

Appendix Test Data

|                  |                   |                    |                    |
|------------------|-------------------|--------------------|--------------------|
| Report No.:      | 1814C40120612501  | Test Sample No.:   | 1-2-2              |
| Start Test Date: | 2024.11.7         | Finish Test Date:  | 2024.11.18         |
| Test Engineer:   | <i>Joker Wang</i> | Auditor:           | <i>Justin Feng</i> |
| Temperature:     | 22.7°C            | Relative Humidity: | 57%                |
| Pressure:        | 101kPa            |                    |                    |

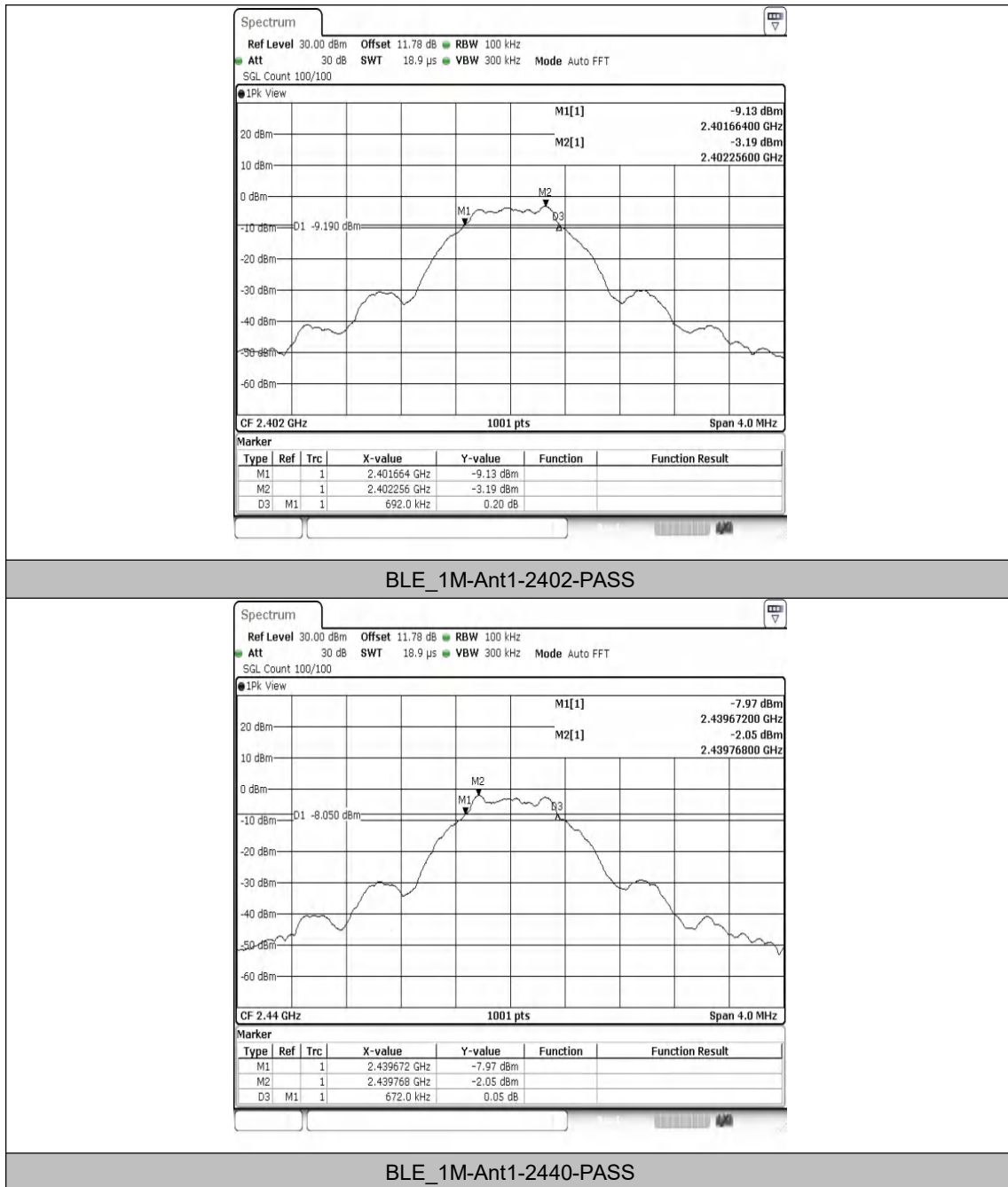
Appendix A: 6dB Bandwidth

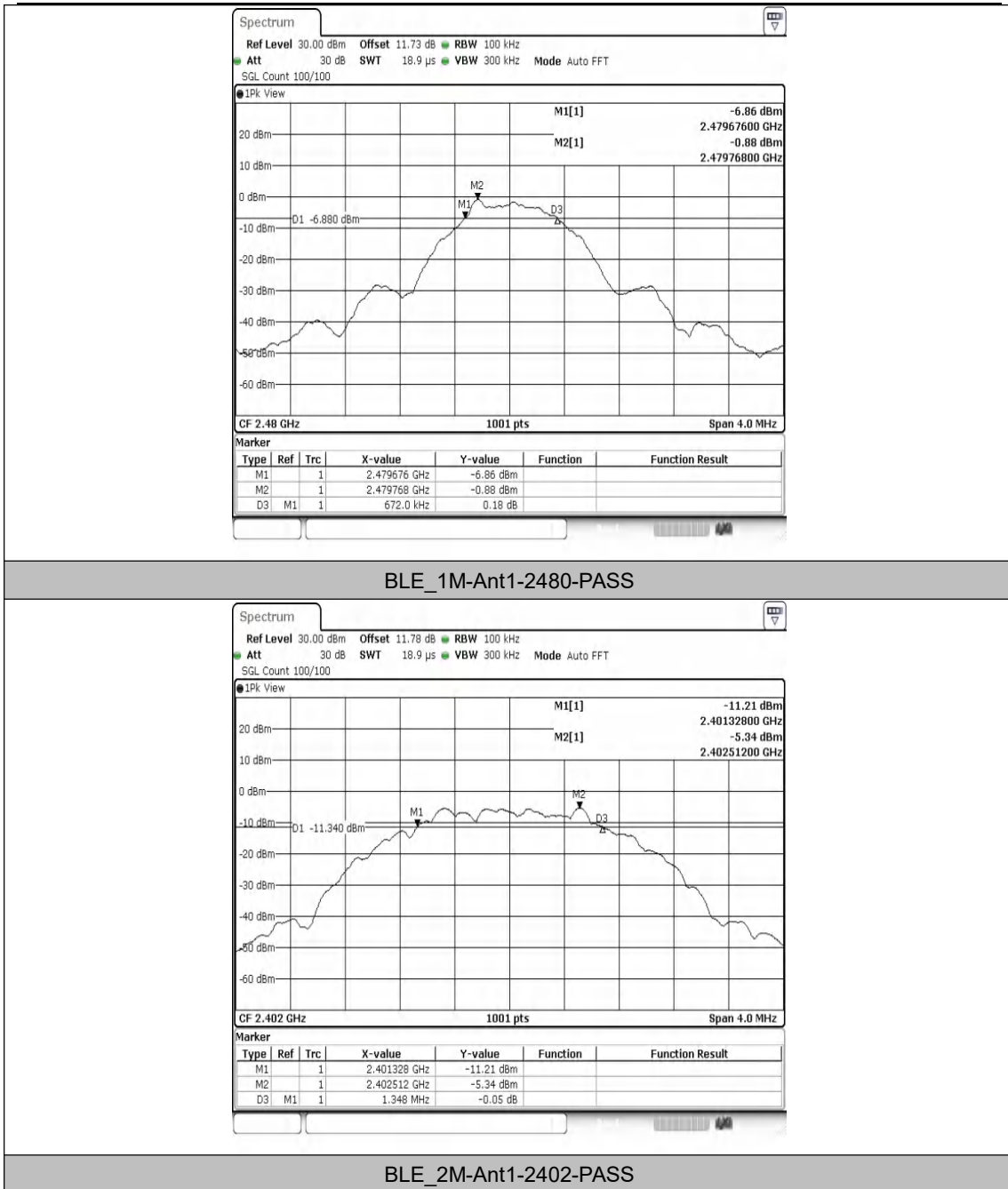
Test Result

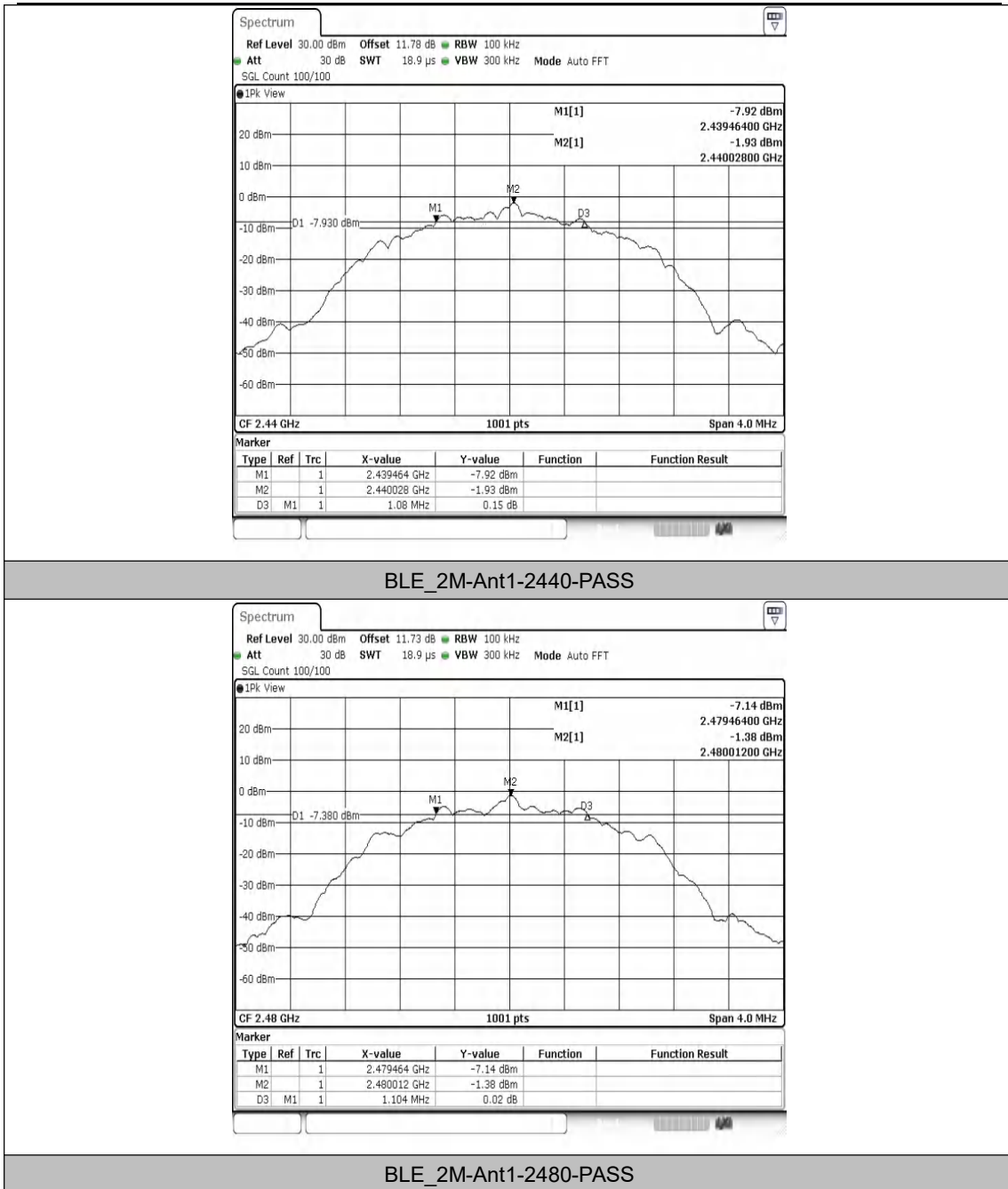
| Test Mode | Antenna | Frequency[MHz] | 6dB BW [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|-----------|---------|----------------|--------------|---------|---------|------------|---------|
| BLE_1M    | Ant1    | 2402           | 0.69         | 2401.66 | 2402.36 | 0.5        | PASS    |
| BLE_1M    | Ant1    | 2440           | 0.67         | 2439.67 | 2440.34 | 0.5        | PASS    |
| BLE_1M    | Ant1    | 2480           | 0.67         | 2479.68 | 2480.35 | 0.5        | PASS    |
| BLE_2M    | Ant1    | 2402           | 1.35         | 2401.33 | 2402.68 | 0.5        | PASS    |
| BLE_2M    | Ant1    | 2440           | 1.08         | 2439.46 | 2440.54 | 0.5        | PASS    |
| BLE_2M    | Ant1    | 2480           | 1.10         | 2479.46 | 2480.57 | 0.5        | PASS    |



## Test Graphs







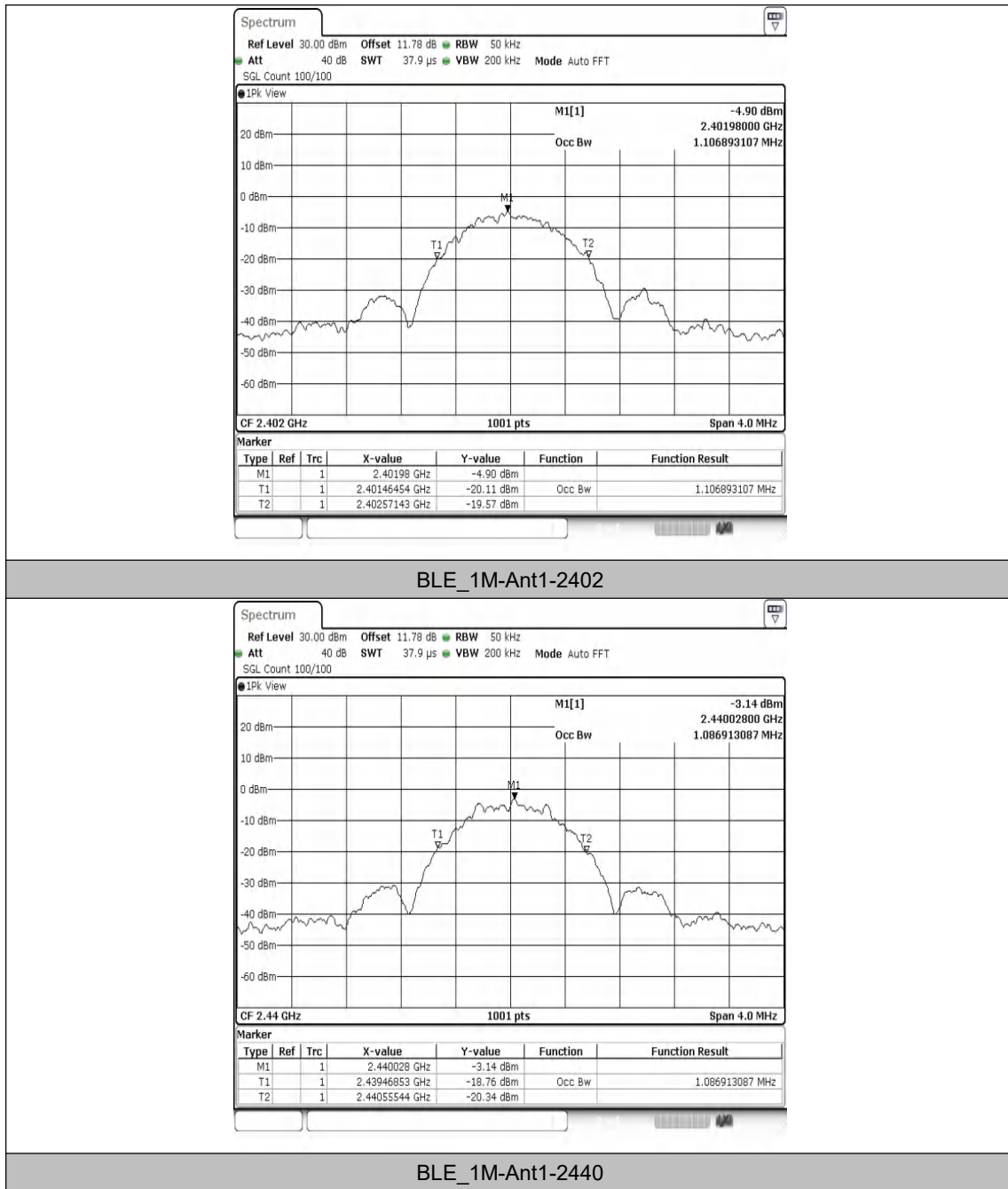
## Appendix B: 99% Occupied Bandwidth

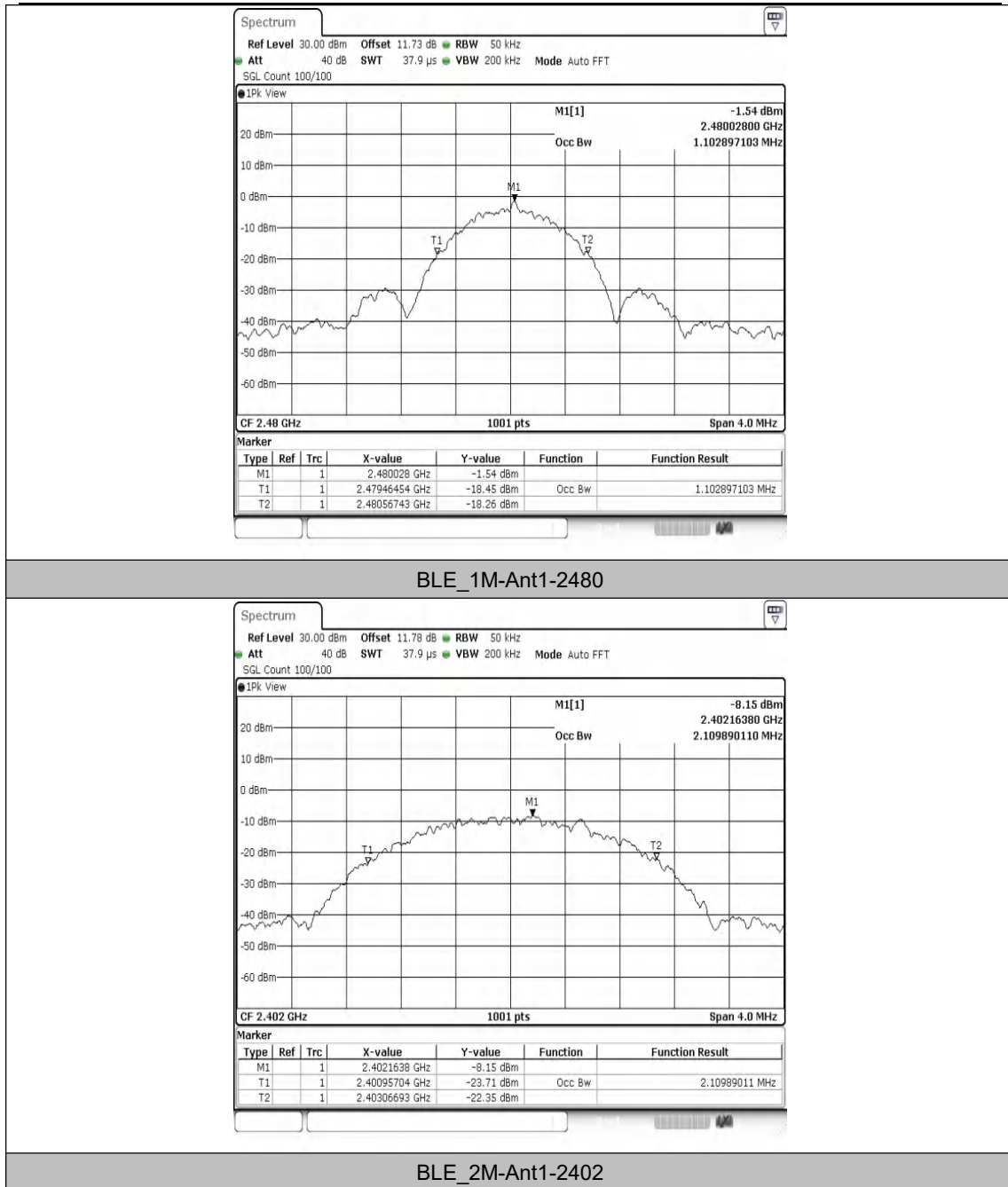
### Test Result

| Test Mode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|-----------|---------|----------------|-----------|-----------|-----------|------------|---------|
| BLE_1M    | Ant1    | 2402           | 1.107     | 2401.4645 | 2402.5714 | ---        | ---     |
| BLE_1M    | Ant1    | 2440           | 1.087     | 2439.4685 | 2440.5554 | ---        | ---     |
| BLE_1M    | Ant1    | 2480           | 1.103     | 2479.4645 | 2480.5674 | ---        | ---     |
| BLE_2M    | Ant1    | 2402           | 2.11      | 2400.9570 | 2403.0669 | ---        | ---     |
| BLE_2M    | Ant1    | 2440           | 2.086     | 2438.9770 | 2441.0629 | ---        | ---     |
| BLE_2M    | Ant1    | 2480           | 2.078     | 2478.9810 | 2481.0589 | ---        | ---     |



## Test Graphs



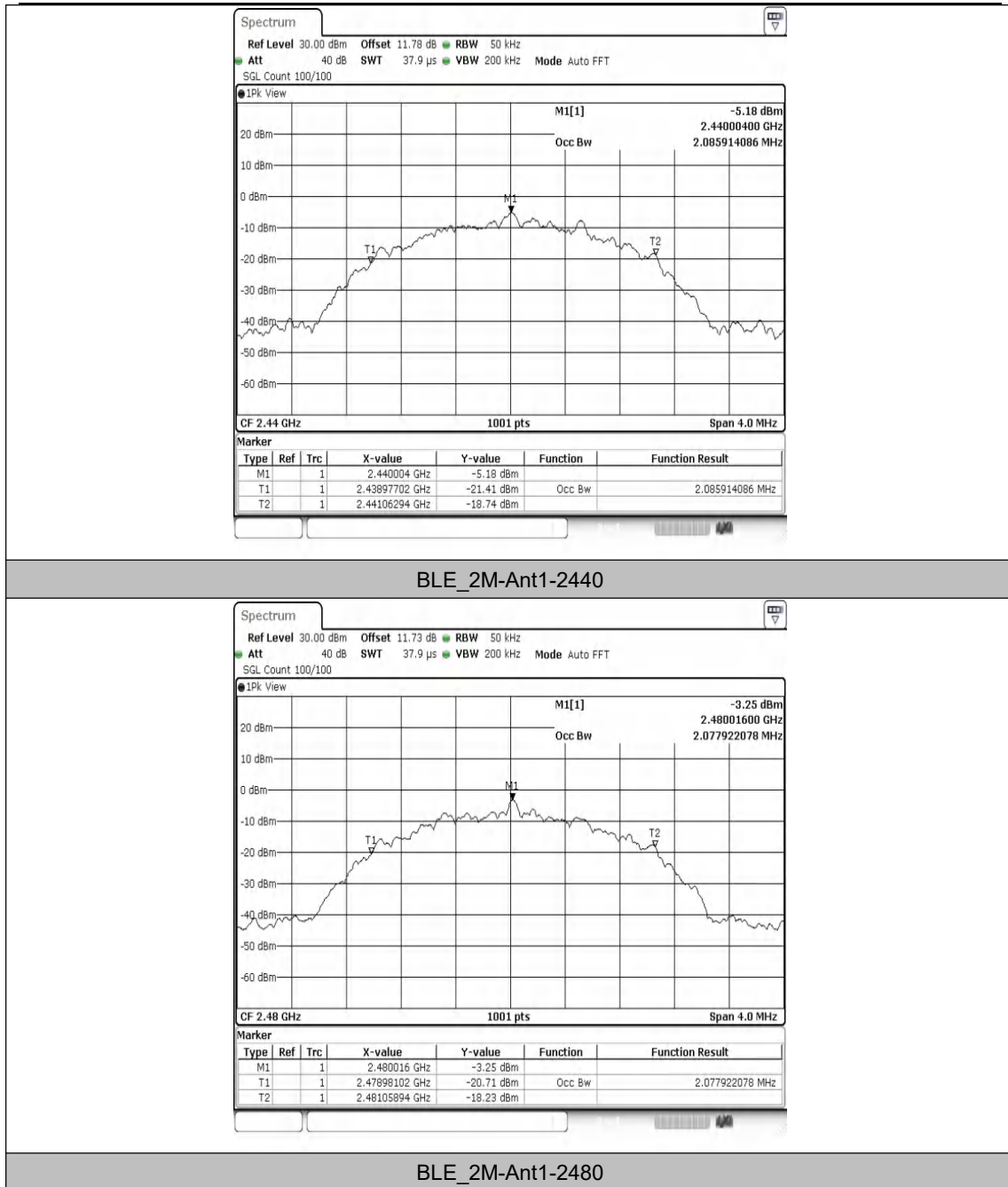


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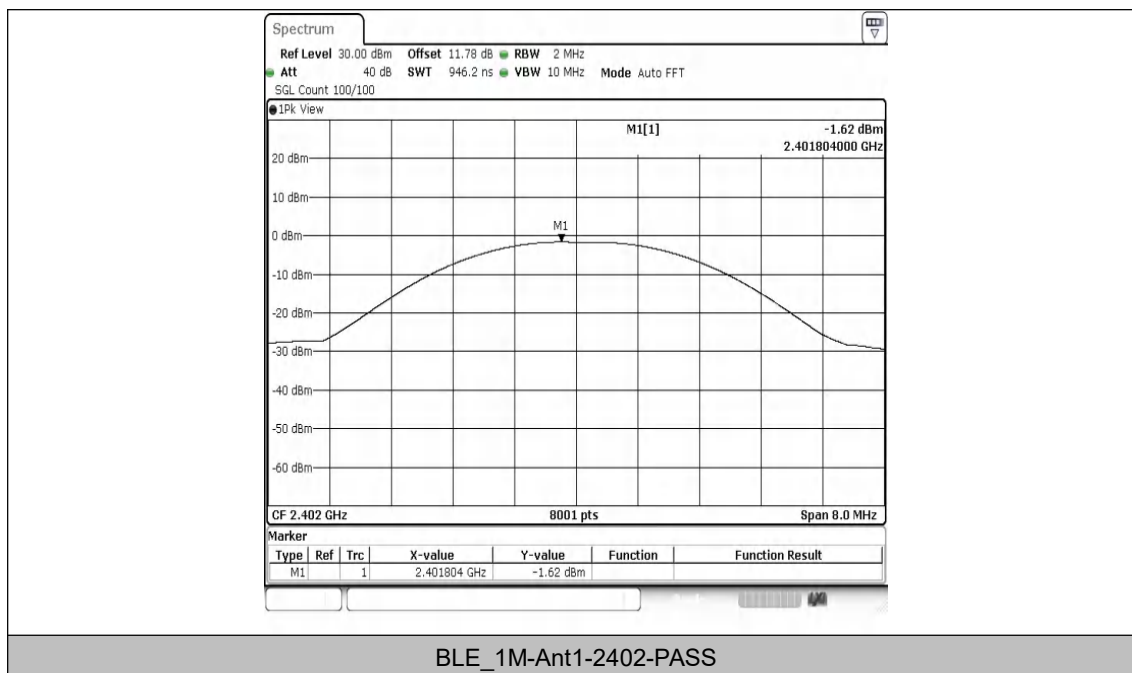


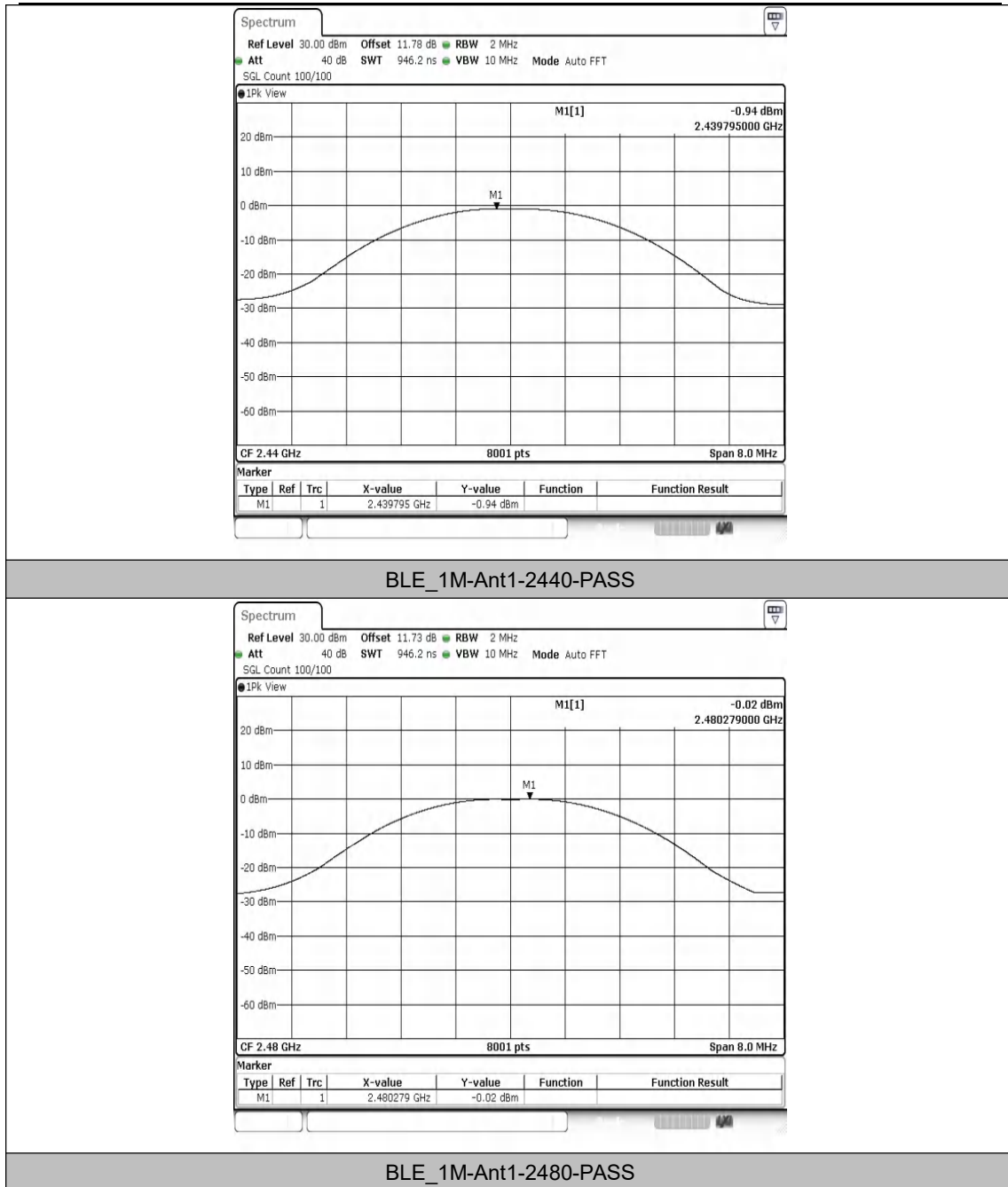
## Appendix C: Maximum conducted output power

### Test Result Peak

| Test Mode | Antenna | Frequency [MHz] | Conducted Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|-----------|---------|-----------------|---------------------------|----------------------|---------|
| BLE_1M    | Ant1    | 2402            | -1.62                     | ≤30                  | PASS    |
| BLE_1M    | Ant1    | 2440            | -0.94                     | ≤30                  | PASS    |
| BLE_1M    | Ant1    | 2480            | -0.02                     | ≤30                  | PASS    |
| BLE_2M    | Ant1    | 2402            | -1.54                     | ≤30                  | PASS    |
| BLE_2M    | Ant1    | 2440            | -0.93                     | ≤30                  | PASS    |
| BLE_2M    | Ant1    | 2480            | 0.00                      | ≤30                  | PASS    |

### Test Graphs Peak



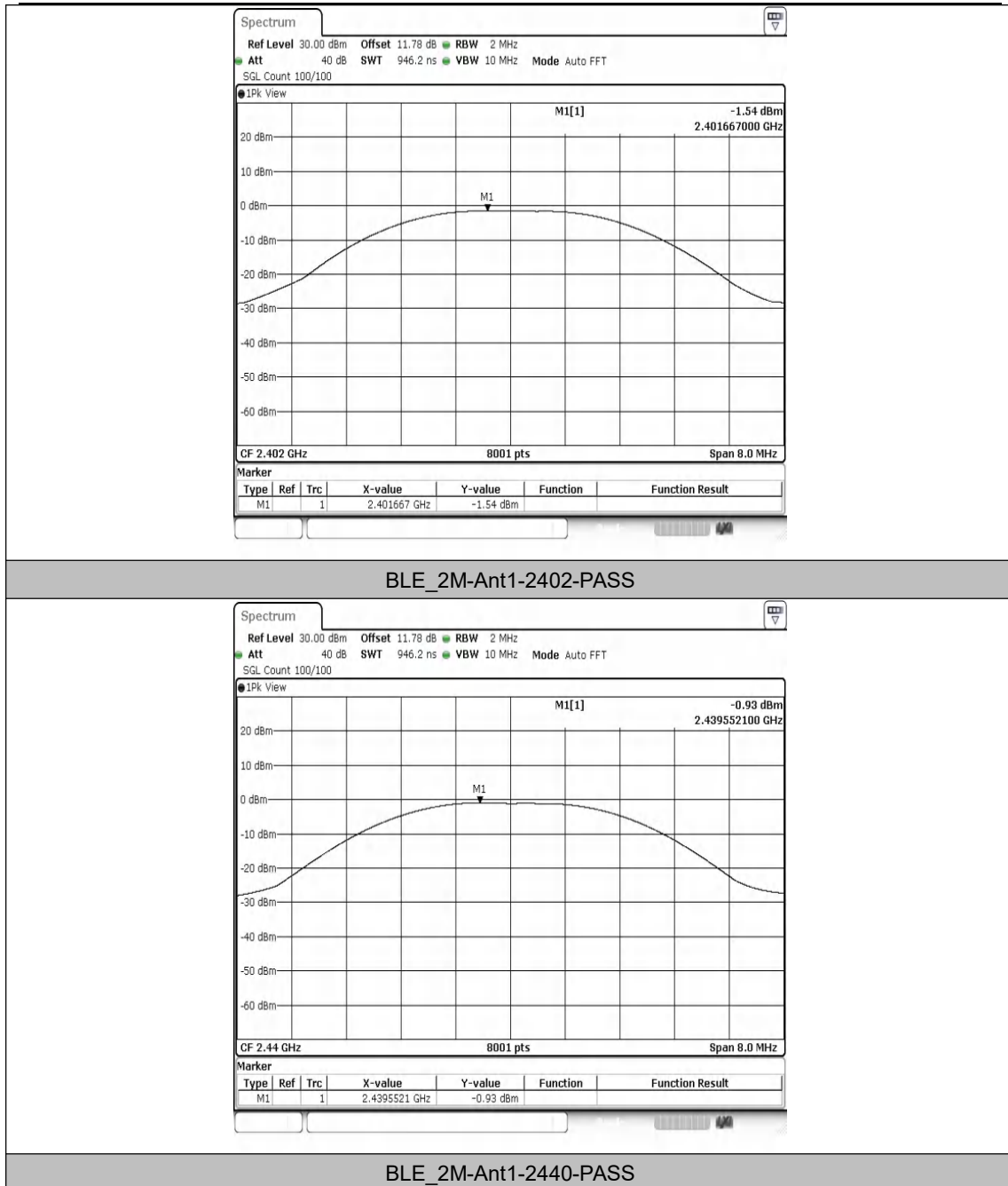


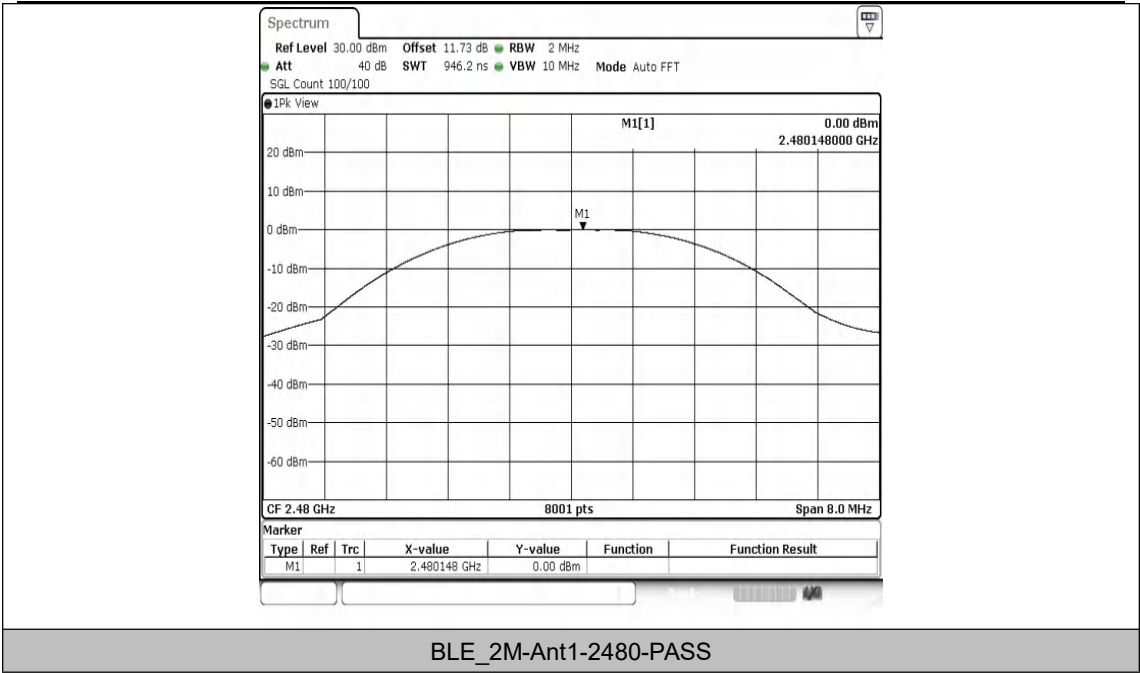
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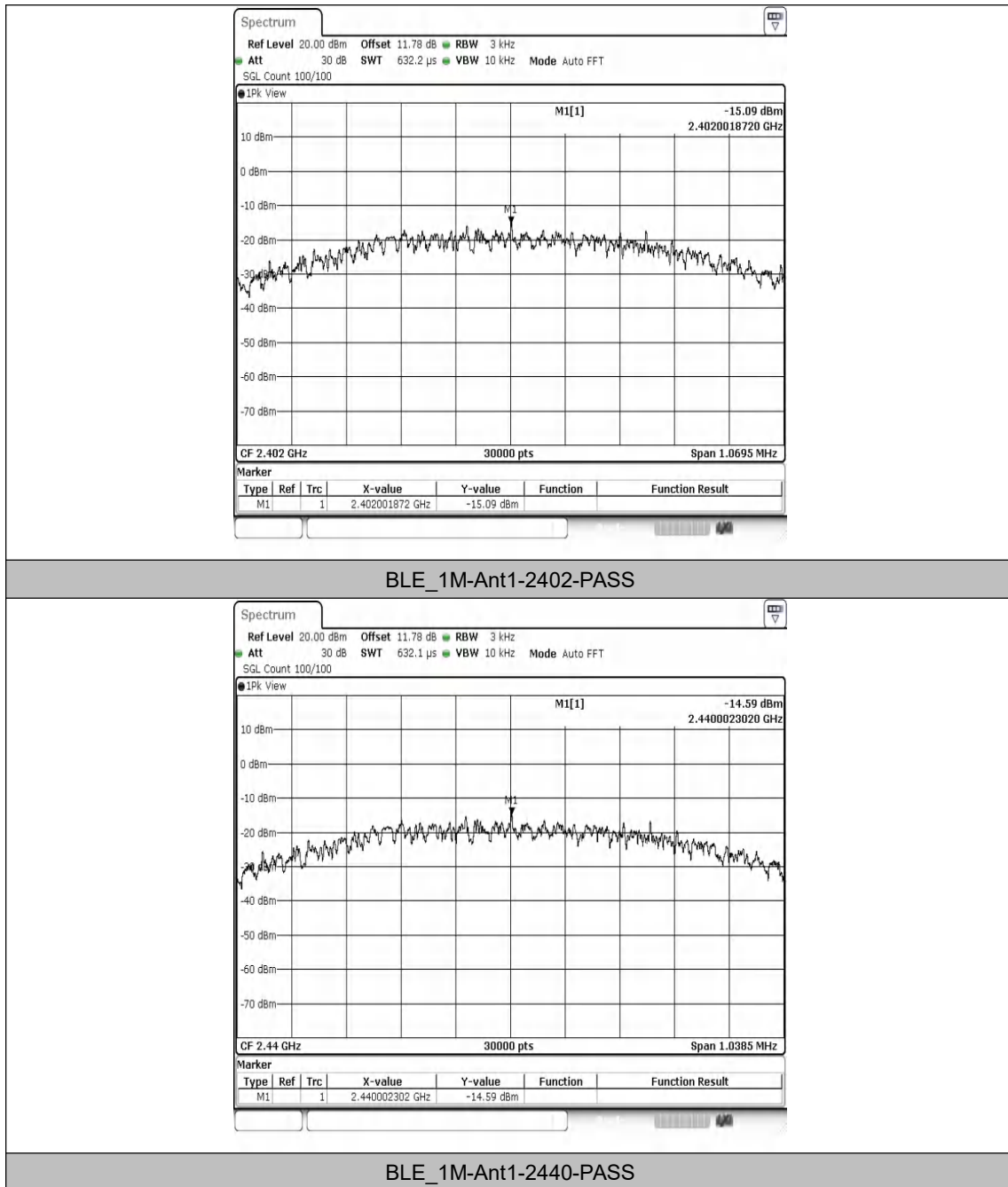
## Appendix D: Maximum power spectral density

### Test Result

| TestMode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|----------------|------------------|-----------------|---------|
| BLE_1M   | Ant1    | 2402           | -15.09           | ≤8.00           | PASS    |
| BLE_1M   | Ant1    | 2440           | -14.59           | ≤8.00           | PASS    |
| BLE_1M   | Ant1    | 2480           | -13.56           | ≤8.00           | PASS    |
| BLE_2M   | Ant1    | 2402           | -17.64           | ≤8.00           | PASS    |
| BLE_2M   | Ant1    | 2440           | -17.07           | ≤8.00           | PASS    |
| BLE_2M   | Ant1    | 2480           | -16.13           | ≤8.00           | PASS    |



## Test Graphs

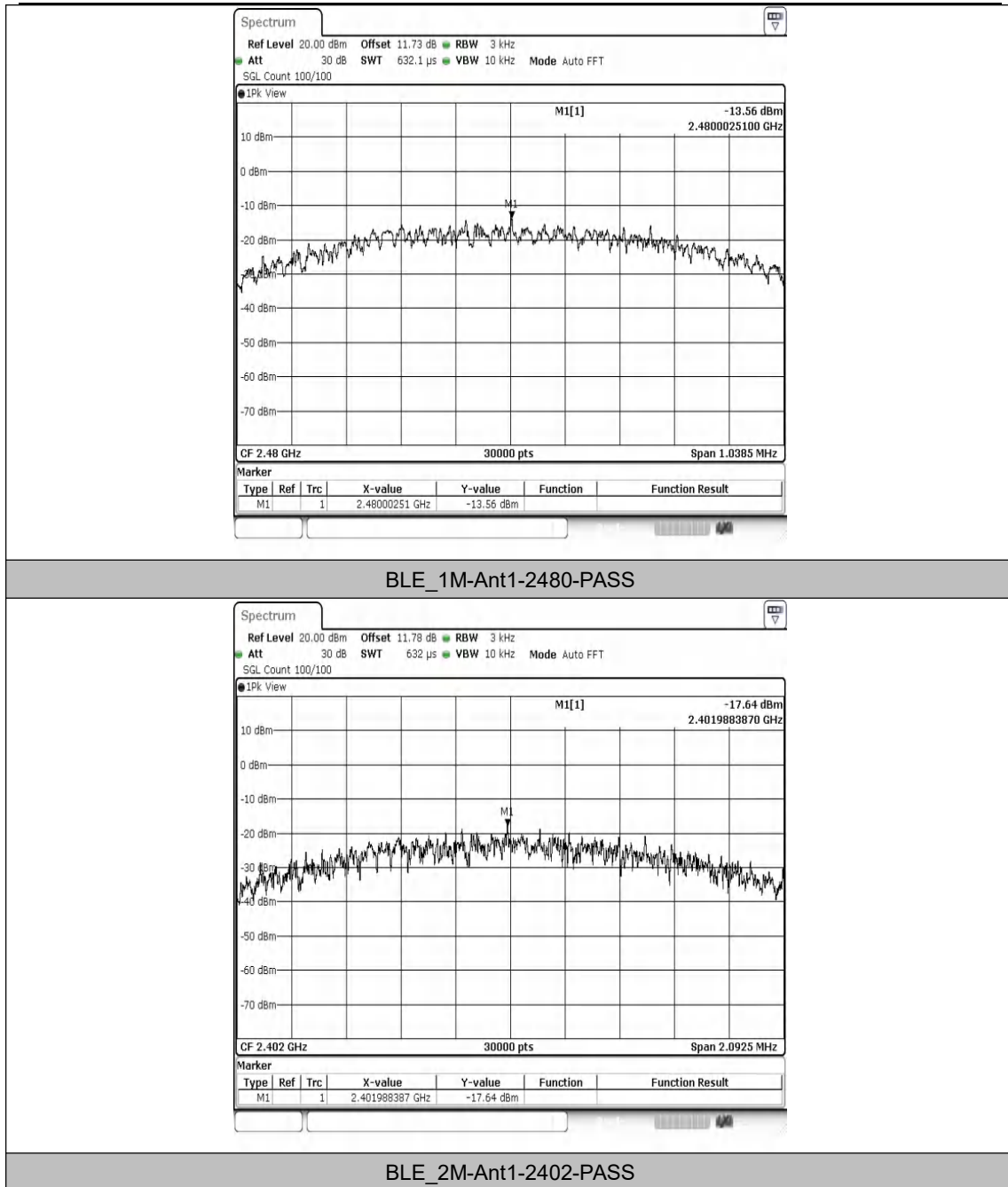


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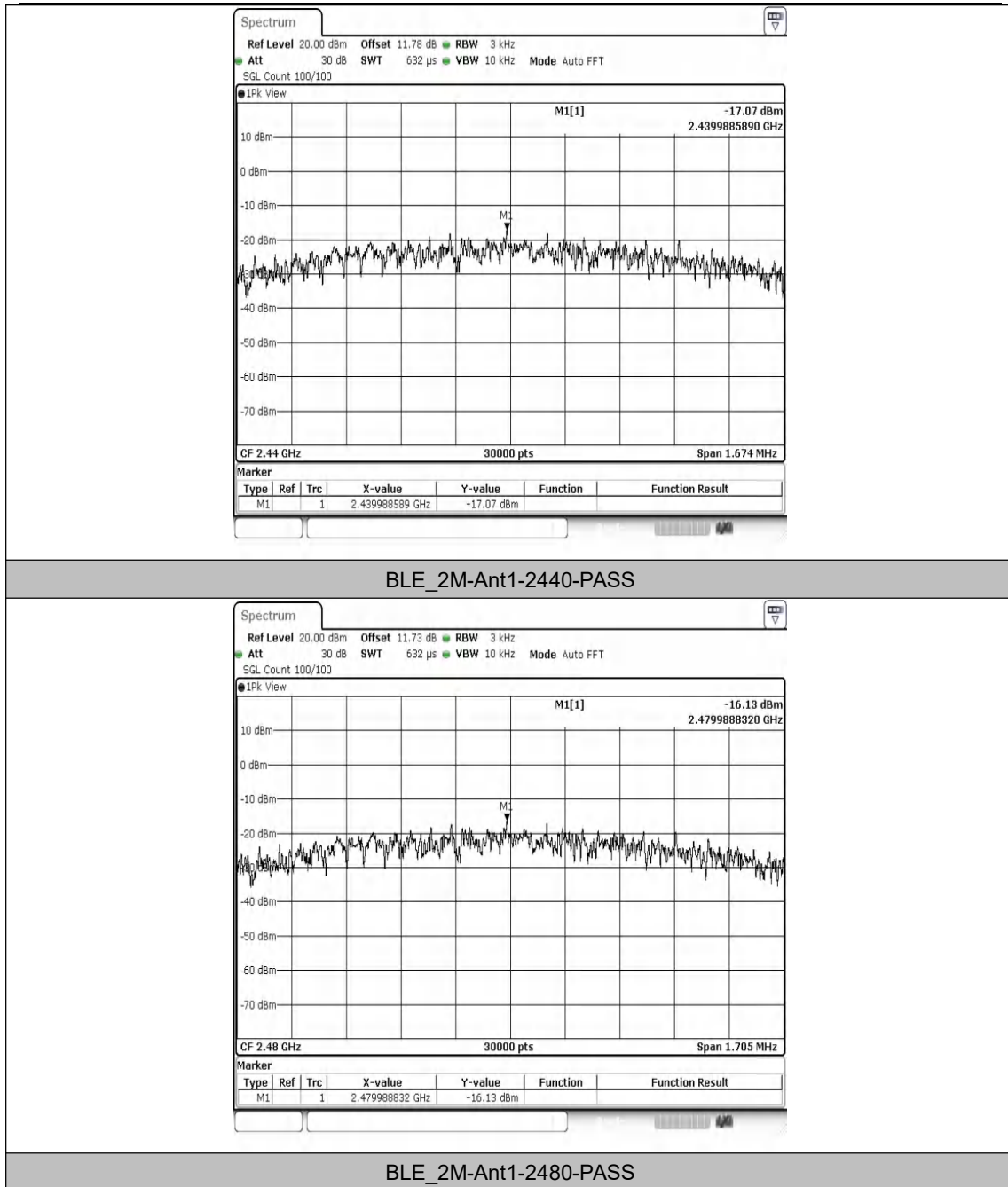
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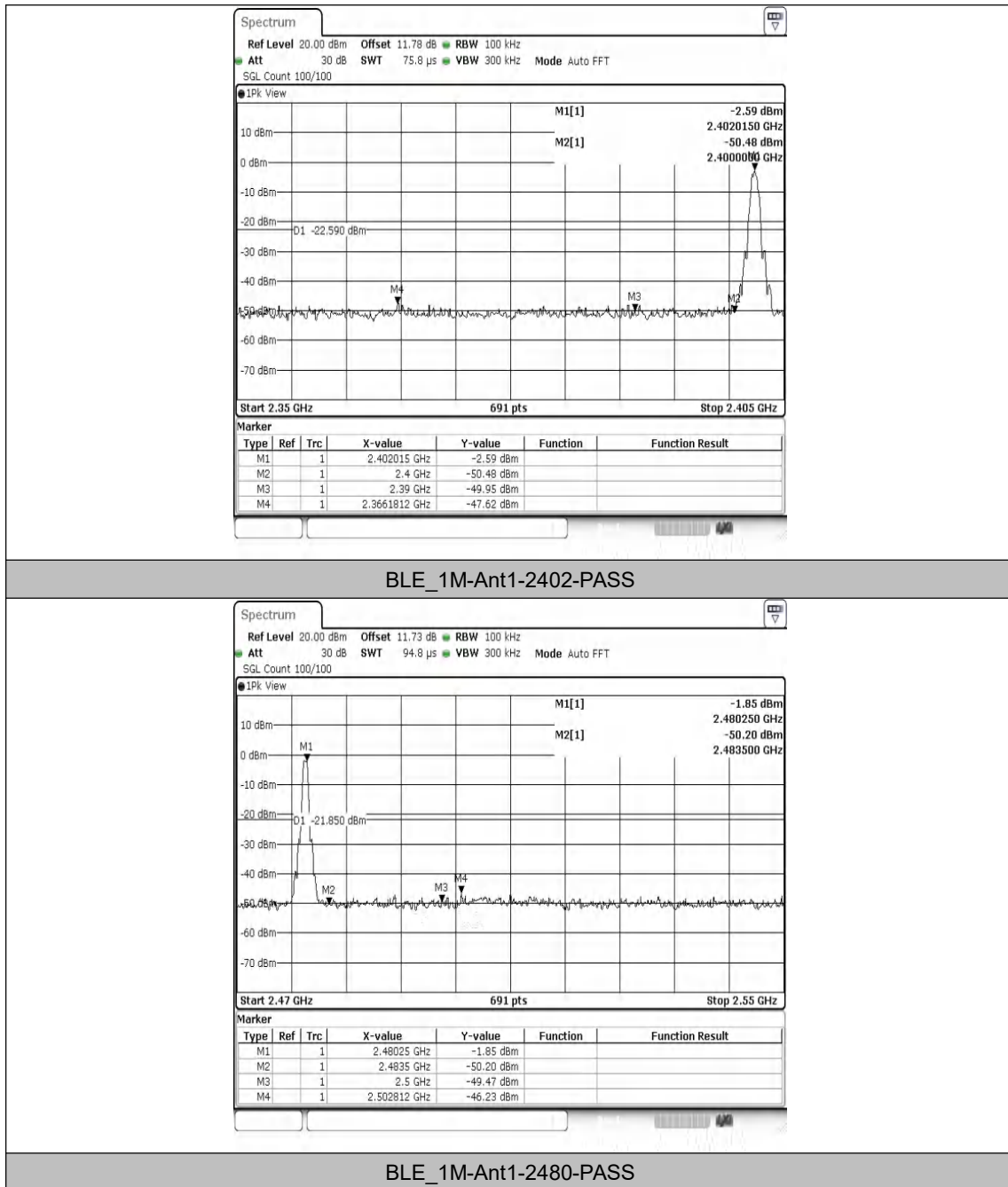
## Appendix E: Band edge measurements

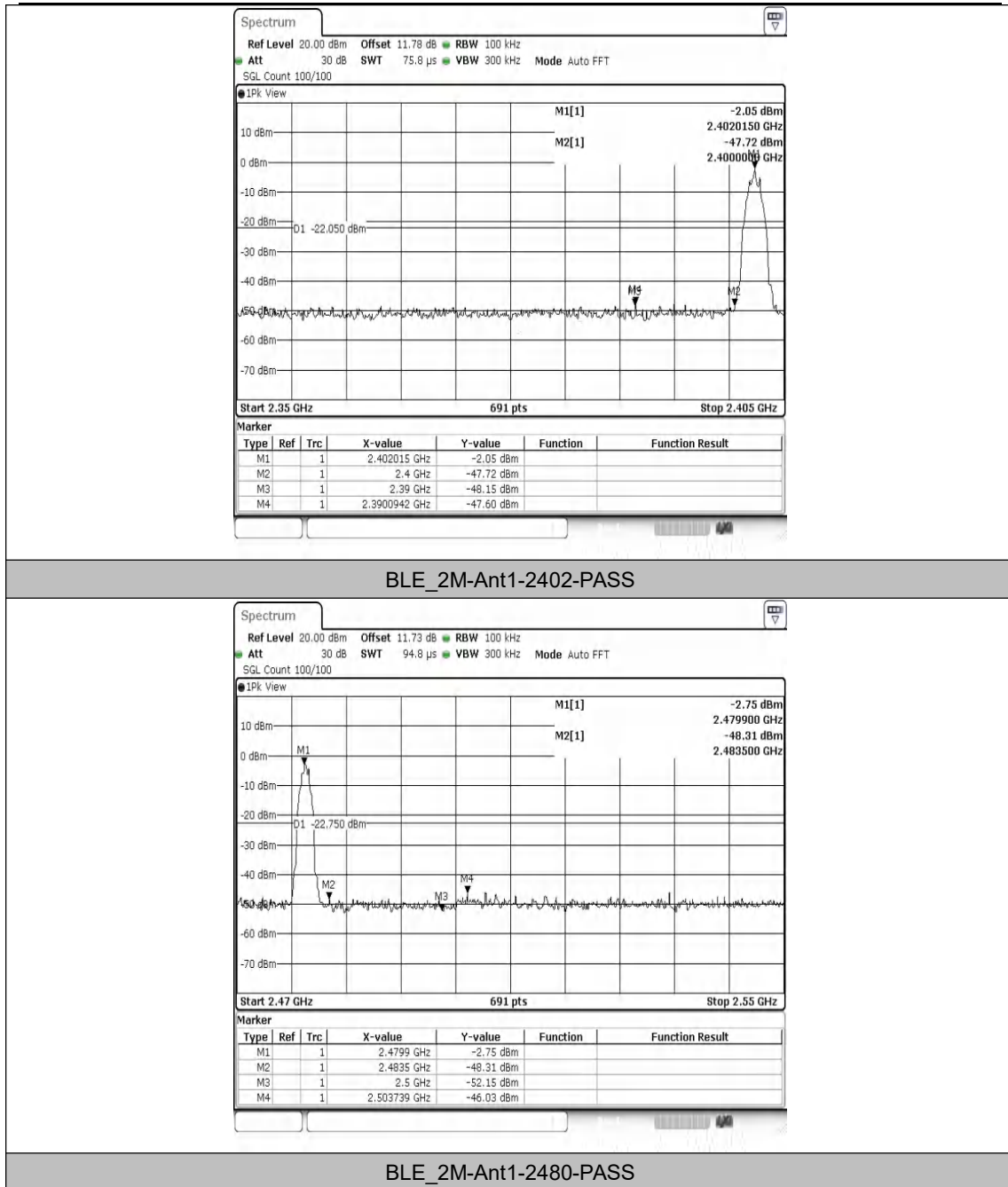
### Test Result

| Test Mode | Antenna | ChName | Frequency [MHz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|--------|-----------------|----------------|--------------|-------------|---------|
| BLE_1M    | Ant1    | Low    | 2402            | -2.59          | -47.62       | ≤-22.59     | PASS    |
| BLE_1M    | Ant1    | High   | 2480            | -1.85          | -46.23       | ≤-21.85     | PASS    |
| BLE_2M    | Ant1    | Low    | 2402            | -2.05          | -47.6        | ≤-22.05     | PASS    |
| BLE_2M    | Ant1    | High   | 2480            | -2.75          | -46.03       | ≤-22.75     | PASS    |



## Test Graphs





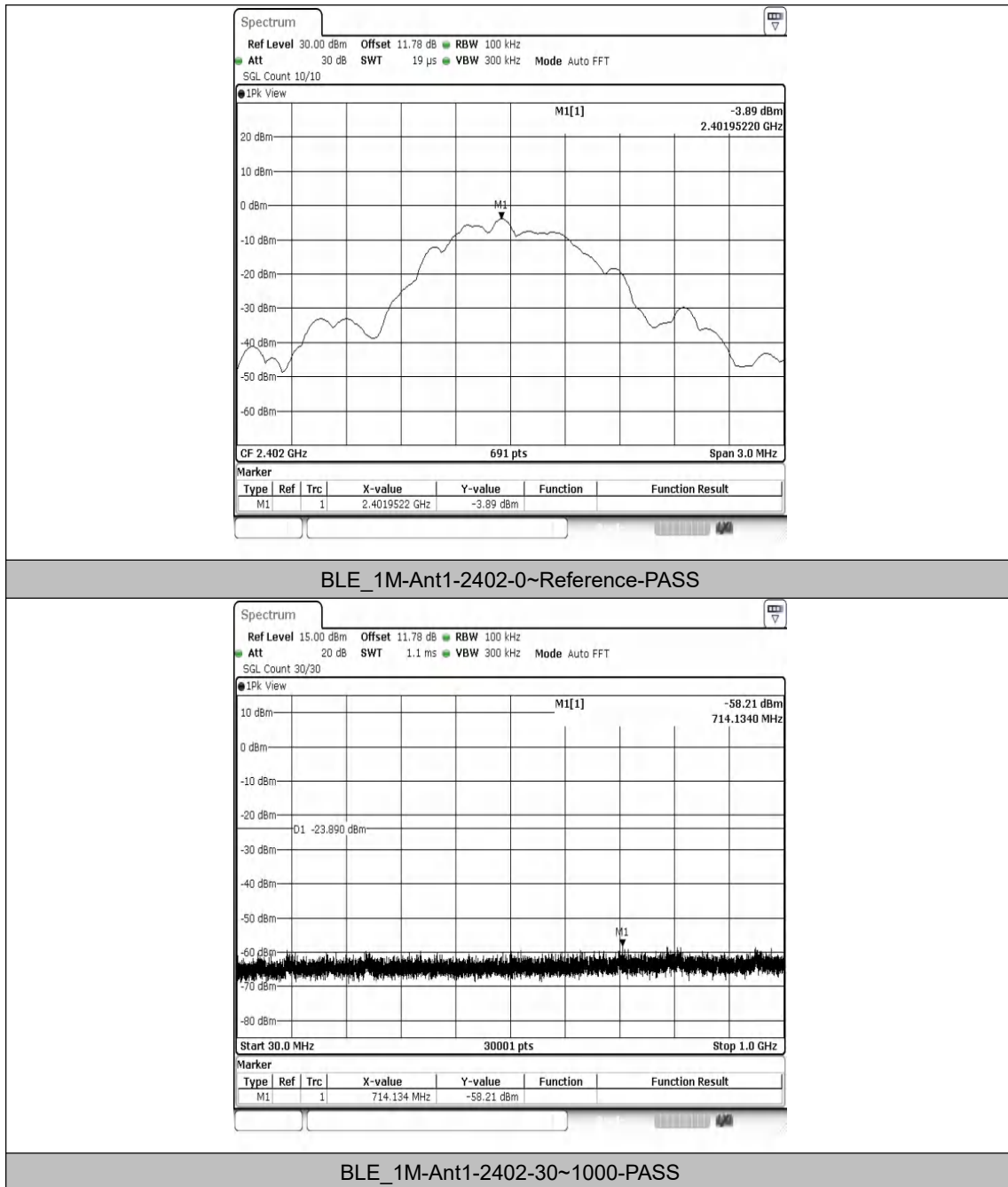
## Appendix F: Conducted Spurious Emission

### Test Result

| Test Mode | Antenna | Frequency [MHz] | Freq. Range [MHz] | Ref. Level [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|-----------------|-------------------|------------------|--------------|-------------|---------|
| BLE_1M    | Ant1    | 2402            | 0~Reference       | -3.89            | -3.89        | ---         | PASS    |
| BLE_1M    | Ant1    | 2402            | 30~1000           | -3.89            | -58.21       | ≤-23.89     | PASS    |
| BLE_1M    | Ant1    | 2402            | 1000~26500        | -3.89            | -43.06       | ≤-23.89     | PASS    |
| BLE_1M    | Ant1    | 2440            | 0~Reference       | -3.69            | -3.69        | ---         | PASS    |
| BLE_1M    | Ant1    | 2440            | 30~1000           | -3.69            | -58.28       | ≤-23.69     | PASS    |
| BLE_1M    | Ant1    | 2440            | 1000~26500        | -3.69            | -38.8        | ≤-23.69     | PASS    |
| BLE_1M    | Ant1    | 2480            | 0~Reference       | -2.99            | -2.99        | ---         | PASS    |
| BLE_1M    | Ant1    | 2480            | 30~1000           | -2.99            | -57.94       | ≤-22.99     | PASS    |
| BLE_1M    | Ant1    | 2480            | 1000~26500        | -2.99            | -39.01       | ≤-22.99     | PASS    |
| BLE_2M    | Ant1    | 2402            | 0~Reference       | -5.49            | -5.49        | ---         | PASS    |
| BLE_2M    | Ant1    | 2402            | 30~1000           | -5.49            | -58.11       | ≤-25.49     | PASS    |
| BLE_2M    | Ant1    | 2402            | 1000~26500        | -5.49            | -44.25       | ≤-25.49     | PASS    |
| BLE_2M    | Ant1    | 2440            | 0~Reference       | -4.15            | -4.15        | ---         | PASS    |
| BLE_2M    | Ant1    | 2440            | 30~1000           | -4.15            | -58.56       | ≤-24.15     | PASS    |
| BLE_2M    | Ant1    | 2440            | 1000~26500        | -4.15            | -43.17       | ≤-24.15     | PASS    |
| BLE_2M    | Ant1    | 2480            | 0~Reference       | -5.00            | -5.00        | ---         | PASS    |
| BLE_2M    | Ant1    | 2480            | 30~1000           | -5.00            | -57.78       | ≤-25        | PASS    |
| BLE_2M    | Ant1    | 2480            | 1000~26500        | -5.00            | -37.47       | ≤-25        | PASS    |



## Test Graphs



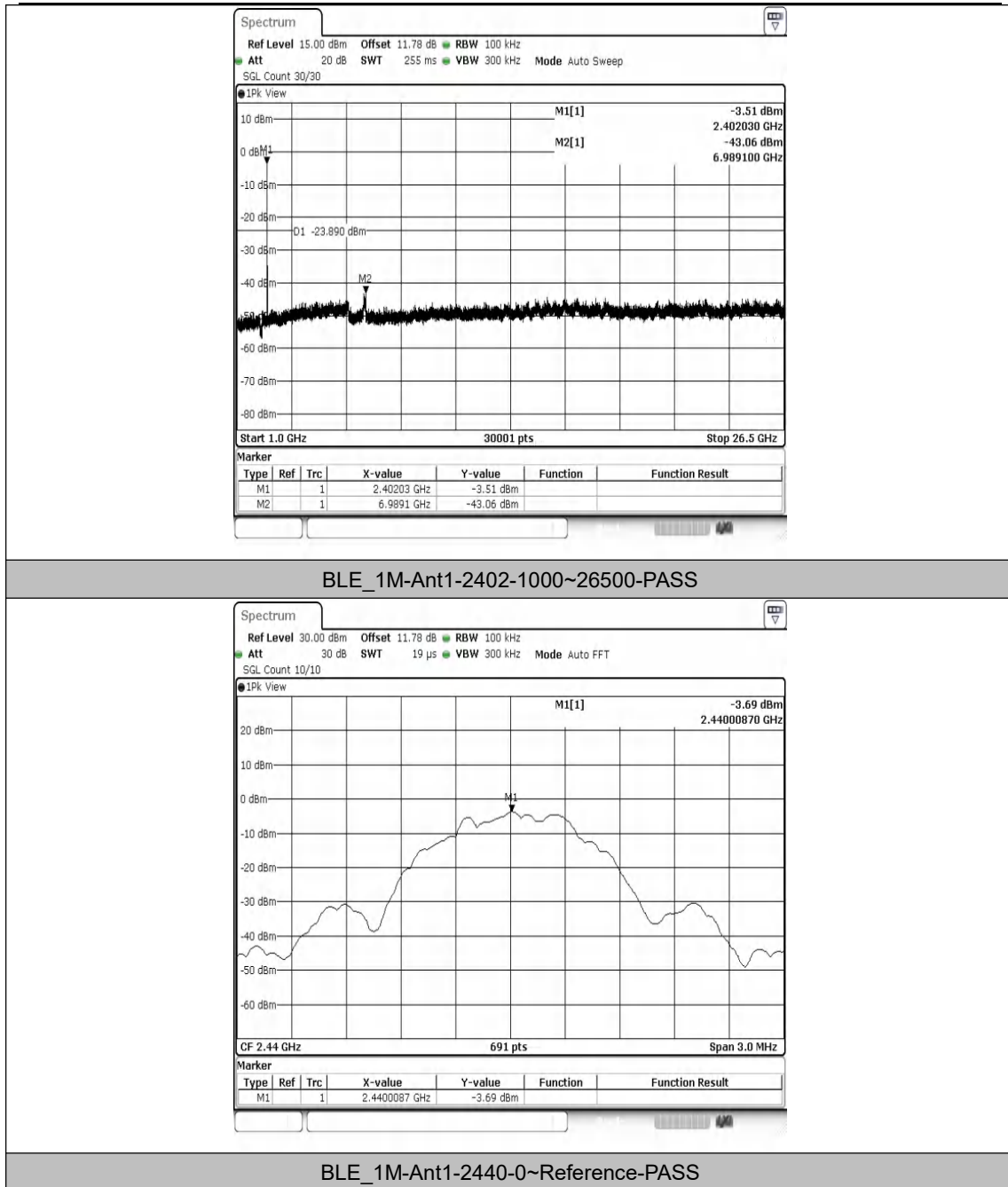
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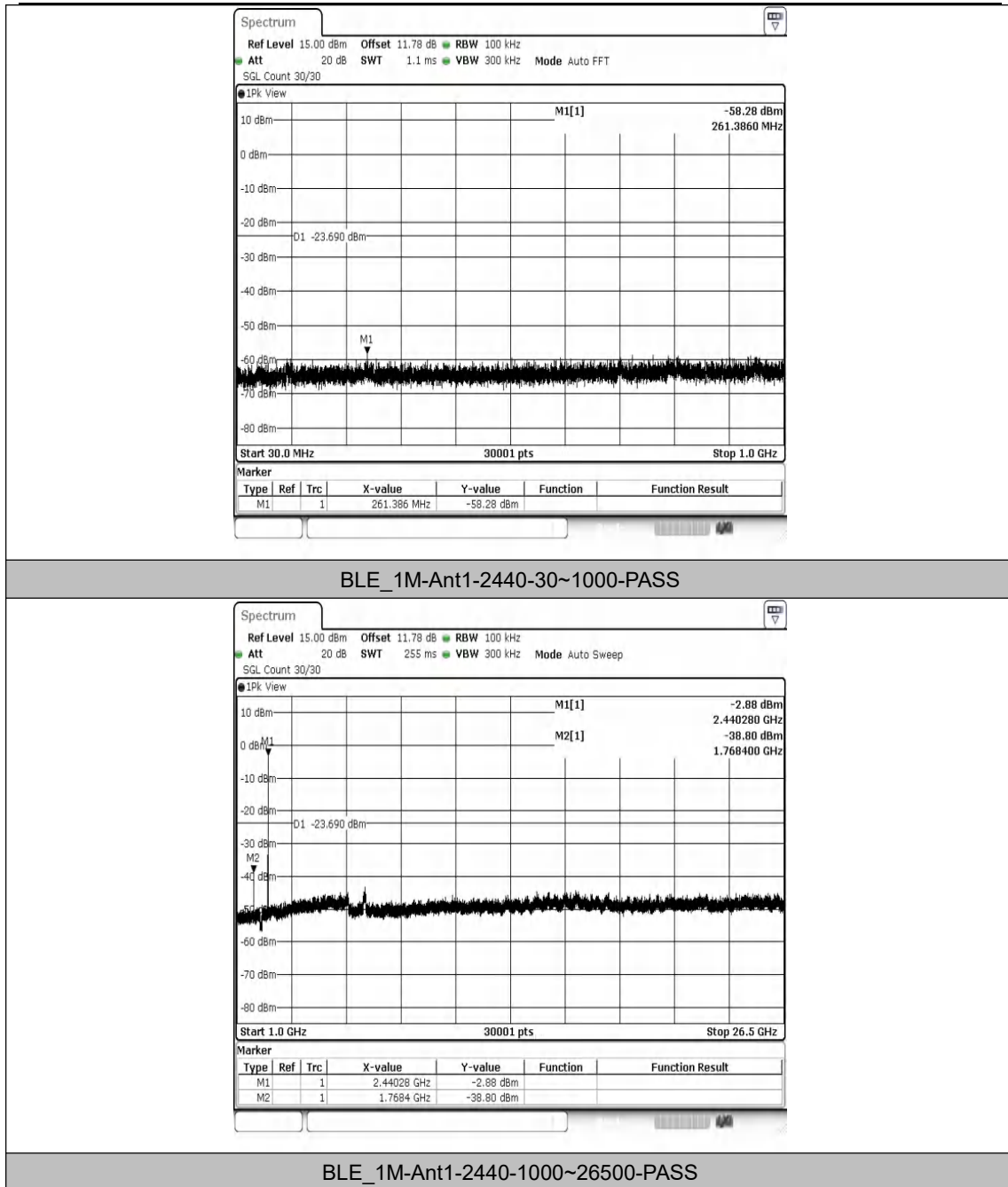


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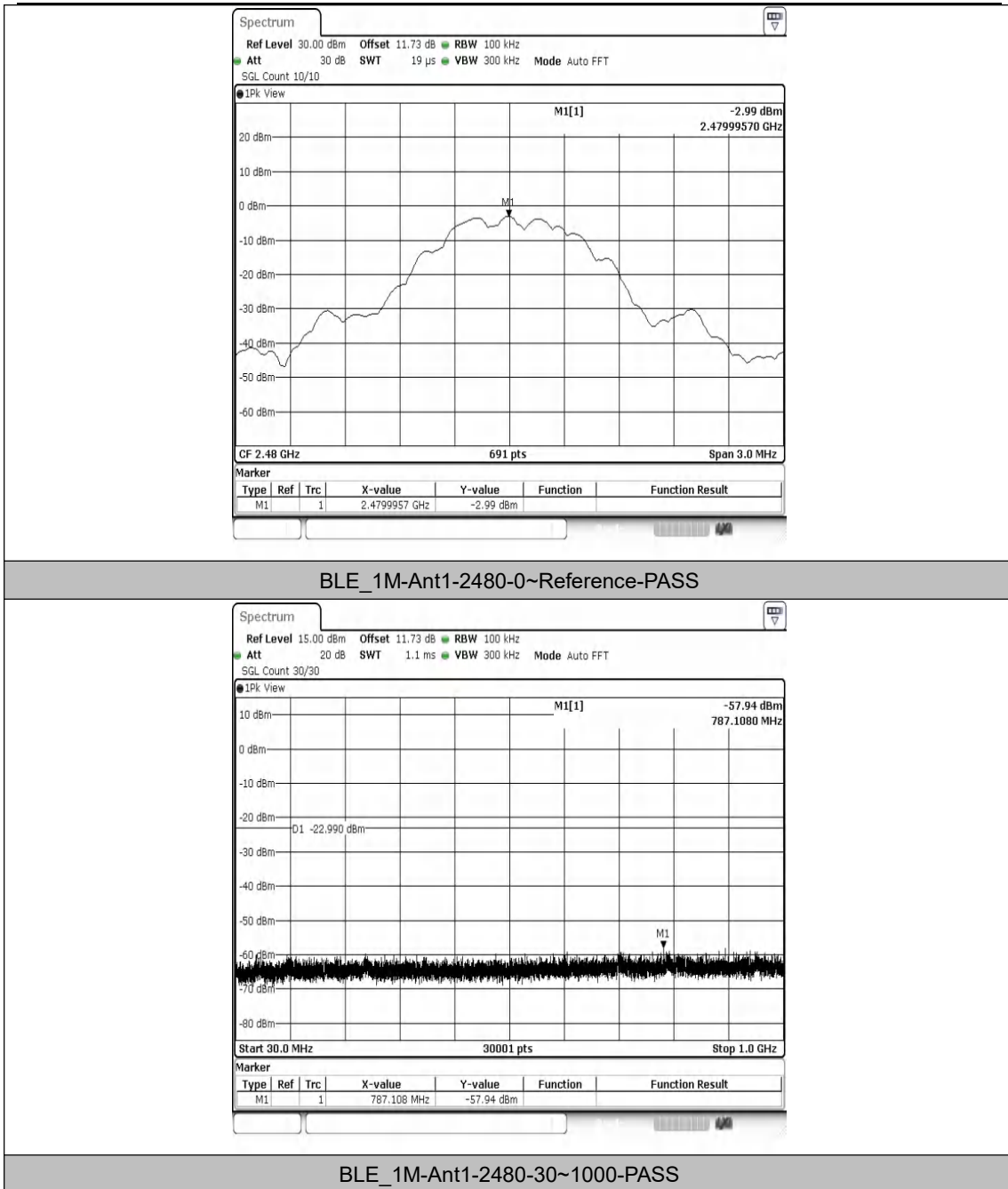


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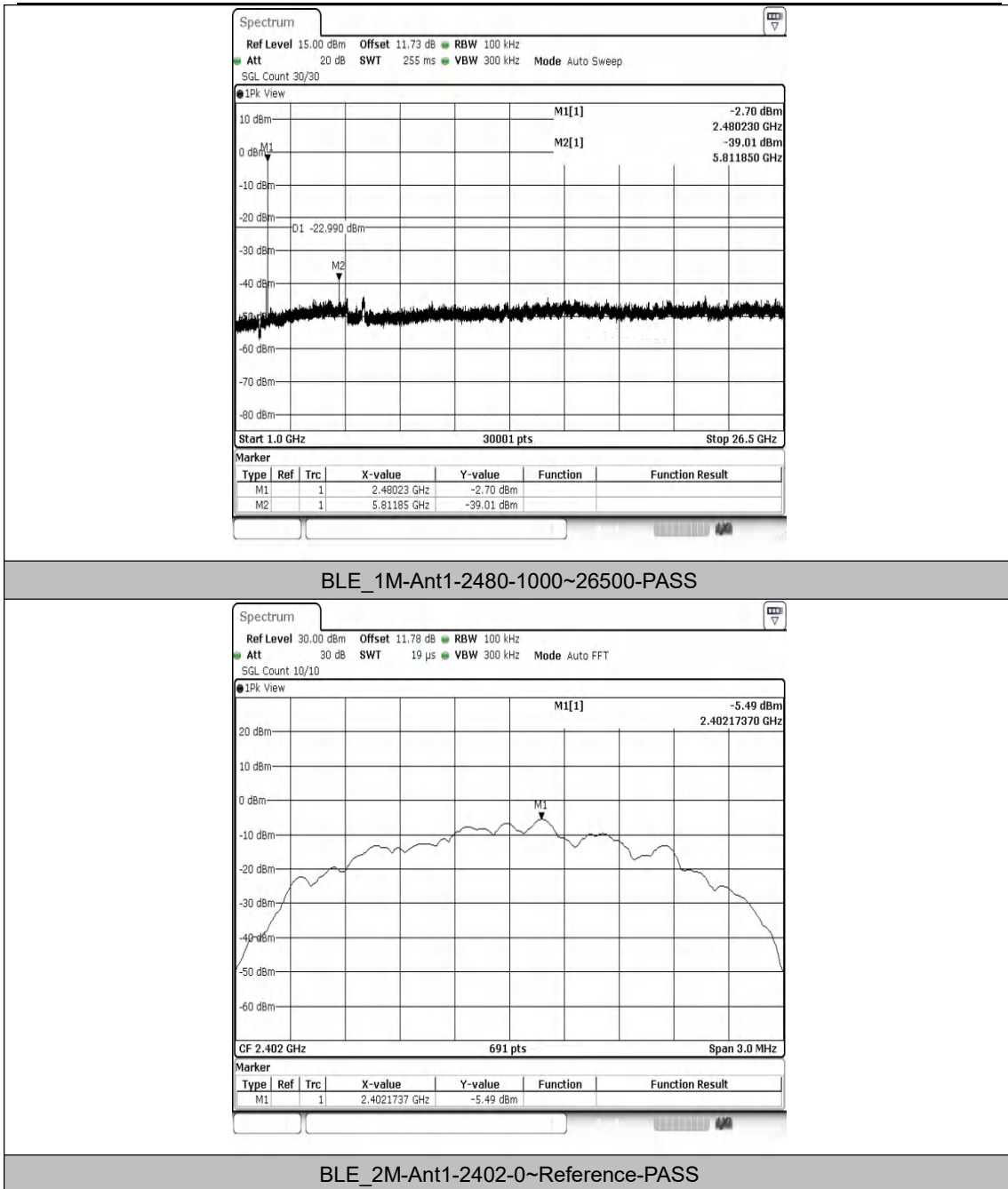


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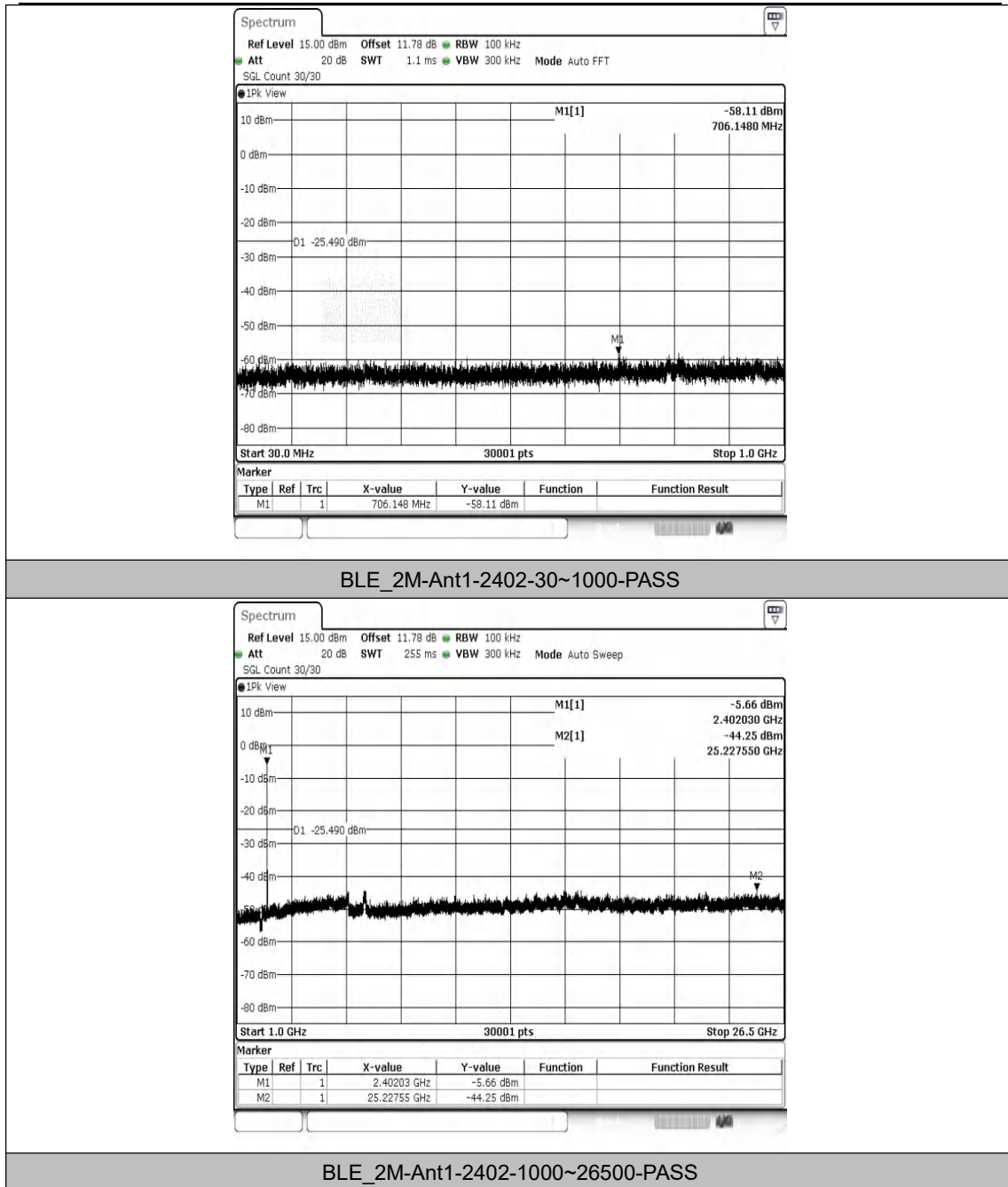


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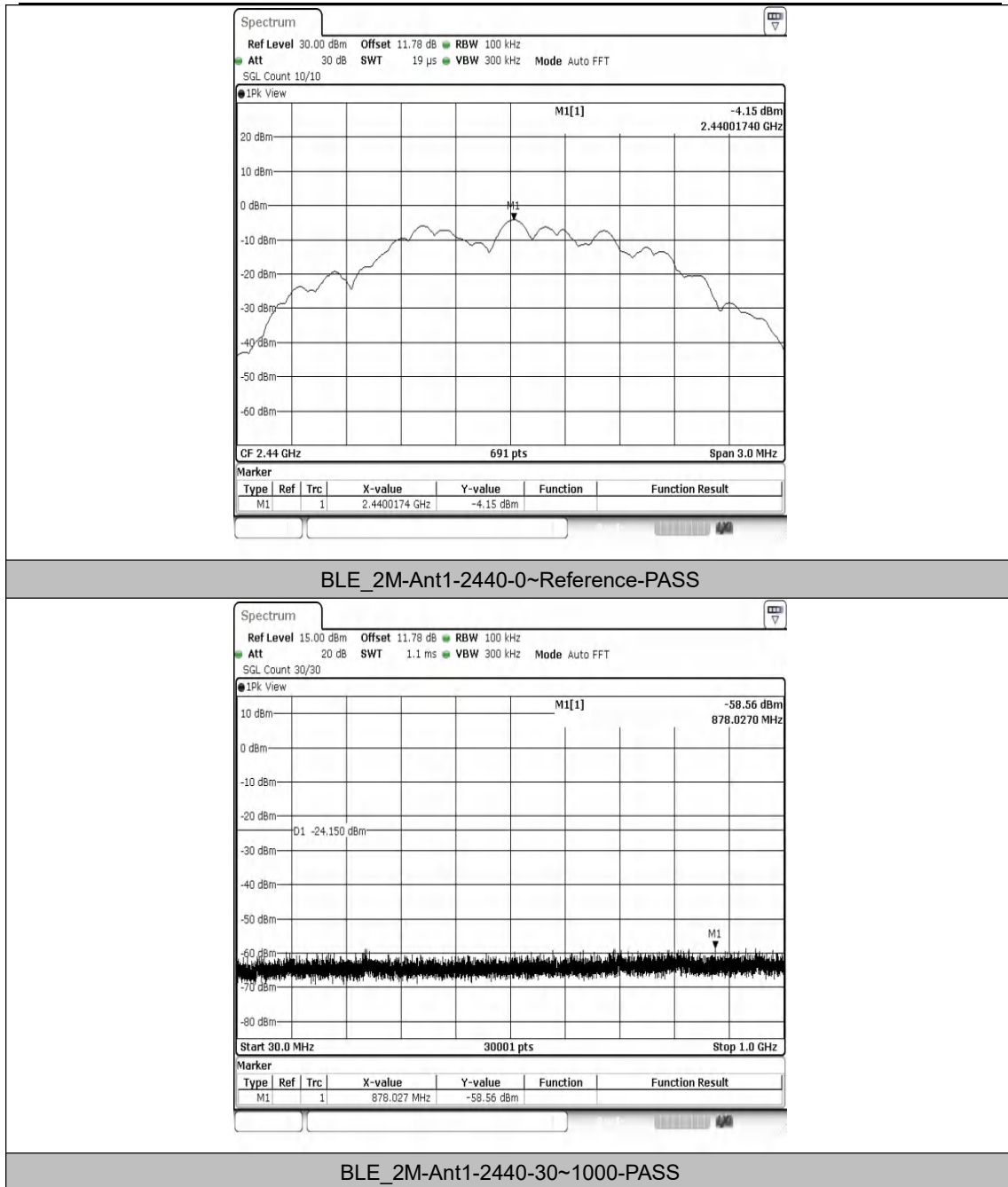


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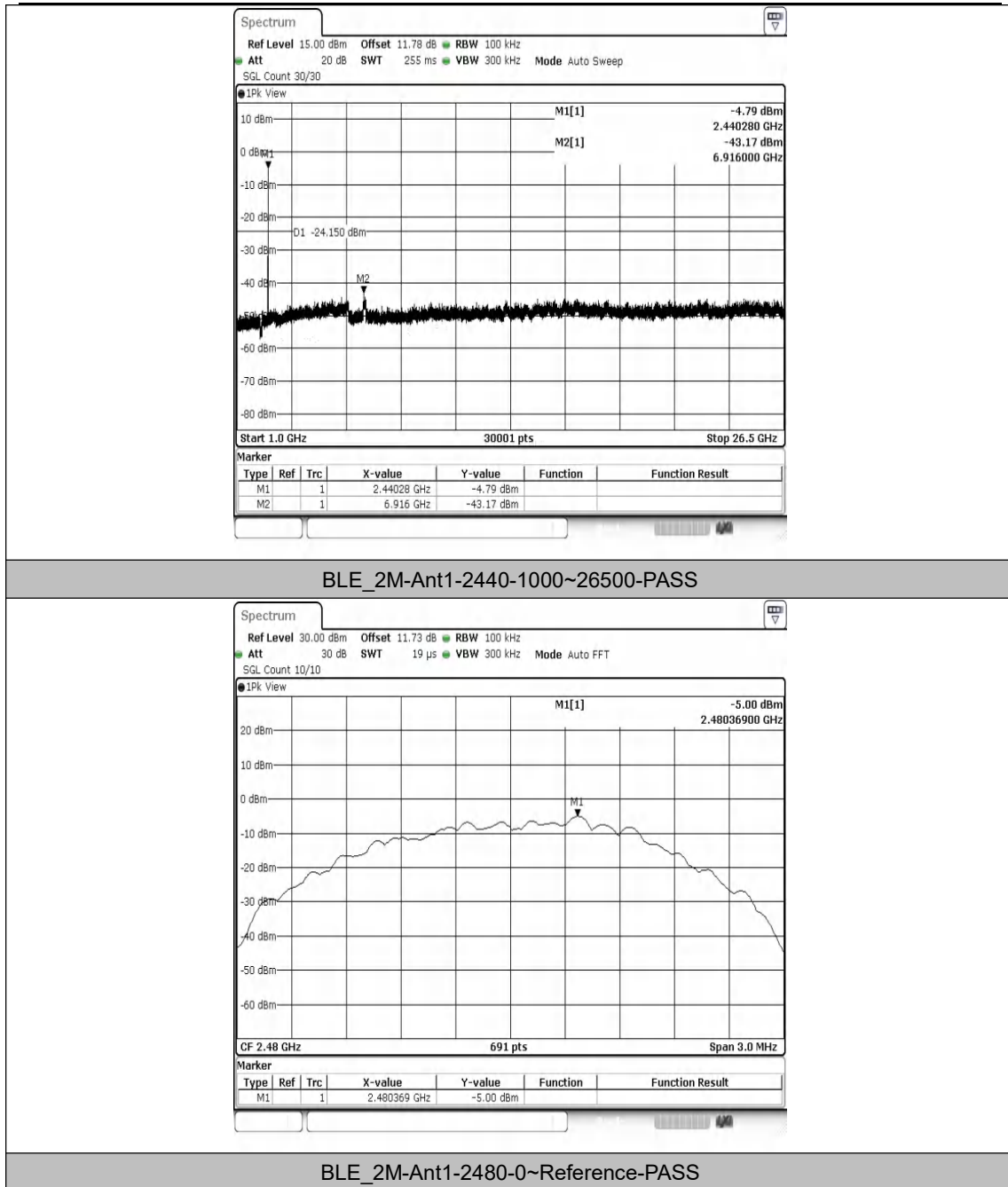


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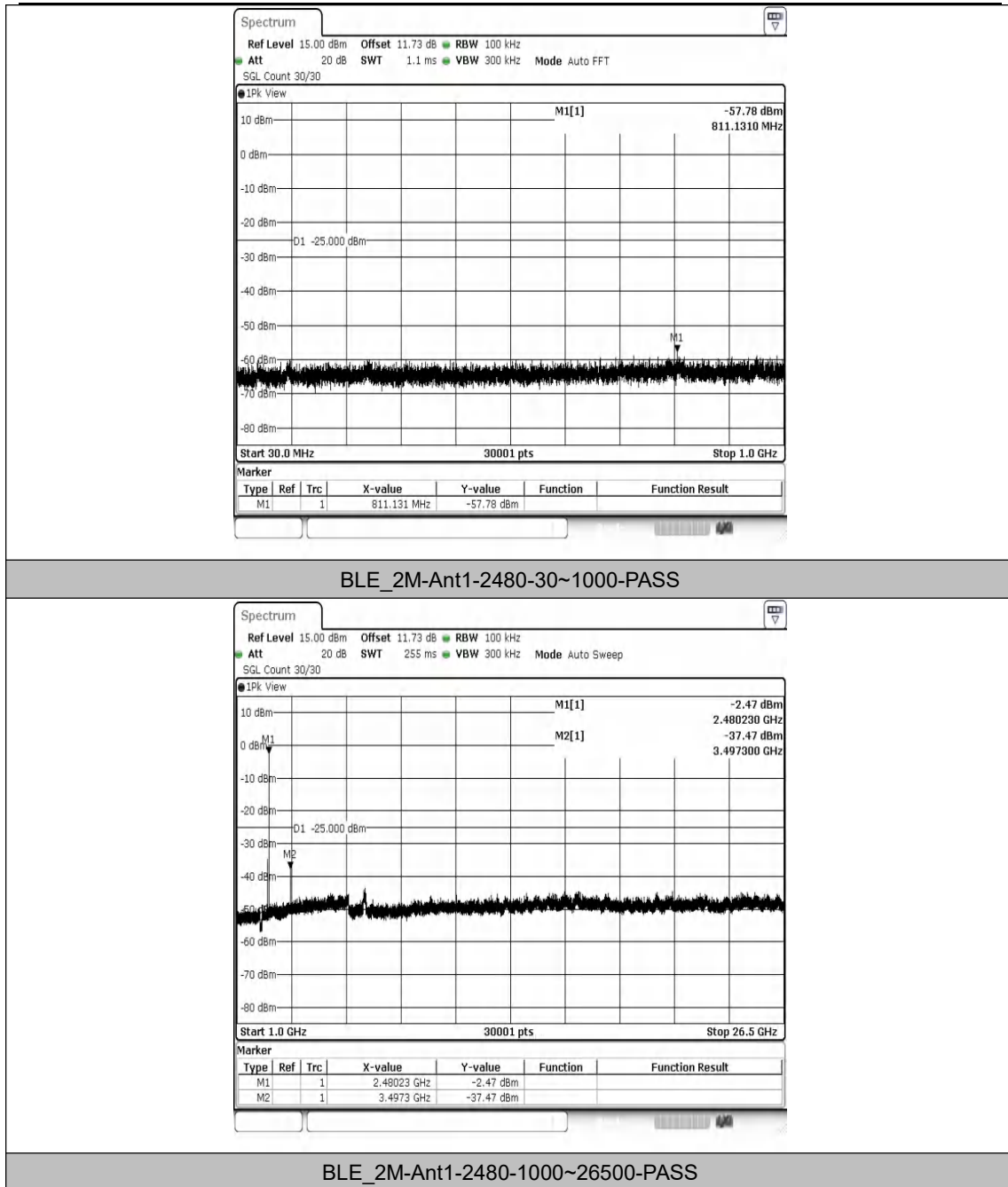


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## Appendix G: Duty Cycle

### Test Result

| Test Mode | Antenna | Frequency [MHz] | ON Time [ms] | Period [ms] | Duty Cycle [%] | Duty Cycle Factor[dB] |
|-----------|---------|-----------------|--------------|-------------|----------------|-----------------------|
| BLE_1M    | Ant1    | 2402            | 2.10         | 2.50        | 84.00          | 0.76                  |
| BLE_1M    | Ant1    | 2440            | 2.10         | 2.50        | 84.00          | 0.76                  |
| BLE_1M    | Ant1    | 2480            | 2.10         | 2.50        | 84.00          | 0.76                  |
| BLE_2M    | Ant1    | 2402            | 1.06         | 1.88        | 56.38          | 2.49                  |
| BLE_2M    | Ant1    | 2440            | 1.06         | 1.88        | 56.38          | 2.49                  |
| BLE_2M    | Ant1    | 2480            | 1.06         | 1.88        | 56.38          | 2.49                  |

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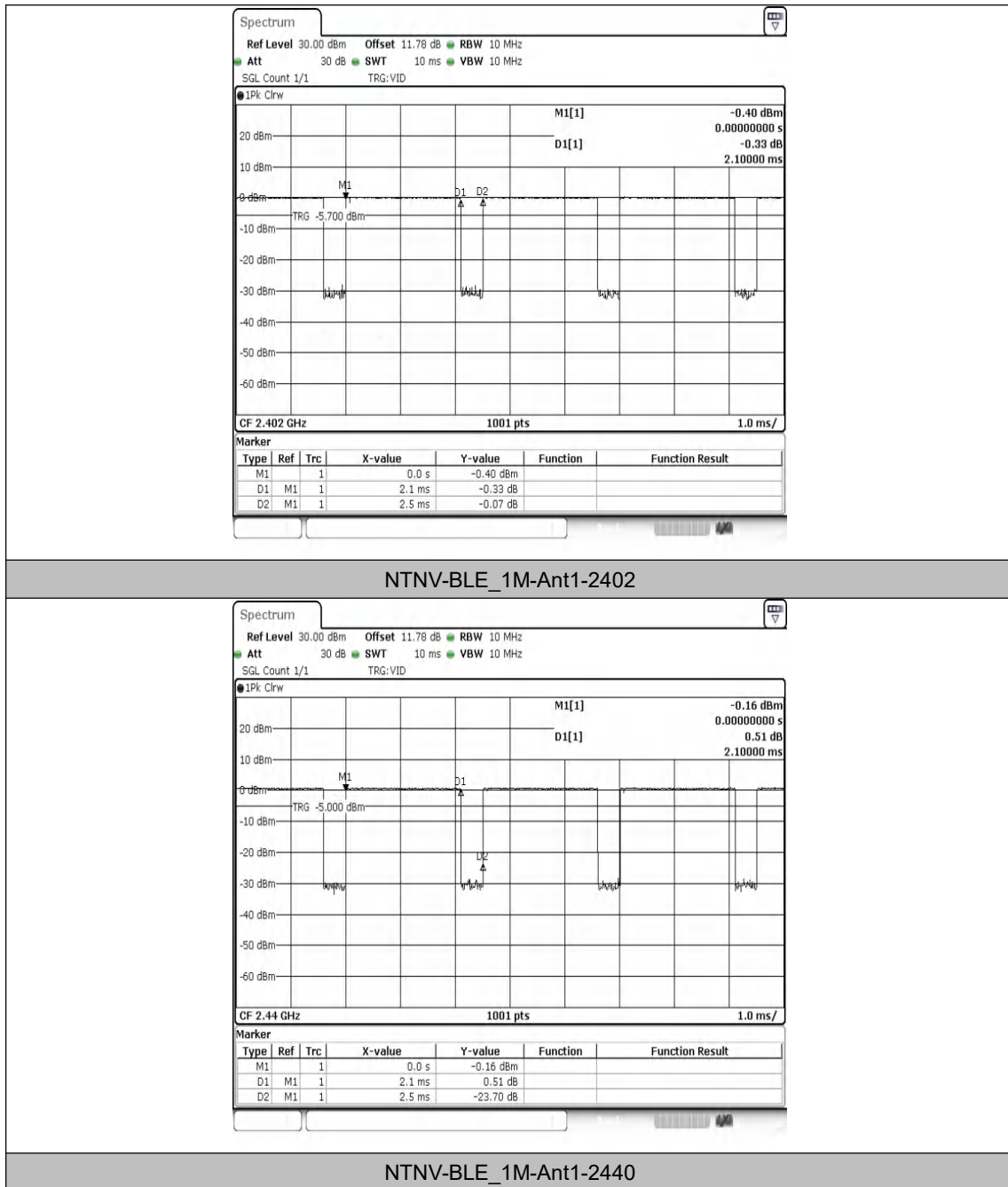
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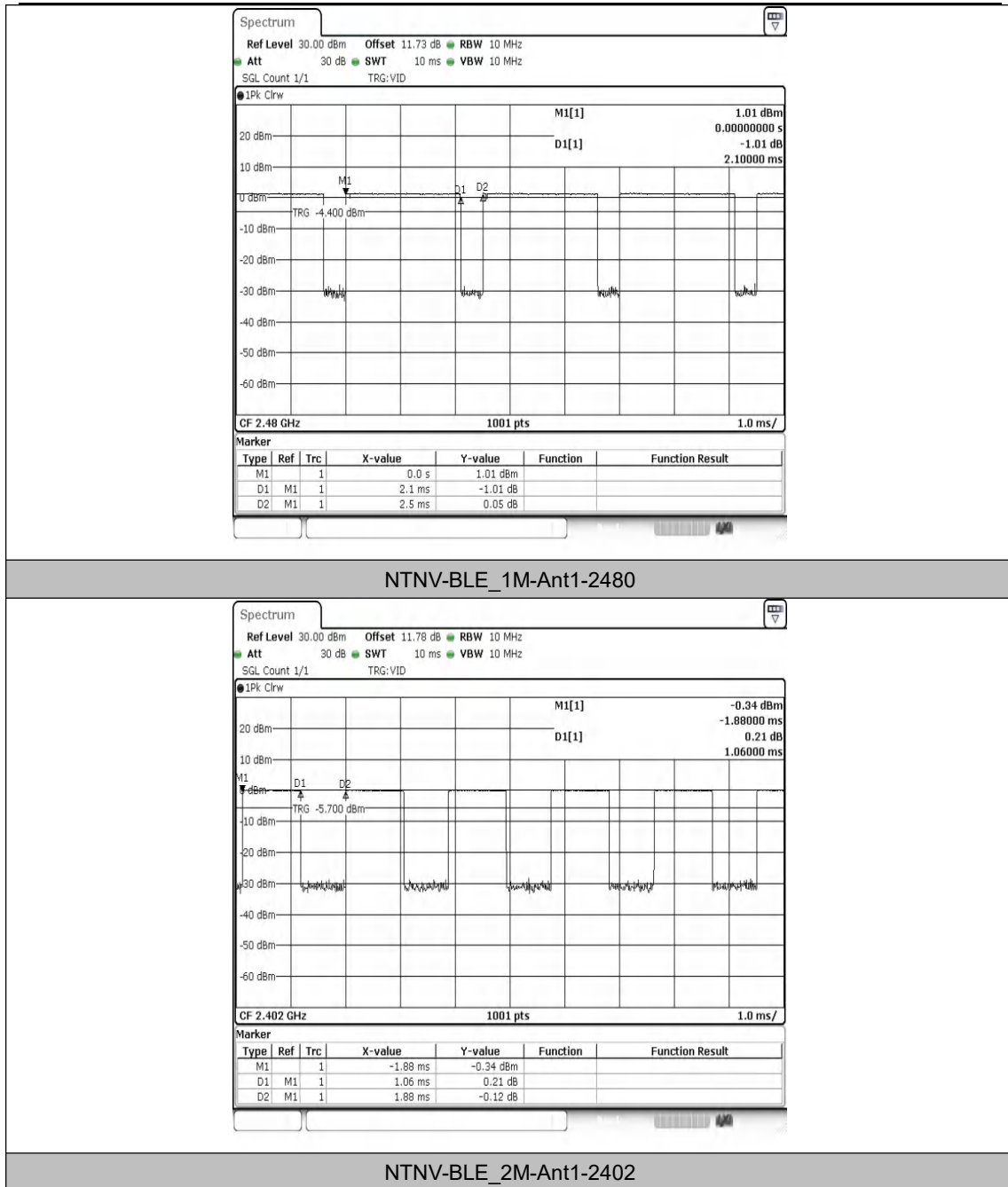


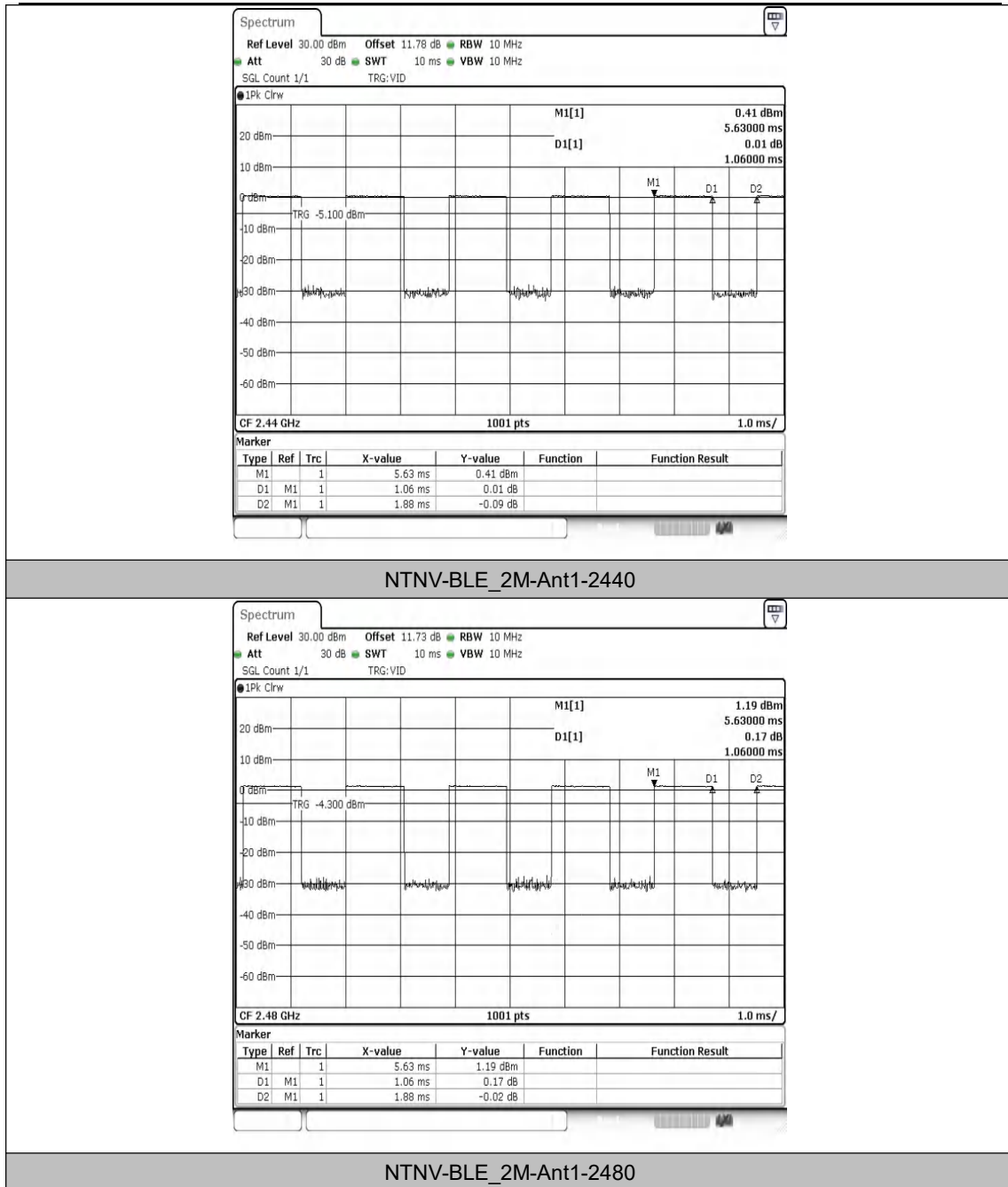
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## Test Graphs







---End---

