

## Appendix Test Data

|                  |                  |                    |                    |
|------------------|------------------|--------------------|--------------------|
| Report No.:      | 1812C50126412501 | Test Sample No.:   | 1-2-2              |
| Start Test Date: | 2025.04.15       | Finish Test Date:  | 2025.04.15         |
| Test Engineer:   | <i>Alex Peng</i> | Auditor:           | <i>Justin Feng</i> |
| Temperature:     | 24.5°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        | 2401.664 | 2402.336 | 0.5        | PASS    |
| BLE_1M    | Ant1    | 2440           | 0.688        | 2439.648 | 2440.336 | 0.5        | PASS    |
| BLE_1M    | Ant1    | 2480           | 0.664        | 2479.668 | 2480.332 | 0.5        | PASS    |
| BLE_2M    | Ant1    | 2402           | 1.344        | 2401.320 | 2402.664 | 0.5        | PASS    |
| BLE_2M    | Ant1    | 2440           | 1.344        | 2439.320 | 2440.664 | 0.5        | PASS    |
| BLE_2M    | Ant1    | 2480           | 1.348        | 2479.320 | 2480.668 | 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           | 1.0235    | 2401.4835 | 2402.5070 | ---        | ---     |
| BLE_1M    | Ant1    | 2440           | 1.0289    | 2439.4801 | 2440.5090 | ---        | ---     |
| BLE_1M    | Ant1    | 2480           | 1.0243    | 2479.4789 | 2480.5032 | ---        | ---     |
| BLE_2M    | Ant1    | 2402           | 2.0810    | 2400.9711 | 2403.0521 | ---        | ---     |
| BLE_2M    | Ant1    | 2440           | 2.0805    | 2438.9715 | 2441.0520 | ---        | ---     |
| BLE_2M    | Ant1    | 2480           | 2.0769    | 2478.9738 | 2481.0507 | ---        | ---     |



## Test Graphs



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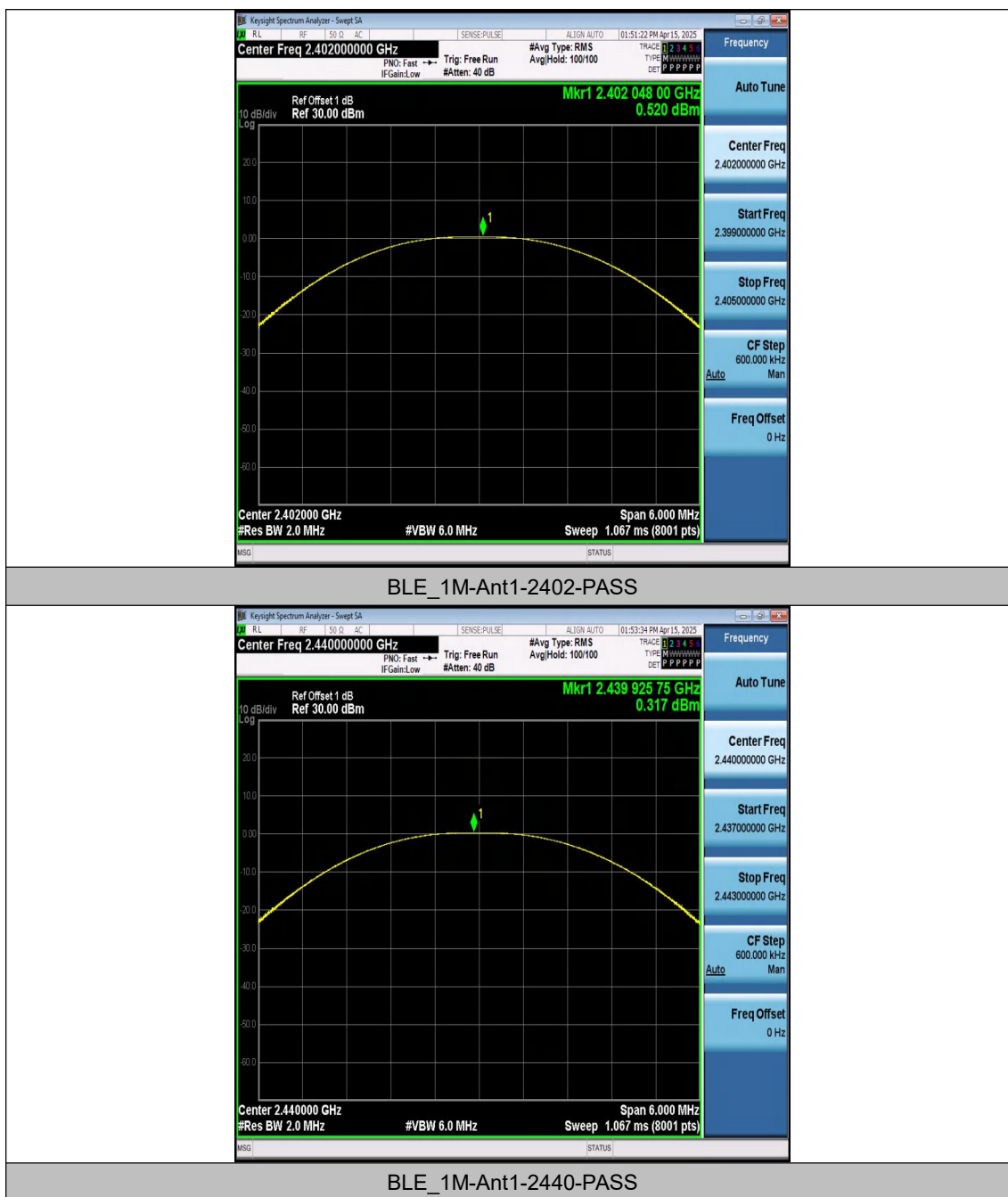
## Appendix C: Maximum conducted output power

### Test Result Peak

| Test Mode | Antenna | Frequency [MHz] | Conducted Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|-----------|---------|-----------------|---------------------------|----------------------|---------|
| BLE_1M    | Ant1    | 2402            | <b>0.52</b>               | ≤30                  | PASS    |
| BLE_1M    | Ant1    | 2440            | 0.32                      | ≤30                  | PASS    |
| BLE_1M    | Ant1    | 2480            | 0.25                      | ≤30                  | PASS    |
| BLE_2M    | Ant1    | 2402            | 0.46                      | ≤30                  | PASS    |
| BLE_2M    | Ant1    | 2440            | 0.33                      | ≤30                  | PASS    |
| BLE_2M    | Ant1    | 2480            | 0.22                      | ≤30                  | PASS    |



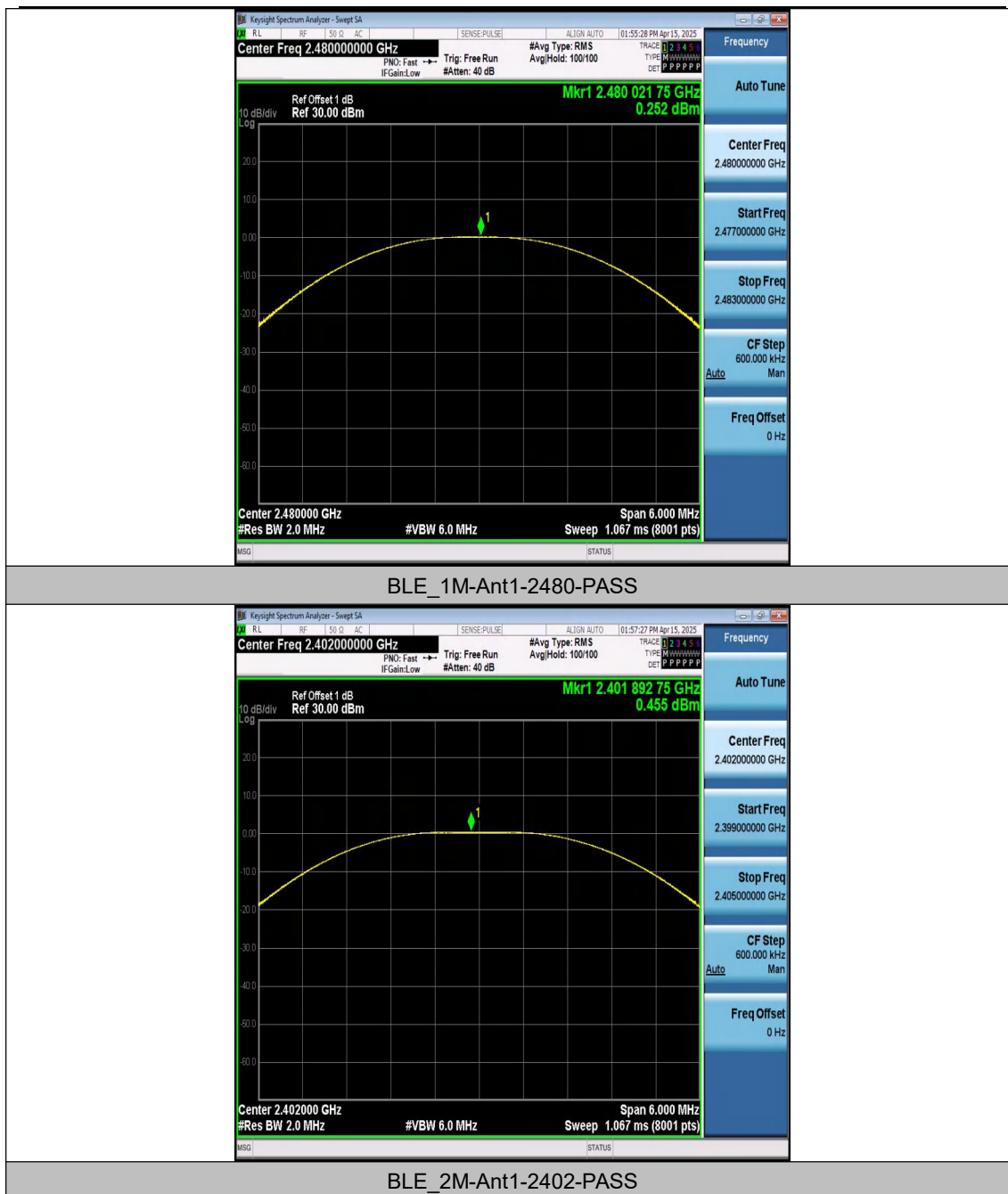
## Test Graphs Peak



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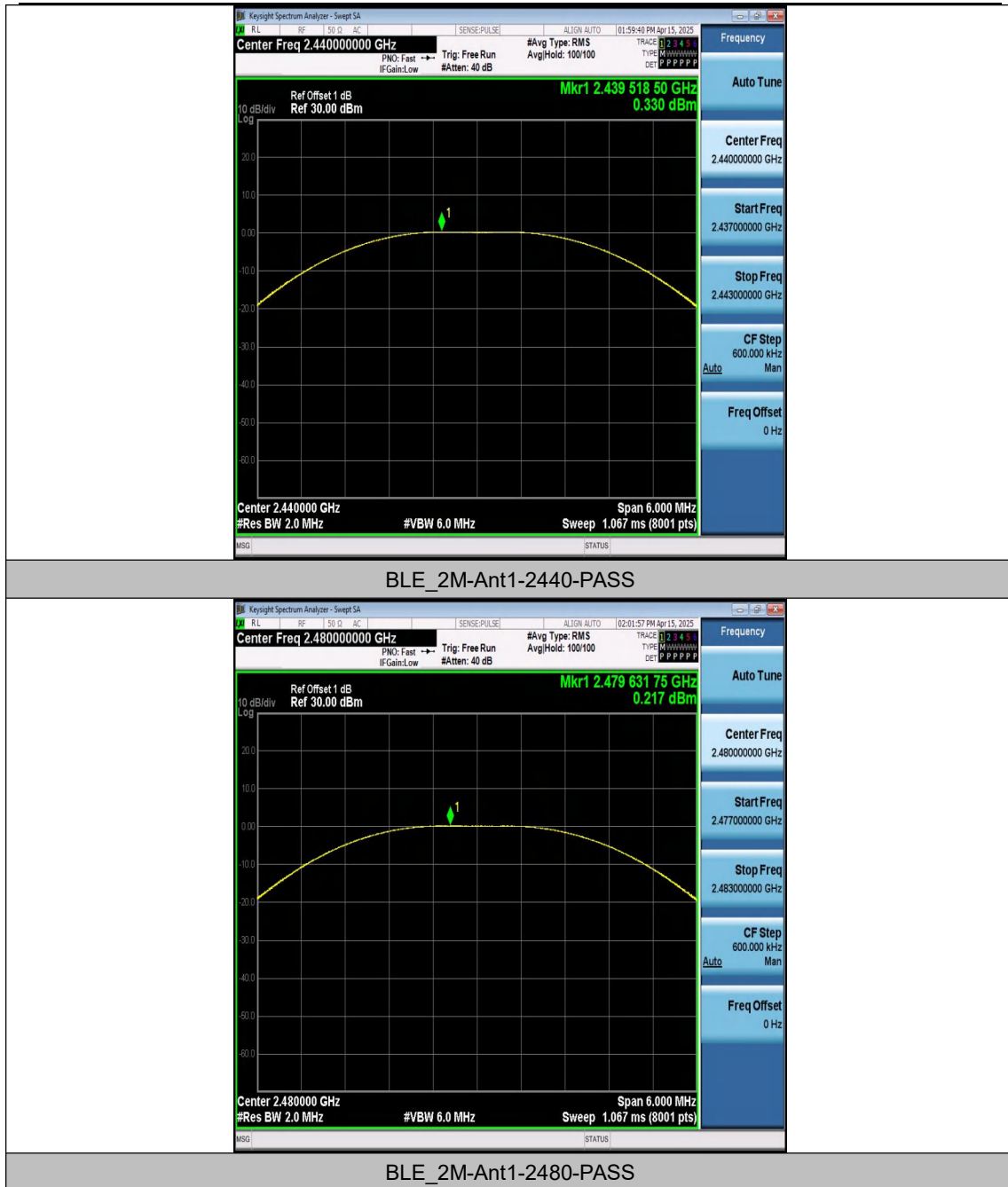


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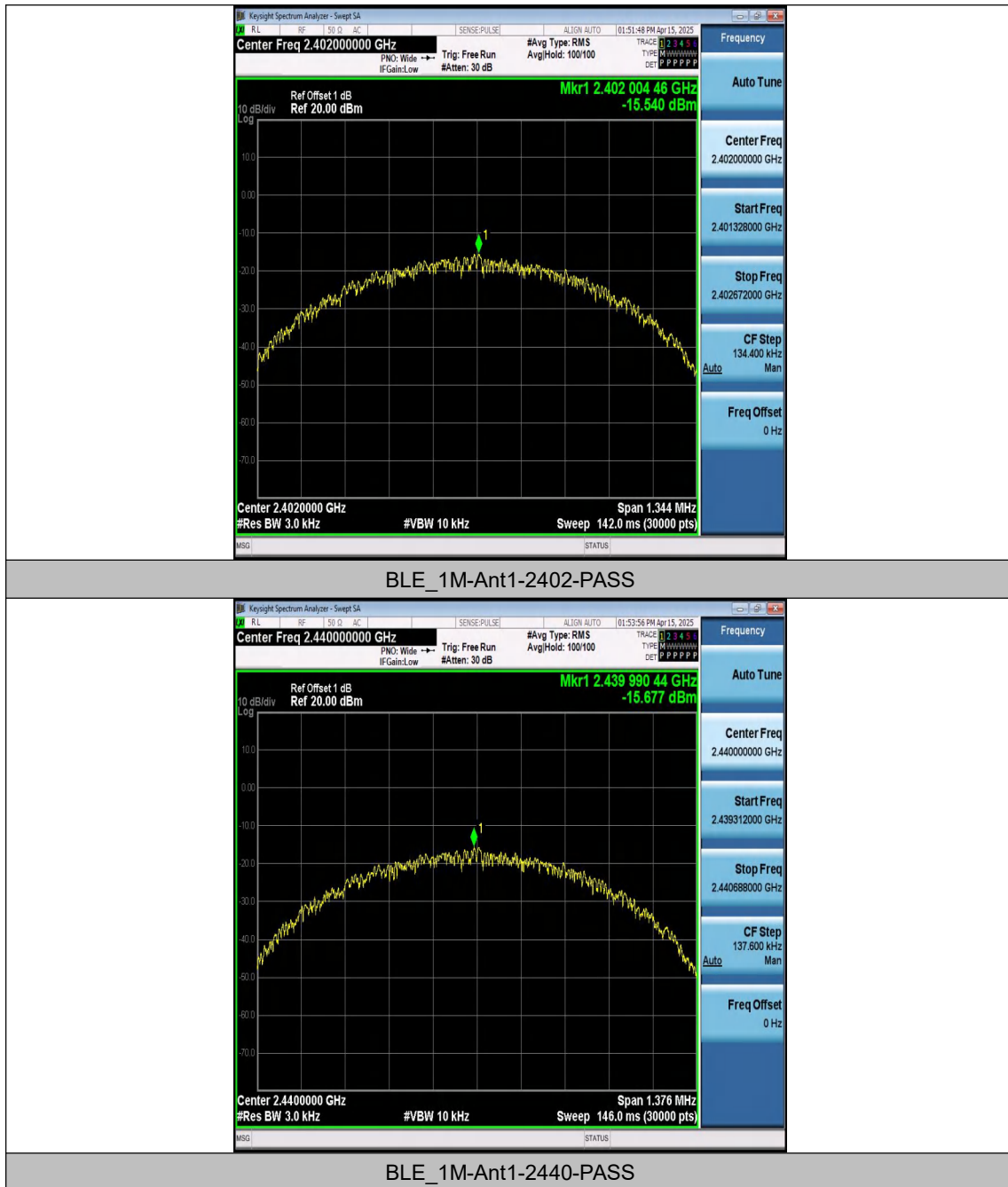
## Appendix D: Maximum power spectral density

### Test Result

| TestMode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|----------------|------------------|-----------------|---------|
| BLE_1M   | Ant1    | 2402           | -15.54           | ≤8.00           | PASS    |
| BLE_1M   | Ant1    | 2440           | -15.68           | ≤8.00           | PASS    |
| BLE_1M   | Ant1    | 2480           | -15.67           | ≤8.00           | PASS    |
| BLE_2M   | Ant1    | 2402           | -19.86           | ≤8.00           | PASS    |
| BLE_2M   | Ant1    | 2440           | -19.98           | ≤8.00           | PASS    |
| BLE_2M   | Ant1    | 2480           | -20.05           | ≤8.00           | PASS    |



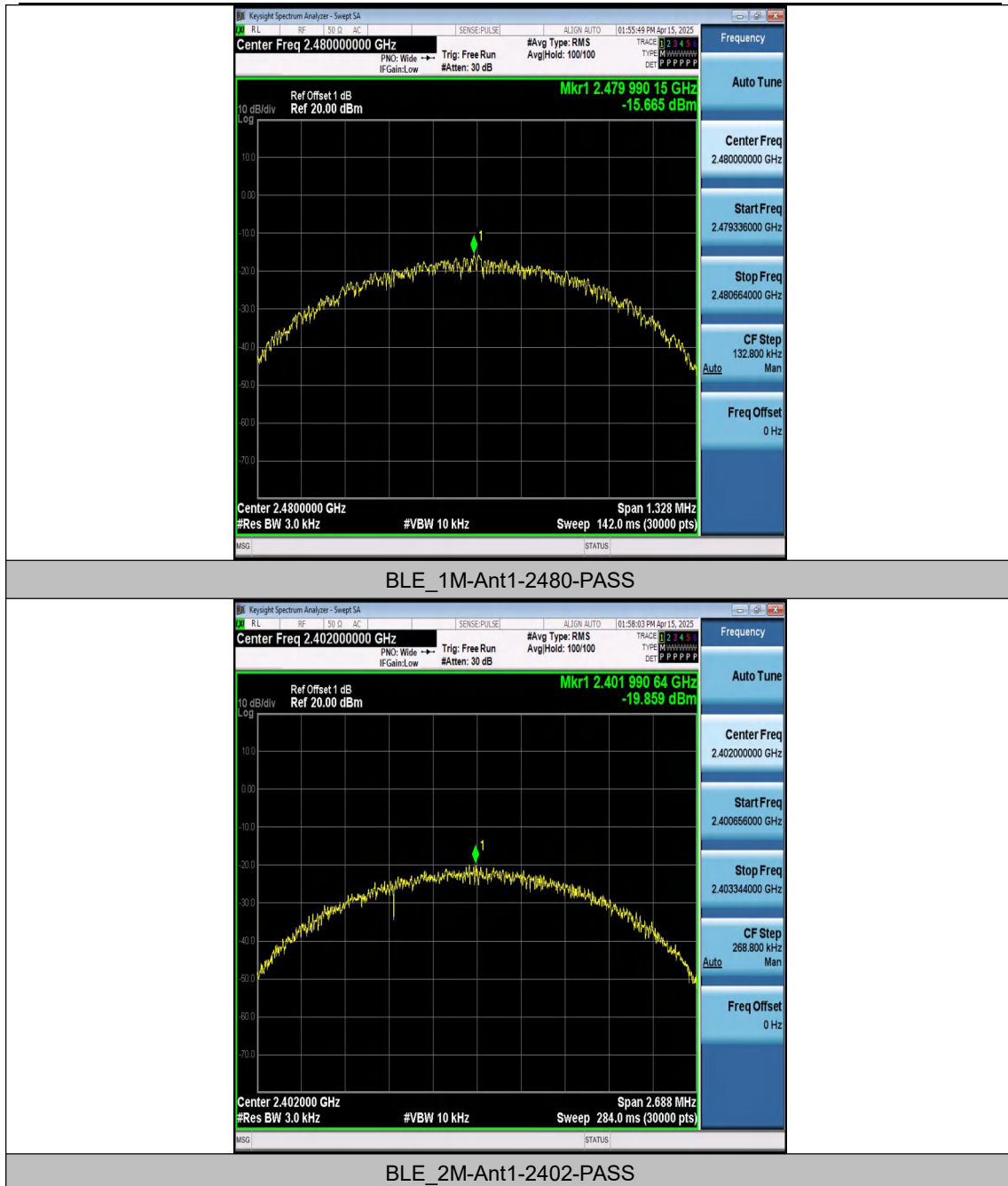
## Test Graphs



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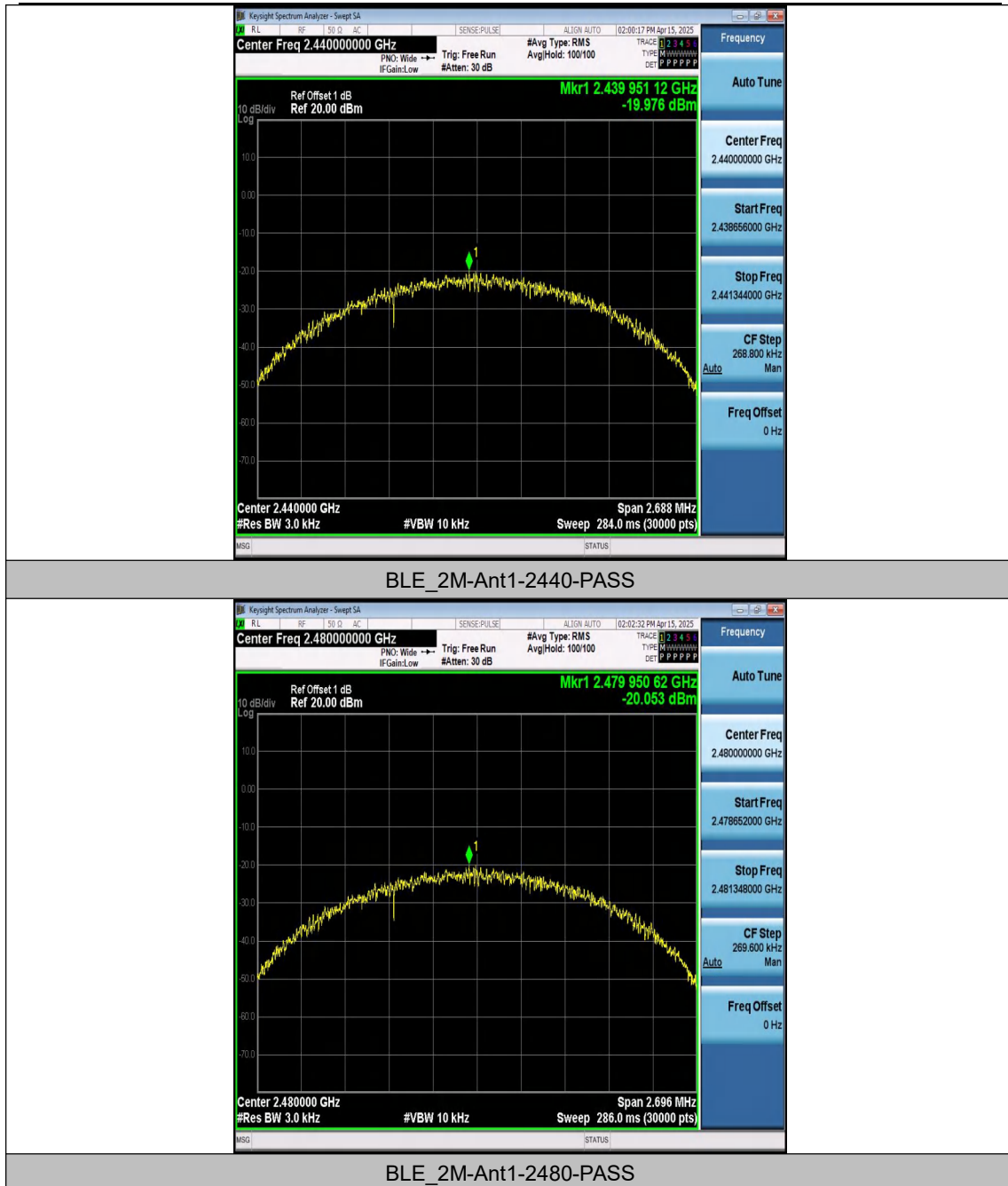
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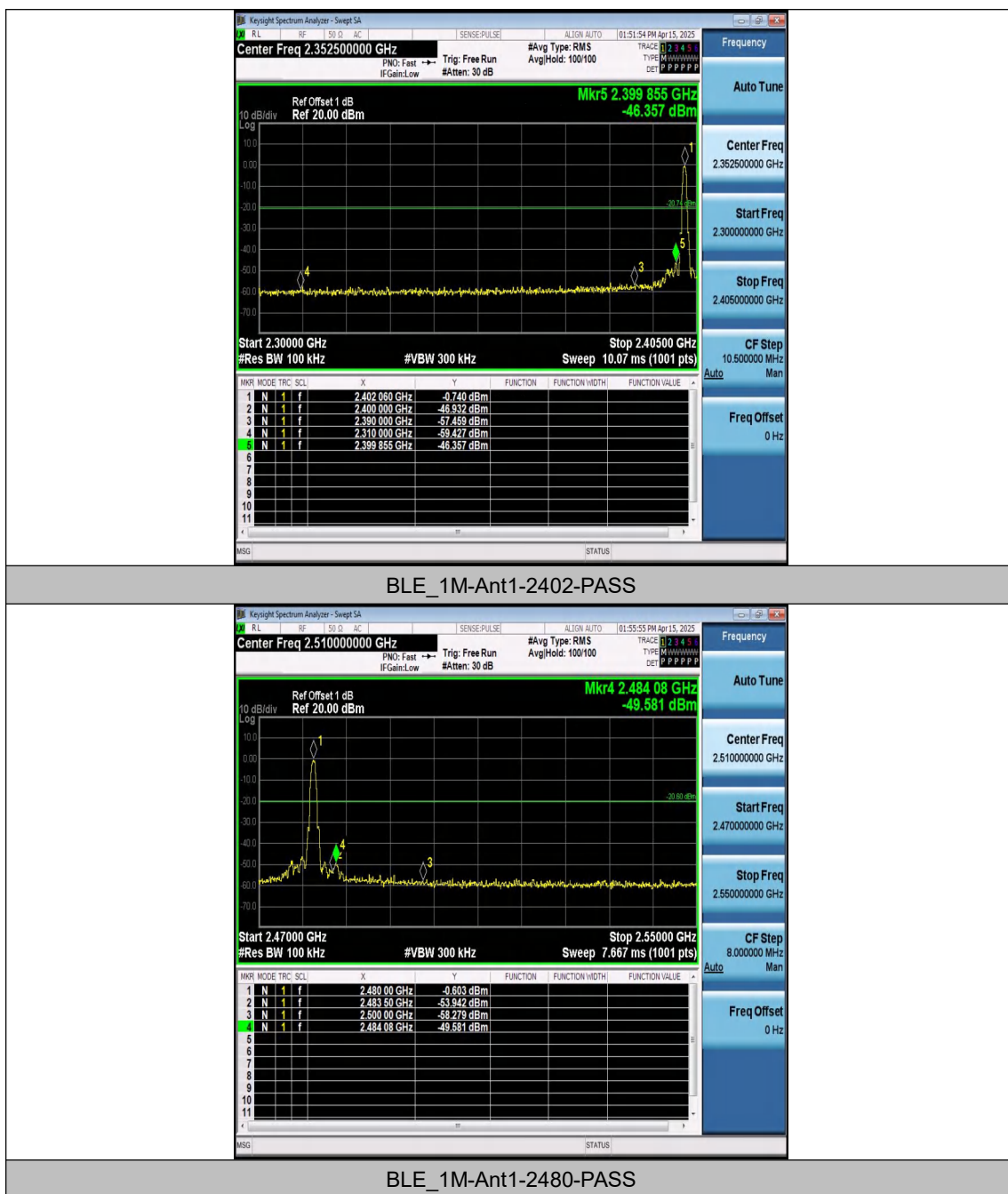
## Appendix E: Band edge measurements

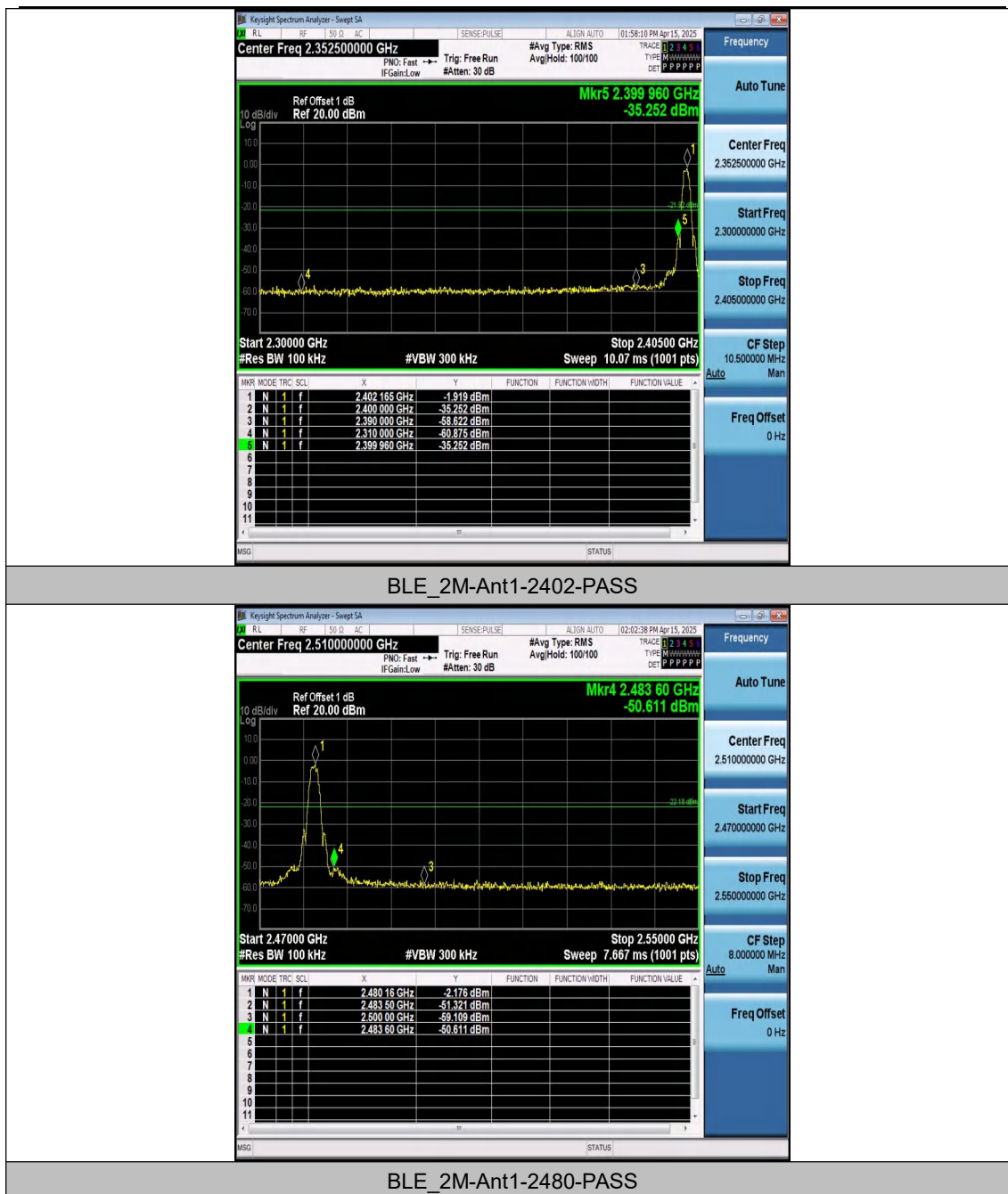
### Test Result

| Test Mode | Antenna | ChName | Frequency [MHz] | RefLevel [dBm] | Result [dBm] | Limit [dBm]   | Verdict |
|-----------|---------|--------|-----------------|----------------|--------------|---------------|---------|
| BLE_1M    | Ant1    | Low    | 2402            | -0.74          | -46.36       | $\leq -20.74$ | PASS    |
| BLE_1M    | Ant1    | High   | 2480            | -0.60          | -49.58       | $\leq -20.6$  | PASS    |
| BLE_2M    | Ant1    | Low    | 2402            | -1.92          | -35.25       | $\leq -21.92$ | PASS    |
| BLE_2M    | Ant1    | High   | 2480            | -2.18          | -50.61       | $\leq -22.18$ | PASS    |



## Test Graphs





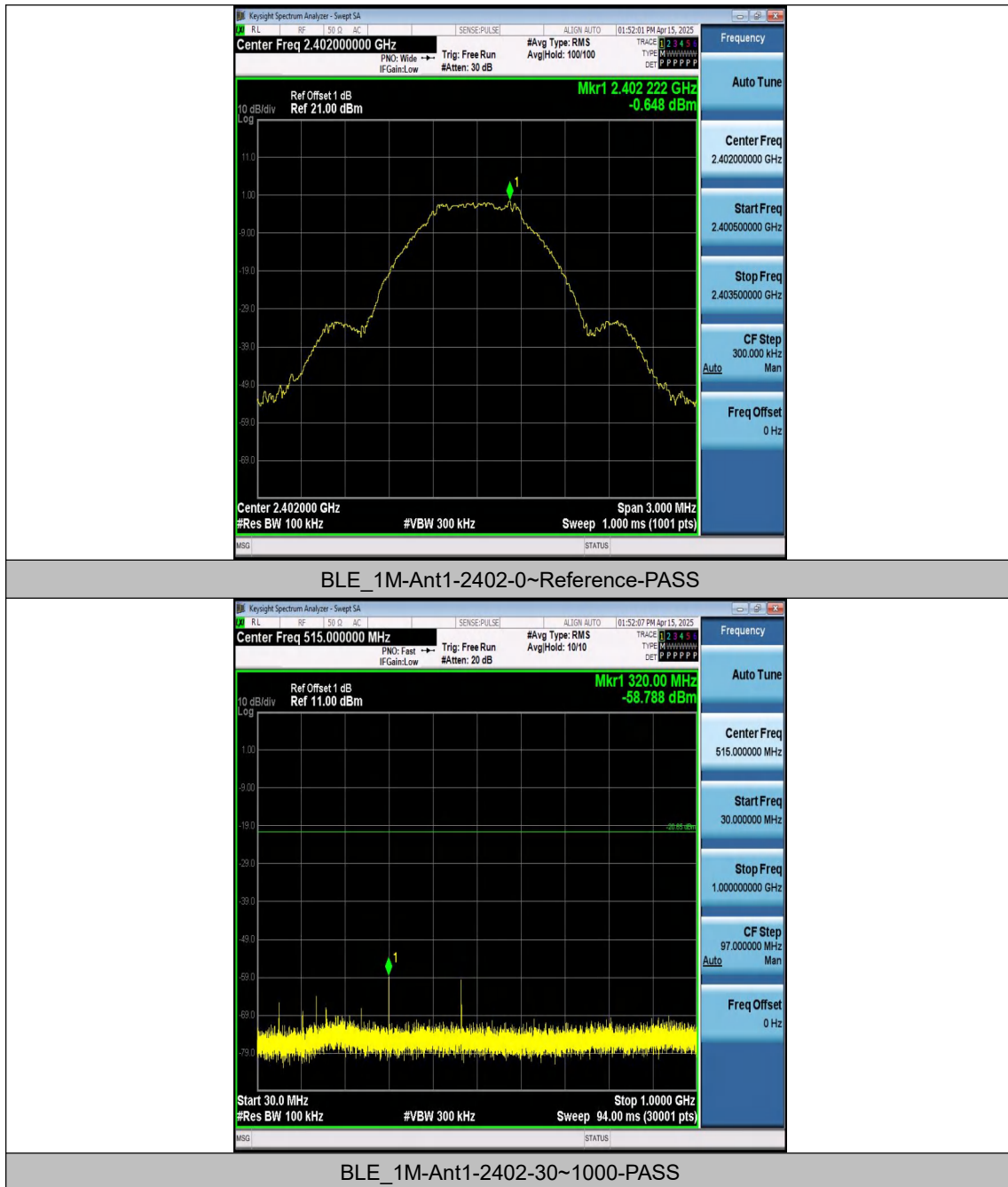
## Appendix F: Conducted Spurious Emission

### Test Result

| Test Mode | Antenna | Frequency [MHz] | Freq. Range [MHz] | Ref. Level [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|-----------------|-------------------|------------------|--------------|-------------|---------|
| BLE_1M    | Ant1    | 2402            | 0~Reference       | -0.65            | -0.65        | ---         | PASS    |
| BLE_1M    | Ant1    | 2402            | 30~1000           | -0.65            | -58.79       | ≤-20.65     | PASS    |
| BLE_1M    | Ant1    | 2402            | 1000~26500        | -0.65            | -52.91       | ≤-20.65     | PASS    |
| BLE_1M    | Ant1    | 2440            | 0~Reference       | -0.79            | -0.79        | ---         | PASS    |
| BLE_1M    | Ant1    | 2440            | 30~1000           | -0.79            | -59.13       | ≤-20.79     | PASS    |
| BLE_1M    | Ant1    | 2440            | 1000~26500        | -0.79            | -53.31       | ≤-20.79     | PASS    |
| BLE_1M    | Ant1    | 2480            | 0~Reference       | -1.10            | -1.10        | ---         | PASS    |
| BLE_1M    | Ant1    | 2480            | 30~1000           | -1.10            | -59.13       | ≤-21.1      | PASS    |
| BLE_1M    | Ant1    | 2480            | 1000~26500        | -1.10            | -53.34       | ≤-21.1      | PASS    |
| BLE_2M    | Ant1    | 2402            | 0~Reference       | -2.67            | -2.67        | ---         | PASS    |
| BLE_2M    | Ant1    | 2402            | 30~1000           | -2.67            | -59.08       | ≤-22.67     | PASS    |
| BLE_2M    | Ant1    | 2402            | 1000~26500        | -2.67            | -53.72       | ≤-22.67     | PASS    |
| BLE_2M    | Ant1    | 2440            | 0~Reference       | -2.83            | -2.83        | ---         | PASS    |
| BLE_2M    | Ant1    | 2440            | 30~1000           | -2.83            | -58.7        | ≤-22.83     | PASS    |
| BLE_2M    | Ant1    | 2440            | 1000~26500        | -2.83            | -53.87       | ≤-22.83     | PASS    |
| BLE_2M    | Ant1    | 2480            | 0~Reference       | -2.92            | -2.92        | ---         | PASS    |
| BLE_2M    | Ant1    | 2480            | 30~1000           | -2.92            | -59.13       | ≤-22.92     | PASS    |
| BLE_2M    | Ant1    | 2480            | 1000~26500        | -2.92            | -53.31       | ≤-22.92     | PASS    |



## Test Graphs



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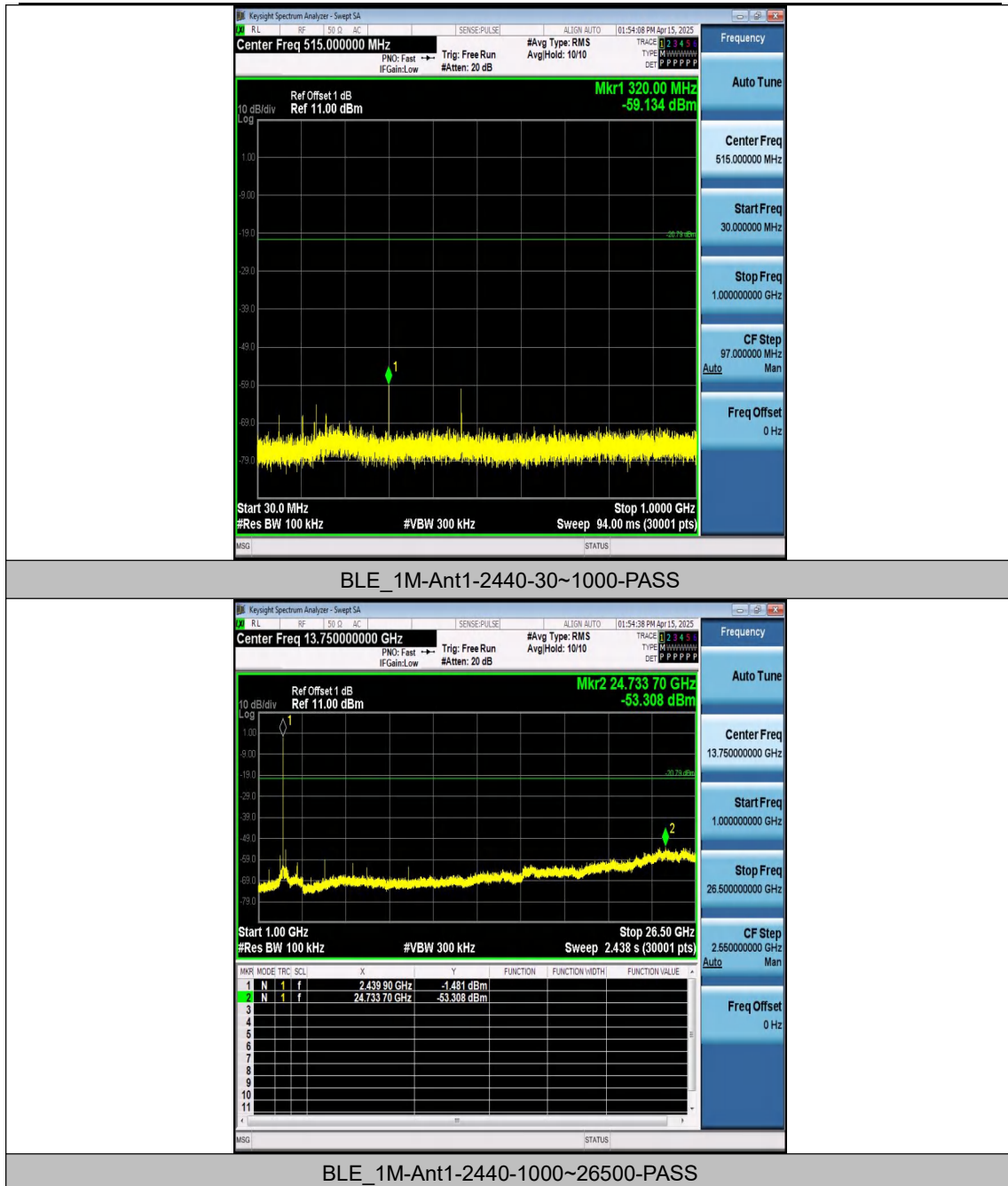
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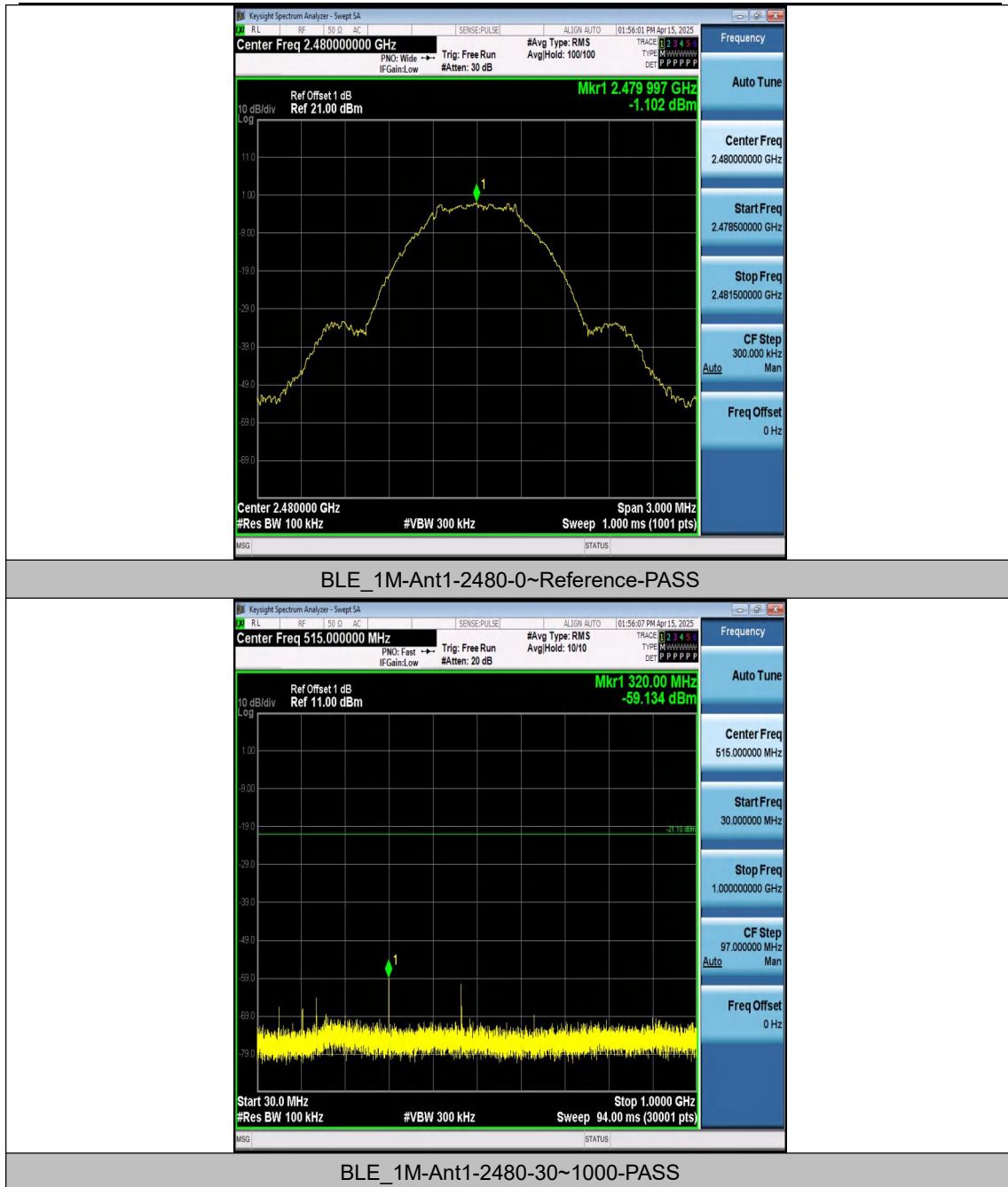
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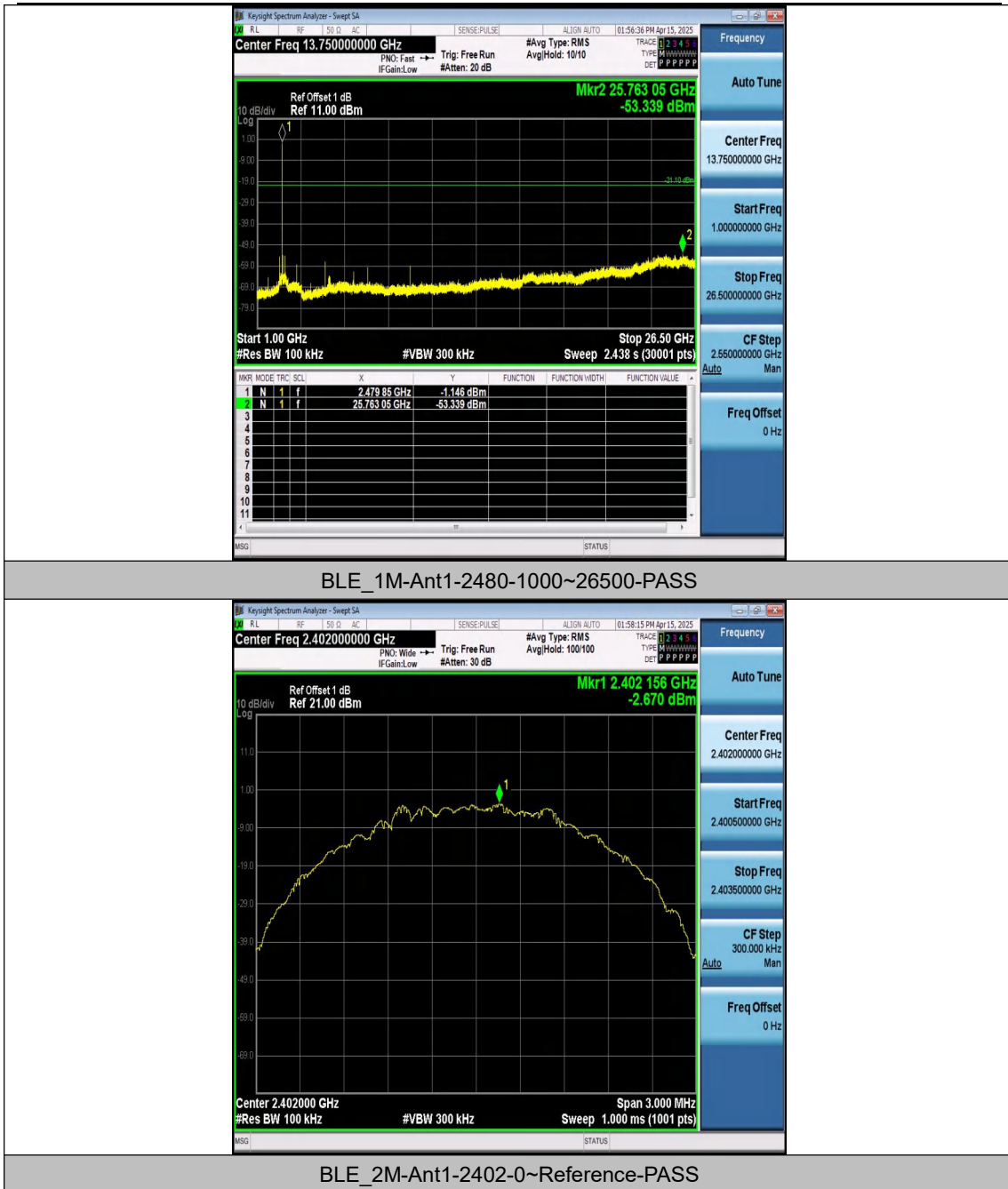
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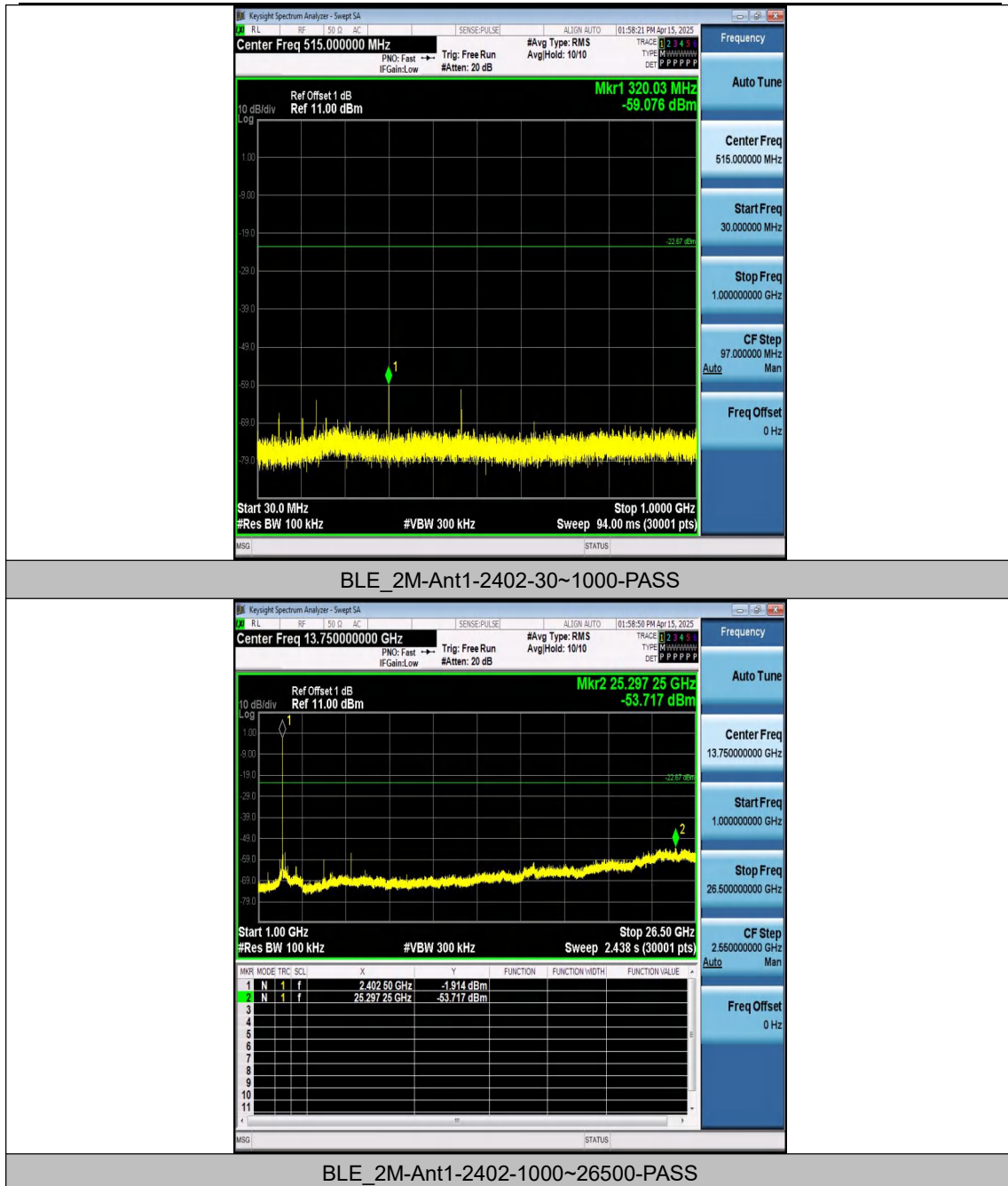


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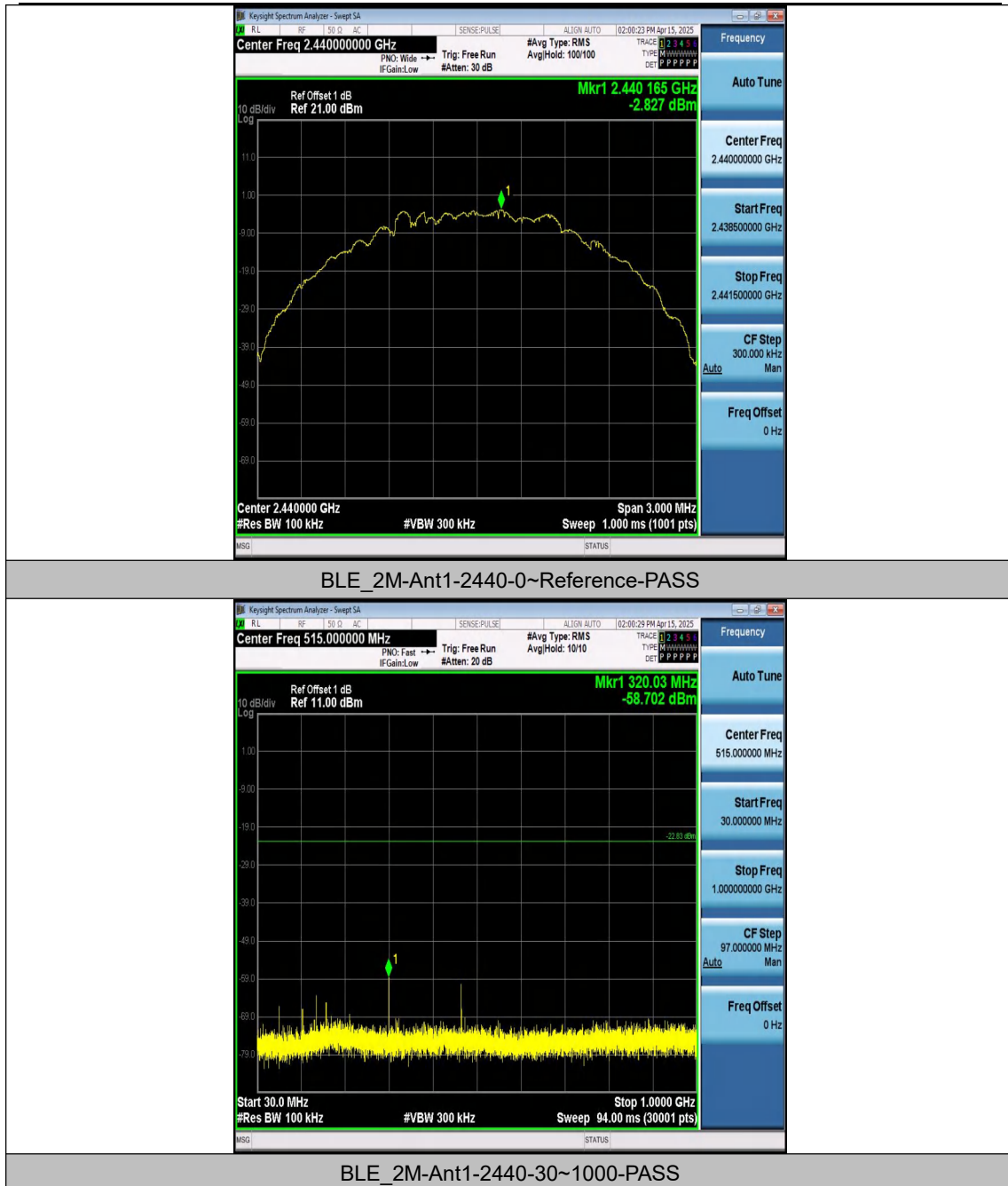
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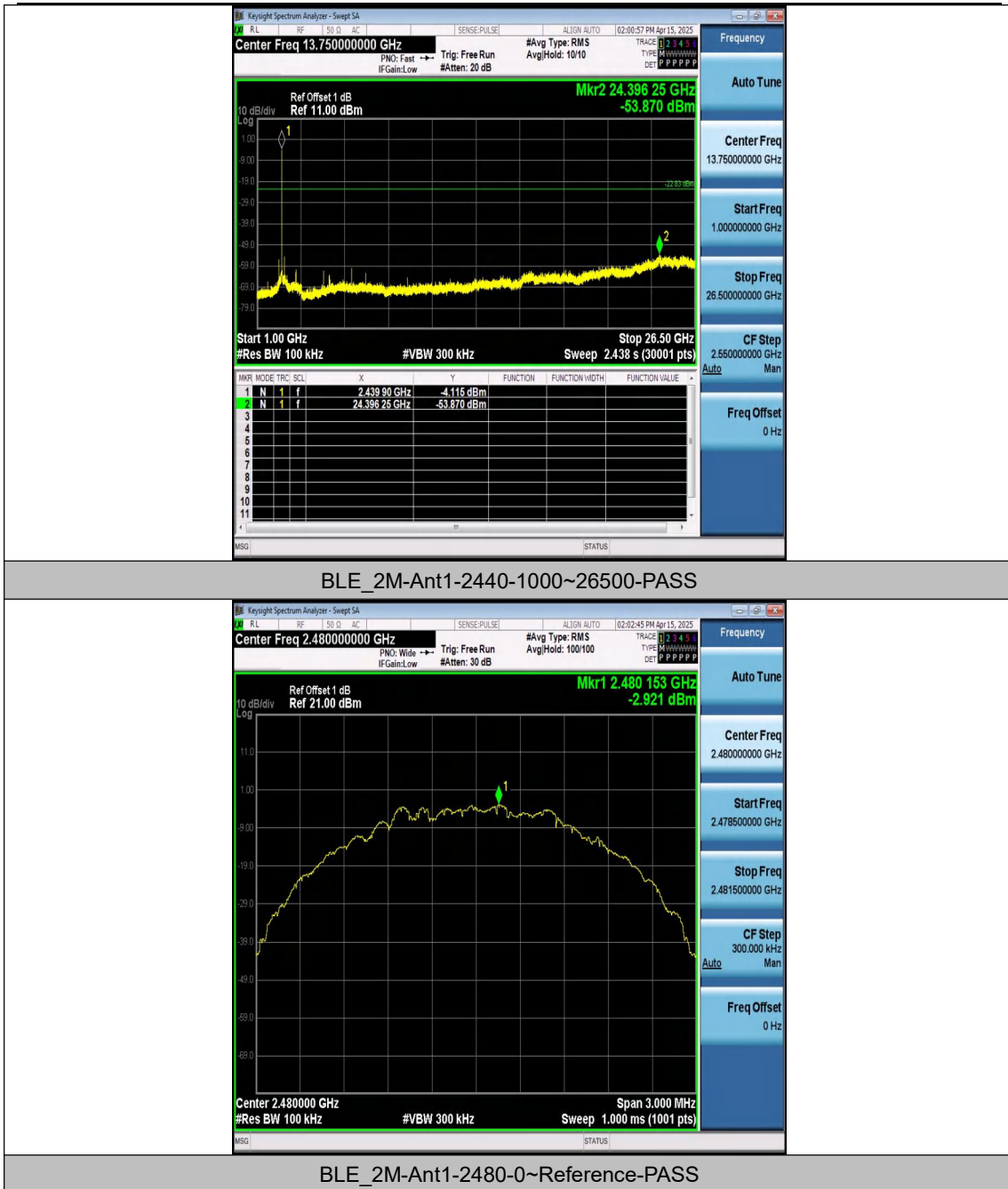
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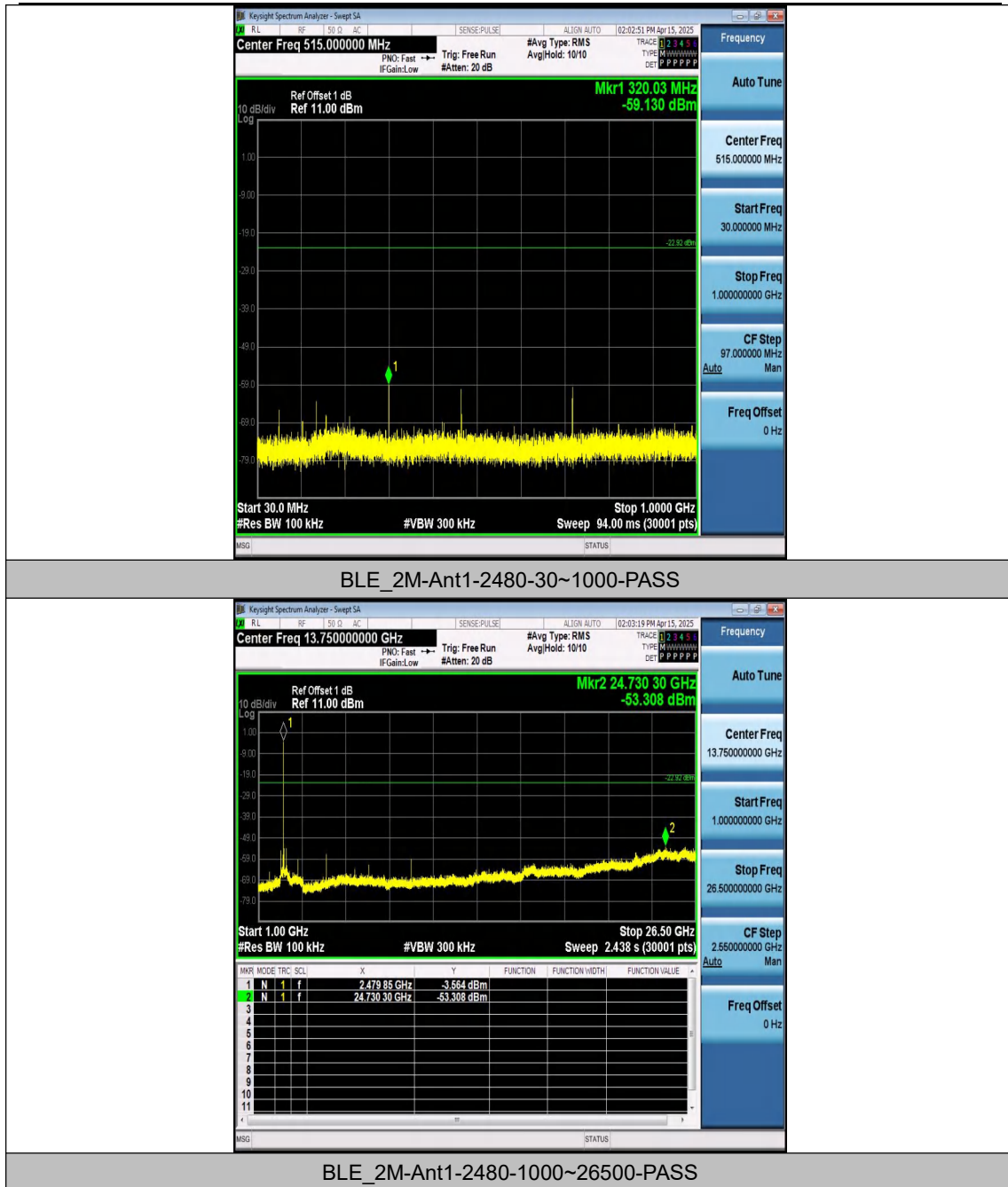


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## Appendix G: Duty Cycle

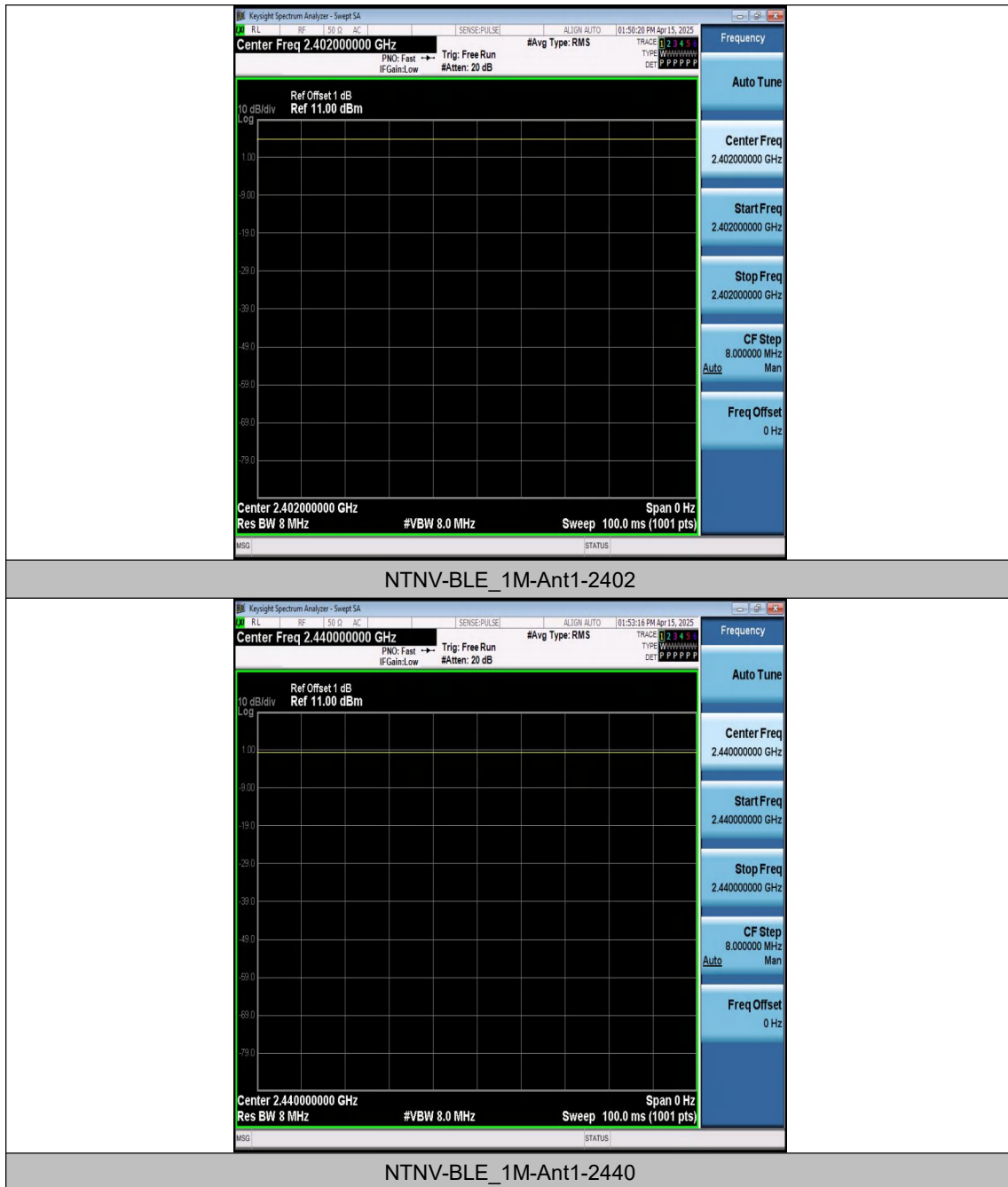
### Test Result

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

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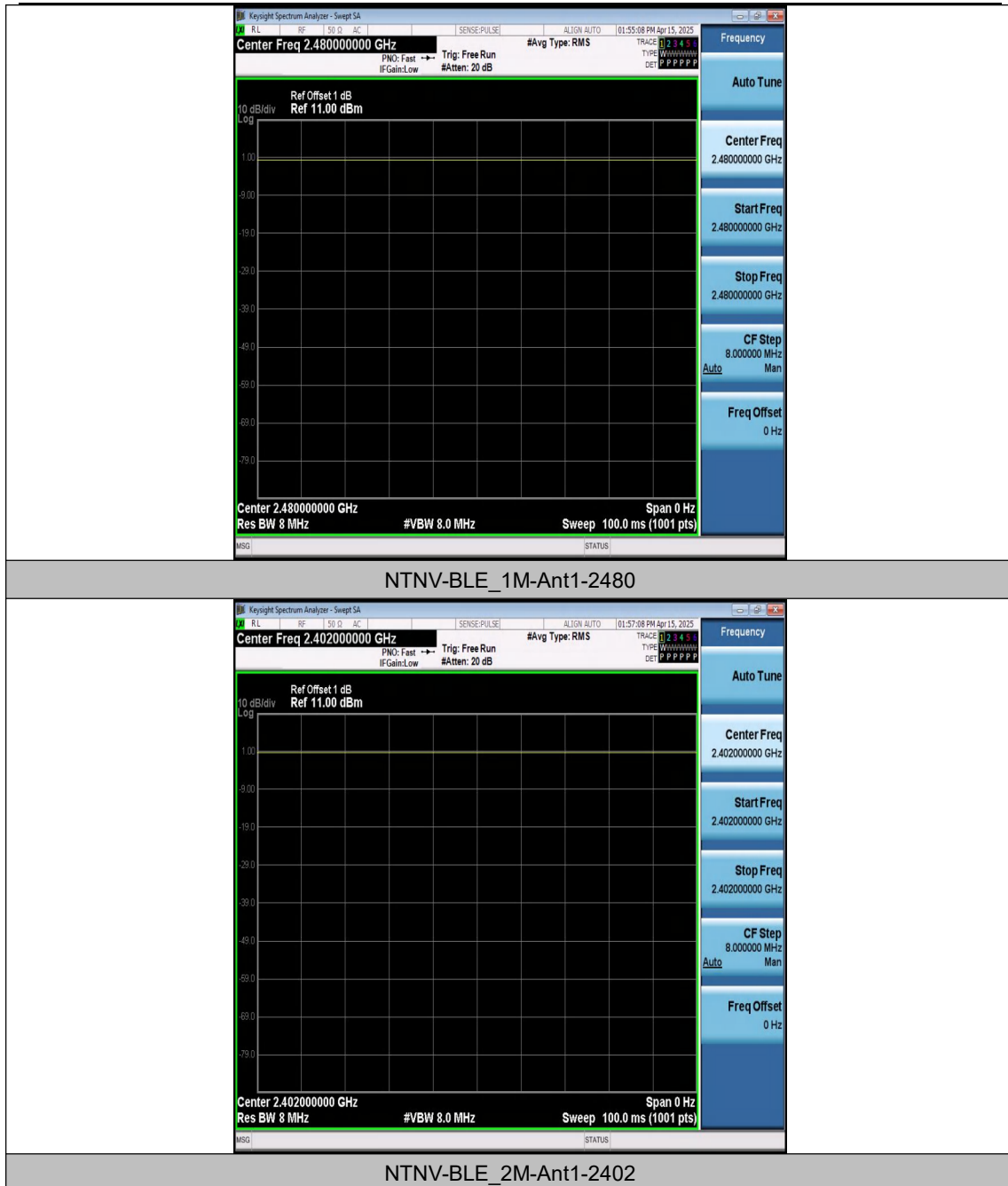
## Test Graphs



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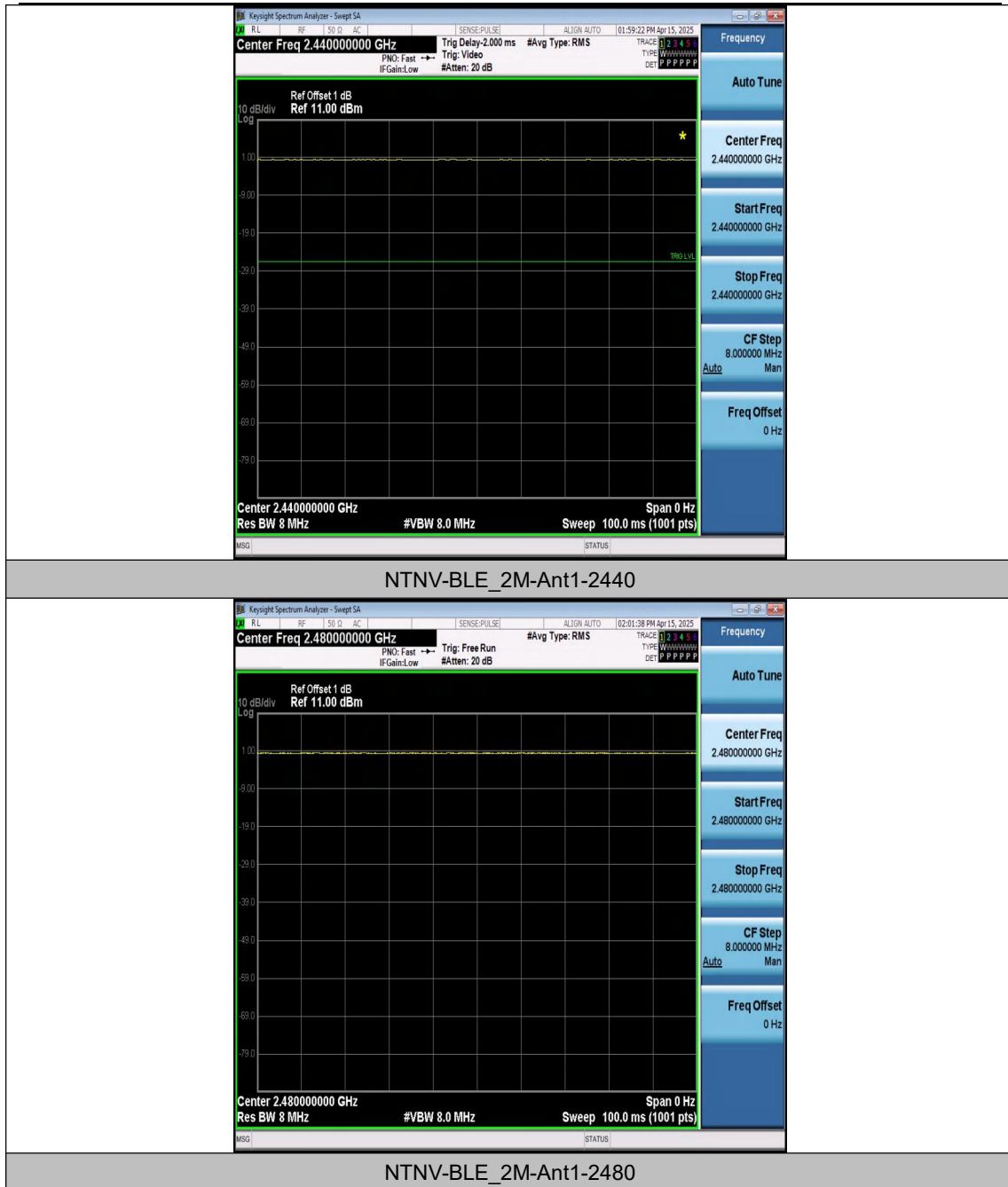
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