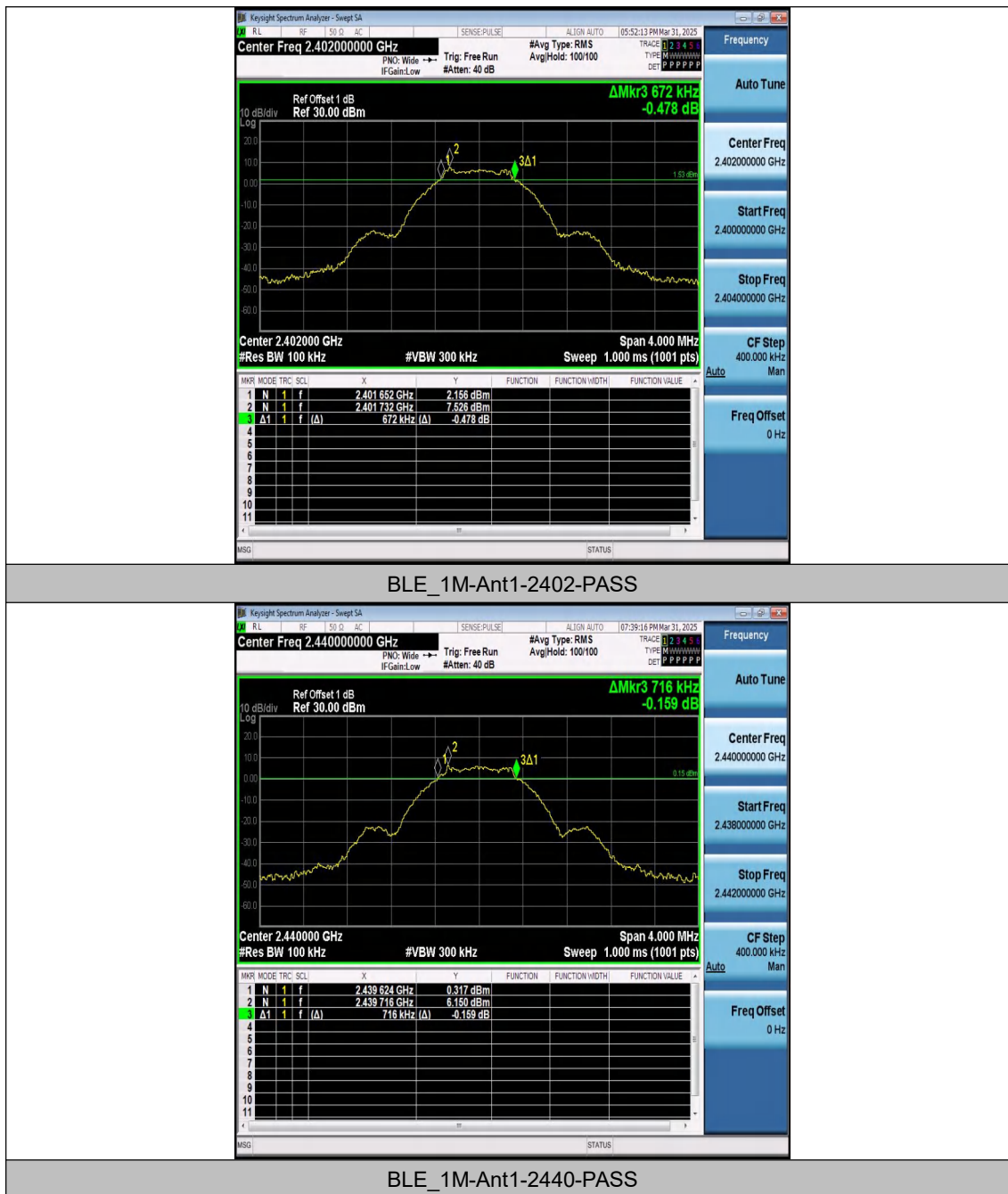
|                  |                  |                    |                    |
|------------------|------------------|--------------------|--------------------|
| Report No.:      | 1812C50101912501 | Test Sample No.:   | 1-2-2              |
| Start Test Date: | 2025.3.20        | Finish Test Date:  | 2025.3.31          |
| Test Engineer:   | <i>Alex Peng</i> | Auditor:           | <i>Justin Feng</i> |
| Temperature:     | 20.9°C           | Relative Humidity: | 50%                |
| Pressure:        | 101kPa           |                    |                    |

## Appendix A: 6dB Bandwidth

### Test Result

| Test Mode | Antenna | Frequency[MHz] | 6dB BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|----------------|--------------|----------|----------|------------|---------|
| BLE_1M    | Ant1    | 2402           | 0.672        | 2401.652 | 2402.324 | 0.5        | PASS    |
| BLE_1M    | Ant1    | 2440           | 0.716        | 2439.624 | 2440.340 | 0.5        | PASS    |
| BLE_1M    | Ant1    | 2480           | 0.732        | 2479.608 | 2480.340 | 0.5        | PASS    |
| BLE_2M    | Ant1    | 2402           | 0.780        | 2401.576 | 2402.356 | 0.5        | PASS    |
| BLE_2M    | Ant1    | 2440           | 0.860        | 2439.552 | 2440.412 | 0.5        | PASS    |
| BLE_2M    | Ant1    | 2480           | 0.796        | 2479.628 | 2480.424 | 0.5        | PASS    |

## Test Graphs



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## Appendix B: 99% Occupied Bandwidth

### Test Result

| Test Mode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|-----------|---------|----------------|-----------|-----------|-----------|------------|---------|
| BLE_1M    | Ant1    | 2402           | 1.0669    | 2401.4490 | 2402.5159 | ---        | ---     |
| BLE_1M    | Ant1    | 2440           | 1.0553    | 2439.4605 | 2440.5158 | ---        | ---     |
| BLE_1M    | Ant1    | 2480           | 1.0645    | 2479.4466 | 2480.5111 | ---        | ---     |
| BLE_2M    | Ant1    | 2402           | 1.7750    | 2401.0991 | 2402.8741 | ---        | ---     |
| BLE_2M    | Ant1    | 2440           | 1.8141    | 2439.0746 | 2440.8887 | ---        | ---     |
| BLE_2M    | Ant1    | 2480           | 1.8204    | 2479.0687 | 2480.8891 | ---        | ---     |

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## Test Graphs



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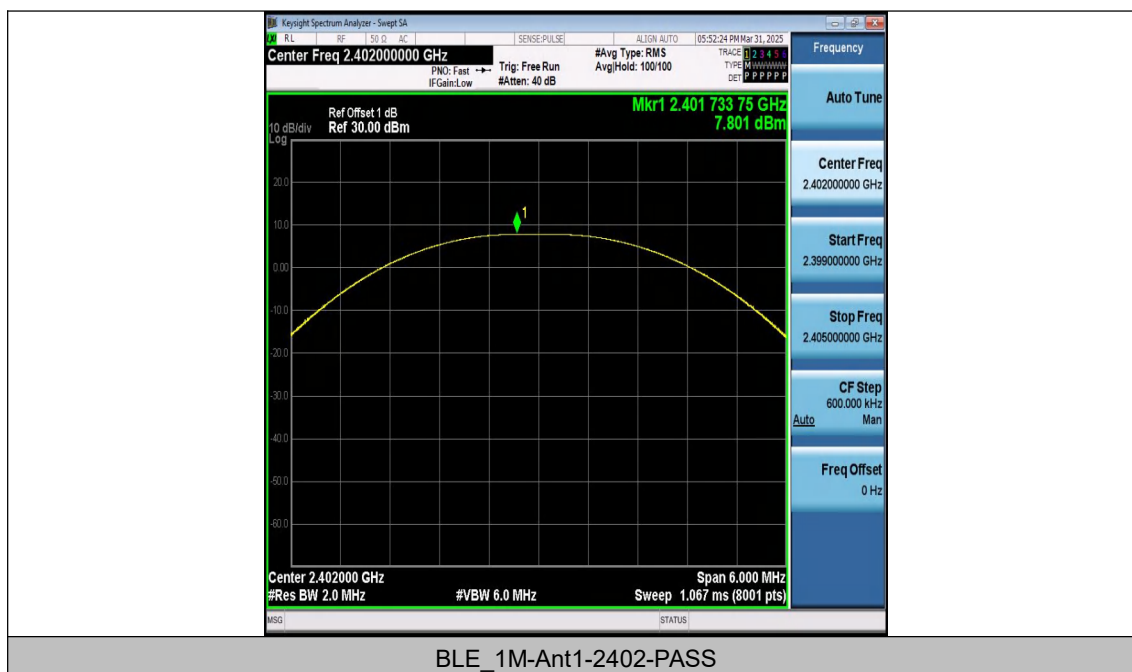


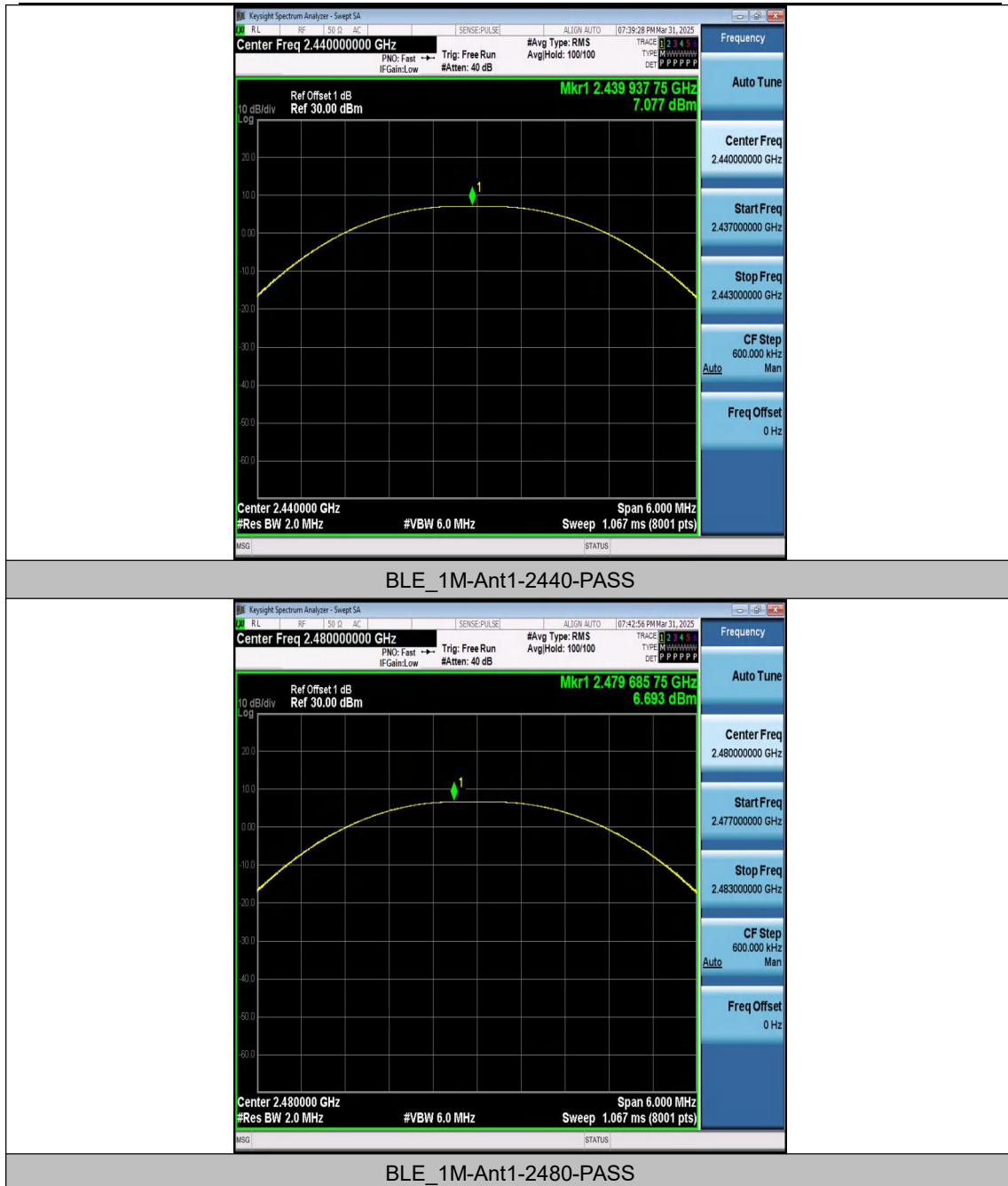
## Appendix C: Maximum conducted output power

### Test Result Peak

| Test Mode | Antenna | Frequency [MHz] | Conducted Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|-----------|---------|-----------------|---------------------------|----------------------|---------|
| BLE_1M    | Ant1    | 2402            | <b>7.80</b>               | ≤30                  | PASS    |
| BLE_1M    | Ant1    | 2440            | 7.08                      | ≤30                  | PASS    |
| BLE_1M    | Ant1    | 2480            | 6.69                      | ≤30                  | PASS    |
| BLE_2M    | Ant1    | 2402            | 7.66                      | ≤30                  | PASS    |
| BLE_2M    | Ant1    | 2440            | 7.07                      | ≤30                  | PASS    |
| BLE_2M    | Ant1    | 2480            | 6.70                      | ≤30                  | PASS    |

### Test Graphs Peak

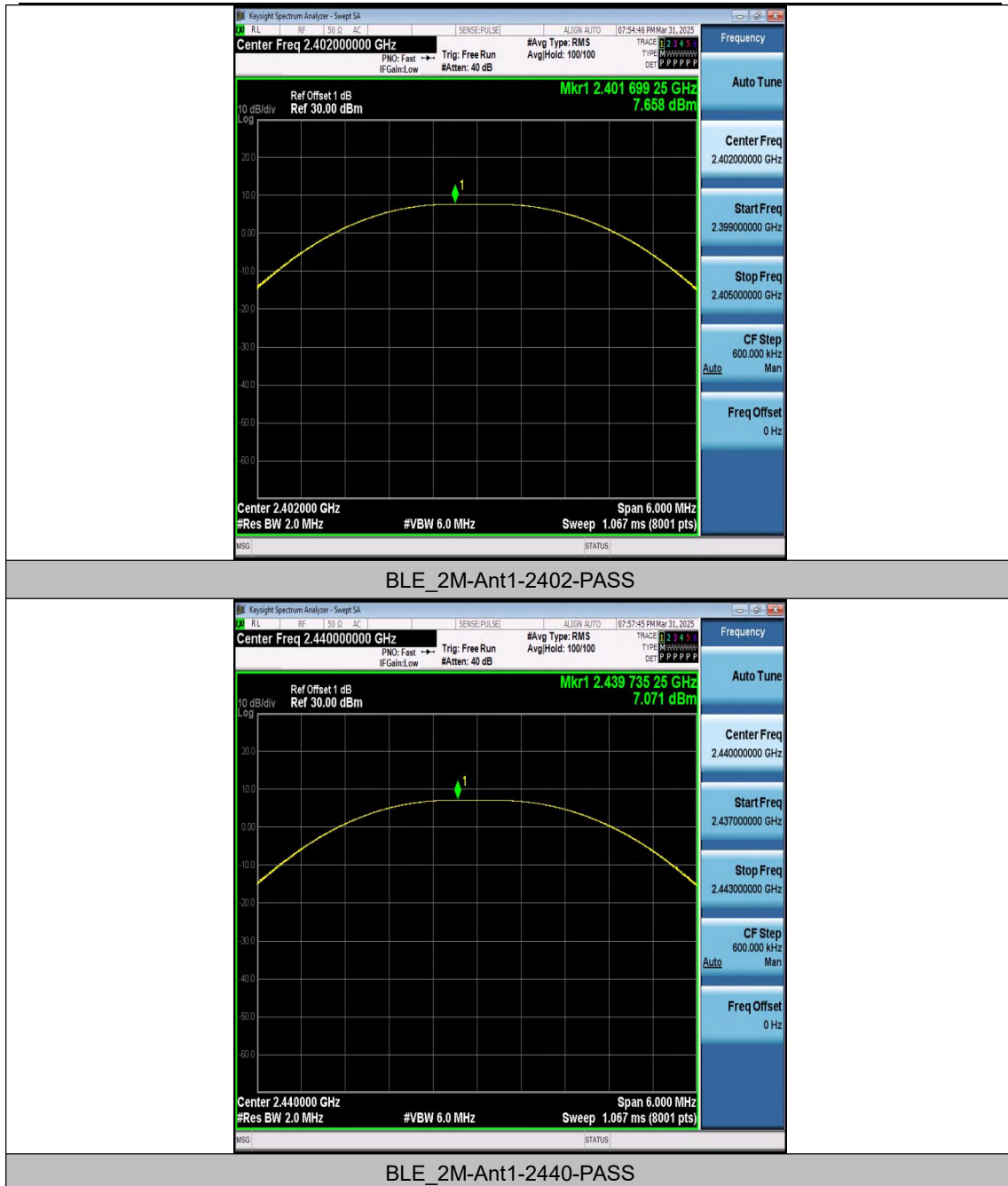




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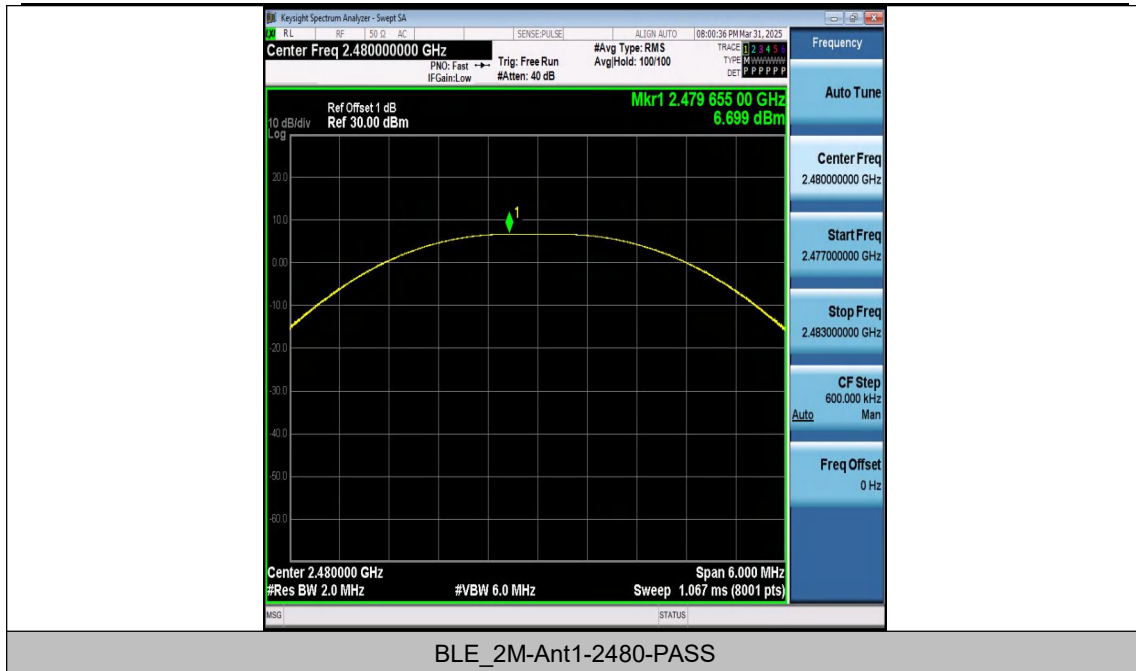


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## Appendix D: Maximum power spectral density

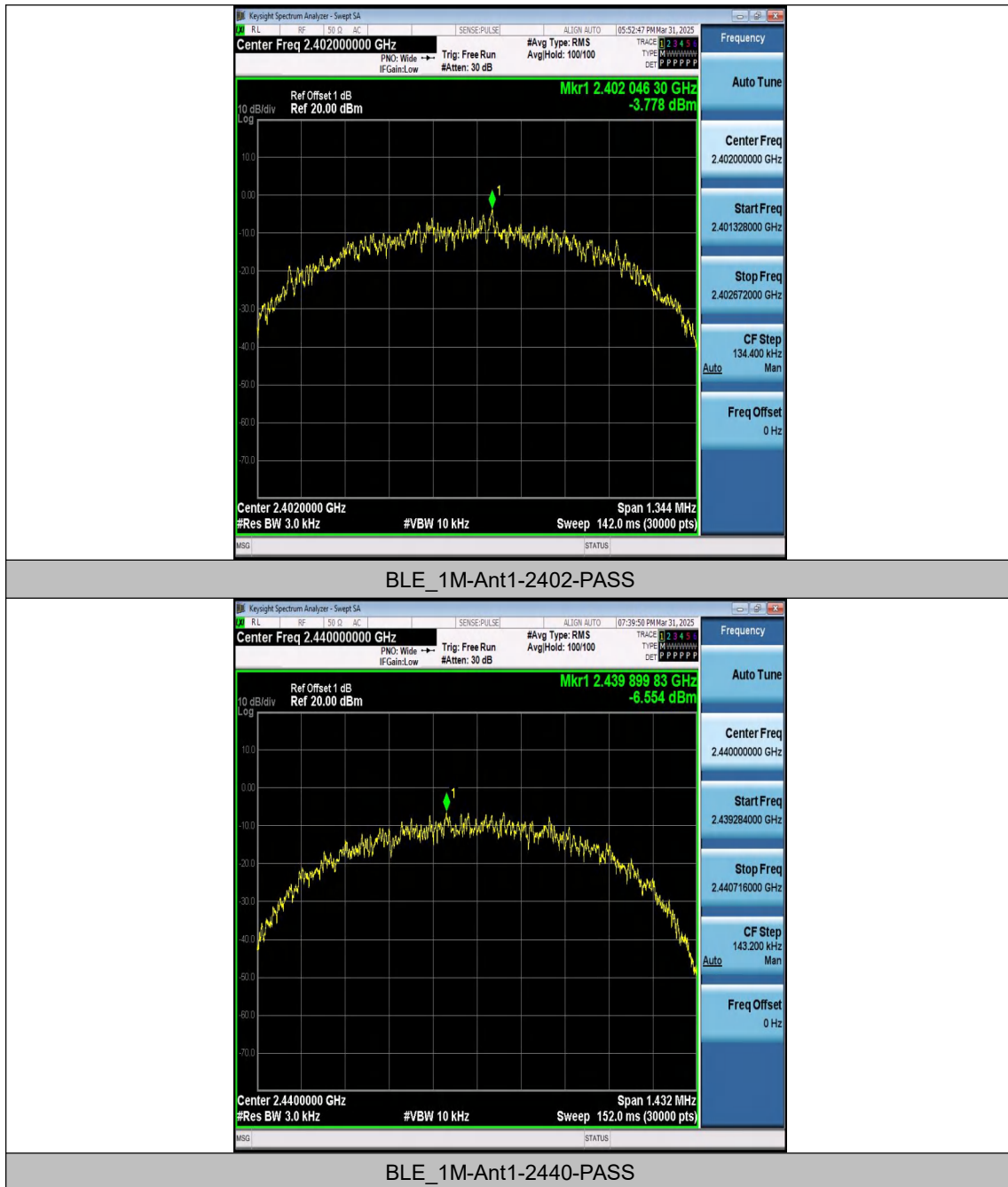
### Test Result

| TestMode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|----------------|------------------|-----------------|---------|
| BLE_1M   | Ant1    | 2402           | -3.78            | ≤8.00           | PASS    |
| BLE_1M   | Ant1    | 2440           | -6.55            | ≤8.00           | PASS    |
| BLE_1M   | Ant1    | 2480           | -6.04            | ≤8.00           | PASS    |
| BLE_2M   | Ant1    | 2402           | -6.83            | ≤8.00           | PASS    |
| BLE_2M   | Ant1    | 2440           | -4.94            | ≤8.00           | PASS    |
| BLE_2M   | Ant1    | 2480           | -6.90            | ≤8.00           | PASS    |

Note:  $\text{PSD(dBm/3kHz)} = \text{PSD(dBm/30kHz)} - (10 \cdot \log(30/3))$ .



## Test Graphs

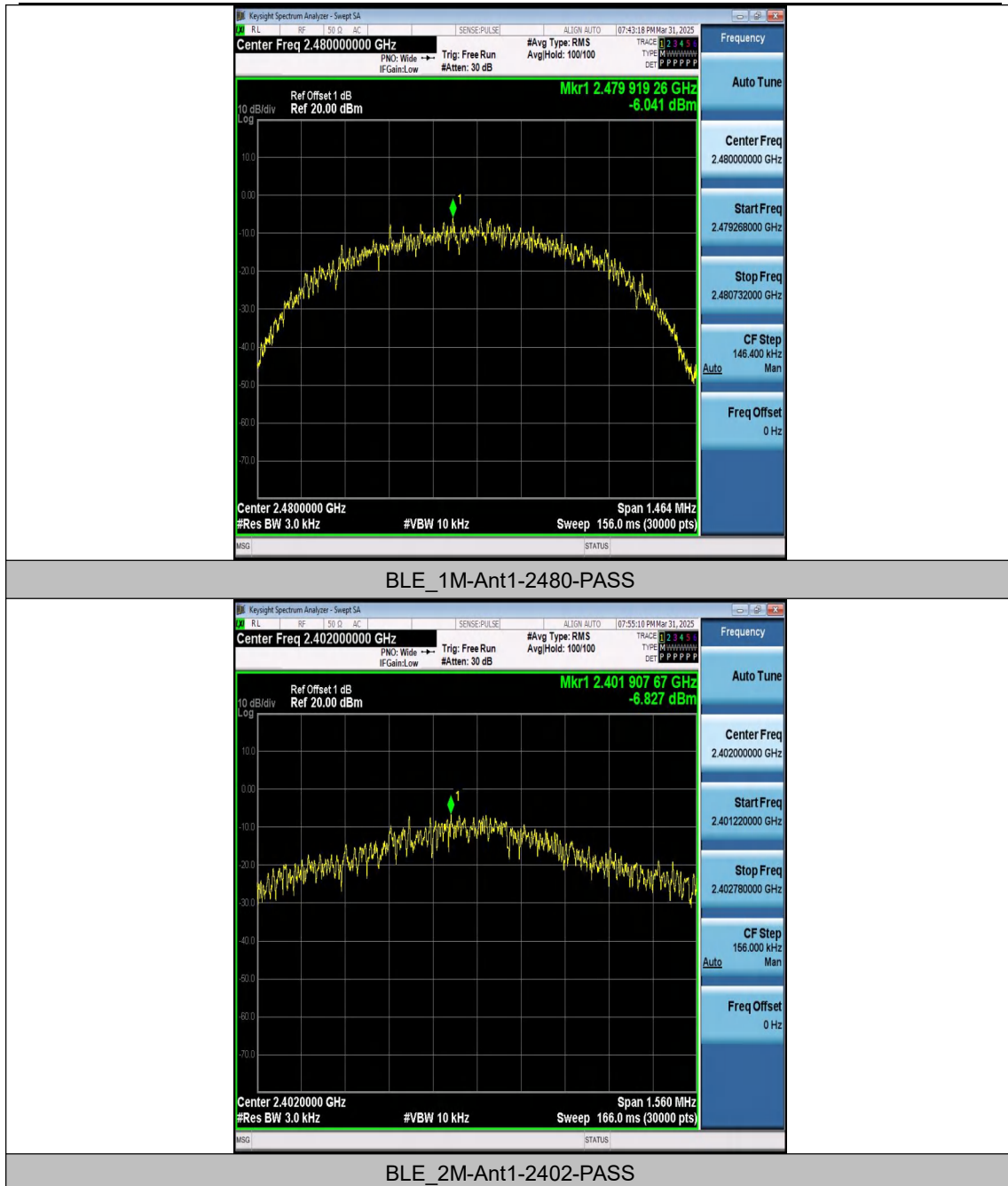


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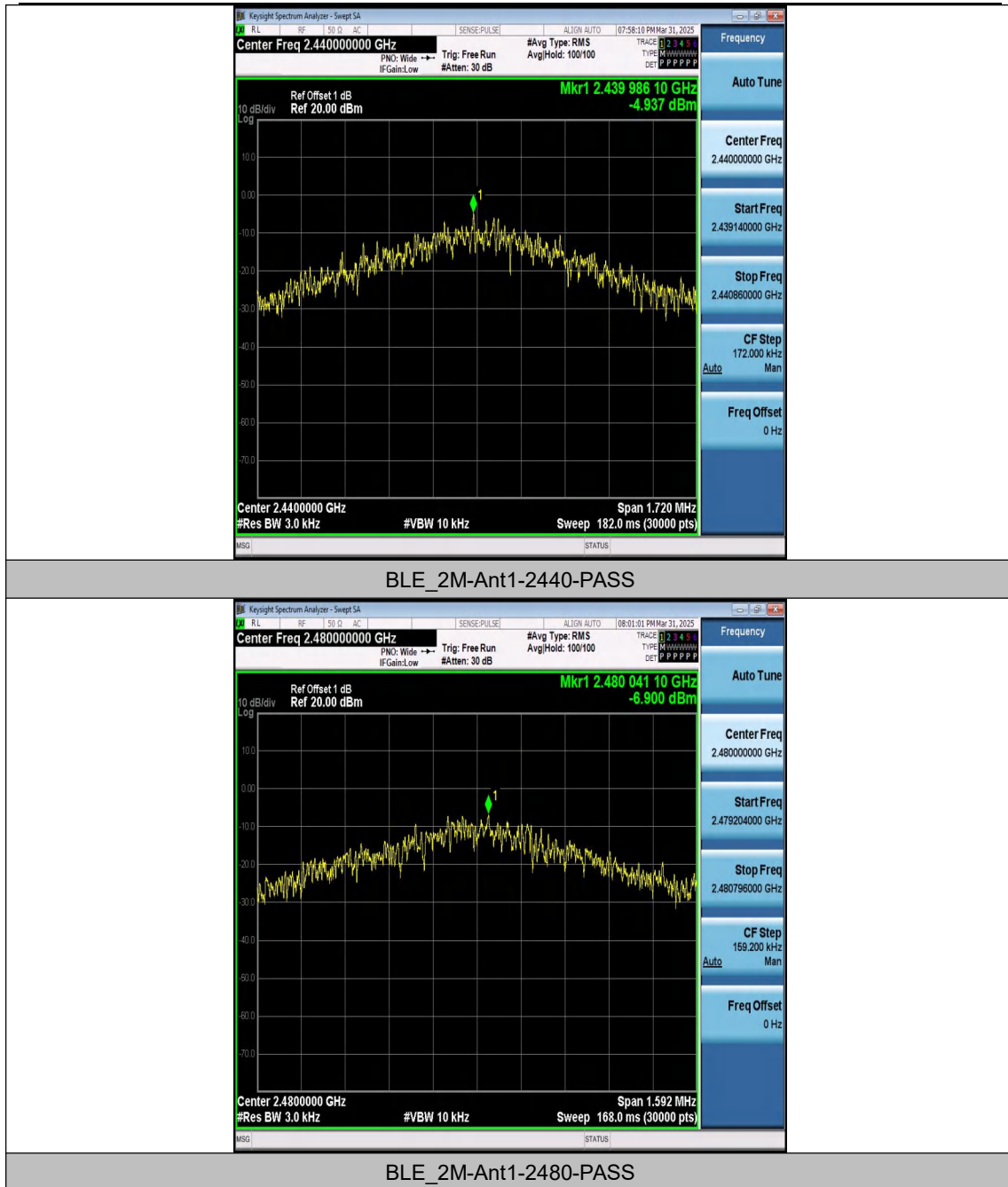




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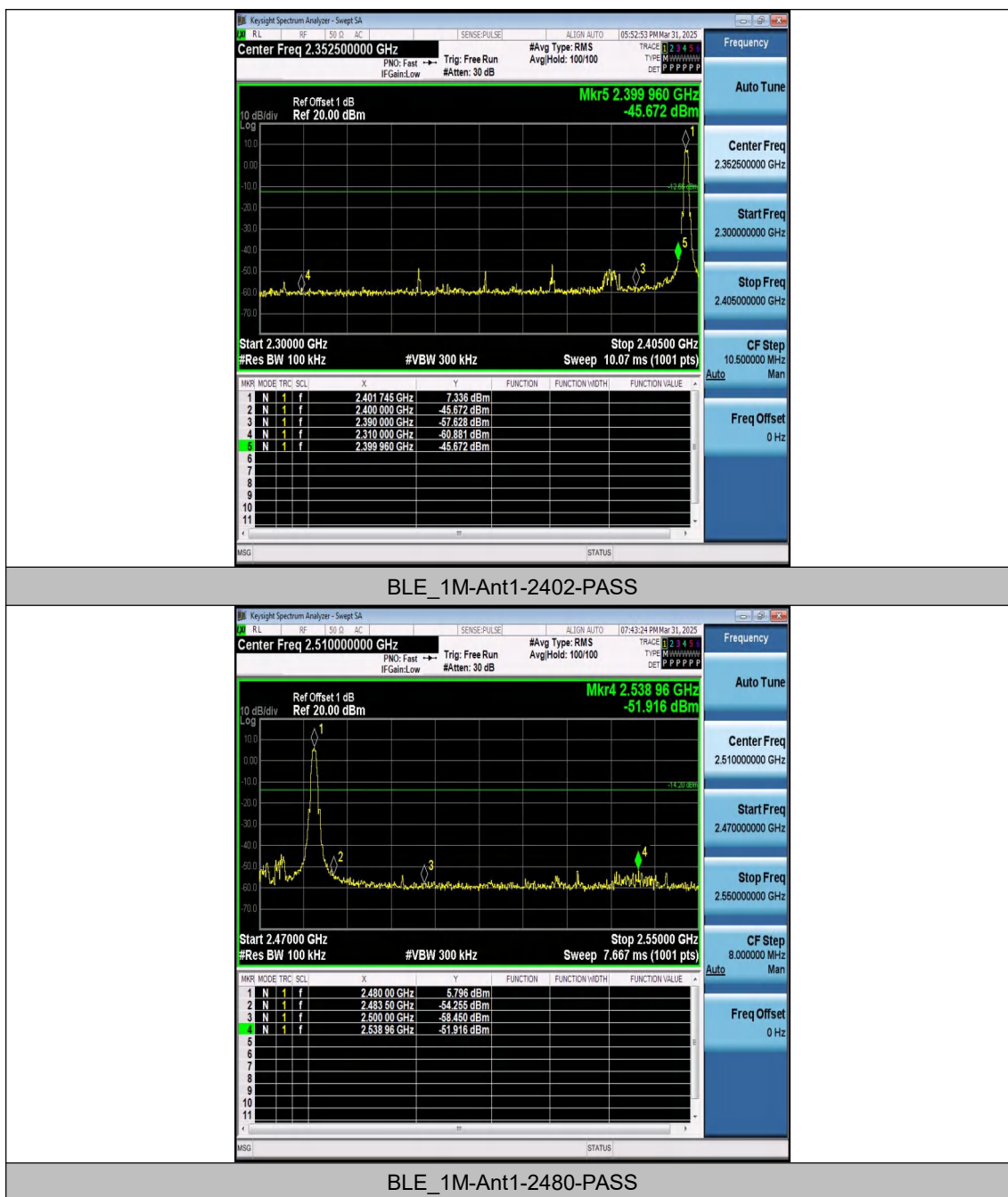
## Appendix E: Band edge measurements

### Test Result

| Test Mode | Antenna | ChName | Frequency [MHz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|--------|-----------------|----------------|--------------|-------------|---------|
| BLE_1M    | Ant1    | Low    | 2402            | 7.34           | -45.67       | ≤-12.66     | PASS    |
| BLE_1M    | Ant1    | High   | 2480            | 5.80           | -51.92       | ≤-14.2      | PASS    |
| BLE_2M    | Ant1    | Low    | 2402            | 7.01           | -31.99       | ≤-12.99     | PASS    |
| BLE_2M    | Ant1    | High   | 2480            | 5.75           | -48.42       | ≤-14.25     | PASS    |



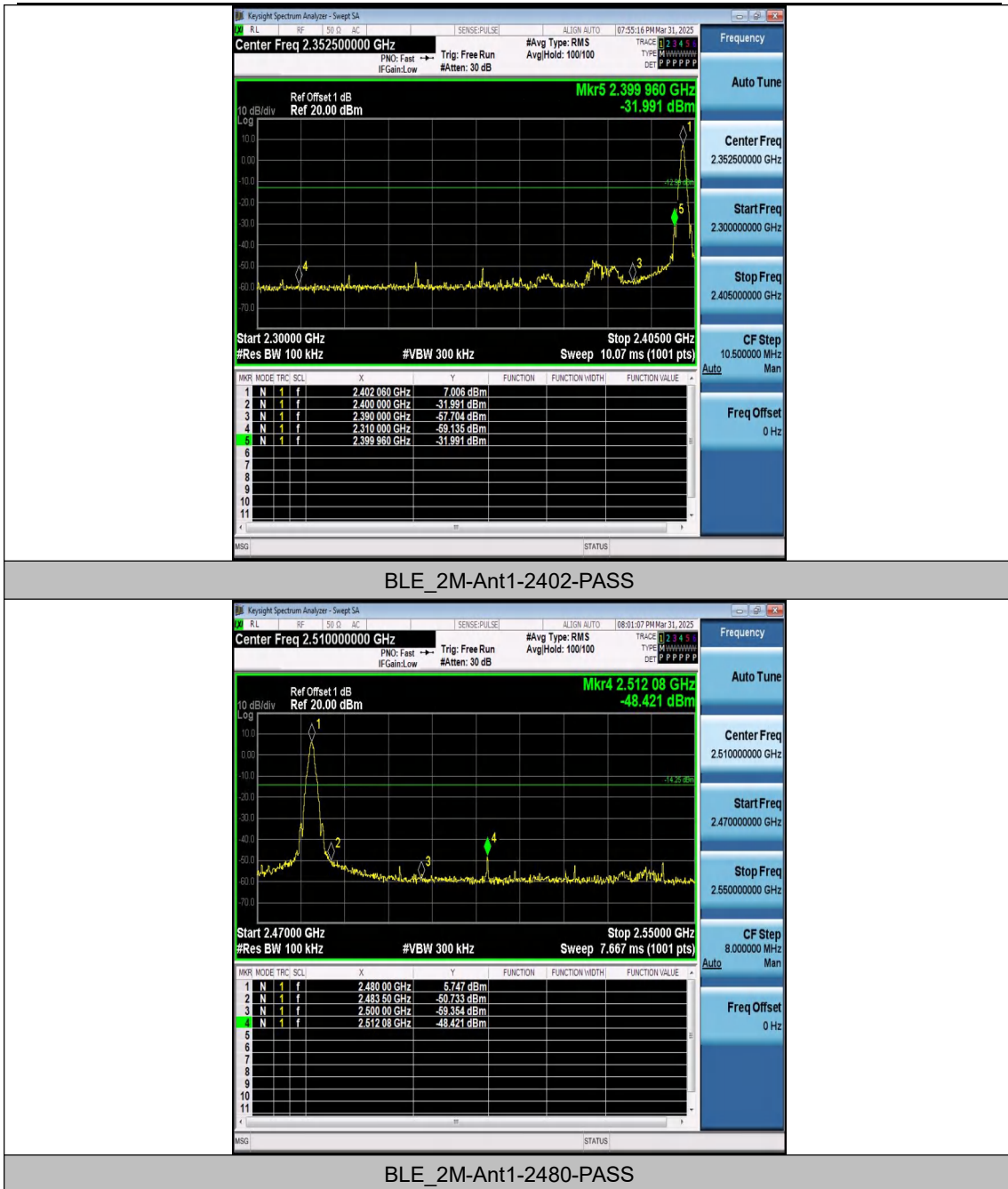
## Test Graphs



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## Appendix F: Conducted Spurious Emission

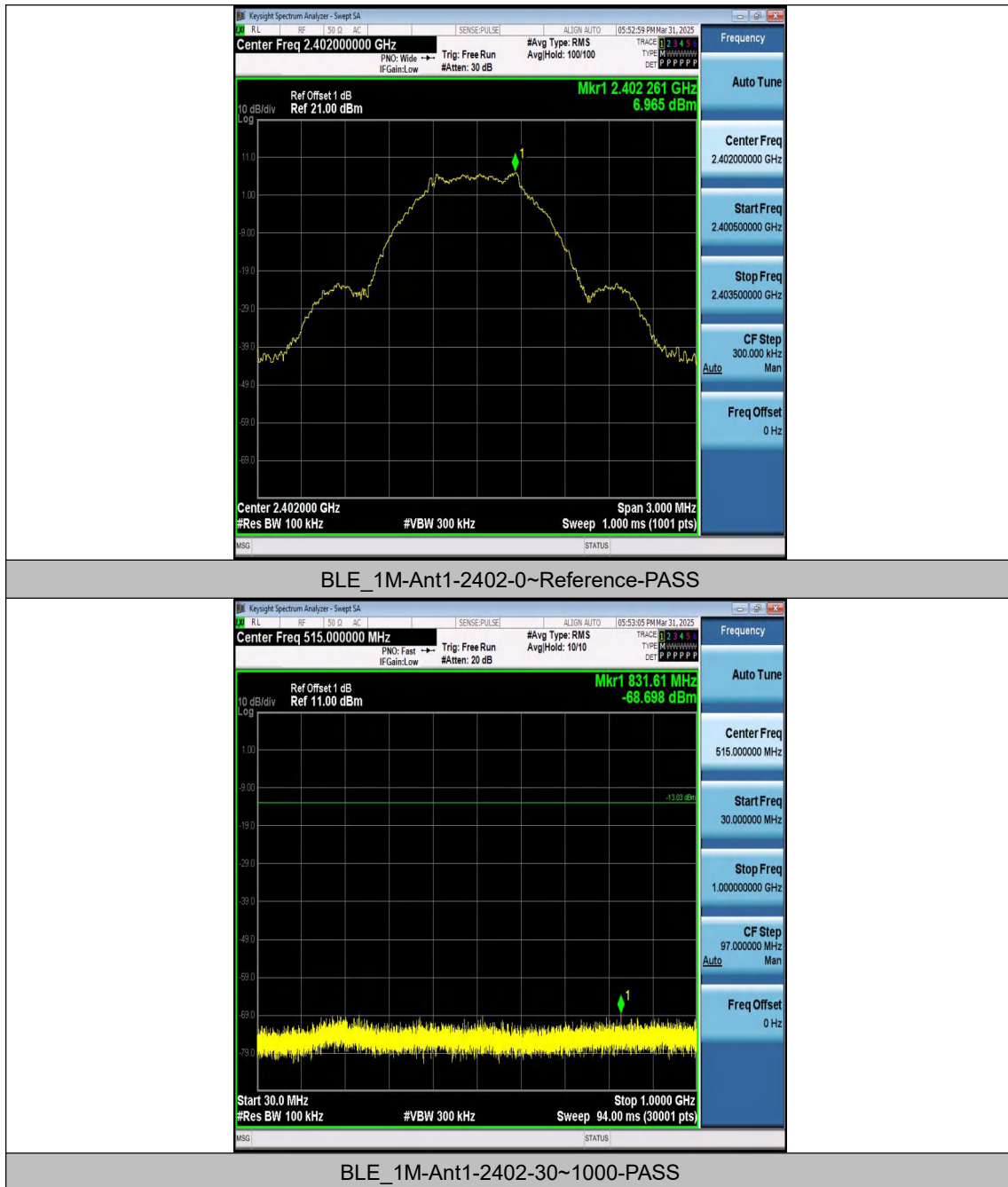
### Test Result

| Test Mode | Antenna | Frequency [MHz] | Freq. Range [MHz] | Ref. Level [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|-----------------|-------------------|------------------|--------------|-------------|---------|
| BLE_1M    | Ant1    | 2402            | 0~Reference       | 6.97             | 6.97         | ---         | PASS    |
| BLE_1M    | Ant1    | 2402            | 30~1000           | 6.97             | -68.7        | ≤-13.03     | PASS    |
| BLE_1M    | Ant1    | 2402            | 1000~26500        | 6.97             | -32.27       | ≤-13.03     | PASS    |
| BLE_1M    | Ant1    | 2440            | 0~Reference       | 6.12             | 6.12         | ---         | PASS    |
| BLE_1M    | Ant1    | 2440            | 30~1000           | 6.12             | -68.59       | ≤-13.88     | PASS    |
| BLE_1M    | Ant1    | 2440            | 1000~26500        | 6.12             | -32.39       | ≤-13.88     | PASS    |
| BLE_1M    | Ant1    | 2480            | 0~Reference       | 5.77             | 5.77         | ---         | PASS    |
| BLE_1M    | Ant1    | 2480            | 30~1000           | 5.77             | -67.59       | ≤-14.23     | PASS    |
| BLE_1M    | Ant1    | 2480            | 1000~26500        | 5.77             | -37.27       | ≤-14.23     | PASS    |
| BLE_2M    | Ant1    | 2402            | 0~Reference       | 6.86             | 6.86         | ---         | PASS    |
| BLE_2M    | Ant1    | 2402            | 30~1000           | 6.86             | -69.01       | ≤-13.14     | PASS    |
| BLE_2M    | Ant1    | 2402            | 1000~26500        | 6.86             | -33.73       | ≤-13.14     | PASS    |
| BLE_2M    | Ant1    | 2440            | 0~Reference       | 6.26             | 6.26         | ---         | PASS    |
| BLE_2M    | Ant1    | 2440            | 30~1000           | 6.26             | -69.16       | ≤-13.74     | PASS    |
| BLE_2M    | Ant1    | 2440            | 1000~26500        | 6.26             | -34.73       | ≤-13.74     | PASS    |
| BLE_2M    | Ant1    | 2480            | 0~Reference       | 5.77             | 5.77         | ---         | PASS    |
| BLE_2M    | Ant1    | 2480            | 30~1000           | 5.77             | -67.68       | ≤-14.23     | PASS    |
| BLE_2M    | Ant1    | 2480            | 1000~26500        | 5.77             | -38.91       | ≤-14.23     | PASS    |





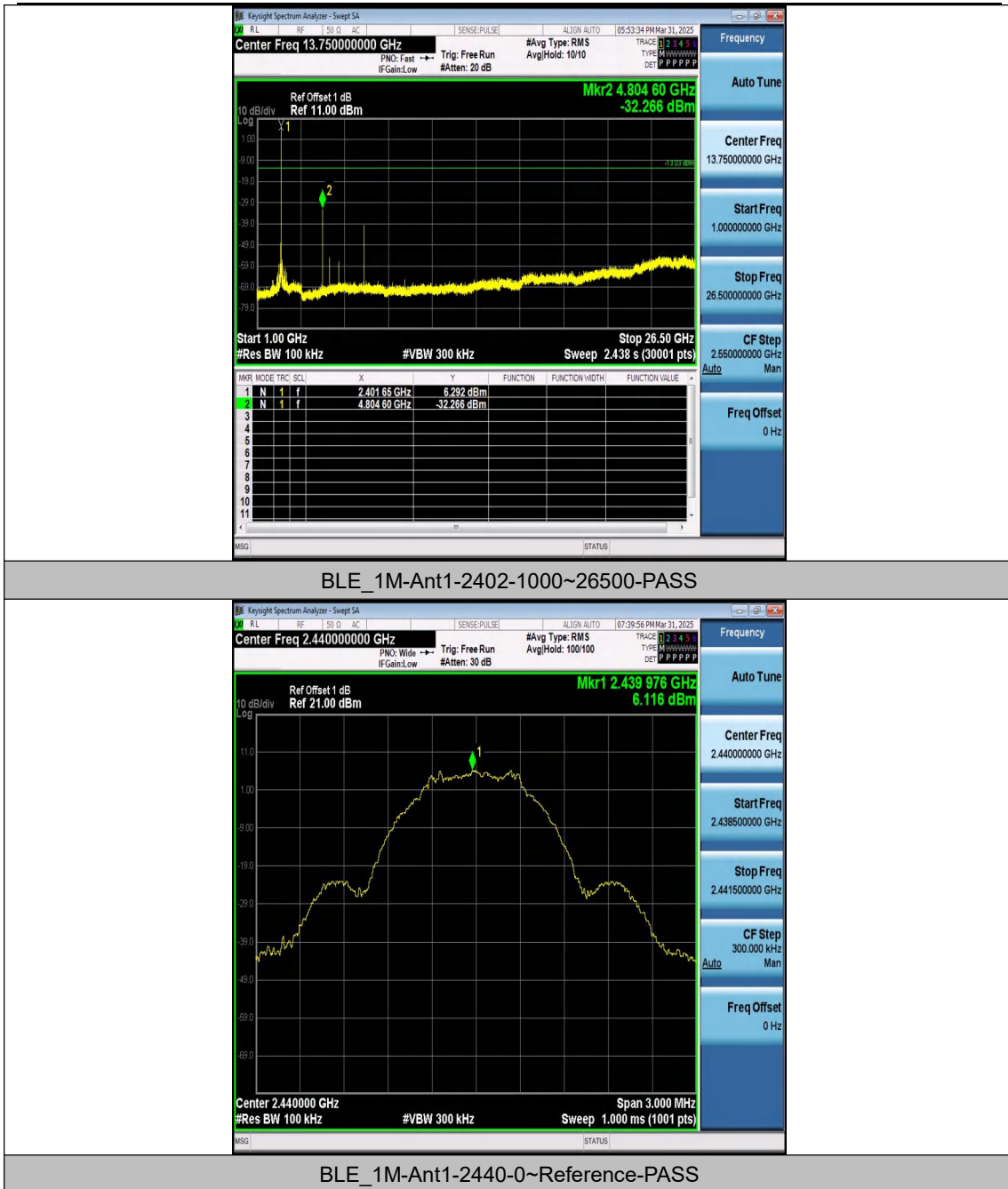
## Test Graphs



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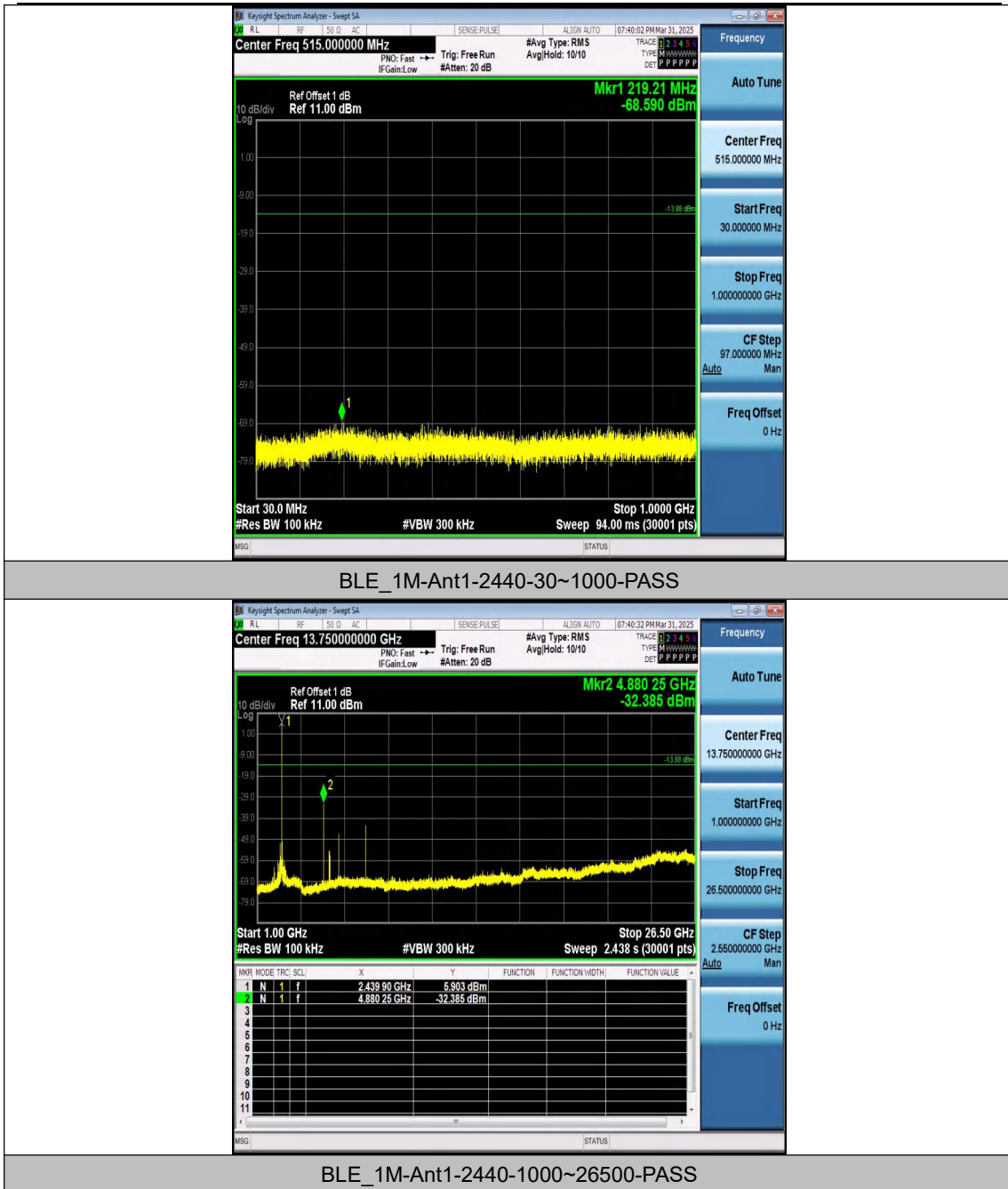


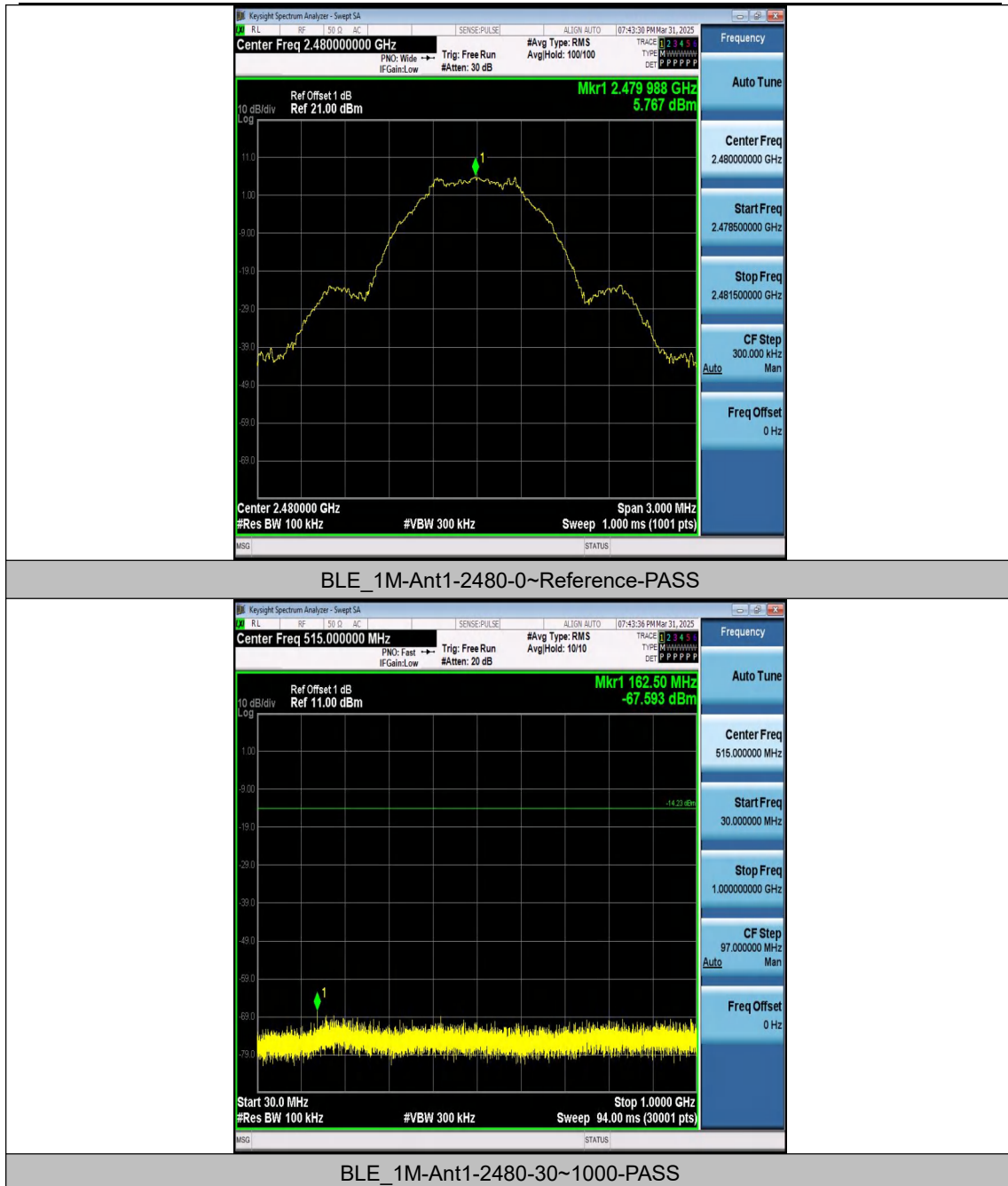
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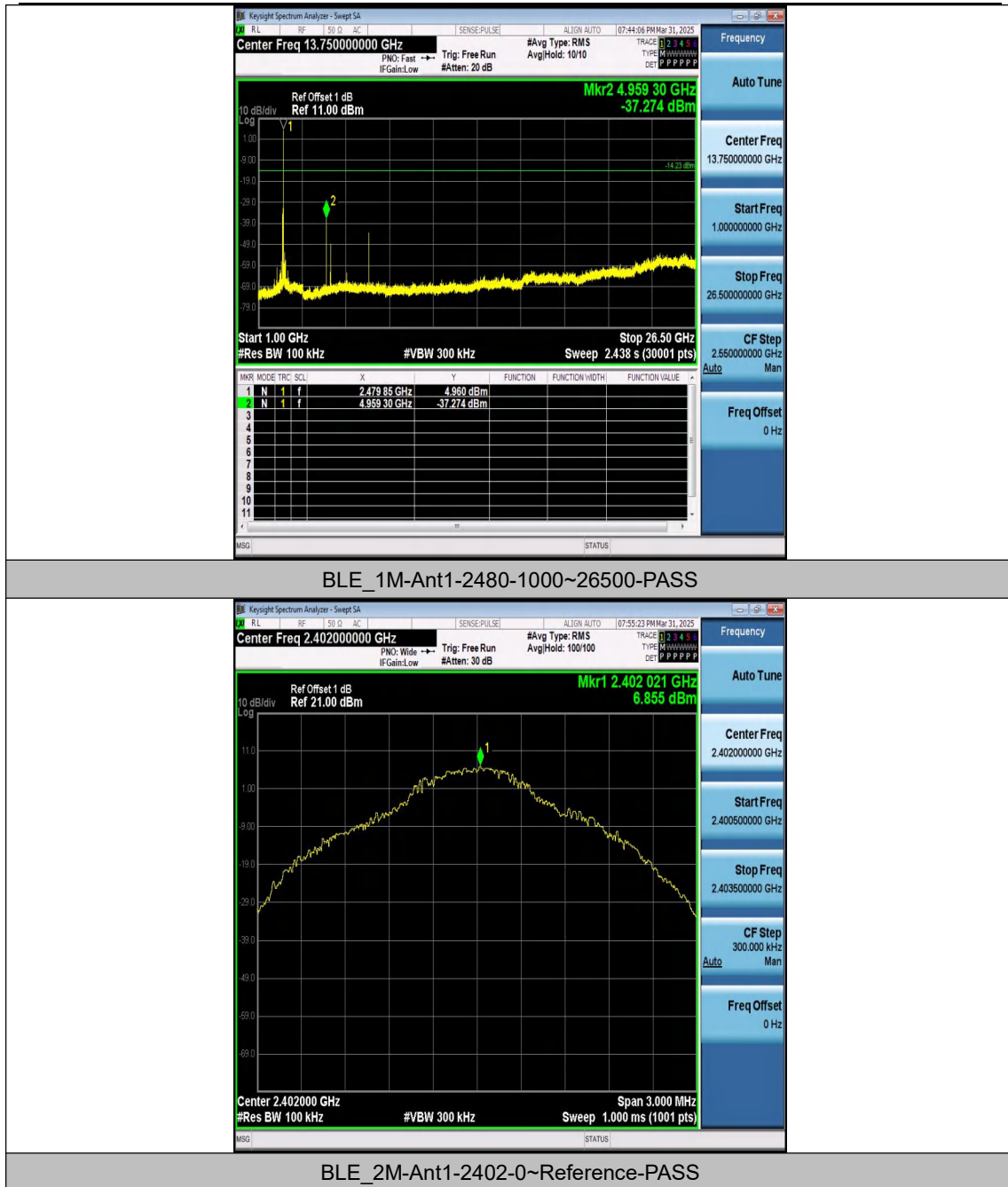


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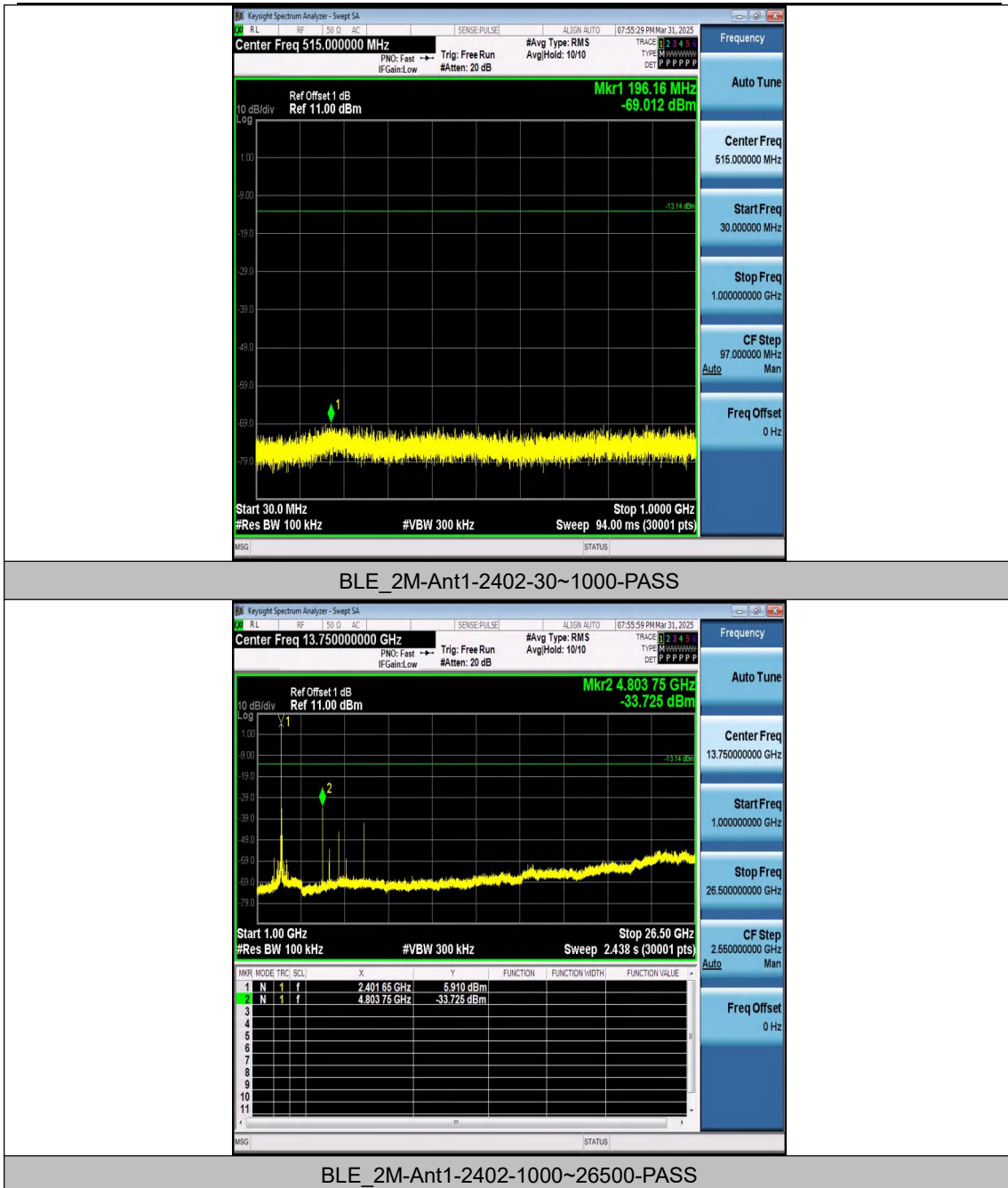


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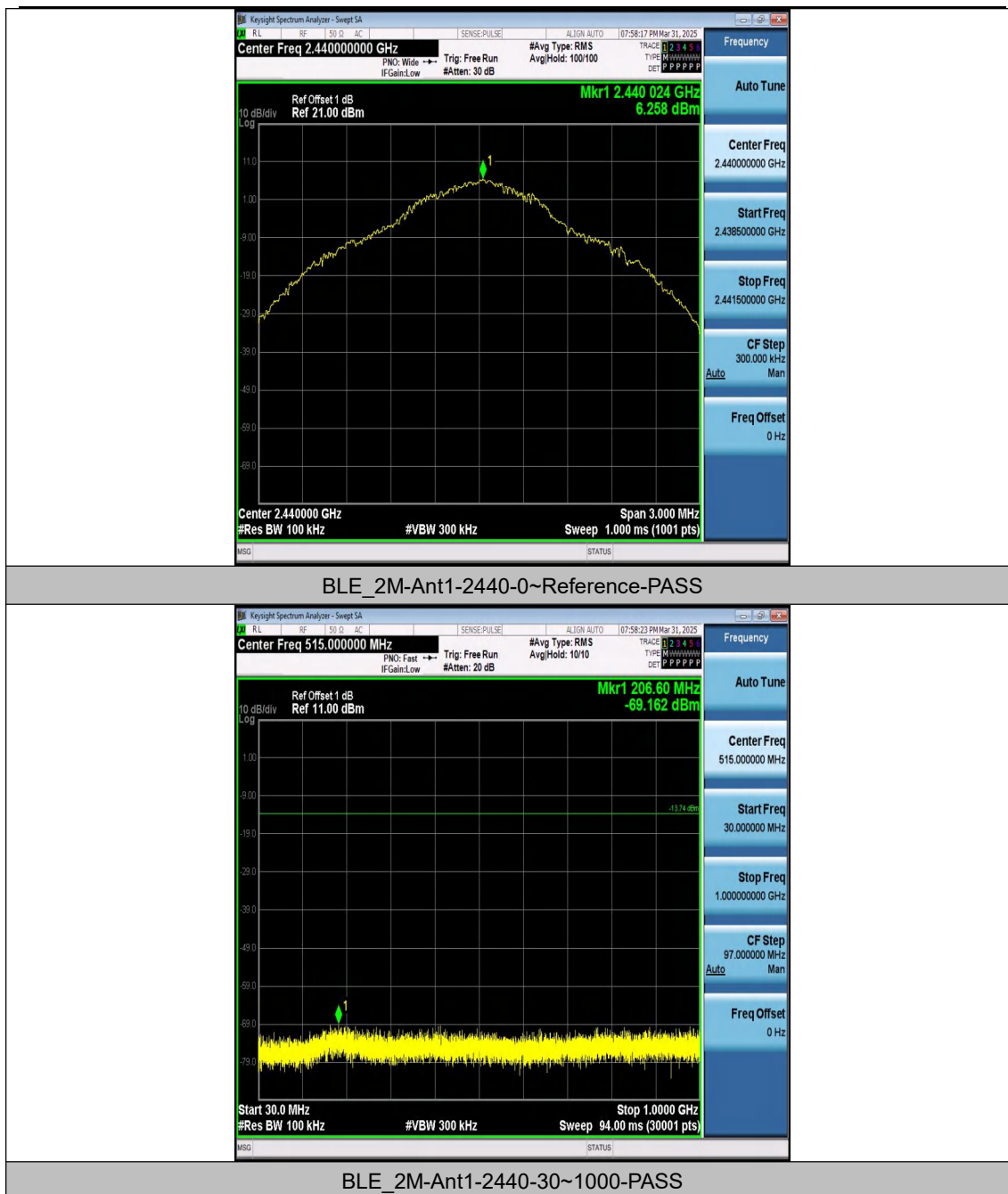
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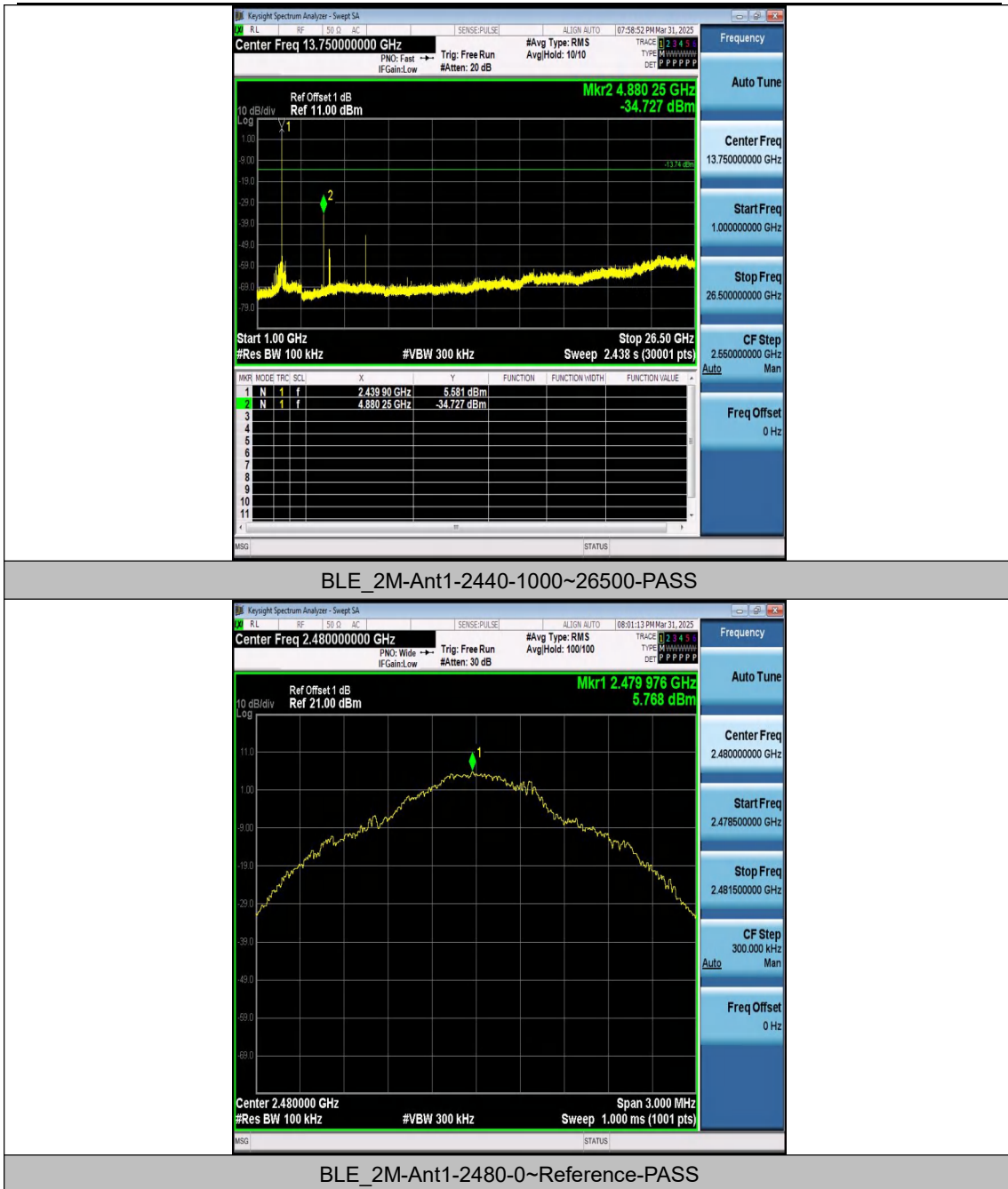
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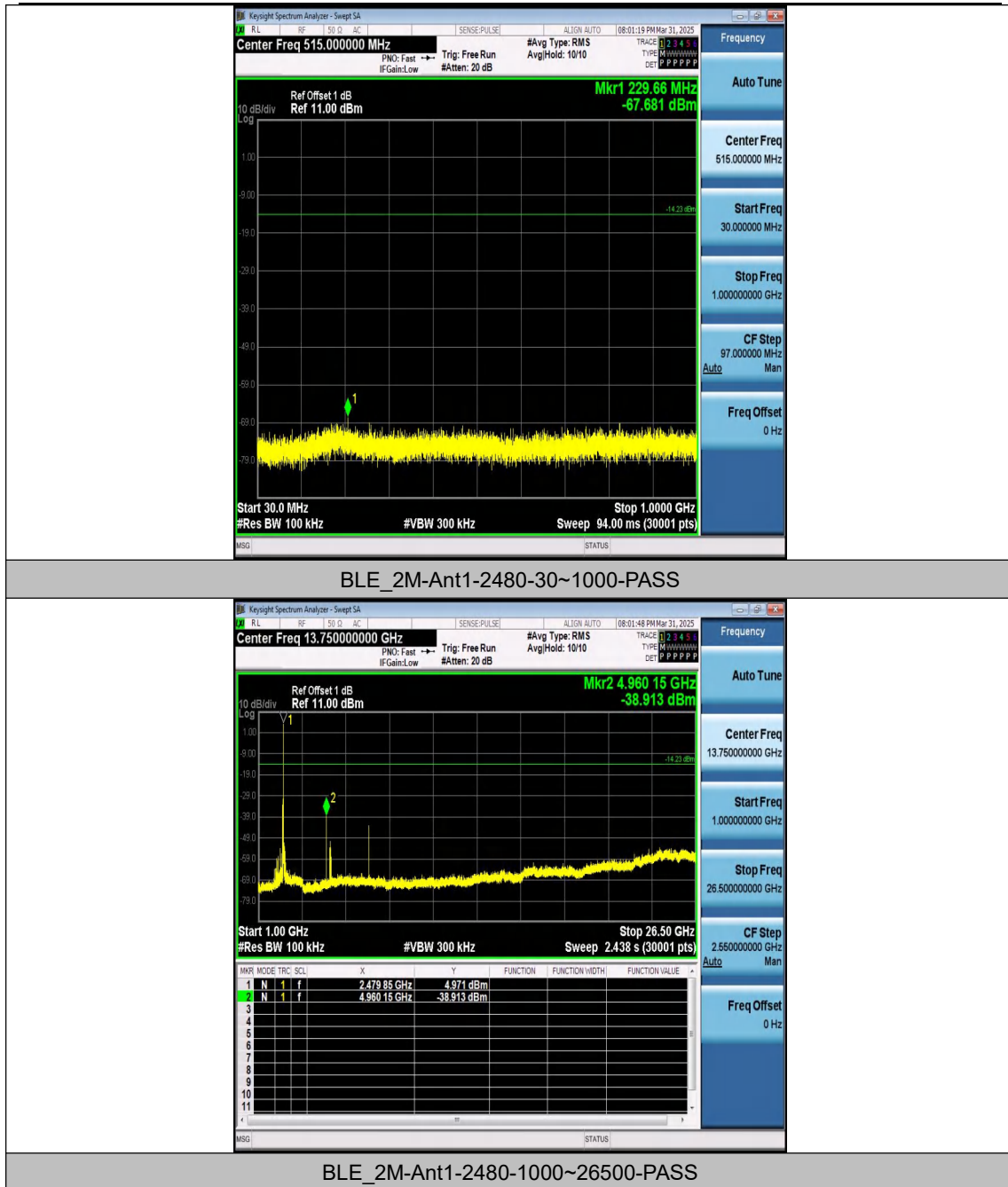


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## Appendix G: Duty Cycle

### Test Result

| Test Mode | Antenna | Frequency [MHz] | ON Time [ms] | Period [ms] | Duty Cycle [%] | Duty Cycle Factor[dB] |
|-----------|---------|-----------------|--------------|-------------|----------------|-----------------------|
| BLE_1M    | Ant1    | 2402            | 100.00       | 100.00      | 100            | 0.00                  |
| BLE_1M    | Ant1    | 2440            | 100.00       | 100.00      | 100            | 0.00                  |
| BLE_1M    | Ant1    | 2480            | 100.00       | 100.00      | 100            | 0.00                  |
| BLE_2M    | Ant1    | 2402            | 100.00       | 100.00      | 100            | 0.00                  |
| BLE_2M    | Ant1    | 2440            | 100.00       | 100.00      | 100            | 0.00                  |
| BLE_2M    | Ant1    | 2480            | 100.00       | 100.00      | 100            | 0.00                  |

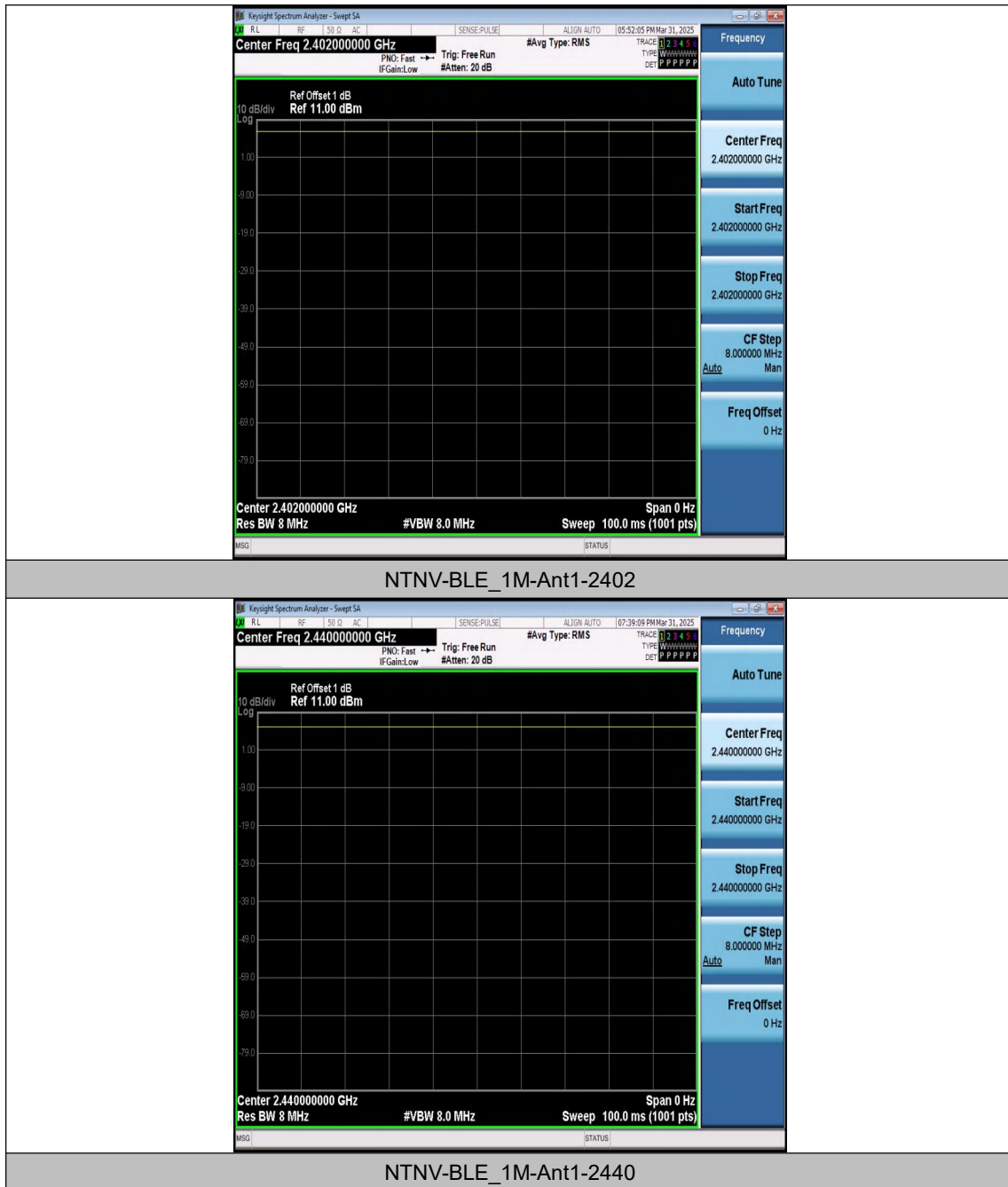
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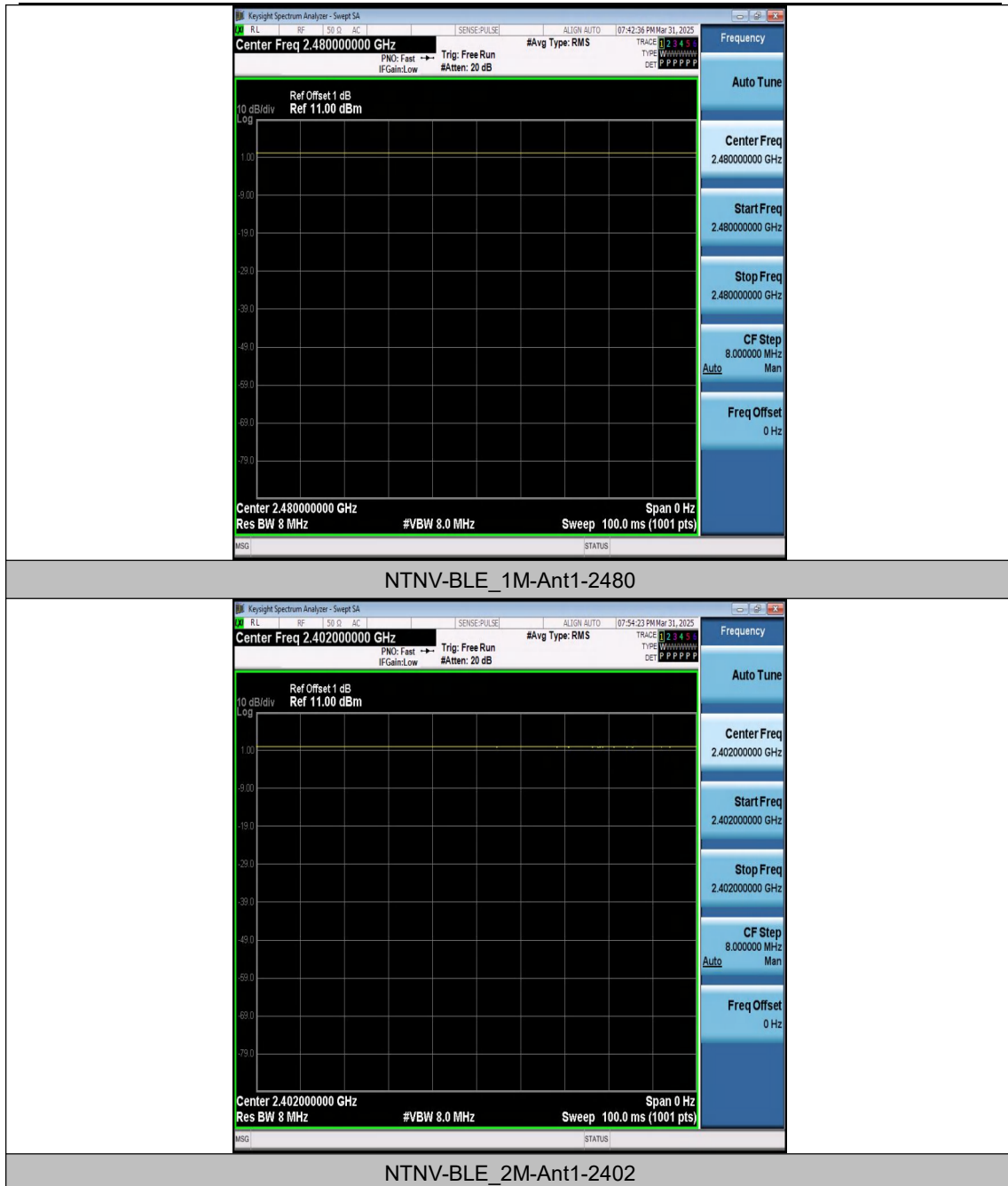
## Test Graphs



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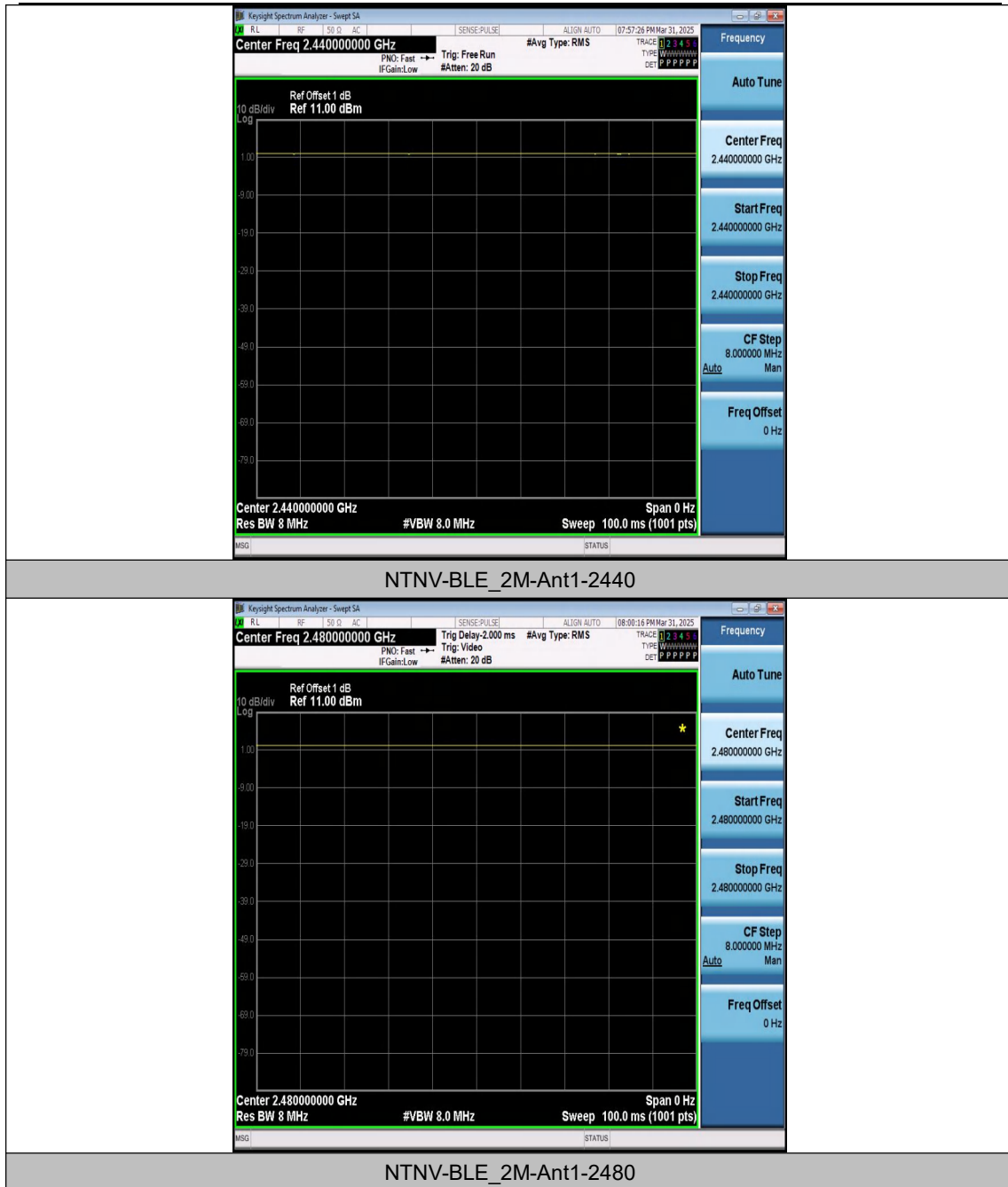
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