

## Appendix Test Data

|                  |                  |                    |                    |
|------------------|------------------|--------------------|--------------------|
| Report No.:      | 1812C40202112501 | Test Sample No.:   | 1-2-2              |
| Start Test Date: | 2025.01.09       | Finish Test Date:  | 2025.02.06         |
| Test Engineer:   | <i>Alex Peng</i> | Auditor:           | <i>Justin Feng</i> |
| Temperature:     | 25.3°C           | Relative Humidity: | 49%                |
| Pressure:        | 101kPa           |                    |                    |

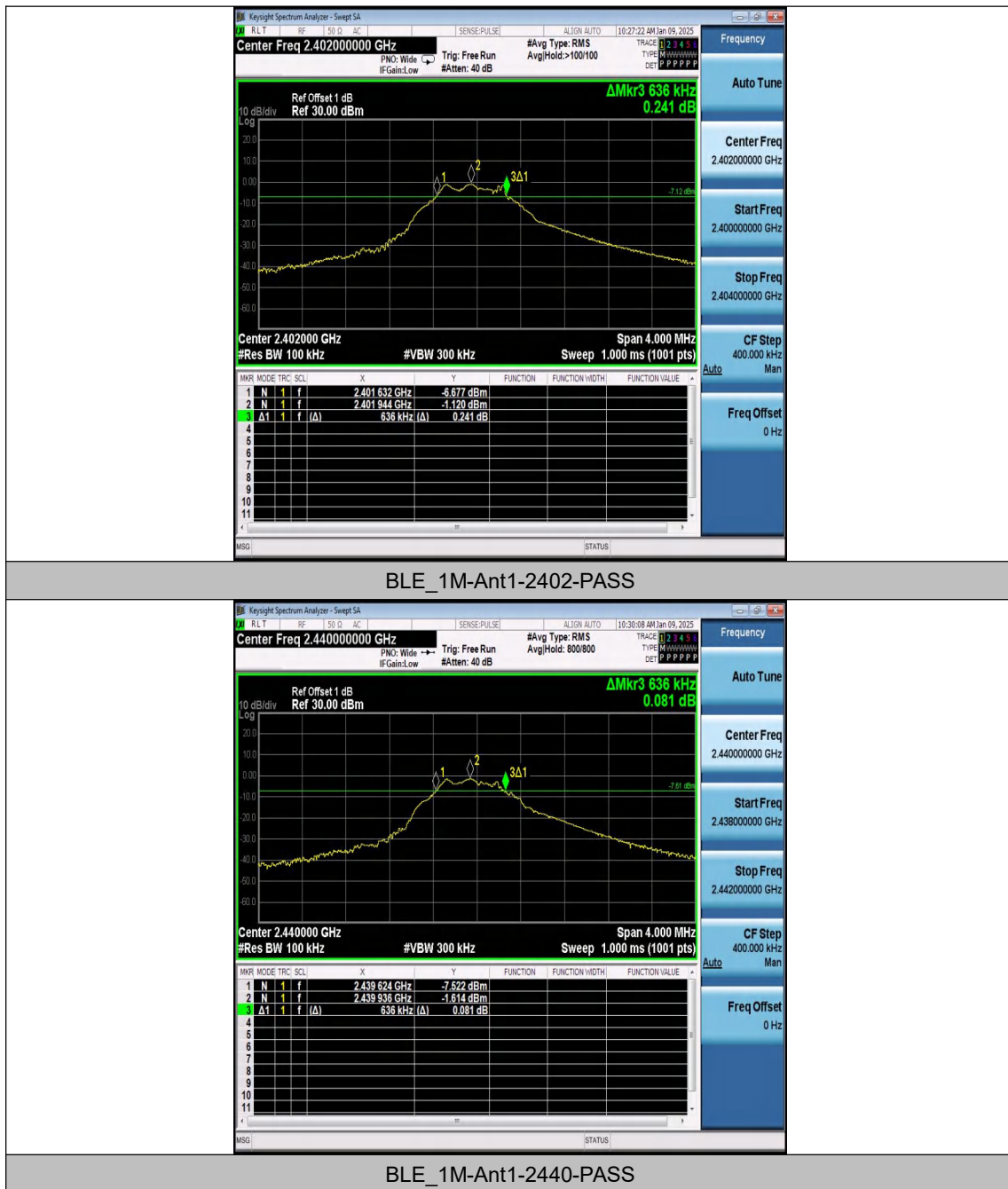
## Appendix A: 6dB Bandwidth

### Test Result

| Test Mode | Antenna | Frequency[MHz] | 6dB BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|----------------|--------------|----------|----------|------------|---------|
| BLE_1M    | Ant1    | 2402           | 0.636        | 2401.632 | 2402.268 | 0.5        | PASS    |
| BLE_1M    | Ant1    | 2440           | 0.636        | 2439.624 | 2440.260 | 0.5        | PASS    |
| BLE_1M    | Ant1    | 2480           | 0.676        | 2479.620 | 2480.296 | 0.5        | PASS    |
| BLE_2M    | Ant1    | 2402           | 1.148        | 2401.348 | 2402.496 | 0.5        | PASS    |
| BLE_2M    | Ant1    | 2440           | 1.208        | 2439.328 | 2440.536 | 0.5        | PASS    |
| BLE_2M    | Ant1    | 2480           | 1.132        | 2479.332 | 2480.464 | 0.5        | PASS    |



## Test Graphs



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## Appendix B: 99% Occupied Bandwidth

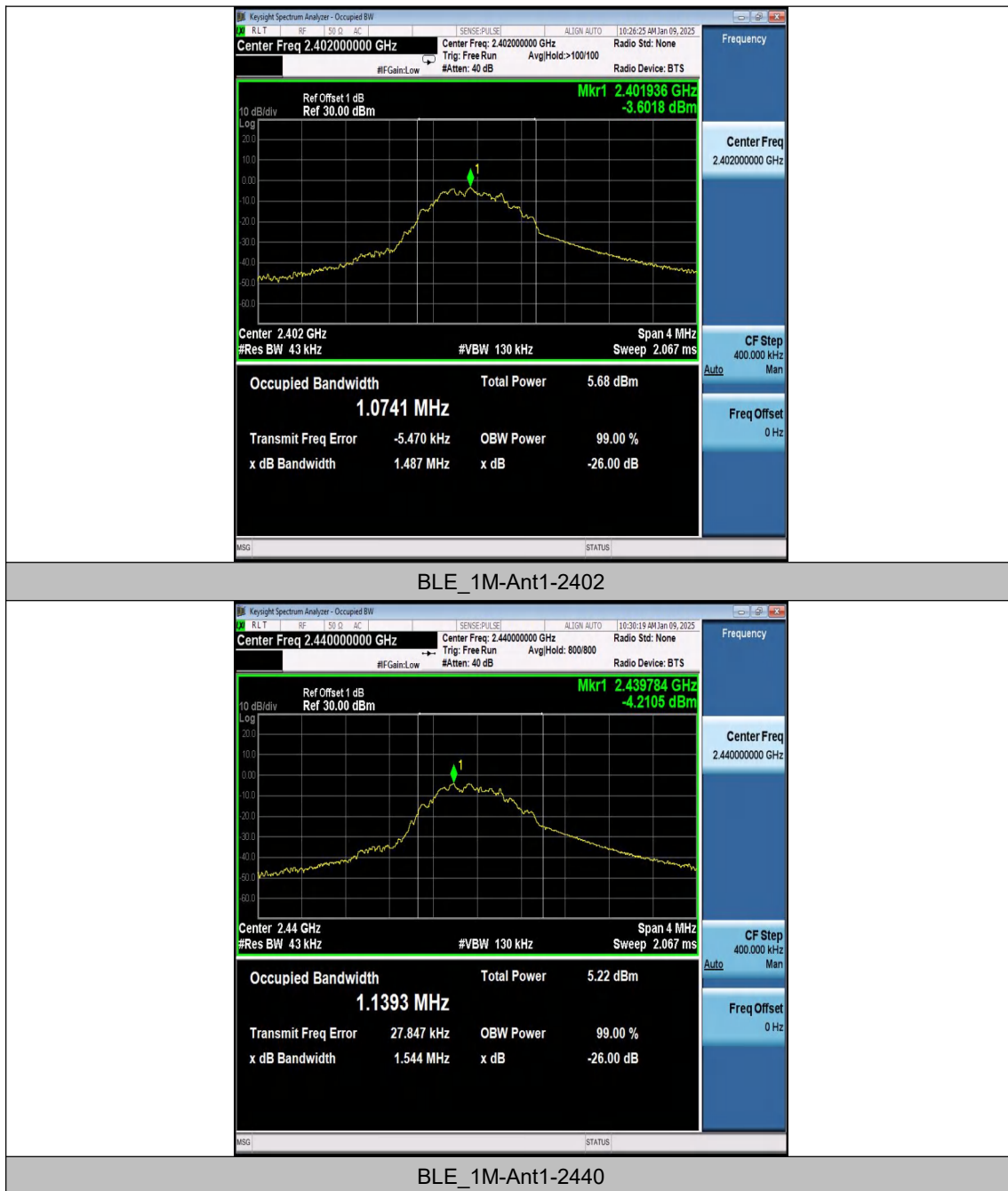
### Test Result

| Test Mode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|-----------|---------|----------------|-----------|-----------|-----------|------------|---------|
| BLE_1M    | Ant1    | 2402           | 1.0741    | 2401.4551 | 2402.5292 | ---        | ---     |
| BLE_1M    | Ant1    | 2440           | 1.1393    | 2439.4582 | 2440.5975 | ---        | ---     |
| BLE_1M    | Ant1    | 2480           | 1.1664    | 2479.4564 | 2480.6228 | ---        | ---     |
| BLE_2M    | Ant1    | 2402           | 2.0270    | 2400.9766 | 2403.0036 | ---        | ---     |
| BLE_2M    | Ant1    | 2440           | 2.0271    | 2438.9756 | 2441.0027 | ---        | ---     |
| BLE_2M    | Ant1    | 2480           | 2.0306    | 2478.9739 | 2481.0045 | ---        | ---     |

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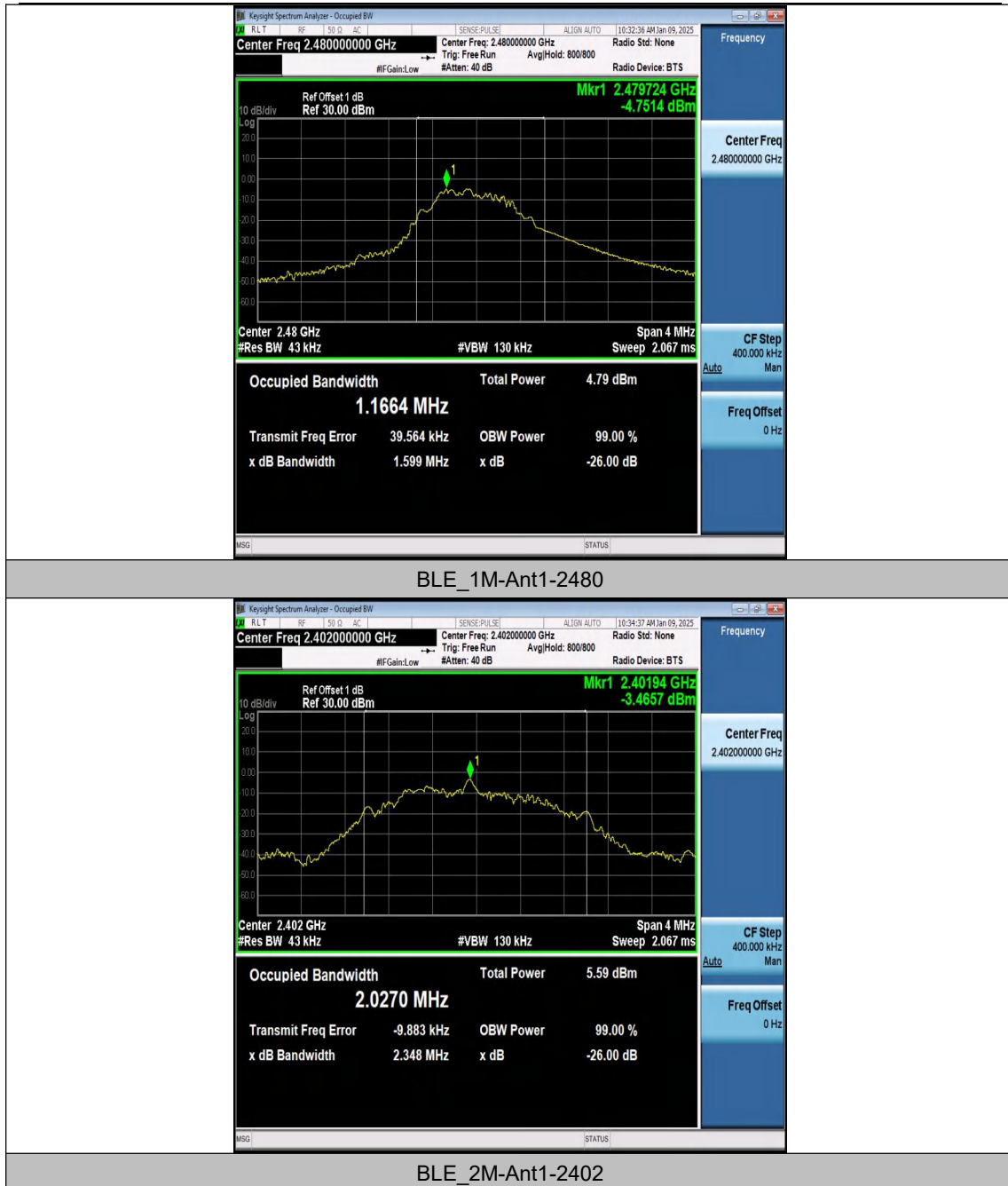
## Test Graphs



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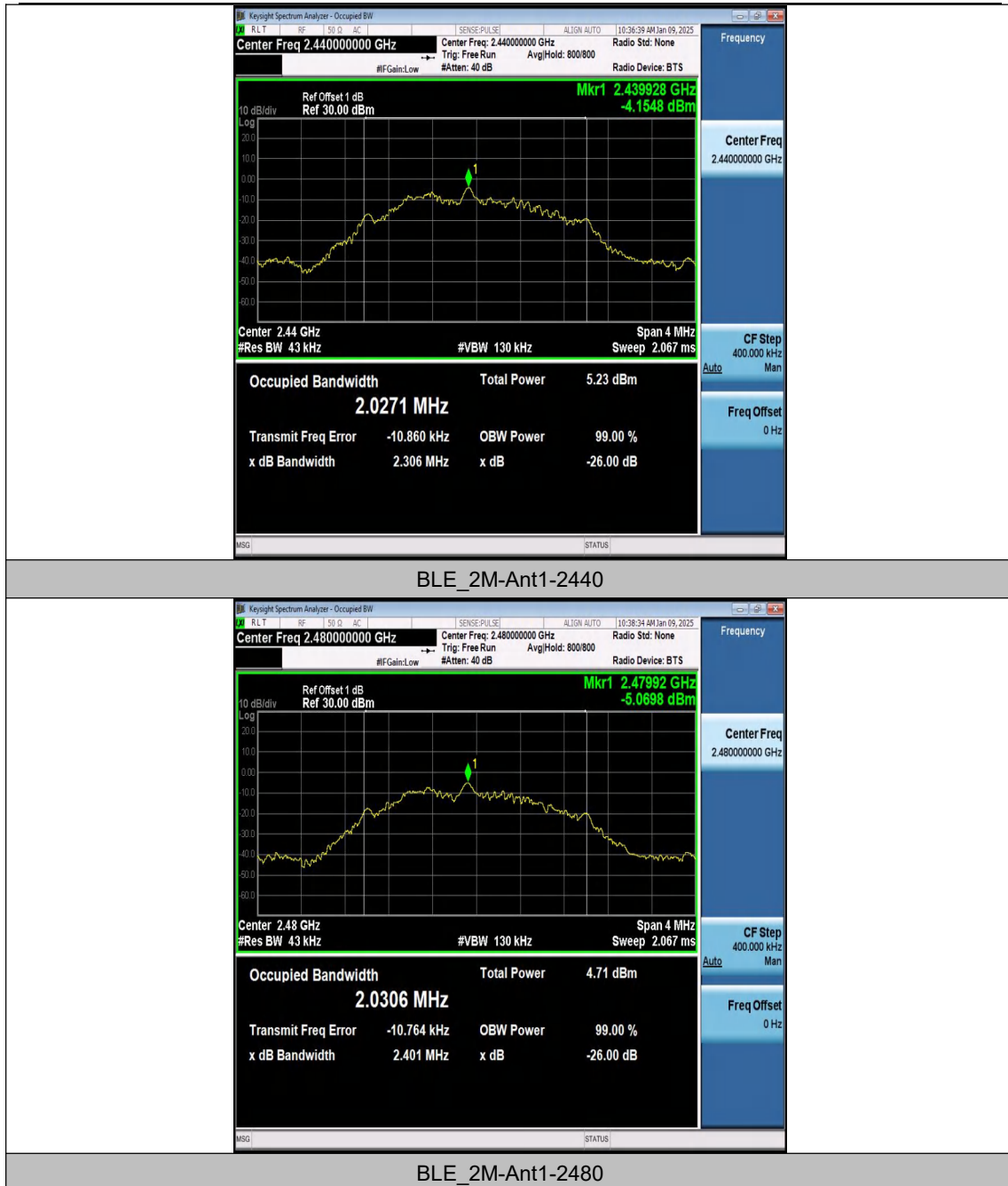


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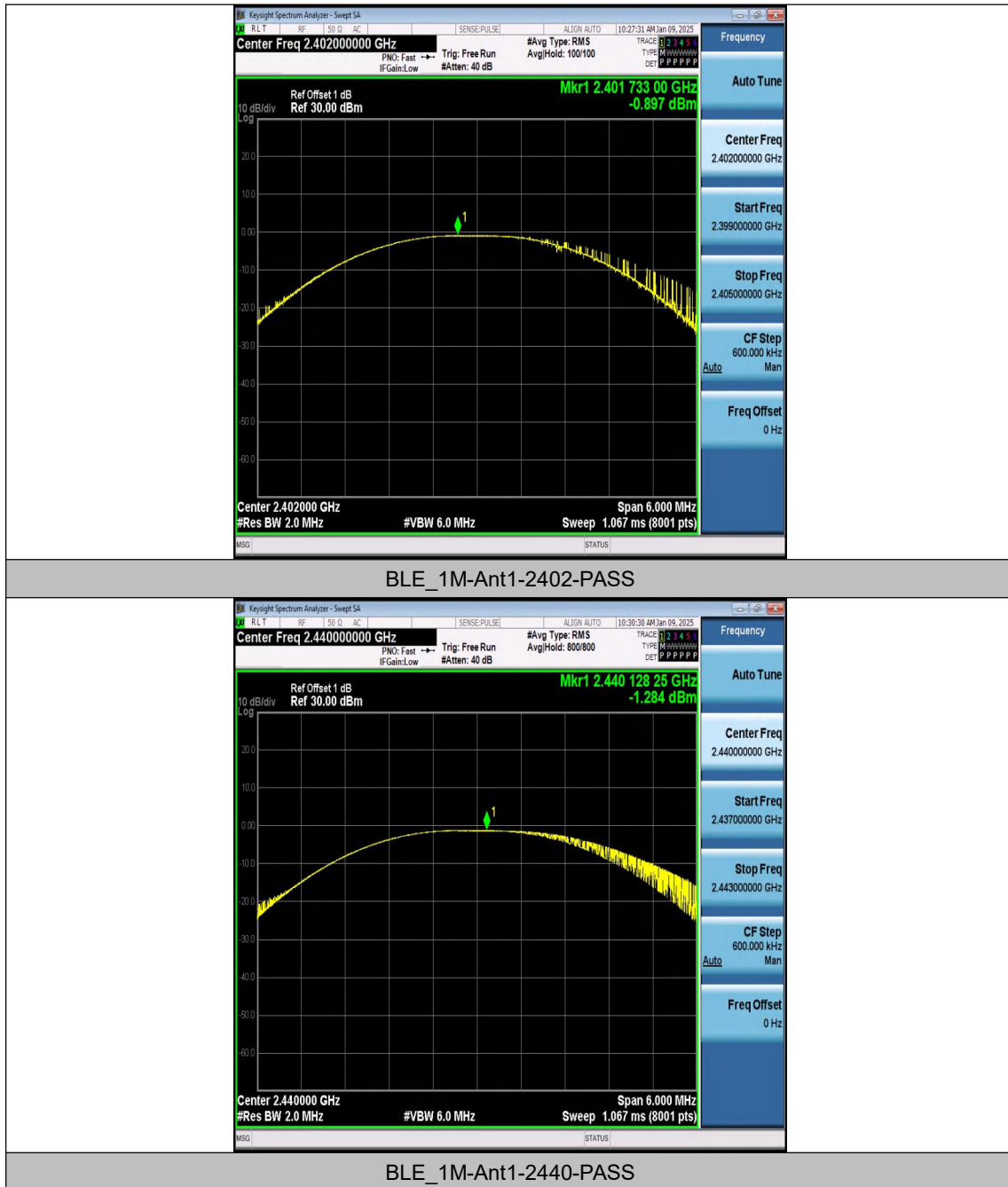
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## Appendix C: Maximum conducted output power

### Test Result Peak

| Test Mode | Antenna | Frequency [MHz] | Conducted Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|-----------|---------|-----------------|---------------------------|----------------------|---------|
| BLE_1M    | Ant1    | 2402            | -0.90                     | ≤30                  | PASS    |
| BLE_1M    | Ant1    | 2440            | -1.28                     | ≤30                  | PASS    |
| BLE_1M    | Ant1    | 2480            | -1.83                     | ≤30                  | PASS    |
| BLE_2M    | Ant1    | 2402            | -0.83                     | ≤30                  | PASS    |
| BLE_2M    | Ant1    | 2440            | -1.25                     | ≤30                  | PASS    |
| BLE_2M    | Ant1    | 2480            | -1.80                     | ≤30                  | PASS    |

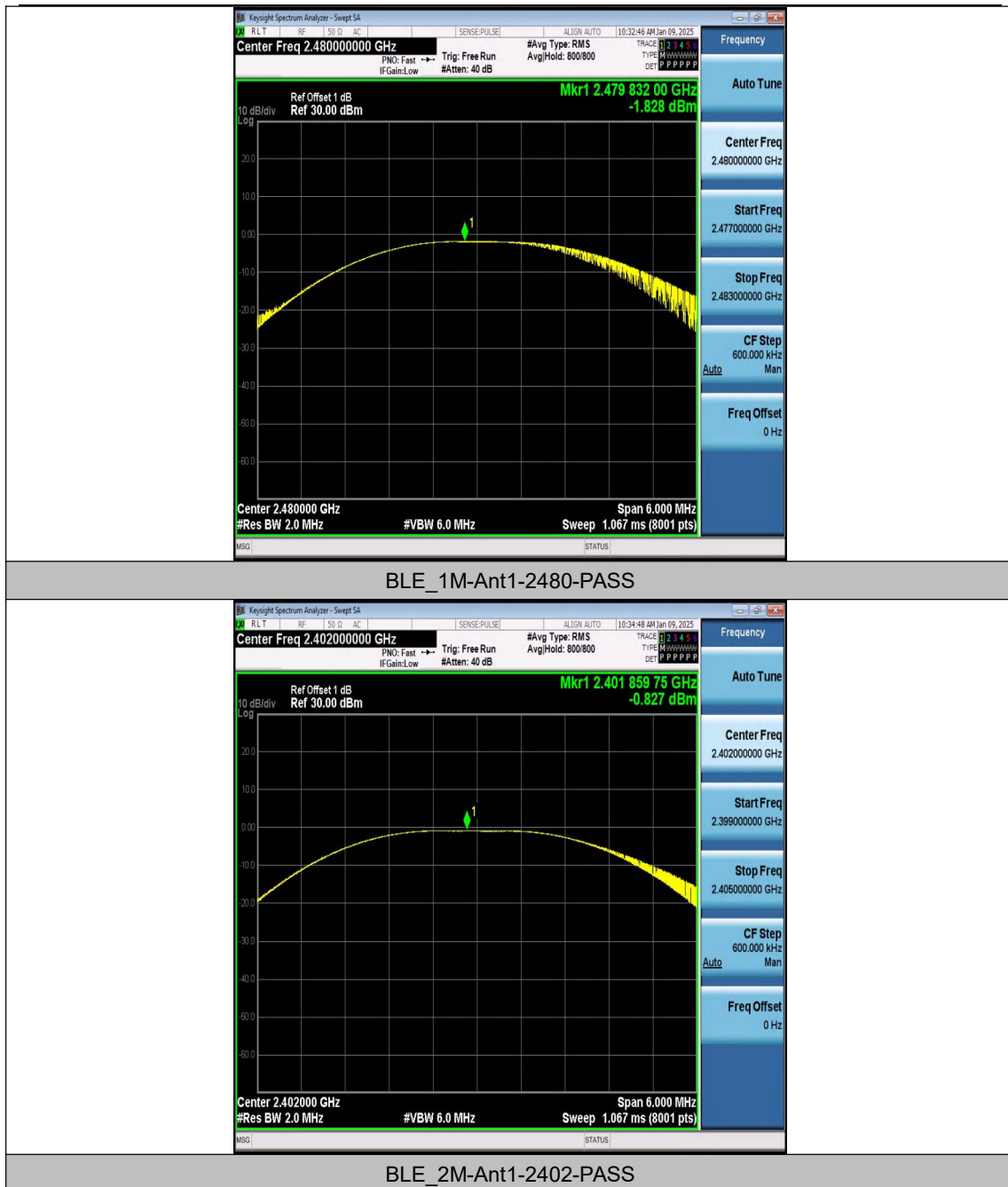
## Test Graphs Peak



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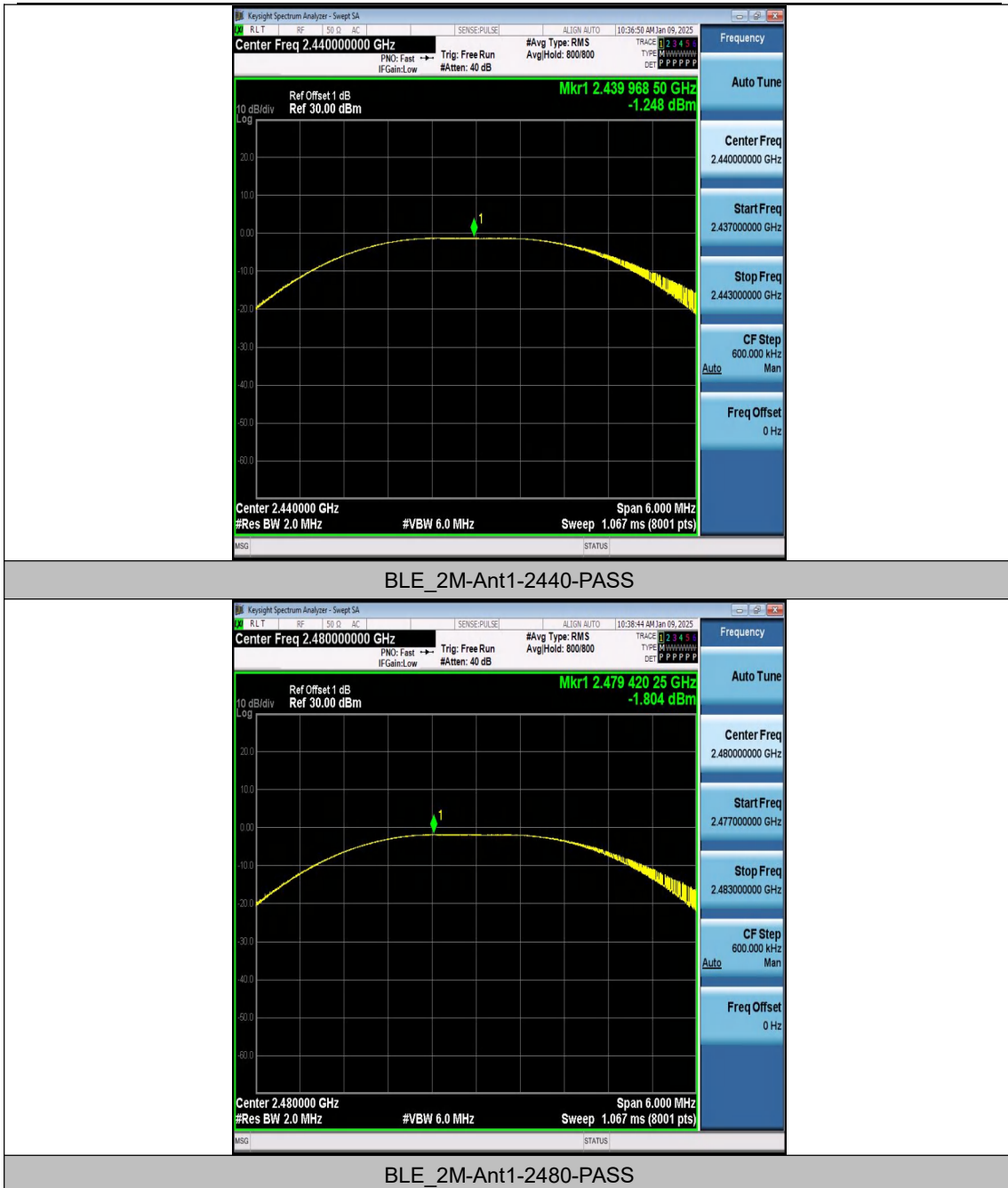


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## Appendix D: Maximum power spectral density

### Test Result

| TestMode | Antenna | Frequency[MHz] | Result[dBm/30kHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|----------------|-------------------|------------------|-----------------|---------|
| BLE_1M   | Ant1    | 2402           | -4.69             | -14.69           | ≤8.00           | PASS    |
| BLE_1M   | Ant1    | 2440           | -4.65             | -14.65           | ≤8.00           | PASS    |
| BLE_1M   | Ant1    | 2480           | -5.43             | -15.43           | ≤8.00           | PASS    |
| BLE_2M   | Ant1    | 2402           | -4.99             | -14.99           | ≤8.00           | PASS    |
| BLE_2M   | Ant1    | 2440           | -5.64             | -15.64           | ≤8.00           | PASS    |
| BLE_2M   | Ant1    | 2480           | -6.75             | -16.75           | ≤8.00           | PASS    |

Note: Result[dBm/3kHz]=Result[dBm/30kHz]+10\*LOG10(3/30)



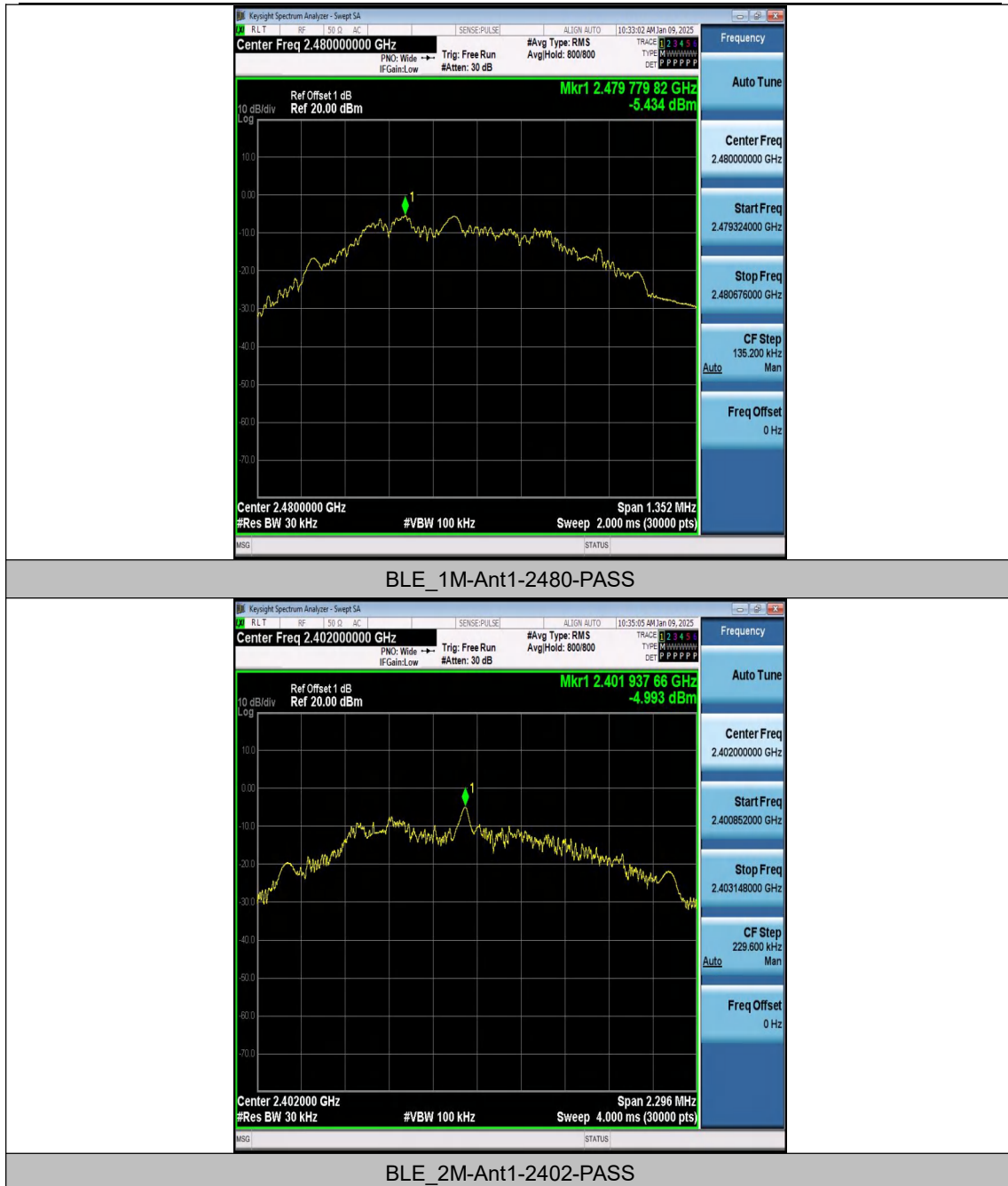
## Test Graphs



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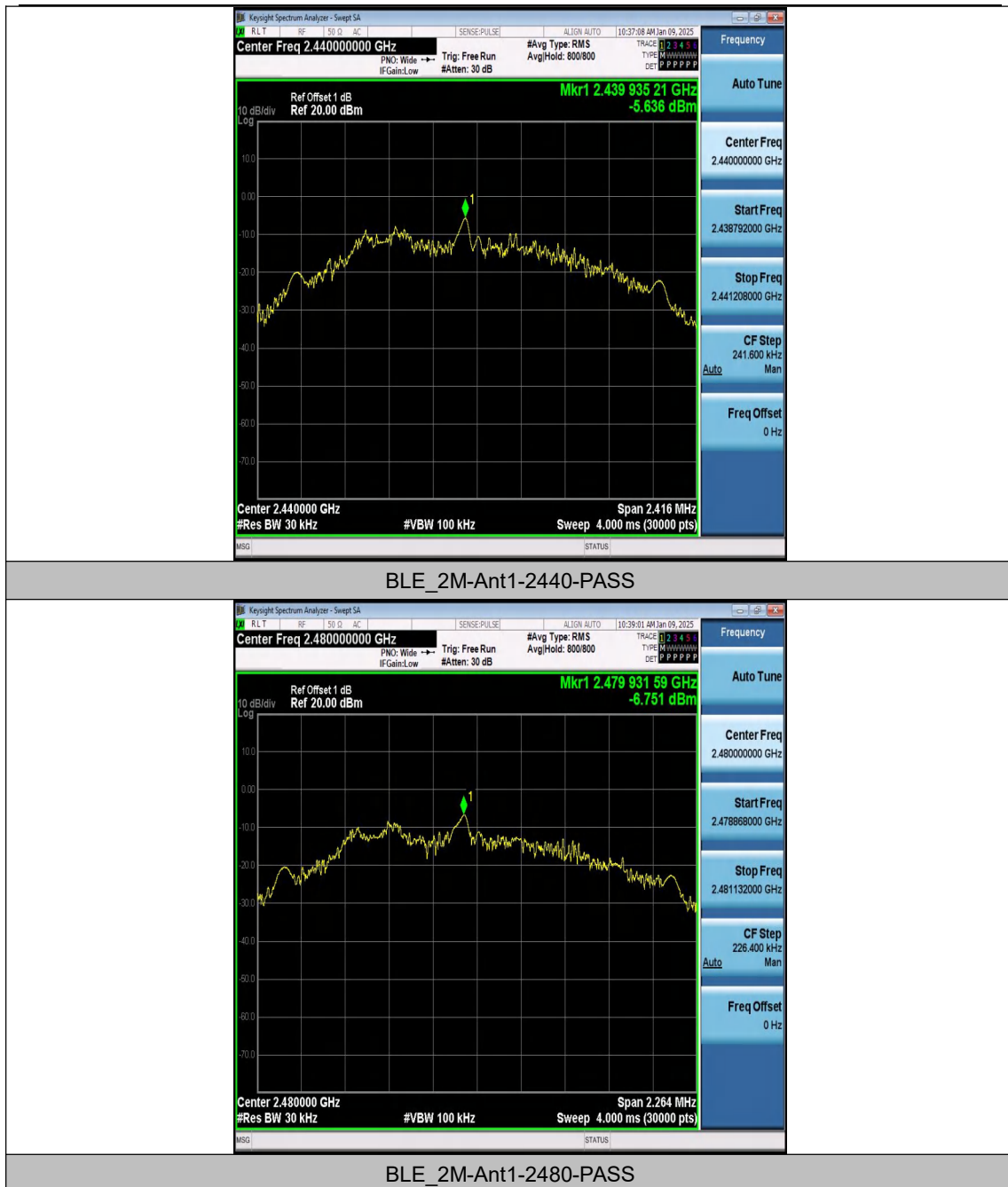
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## Appendix E: Band edge measurements

### Test Result

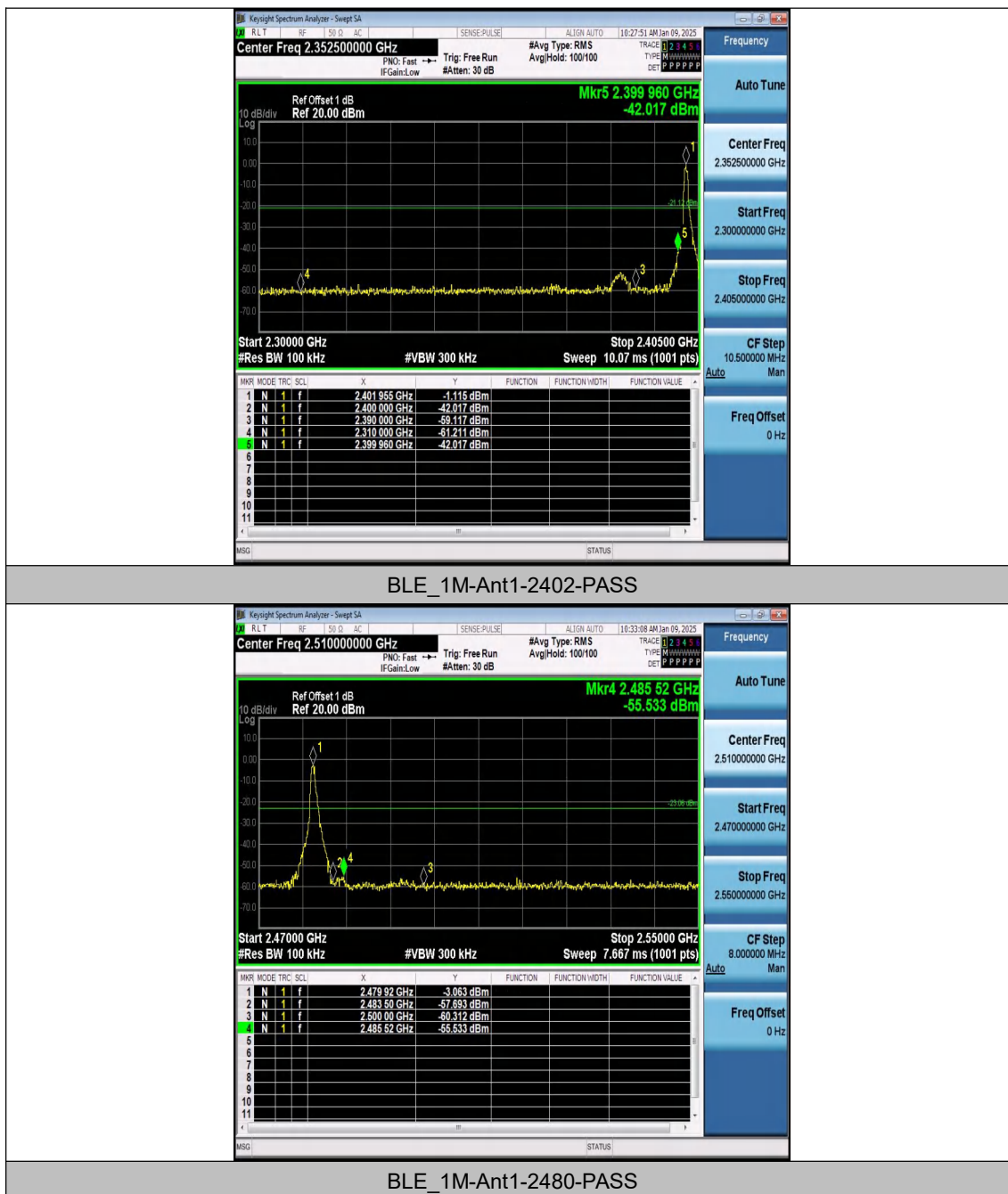
| Test Mode | Antenna | ChName | Frequency [MHz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|--------|-----------------|----------------|--------------|-------------|---------|
| BLE_1M    | Ant1    | Low    | 2402            | -1.12          | -42.02       | ≤-21.12     | PASS    |
| BLE_1M    | Ant1    | High   | 2480            | -3.06          | -55.53       | ≤-23.06     | PASS    |
| BLE_2M    | Ant1    | Low    | 2402            | -2.77          | -36.06       | ≤-22.77     | PASS    |
| BLE_2M    | Ant1    | High   | 2480            | -3.17          | -54.52       | ≤-23.17     | PASS    |

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## Test Graphs

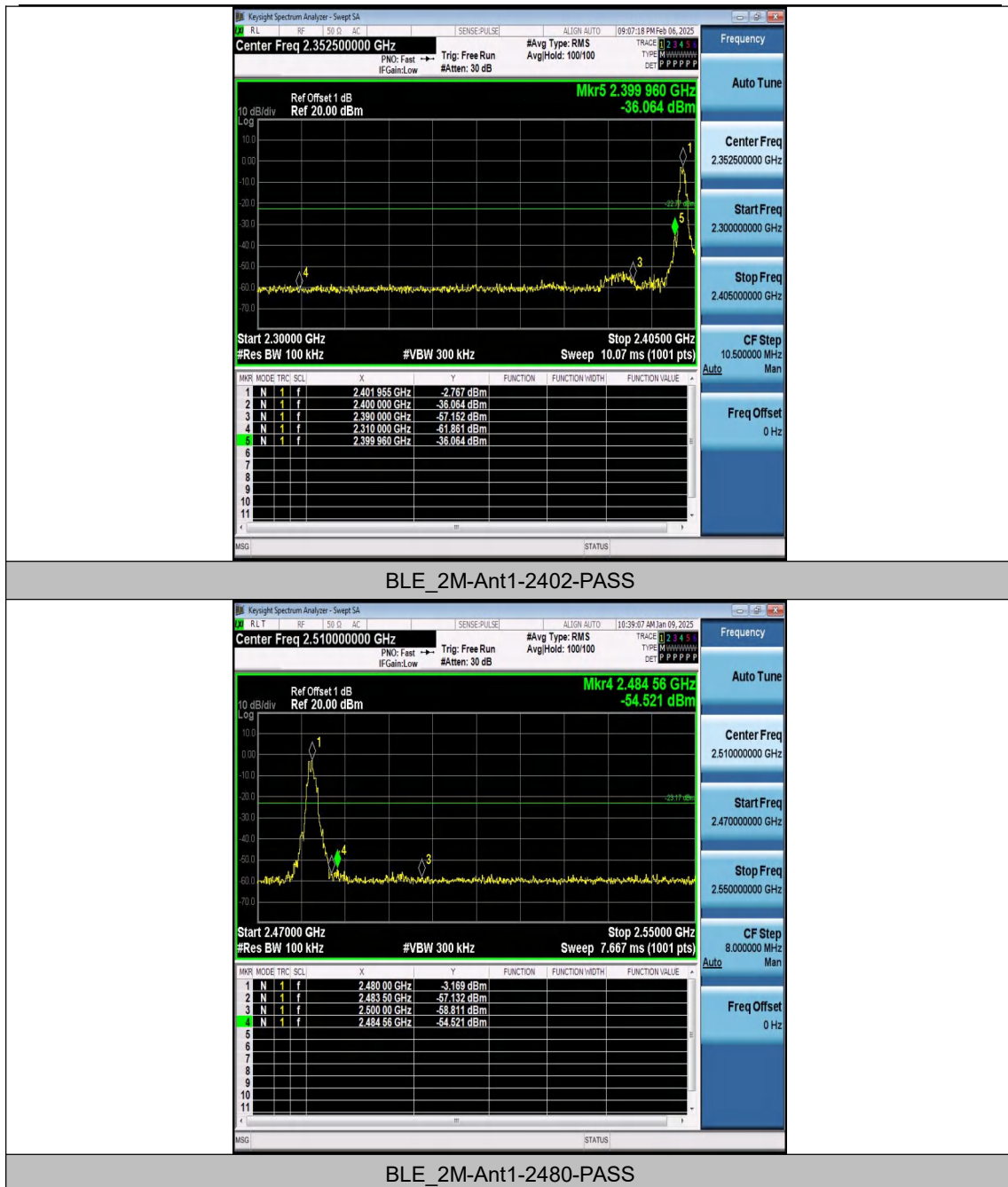


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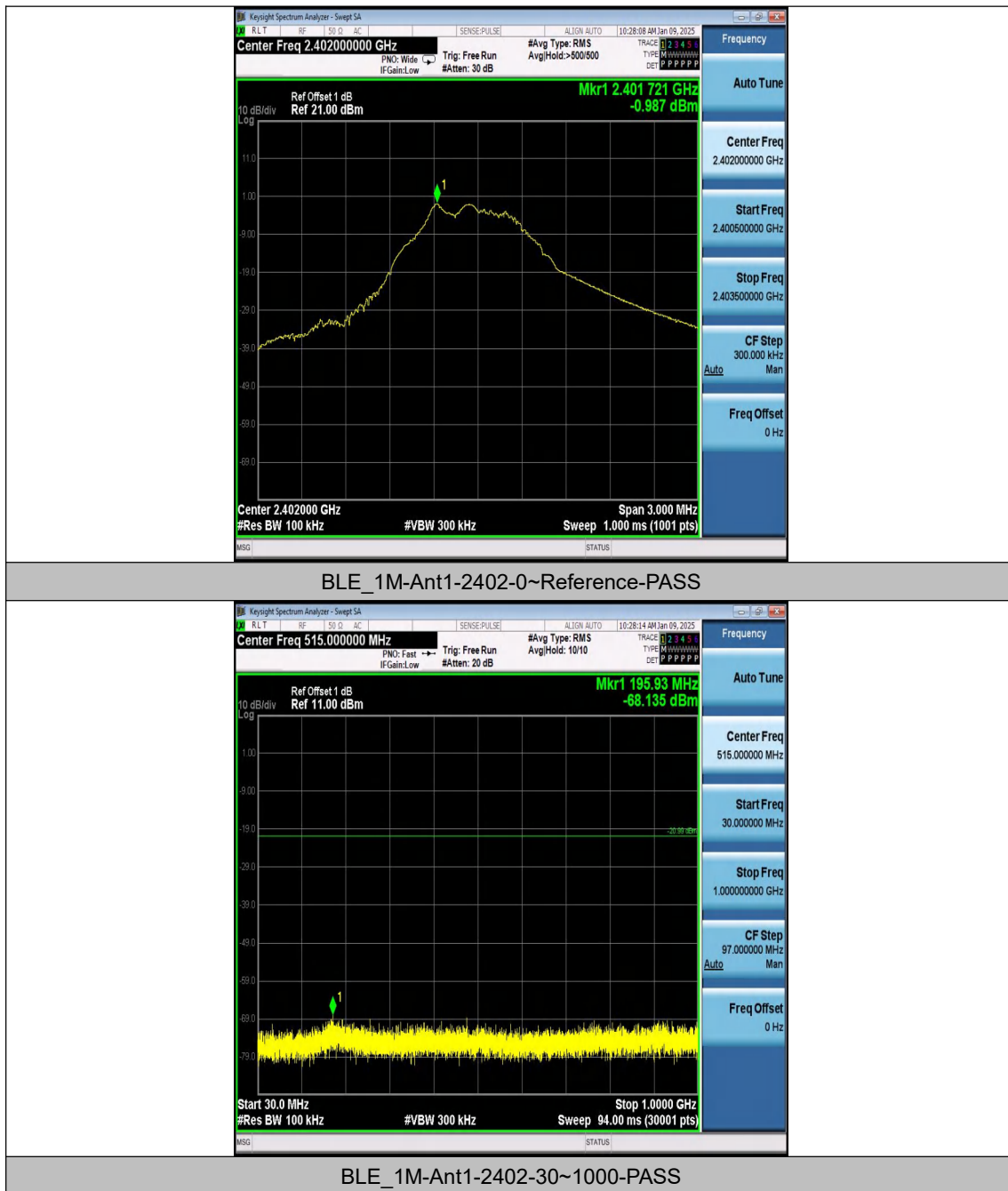


## Appendix F: Conducted Spurious Emission

### Test Result

| Test Mode | Antenna | Frequency [MHz] | Freq. Range [MHz] | Ref. Level [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|-----------------|-------------------|------------------|--------------|-------------|---------|
| BLE_1M    | Ant1    | 2402            | 0~Reference       | -0.99            | -0.99        | ---         | PASS    |
| BLE_1M    | Ant1    | 2402            | 30~1000           | -0.99            | -68.14       | ≤-20.99     | PASS    |
| BLE_1M    | Ant1    | 2402            | 1000~26500        | -0.99            | -53.62       | ≤-20.99     | PASS    |
| BLE_1M    | Ant1    | 2440            | 0~Reference       | -1.65            | -1.65        | ---         | PASS    |
| BLE_1M    | Ant1    | 2440            | 30~1000           | -1.65            | -68.42       | ≤-21.65     | PASS    |
| BLE_1M    | Ant1    | 2440            | 1000~26500        | -1.65            | -52.42       | ≤-21.65     | PASS    |
| BLE_1M    | Ant1    | 2480            | 0~Reference       | -2.38            | -2.38        | ---         | PASS    |
| BLE_1M    | Ant1    | 2480            | 30~1000           | -2.38            | -67.9        | ≤-22.38     | PASS    |
| BLE_1M    | Ant1    | 2480            | 1000~26500        | -2.38            | -53.21       | ≤-22.38     | PASS    |
| BLE_2M    | Ant1    | 2402            | 0~Reference       | -1.15            | -1.15        | ---         | PASS    |
| BLE_2M    | Ant1    | 2402            | 30~1000           | -1.15            | -68.7        | ≤-21.15     | PASS    |
| BLE_2M    | Ant1    | 2402            | 1000~26500        | -1.15            | -53.71       | ≤-21.15     | PASS    |
| BLE_2M    | Ant1    | 2440            | 0~Reference       | -1.67            | -1.67        | ---         | PASS    |
| BLE_2M    | Ant1    | 2440            | 30~1000           | -1.67            | -68.82       | ≤-21.67     | PASS    |
| BLE_2M    | Ant1    | 2440            | 1000~26500        | -1.67            | -53.1        | ≤-21.67     | PASS    |
| BLE_2M    | Ant1    | 2480            | 0~Reference       | -2.40            | -2.40        | ---         | PASS    |
| BLE_2M    | Ant1    | 2480            | 30~1000           | -2.40            | -68.22       | ≤-22.4      | PASS    |
| BLE_2M    | Ant1    | 2480            | 1000~26500        | -2.40            | -53.23       | ≤-22.4      | PASS    |

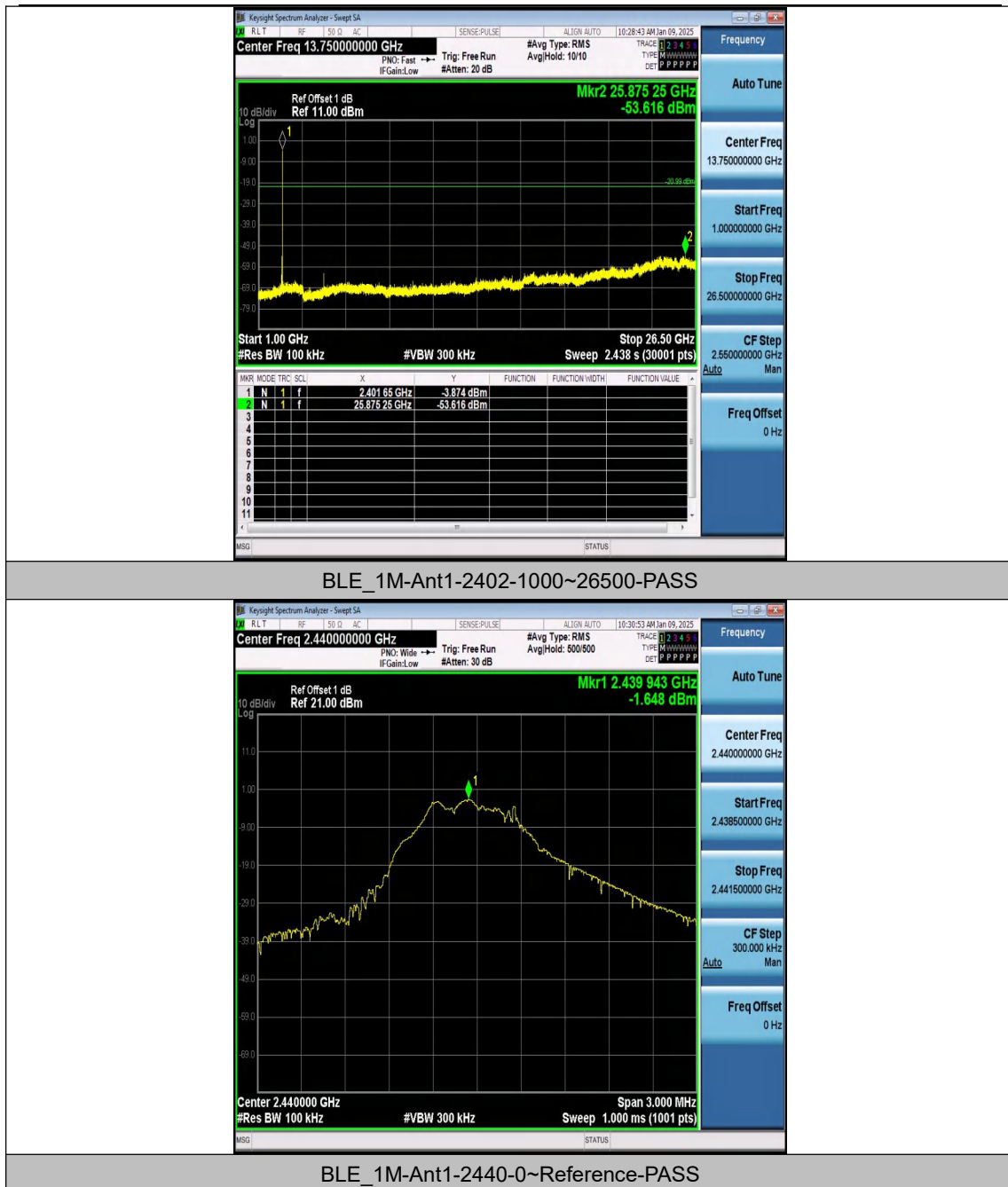
## Test Graphs



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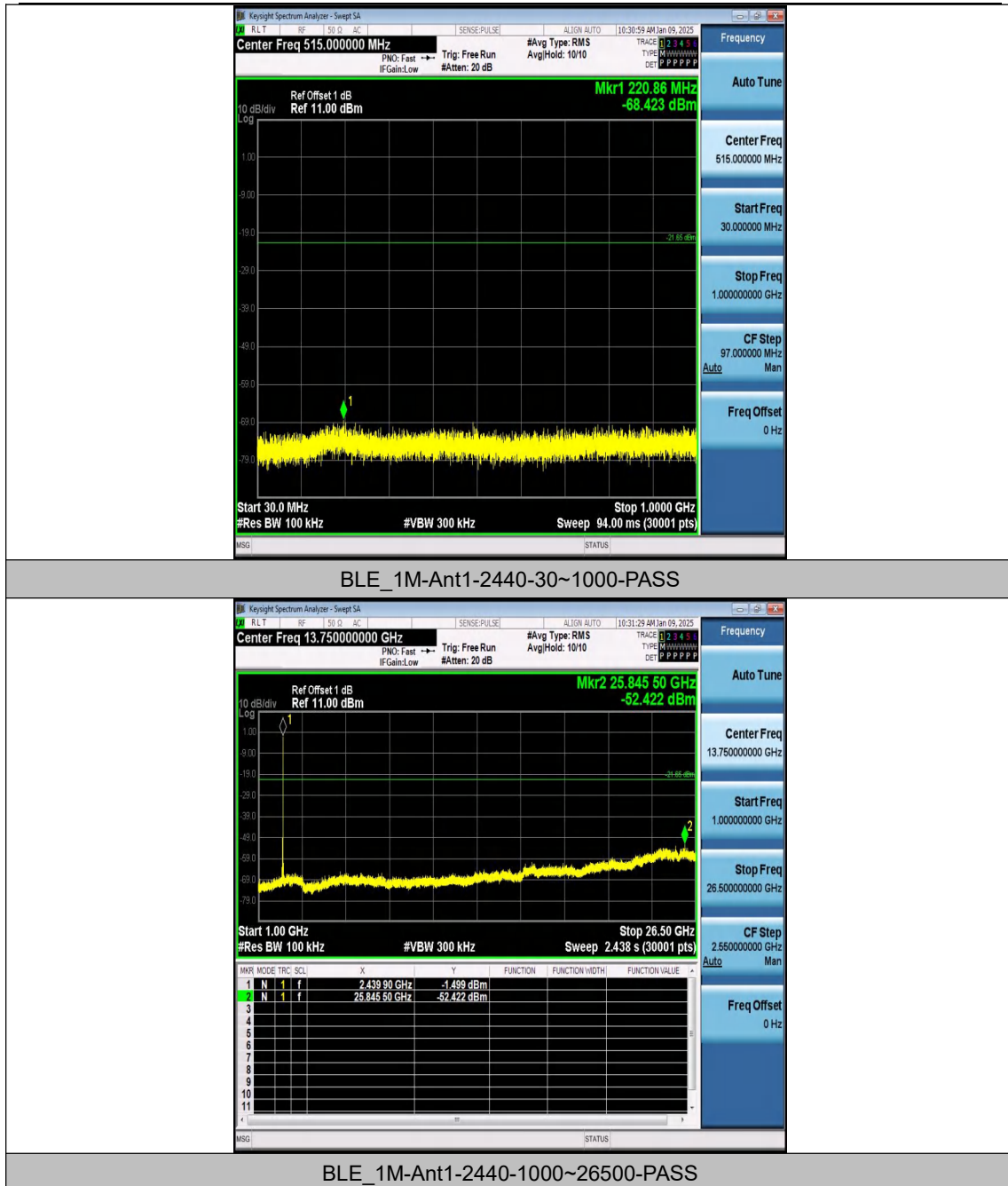


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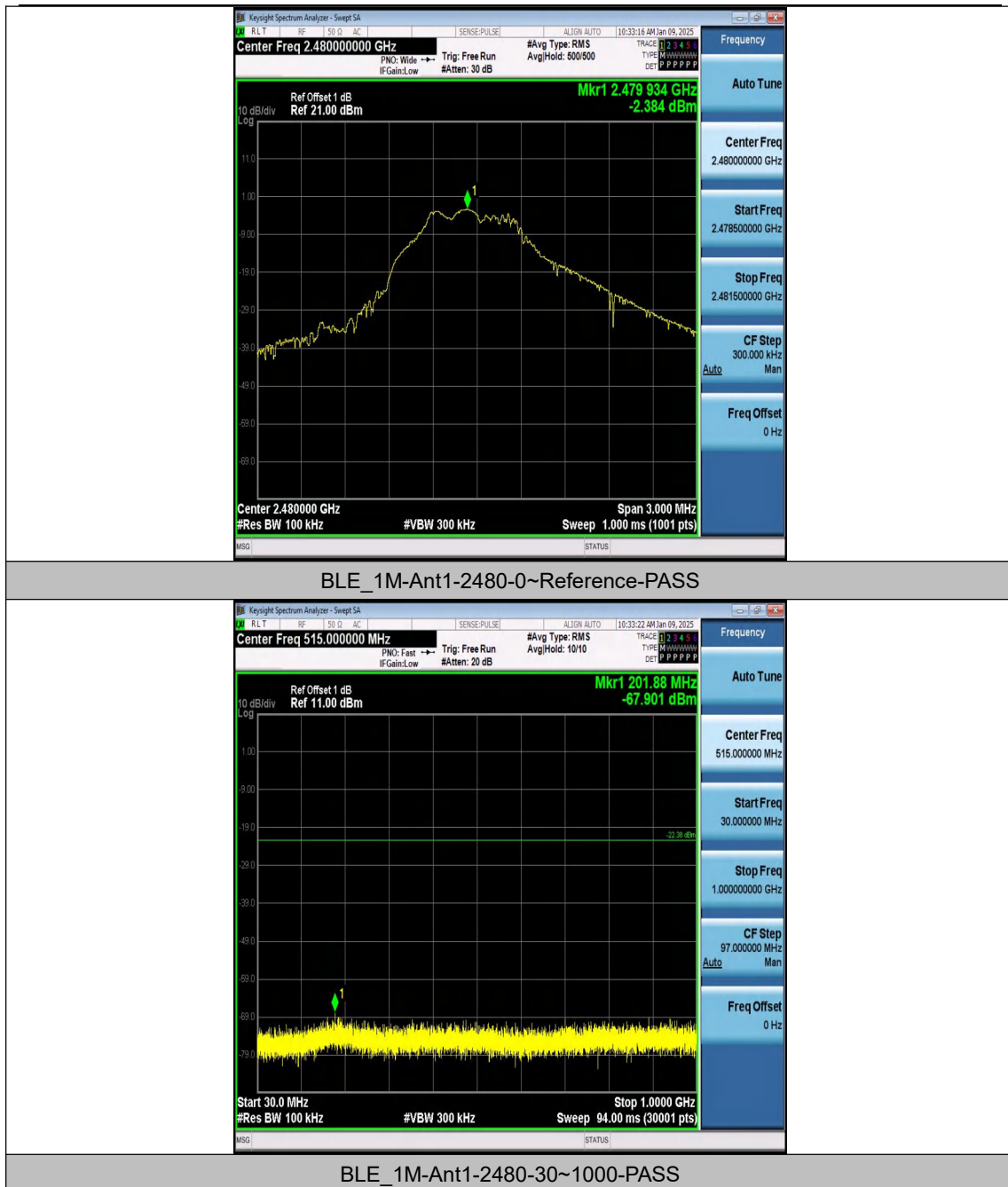
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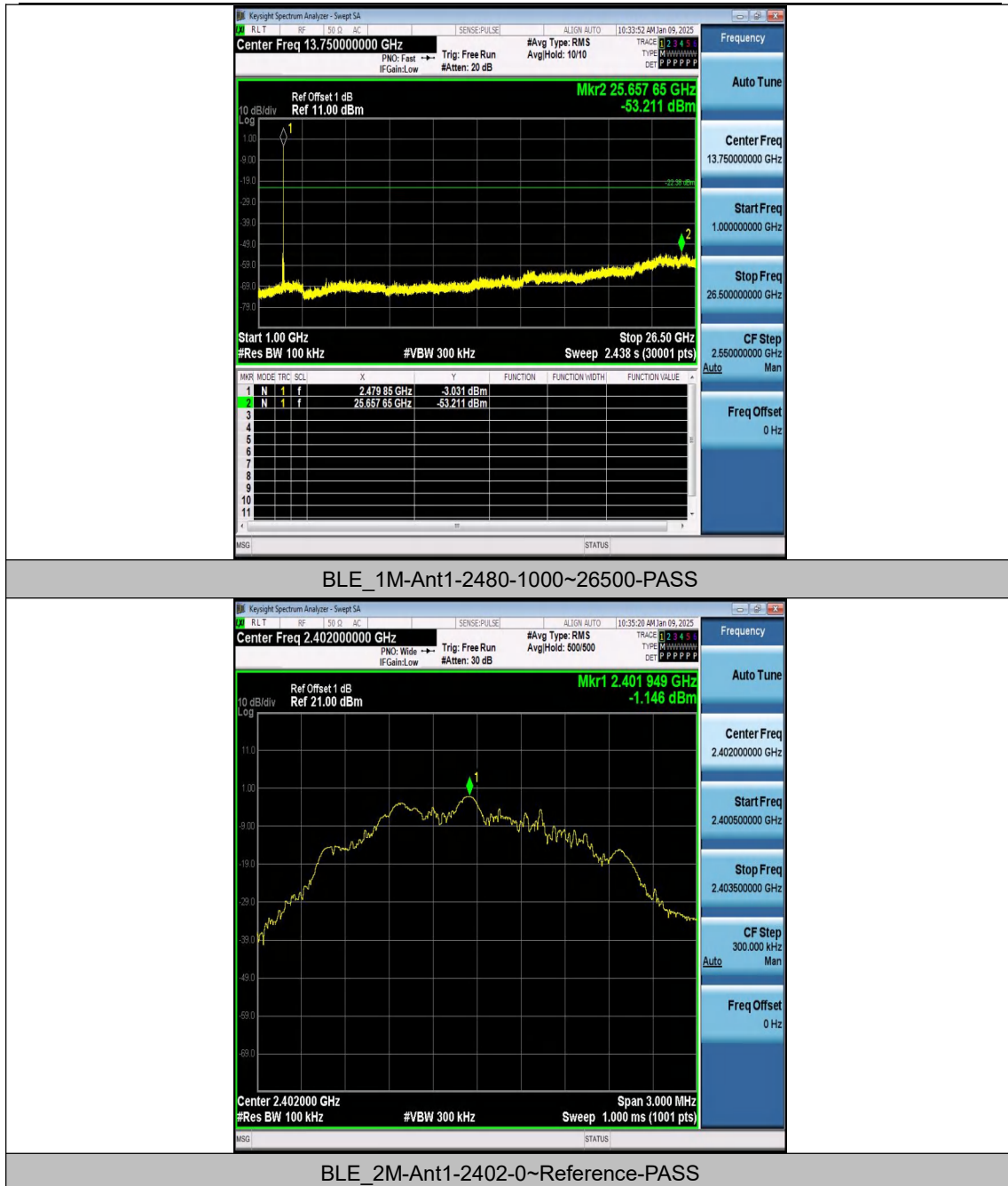


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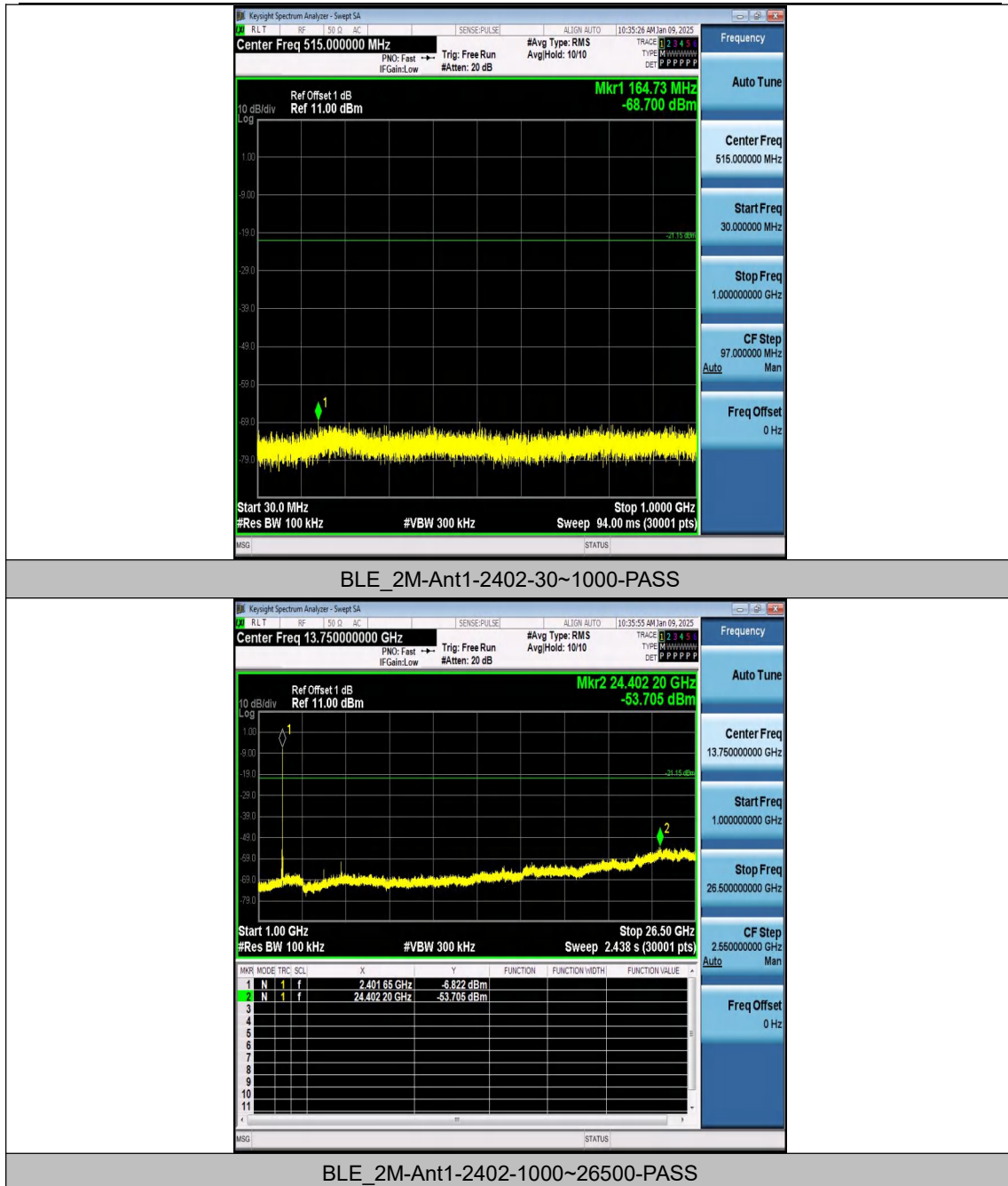
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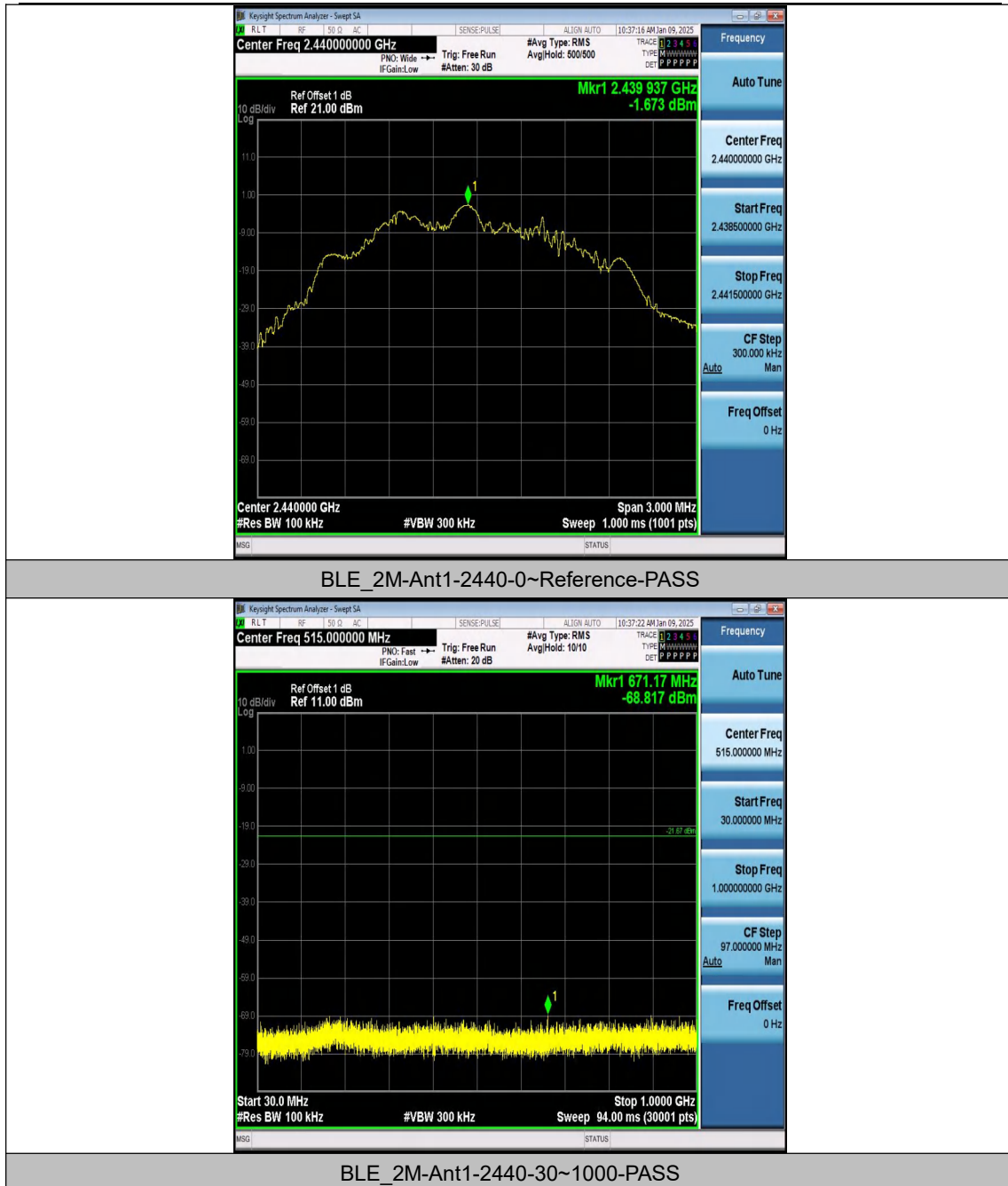
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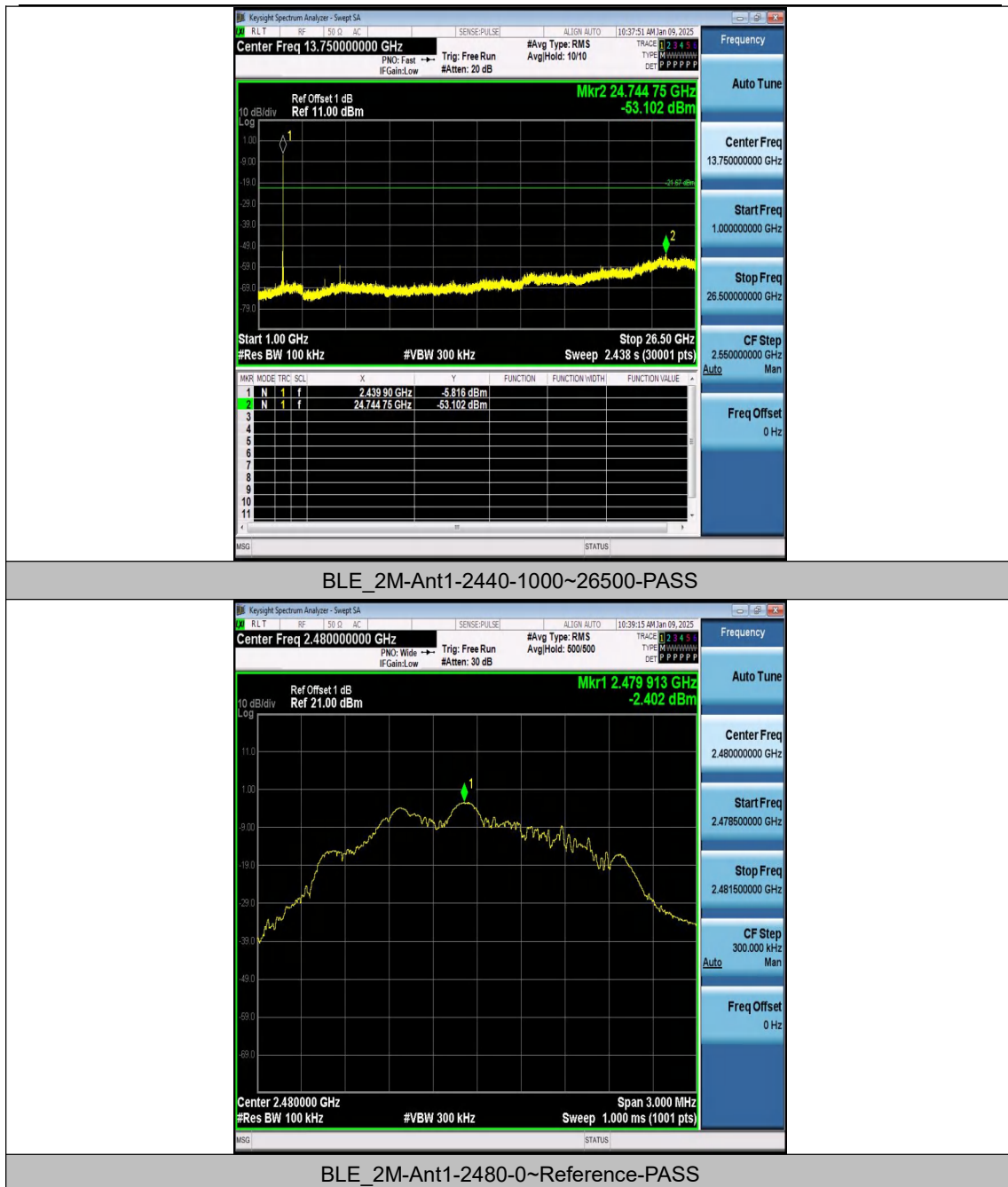


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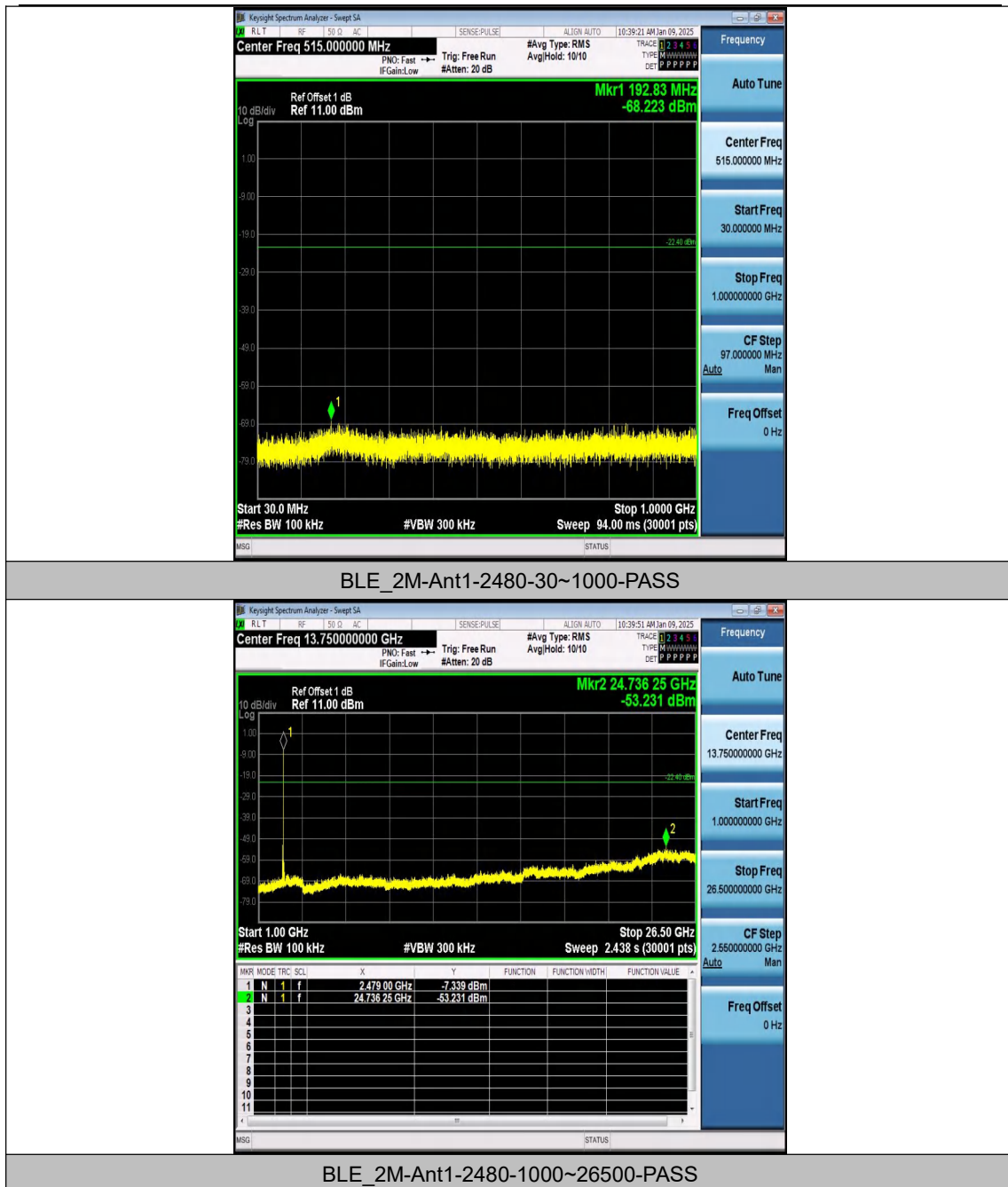
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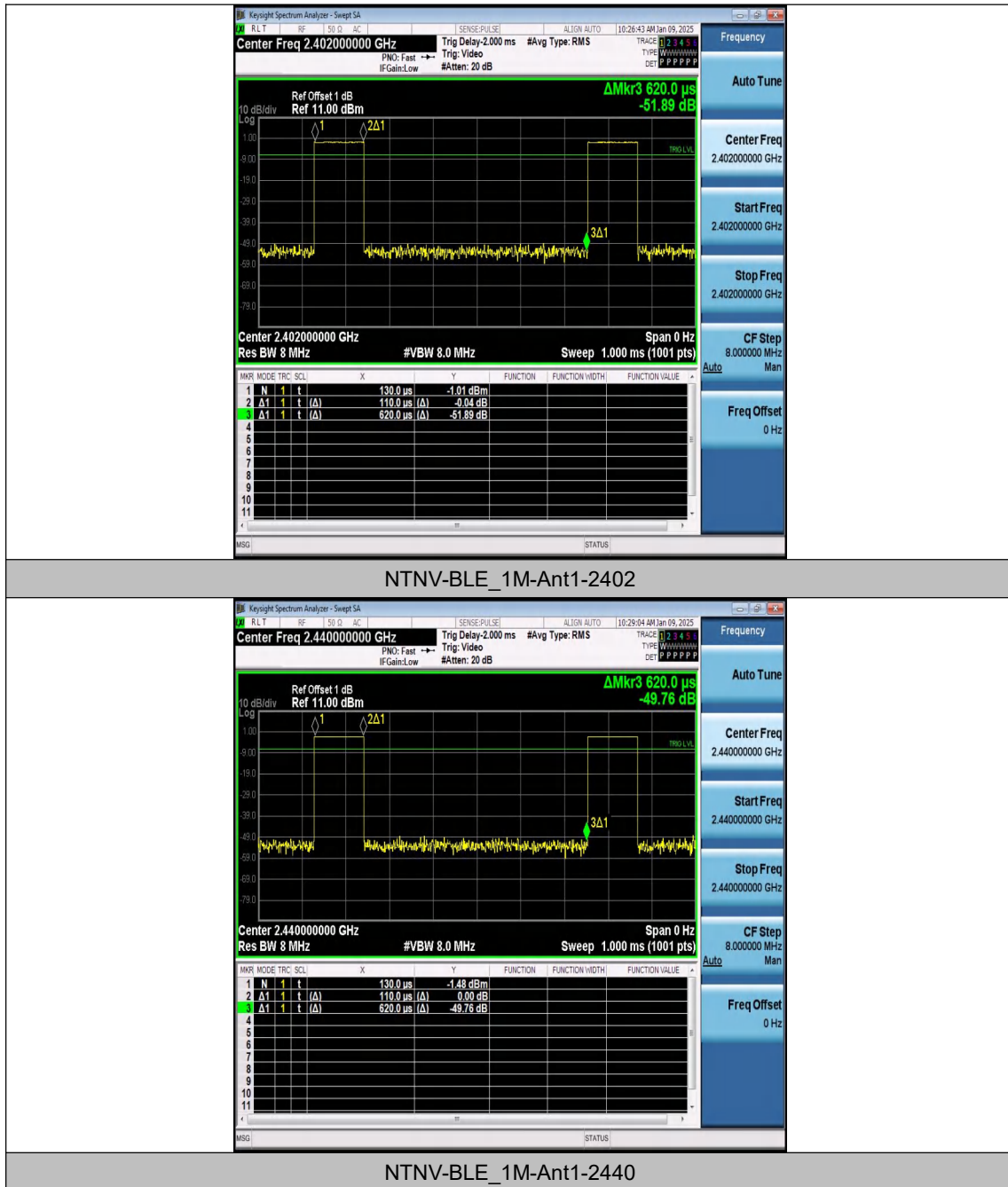
## Appendix G: Duty Cycle

### Test Result

| Test Mode | Antenna | Frequency [MHz] | ON Time [ms] | Period [ms] | Duty Cycle [%] | Duty Cycle Factor[dB] |
|-----------|---------|-----------------|--------------|-------------|----------------|-----------------------|
| BLE_1M    | Ant1    | 2402            | 0.11         | 0.62        | 17.74          | 7.51                  |
| BLE_1M    | Ant1    | 2440            | 0.11         | 0.62        | 17.74          | 7.51                  |
| BLE_1M    | Ant1    | 2480            | 0.12         | 0.63        | 19.05          | 7.20                  |
| BLE_2M    | Ant1    | 2402            | 0.08         | 0.63        | 12.70          | 8.96                  |
| BLE_2M    | Ant1    | 2440            | 0.07         | 0.62        | 11.29          | 9.47                  |
| BLE_2M    | Ant1    | 2480            | 0.07         | 0.63        | 11.11          | 9.54                  |

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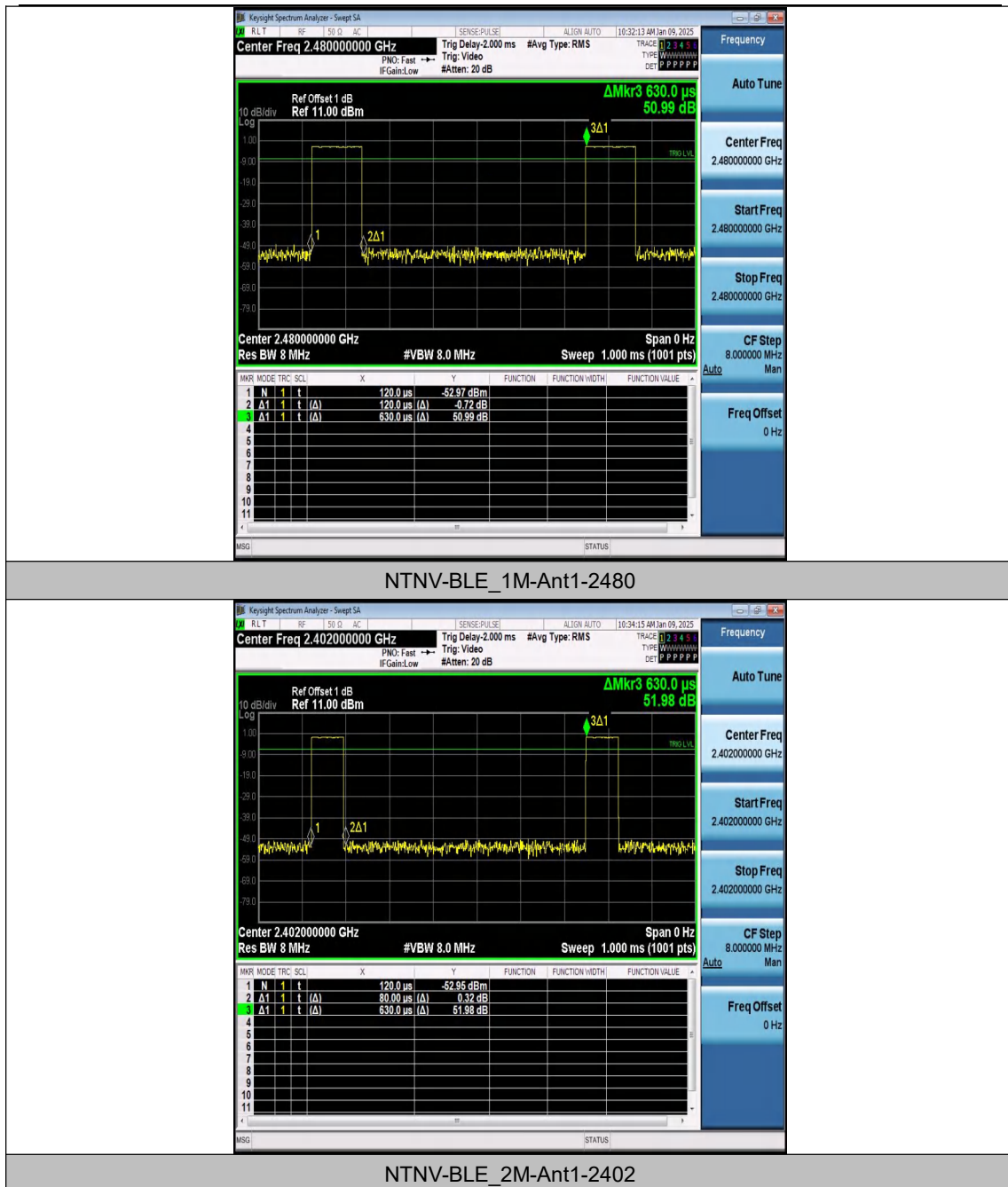
## Test Graphs



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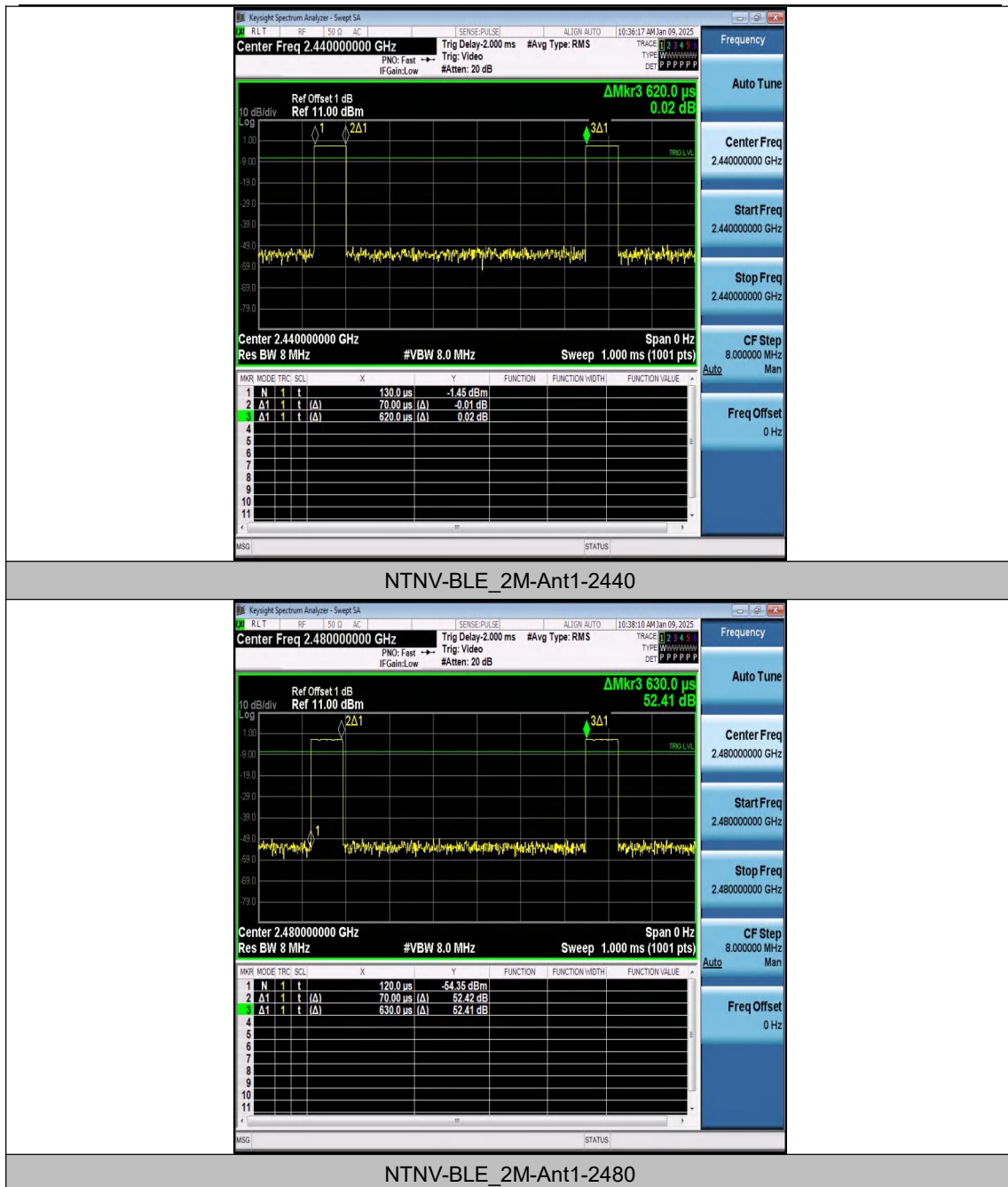
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