

## Appendix Test Data

|                  |                     |                    |                    |
|------------------|---------------------|--------------------|--------------------|
| Report No.:      | 1812C50542412501-01 | Test Sample No.:   | 1-2-2              |
| Start Test Date: | 2025-10-21          | Finish Test Date:  | 2025-10-21         |
| Test Engineer:   | <i>Alex Peng</i>    | Auditor:           | <i>Justin Feng</i> |
| Temperature:     | 22°C                | Relative Humidity: | 53%                |
| 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           | 0.664        | 2401.664 | 2402.328 | 0.5        | PASS    |
| BLE_1M    | Ant1    | 2440           | 0.648        | 2439.684 | 2440.332 | 0.5        | PASS    |
| BLE_1M    | Ant1    | 2480           | 0.652        | 2479.684 | 2480.336 | 0.5        | PASS    |

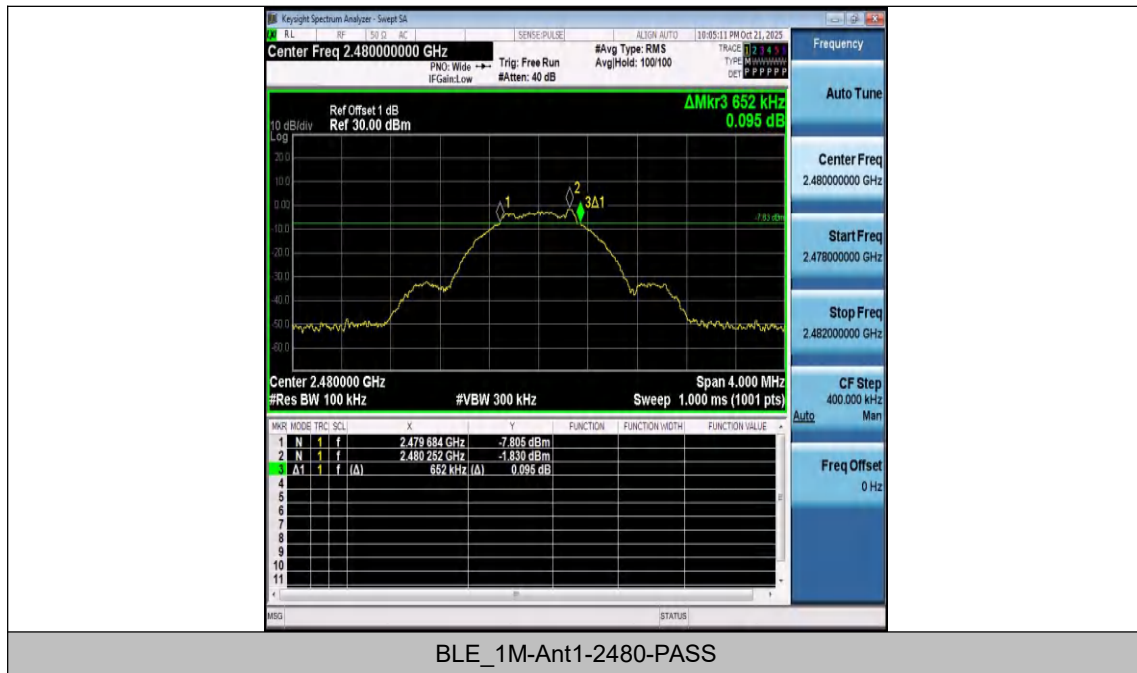
## Test Graphs



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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           | 1.0335    | 2401.4874 | 2402.5209 | ---        | ---     |
| BLE_1M    | Ant1    | 2440           | 1.0327    | 2439.4881 | 2440.5208 | ---        | ---     |
| BLE_1M    | Ant1    | 2480           | 1.0269    | 2479.4922 | 2480.5191 | ---        | ---     |

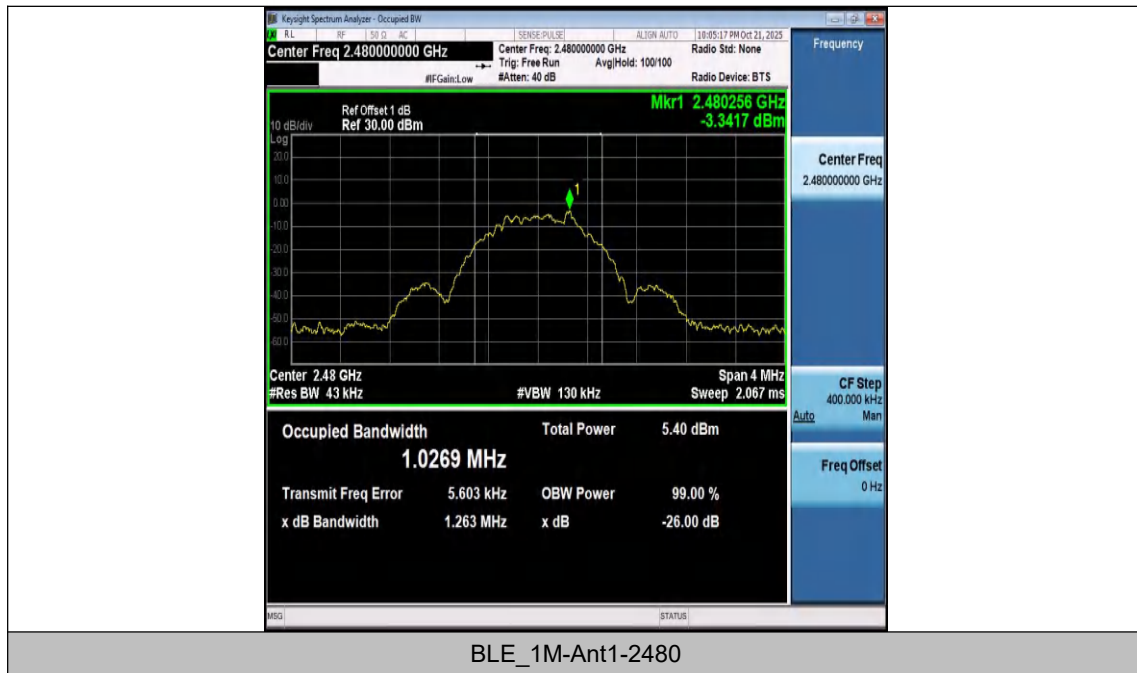
## Test Graphs



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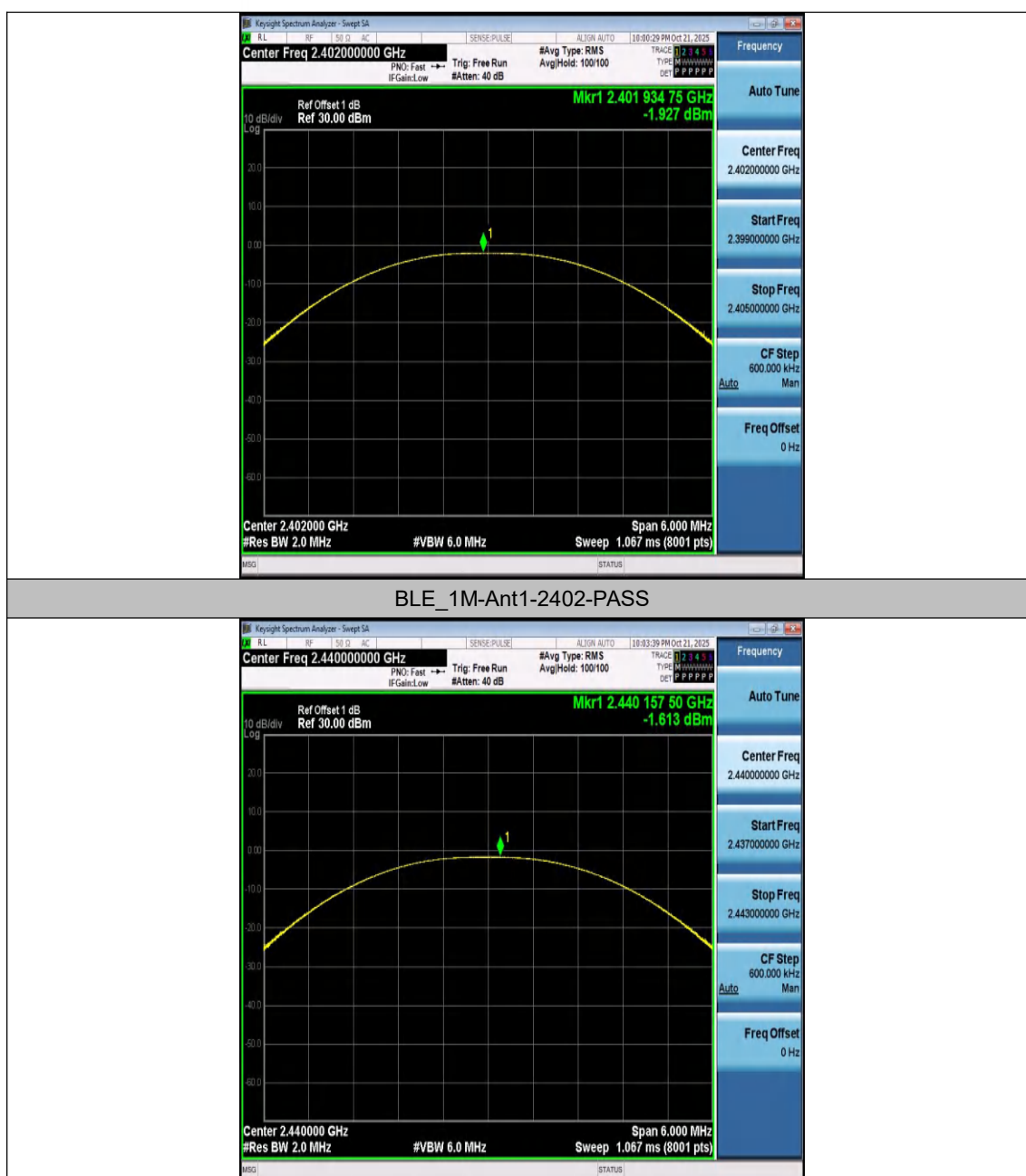
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## Appendix C: Maximum conducted output power

### Test Result Peak

| Test Mode | Antenna | Frequency [MHz] | Conducted Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|-----------|---------|-----------------|---------------------------|----------------------|---------|
| BLE_1M    | Ant1    | 2402            | -1.93                     | ≤30                  | PASS    |
| BLE_1M    | Ant1    | 2440            | -1.61                     | ≤30                  | PASS    |
| BLE_1M    | Ant1    | 2480            | <b>-1.48</b>              | ≤30                  | PASS    |

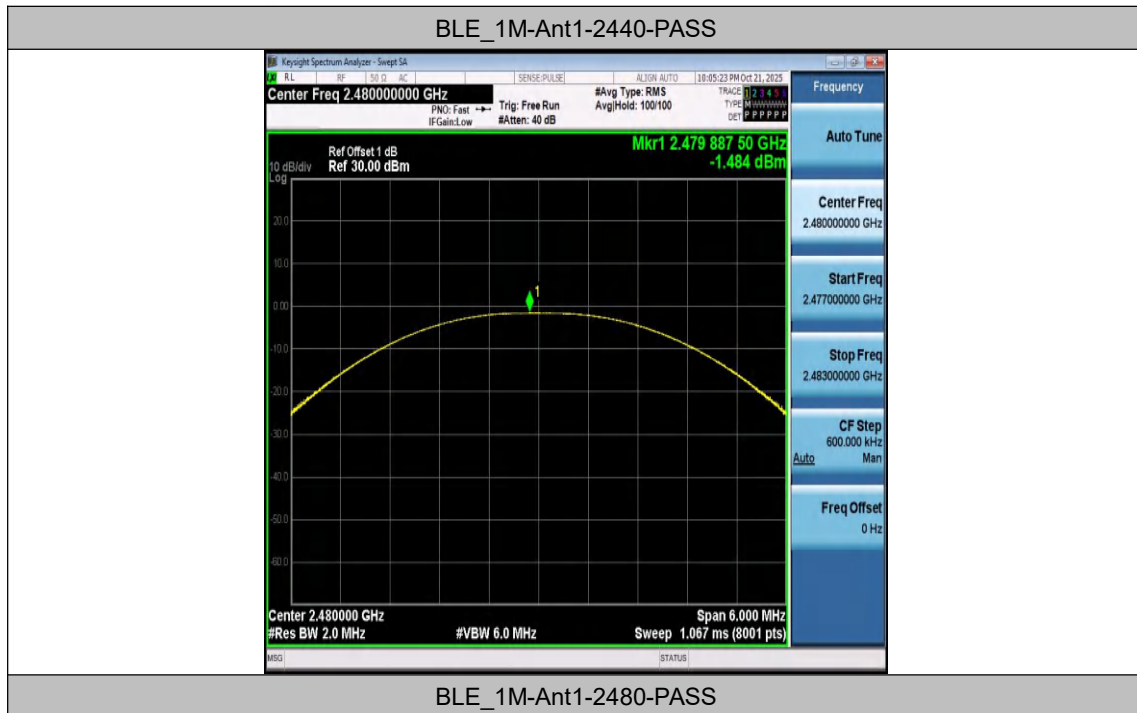
### Test Graphs Peak



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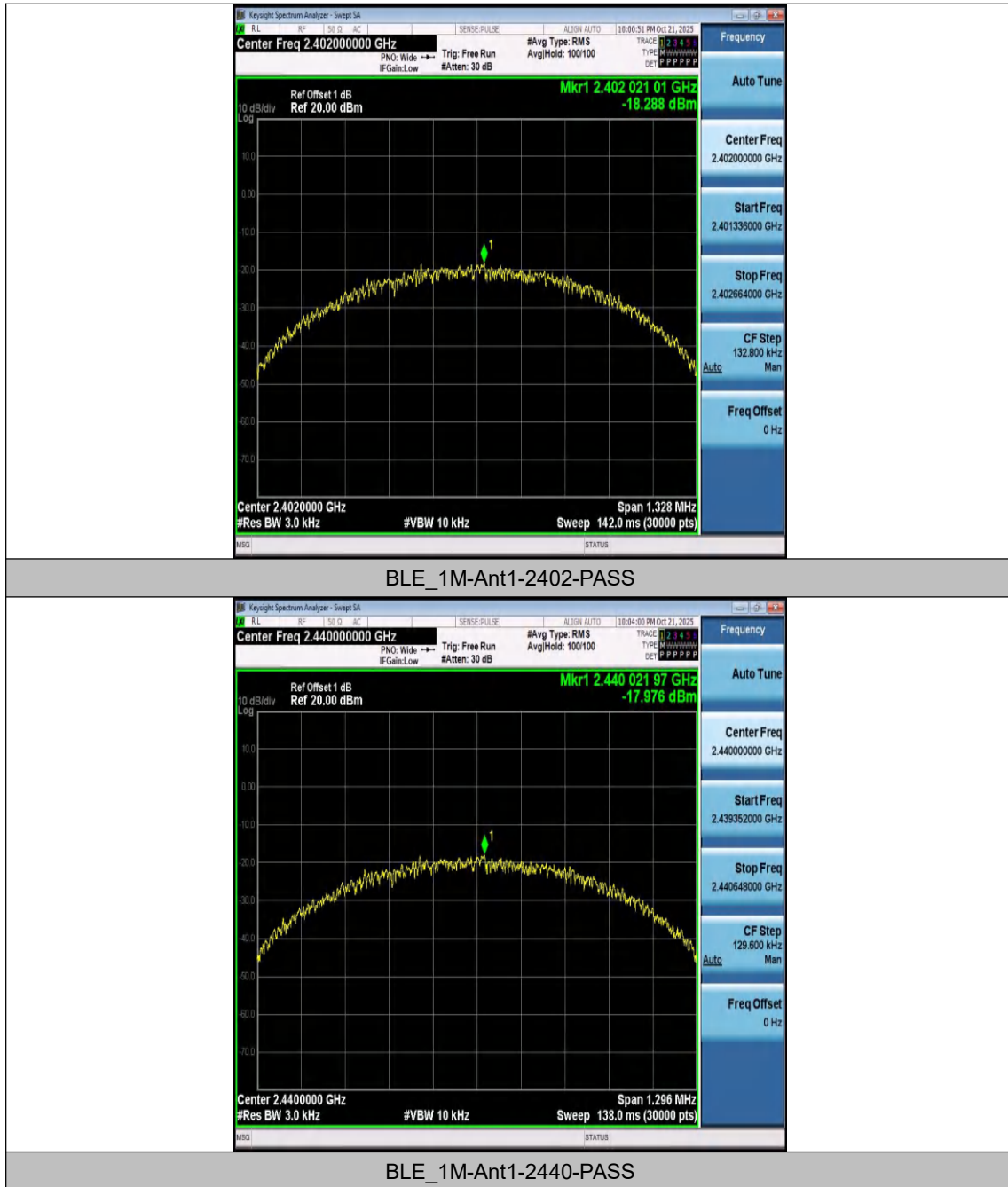
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## Appendix D: Maximum power spectral density

### Test Result

| TestMode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|----------------|------------------|-----------------|---------|
| BLE_1M   | Ant1    | 2402           | -18.29           | ≤8.00           | PASS    |
| BLE_1M   | Ant1    | 2440           | -17.98           | ≤8.00           | PASS    |
| BLE_1M   | Ant1    | 2480           | -17.72           | ≤8.00           | PASS    |

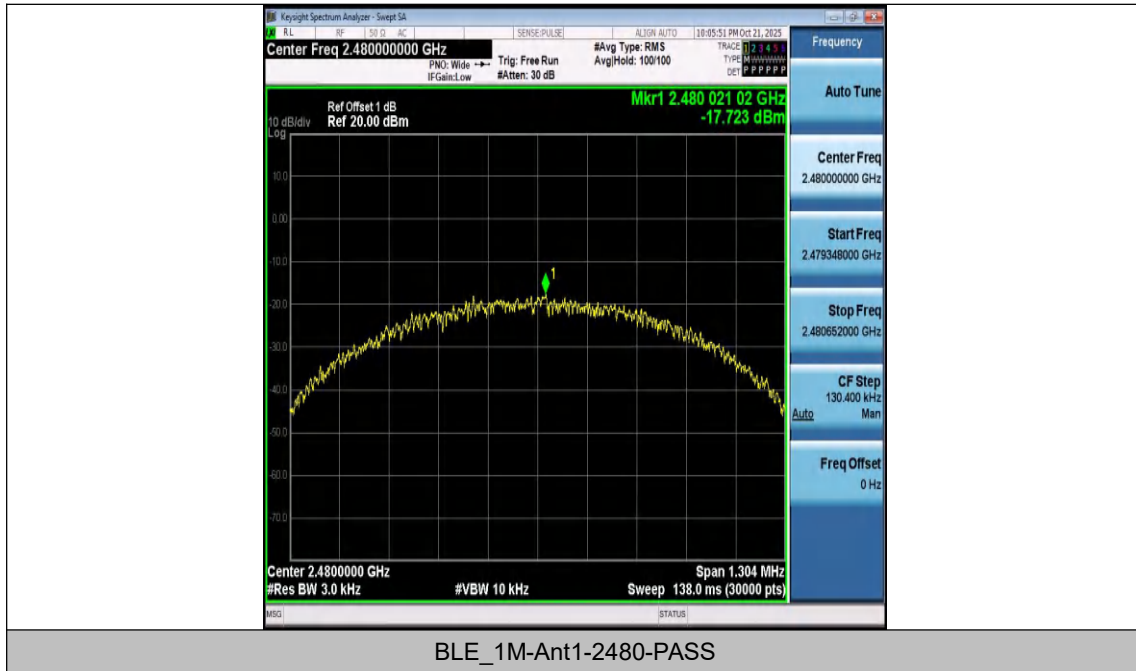
## Test Graphs



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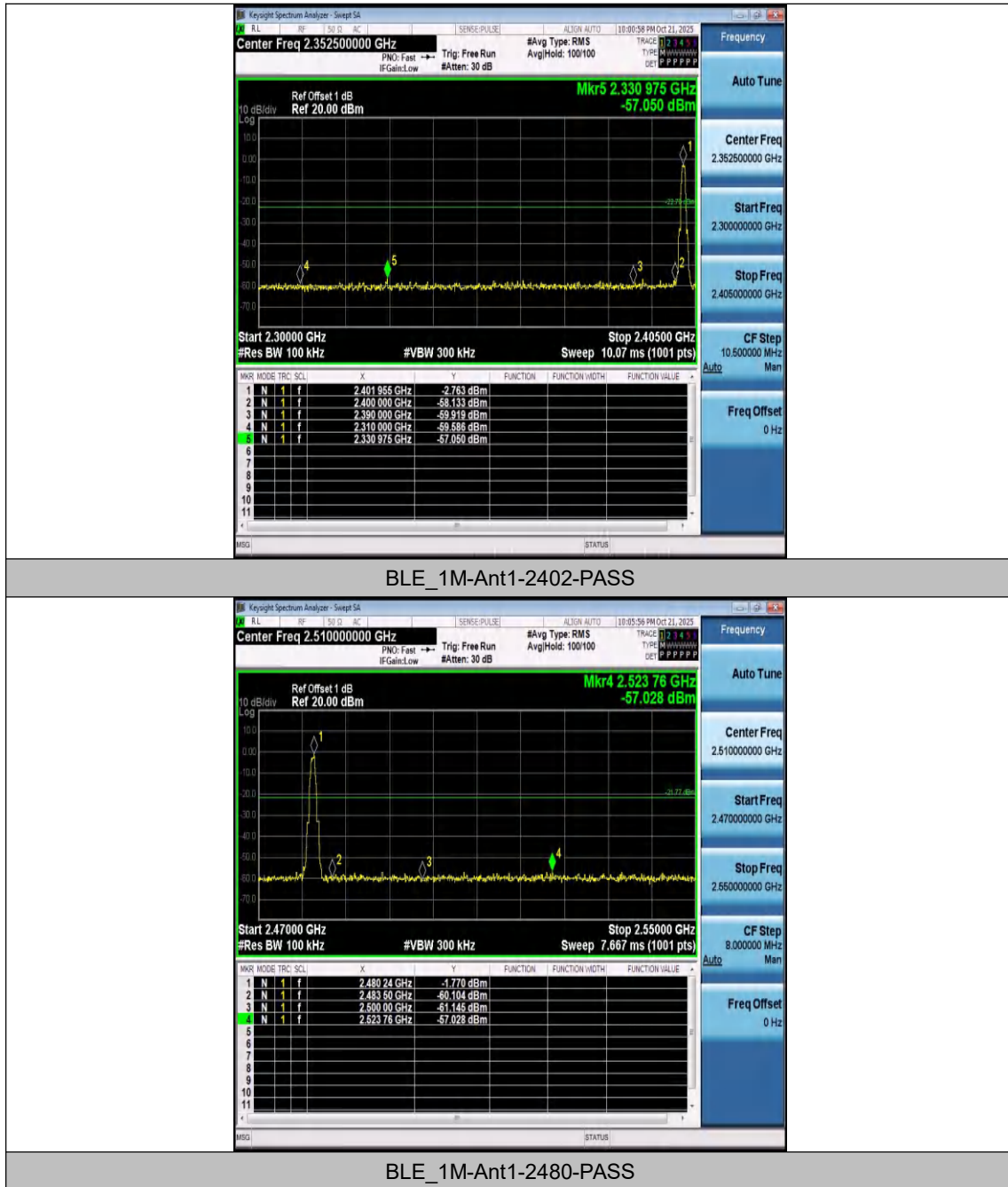
## Appendix E: Band edge measurements

### Test Result

| Test Mode | Antenna | ChName | Frequency [MHz] | RefLevel [dBm] | Result [dBm] | Limit [dBm]   | Verdict |
|-----------|---------|--------|-----------------|----------------|--------------|---------------|---------|
| BLE_1M    | Ant1    | Low    | 2402            | -2.76          | -57.05       | $\leq -22.76$ | PASS    |
| BLE_1M    | Ant1    | High   | 2480            | -1.77          | -57.03       | $\leq -21.77$ | PASS    |

Remark: Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose have been set in the 'offset' of the Spectrum Analyzer during the test.

## Test Graphs



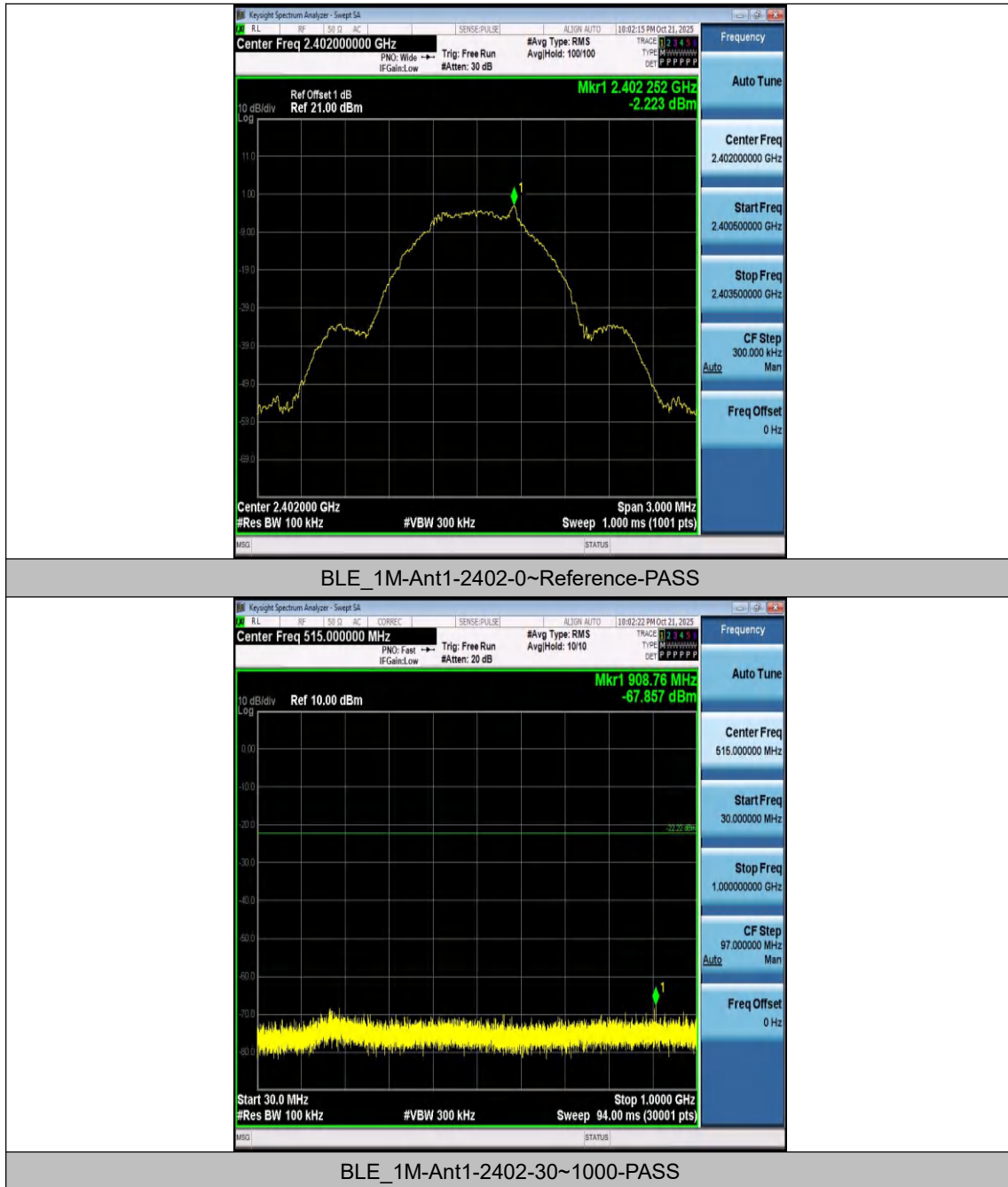
## Appendix F: Conducted Spurious Emission

### Test Result

| Test Mode | Antenna | Frequency [MHz] | Freq. Range [MHz] | Ref. Level [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|-----------------|-------------------|------------------|--------------|-------------|---------|
| BLE_1M    | Ant1    | 2402            | 0~Reference       | -2.22            | -2.22        | ---         | PASS    |
| BLE_1M    | Ant1    | 2402            | 30~1000           | -2.22            | -67.86       | ≤-22.22     | PASS    |
| BLE_1M    | Ant1    | 2402            | 1000~26500        | -2.22            | -54.5        | ≤-22.22     | PASS    |
| BLE_1M    | Ant1    | 2440            | 0~Reference       | -2.20            | -2.20        | ---         | PASS    |
| BLE_1M    | Ant1    | 2440            | 30~1000           | -2.20            | -65.18       | ≤-22.2      | PASS    |
| BLE_1M    | Ant1    | 2440            | 1000~26500        | -2.20            | -53.51       | ≤-22.2      | PASS    |
| BLE_1M    | Ant1    | 2480            | 0~Reference       | -2.20            | -2.20        | ---         | PASS    |
| BLE_1M    | Ant1    | 2480            | 30~1000           | -2.20            | -45.36       | ≤-22.2      | PASS    |
| BLE_1M    | Ant1    | 2480            | 1000~26500        | -2.20            | -54.01       | ≤-22.2      | PASS    |

Remark:Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose and attenuator factors have been set in the 'Input Correction' of the Spectrum Analyzer during the test.

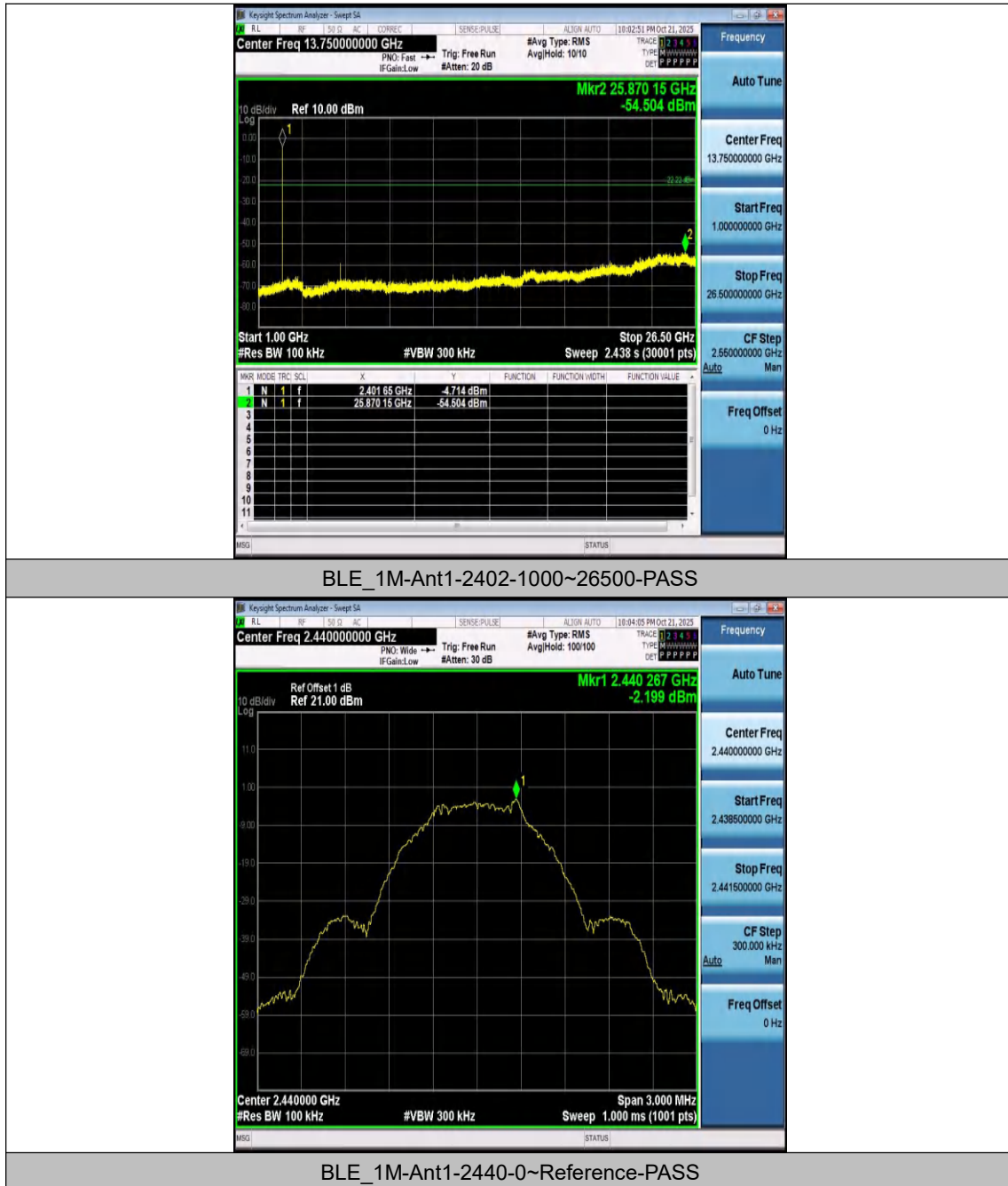
## Test Graphs



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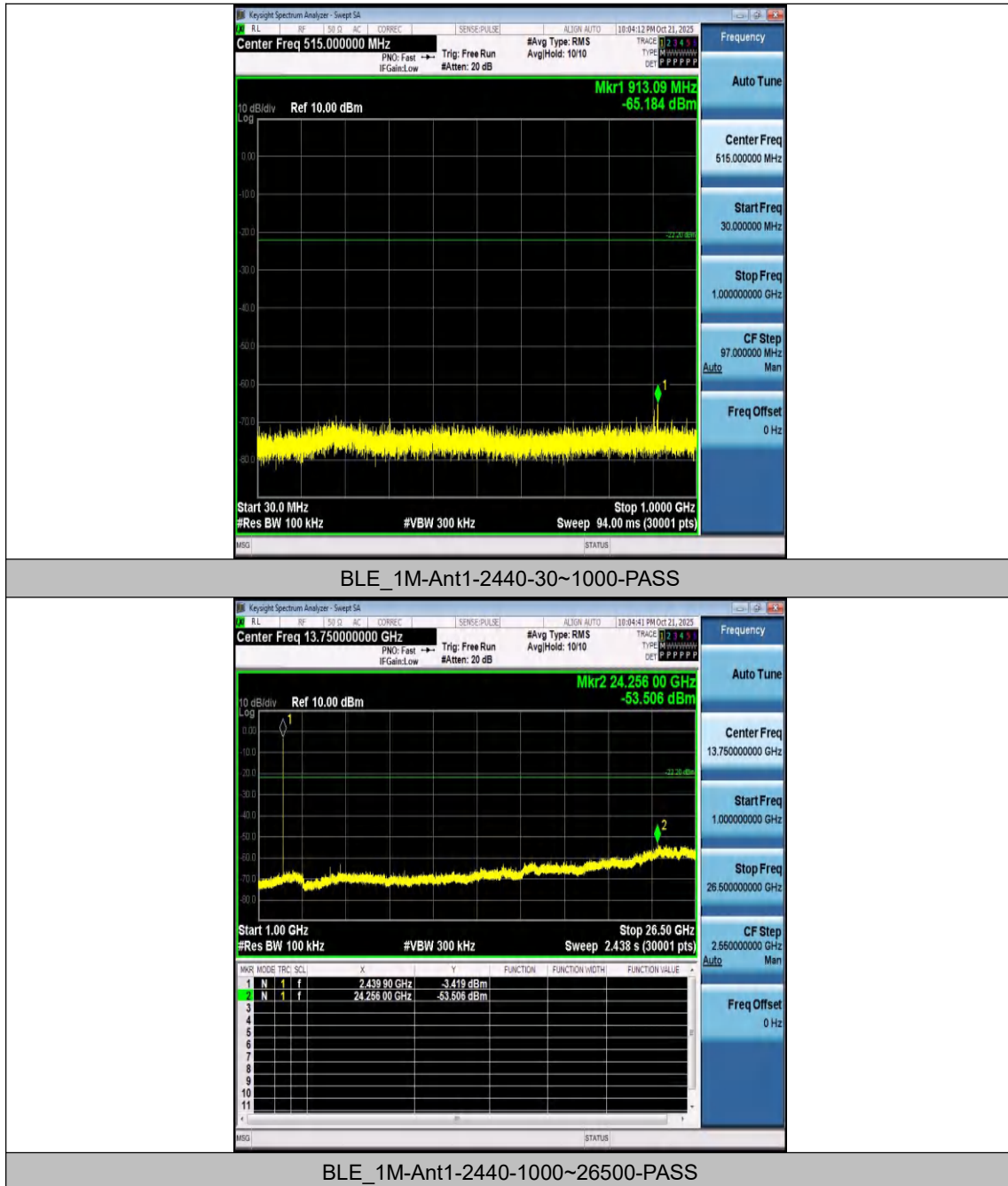
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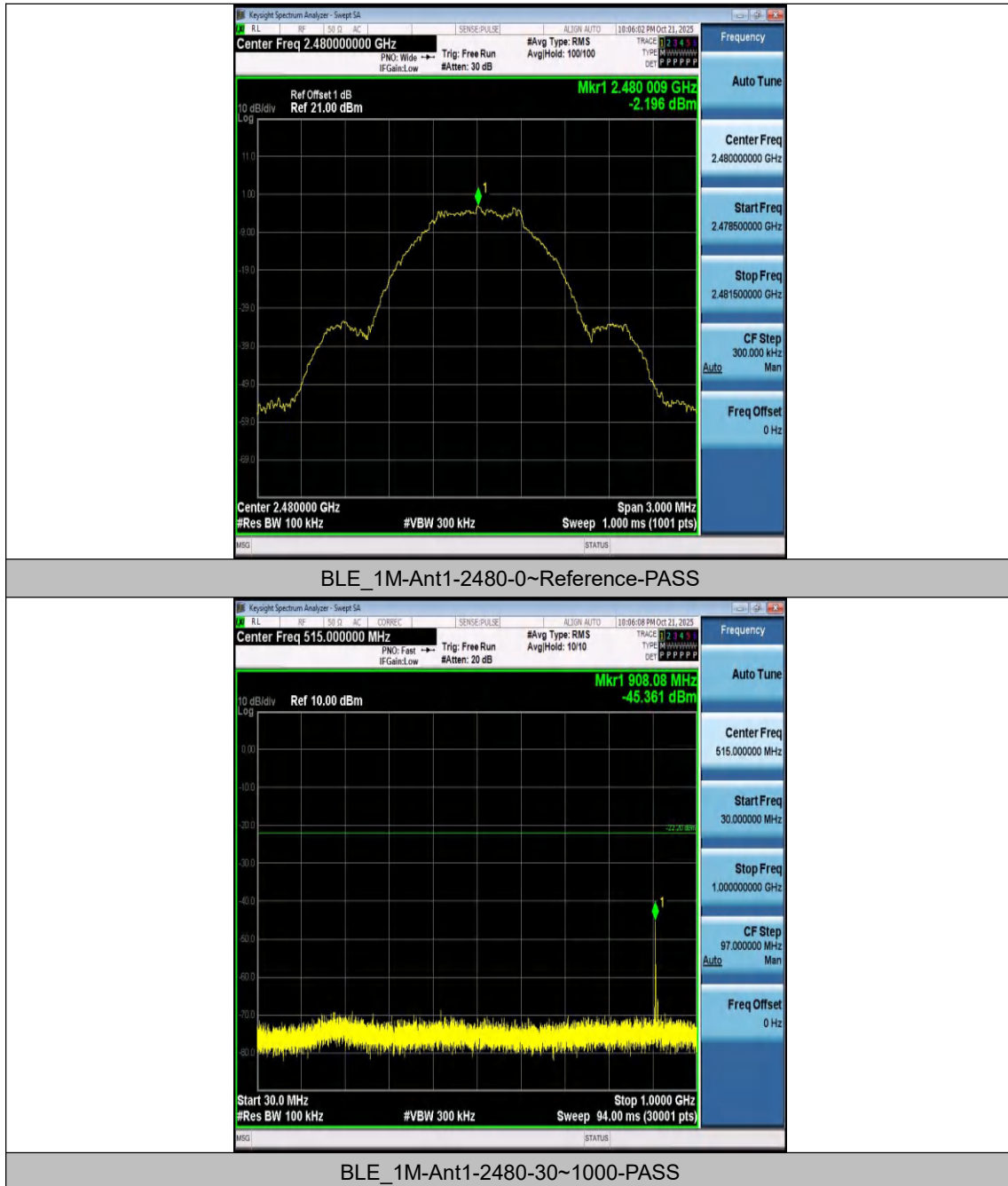
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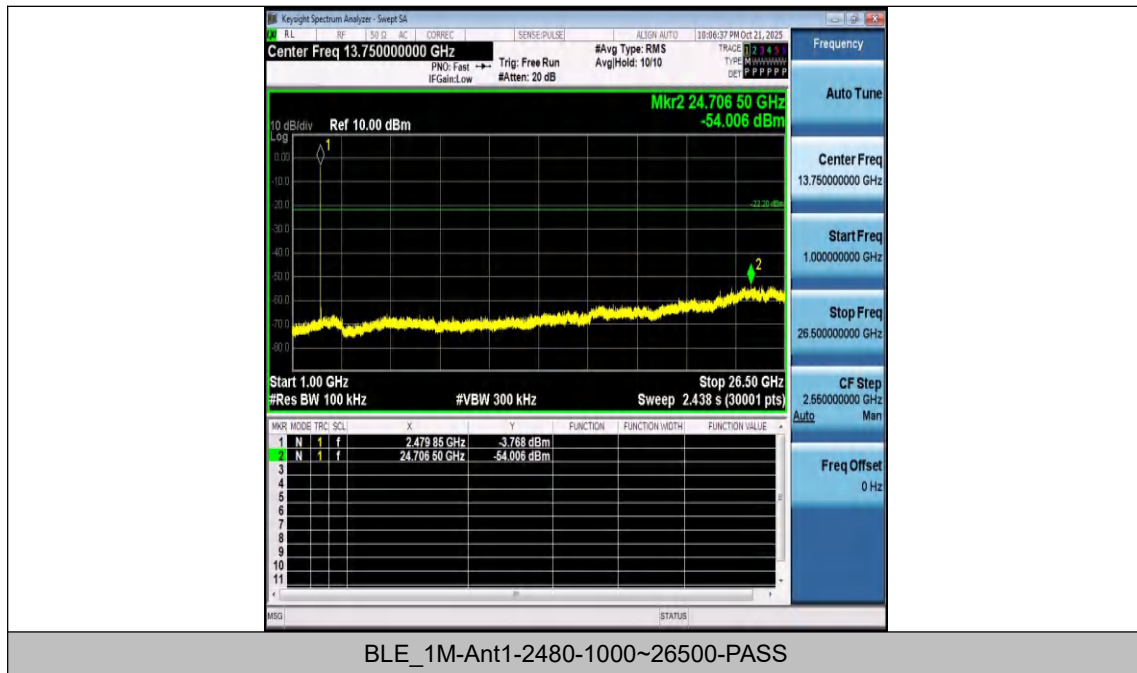
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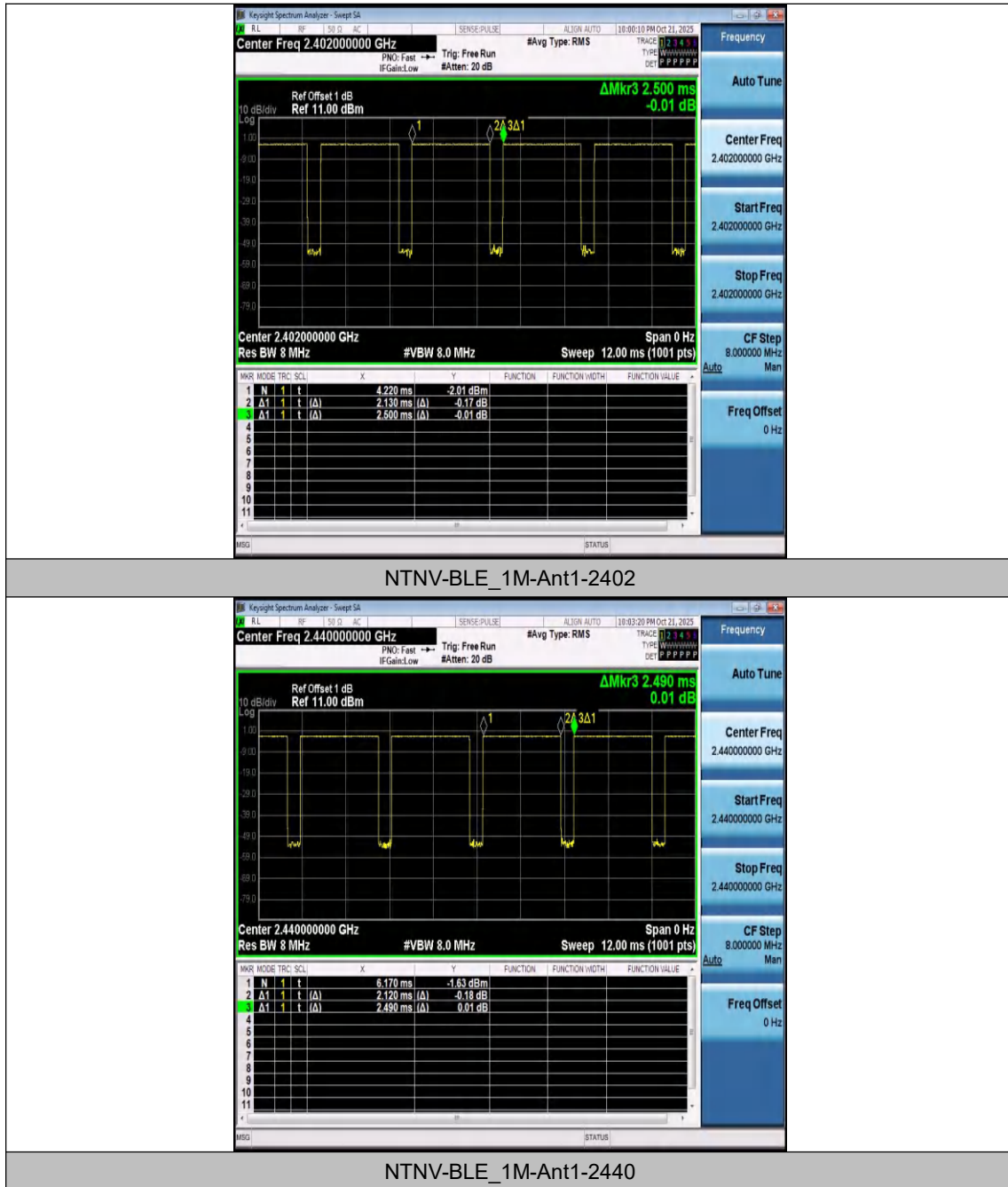
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## Appendix G: Duty Cycle

### Test Result

| Test Mode | Antenna | Frequency [MHz] | ON Time [ms] | Period [ms] | Duty Cycle [%] | Duty Cycle Factor[dB] |
|-----------|---------|-----------------|--------------|-------------|----------------|-----------------------|
| BLE_1M    | Ant1    | 2402            | 2.13         | 2.50        | 85.20          | 0.70                  |
| BLE_1M    | Ant1    | 2440            | 2.12         | 2.49        | 85.14          | 0.70                  |
| BLE_1M    | Ant1    | 2480            | 2.12         | 2.49        | 85.14          | 0.70                  |

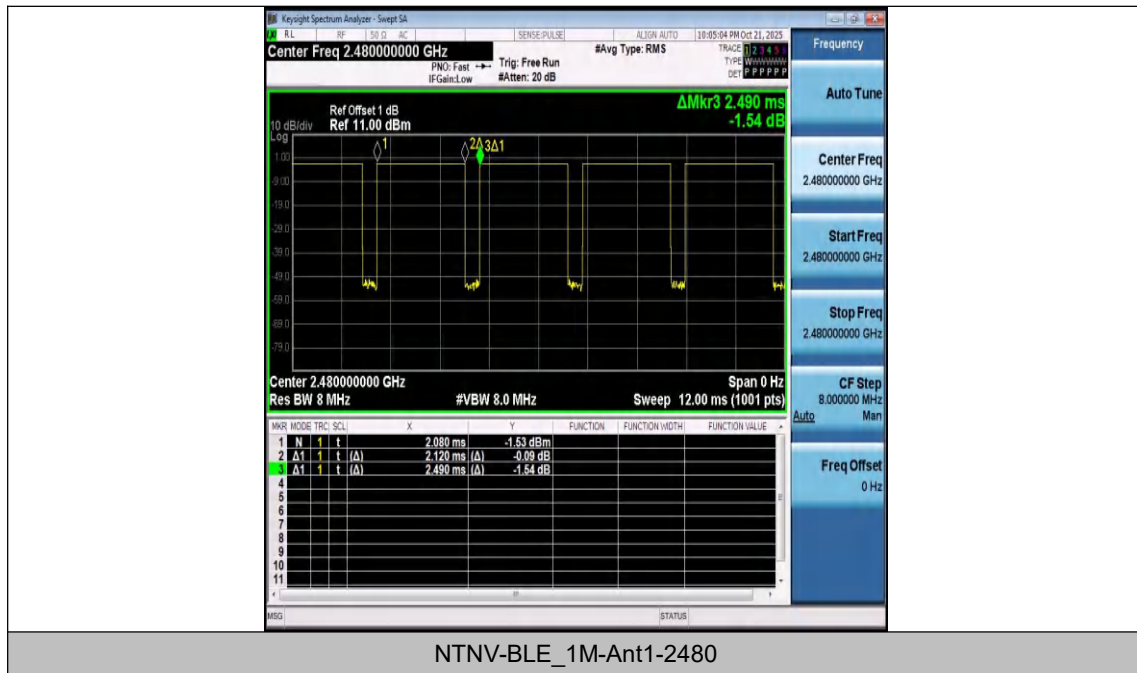
## Test Graphs



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