

Appendix Test Data

|                  |                   |                    |                    |
|------------------|-------------------|--------------------|--------------------|
| Report No.:      | 1812C40152912502  | Test Sample No.:   | 1-2-2              |
| Start Test Date: | 2024.11.26        | Finish Test Date:  | 2024.11.27         |
| Test Engineer:   | <i>Foker Wang</i> | Auditor:           | <i>Justin Feng</i> |
| Temperature:     | 22.7°C            | Relative Humidity: | 48%                |
| Pressure:        | 101kPa            |                    |                    |

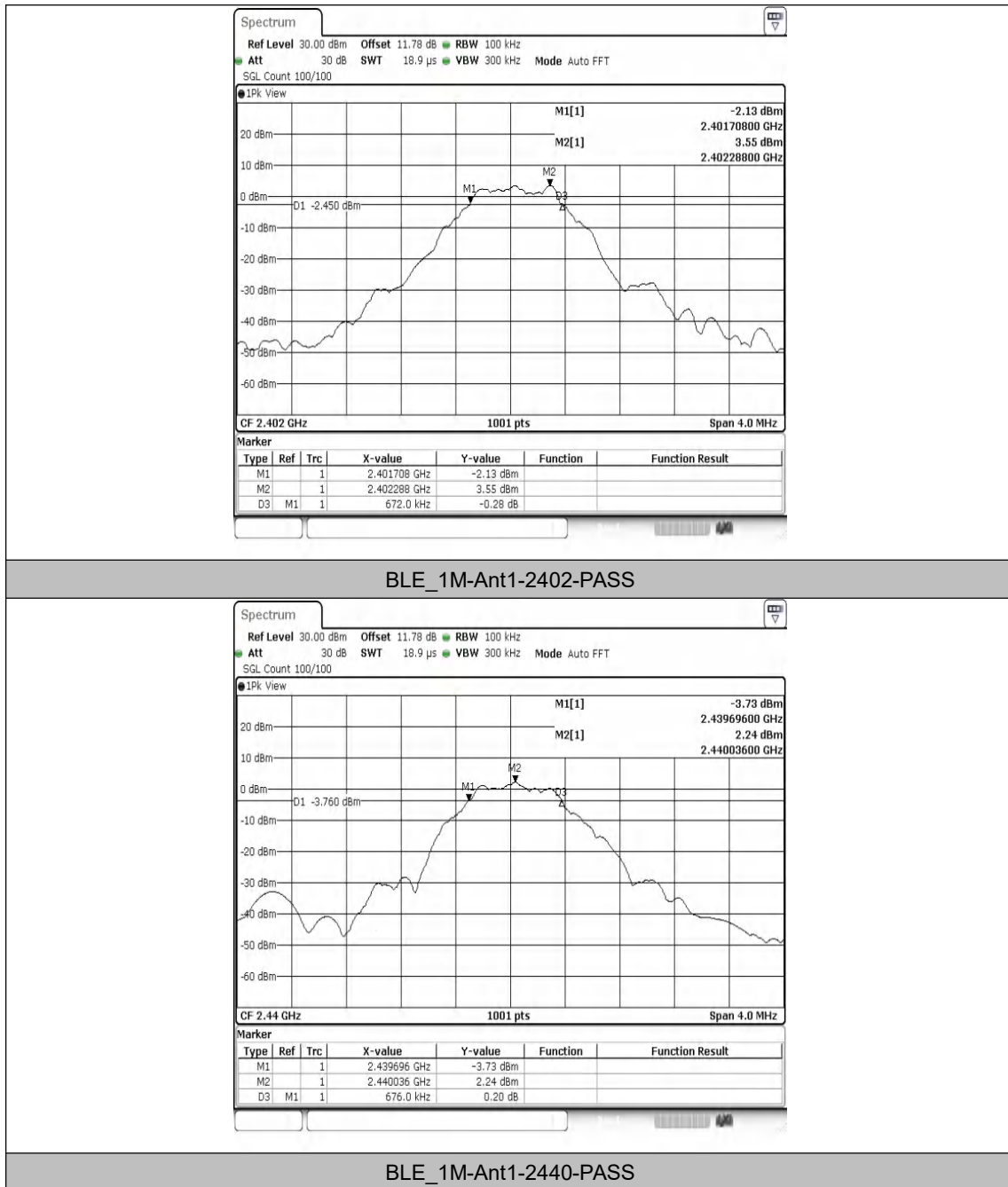
Appendix A: 6dB Bandwidth

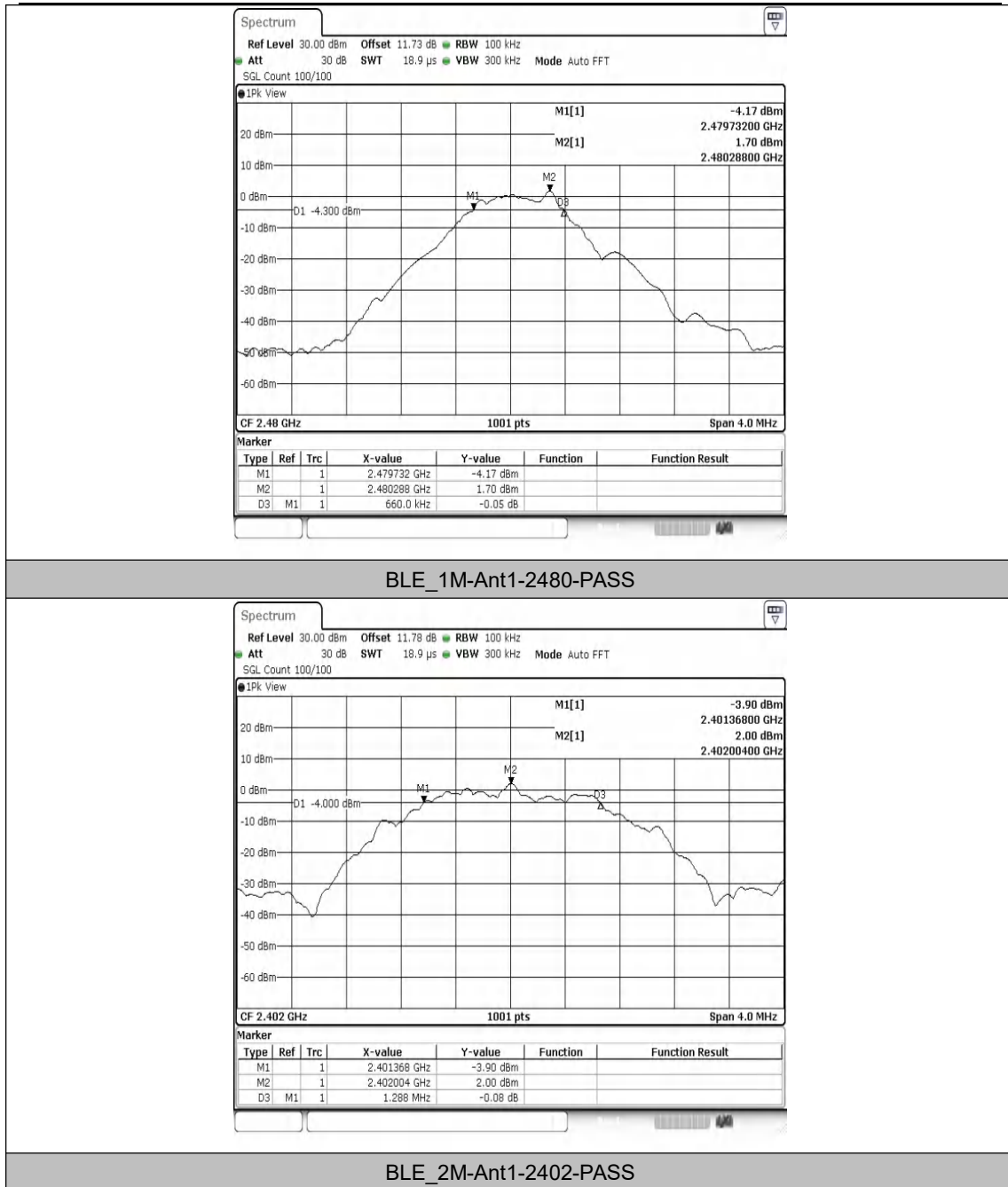
Test Result

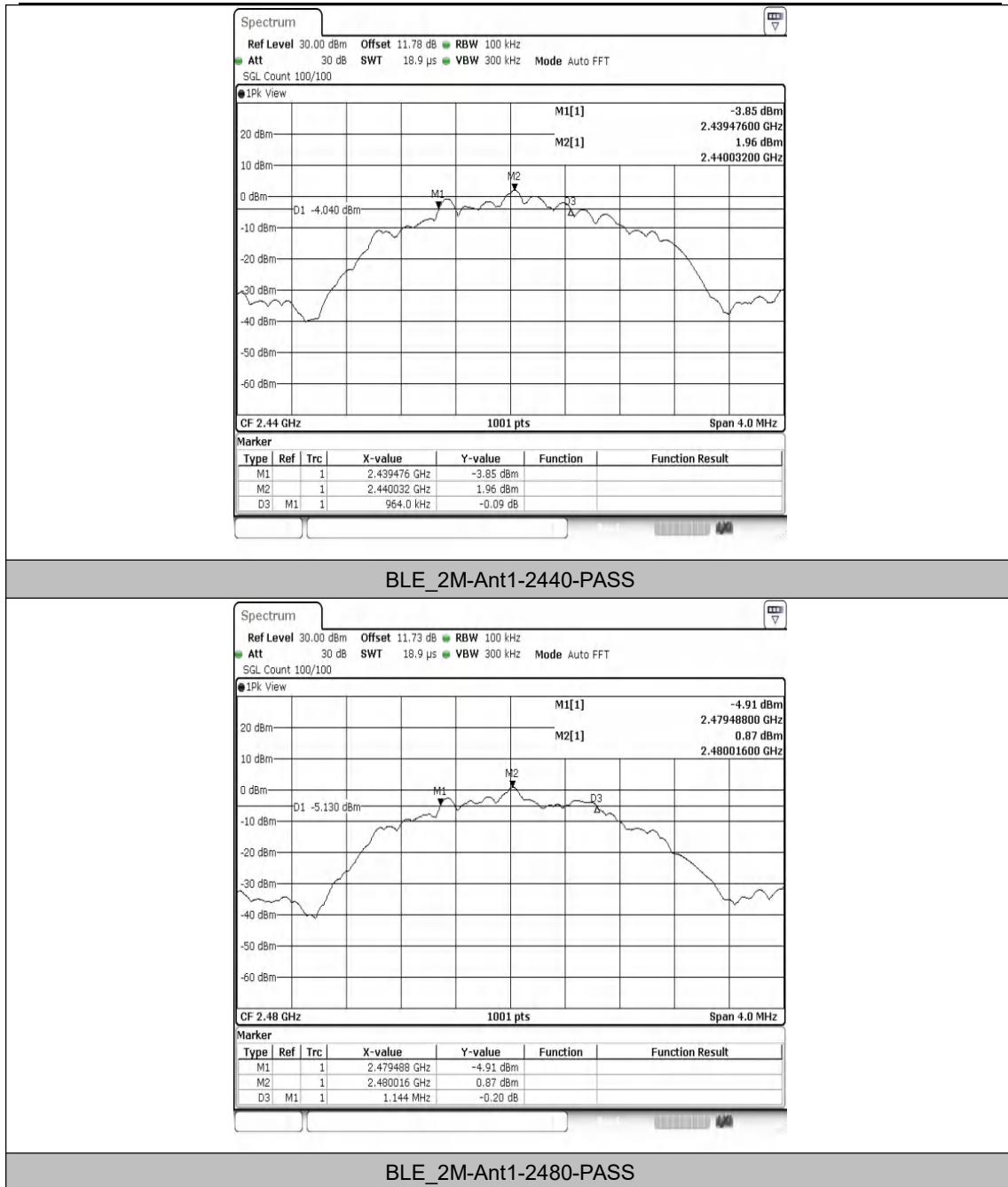
| Test Mode | Antenna | Frequency[MHz] | 6dB BW [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|-----------|---------|----------------|--------------|---------|---------|------------|---------|
| BLE_1M    | Ant1    | 2402           | 0.67         | 2401.71 | 2402.38 | 0.5        | PASS    |
| BLE_1M    | Ant1    | 2440           | 0.68         | 2439.70 | 2440.37 | 0.5        | PASS    |
| BLE_1M    | Ant1    | 2480           | 0.66         | 2479.73 | 2480.39 | 0.5        | PASS    |
| BLE_2M    | Ant1    | 2402           | 1.29         | 2401.37 | 2402.66 | 0.5        | PASS    |
| BLE_2M    | Ant1    | 2440           | 0.96         | 2439.48 | 2440.44 | 0.5        | PASS    |
| BLE_2M    | Ant1    | 2480           | 1.14         | 2479.49 | 2480.63 | 0.5        | PASS    |



## Test Graphs







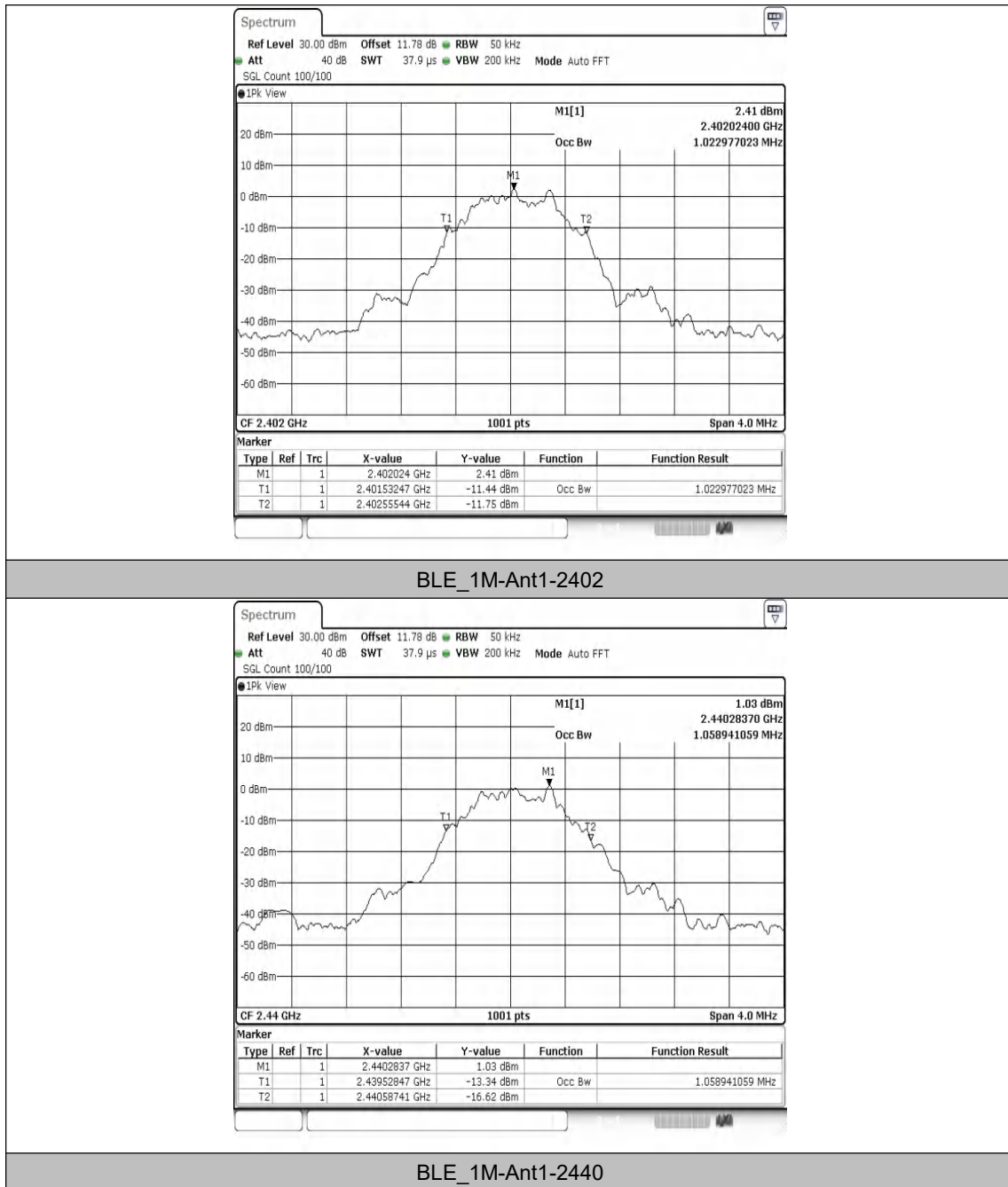
## Appendix B: 99% Occupied Bandwidth

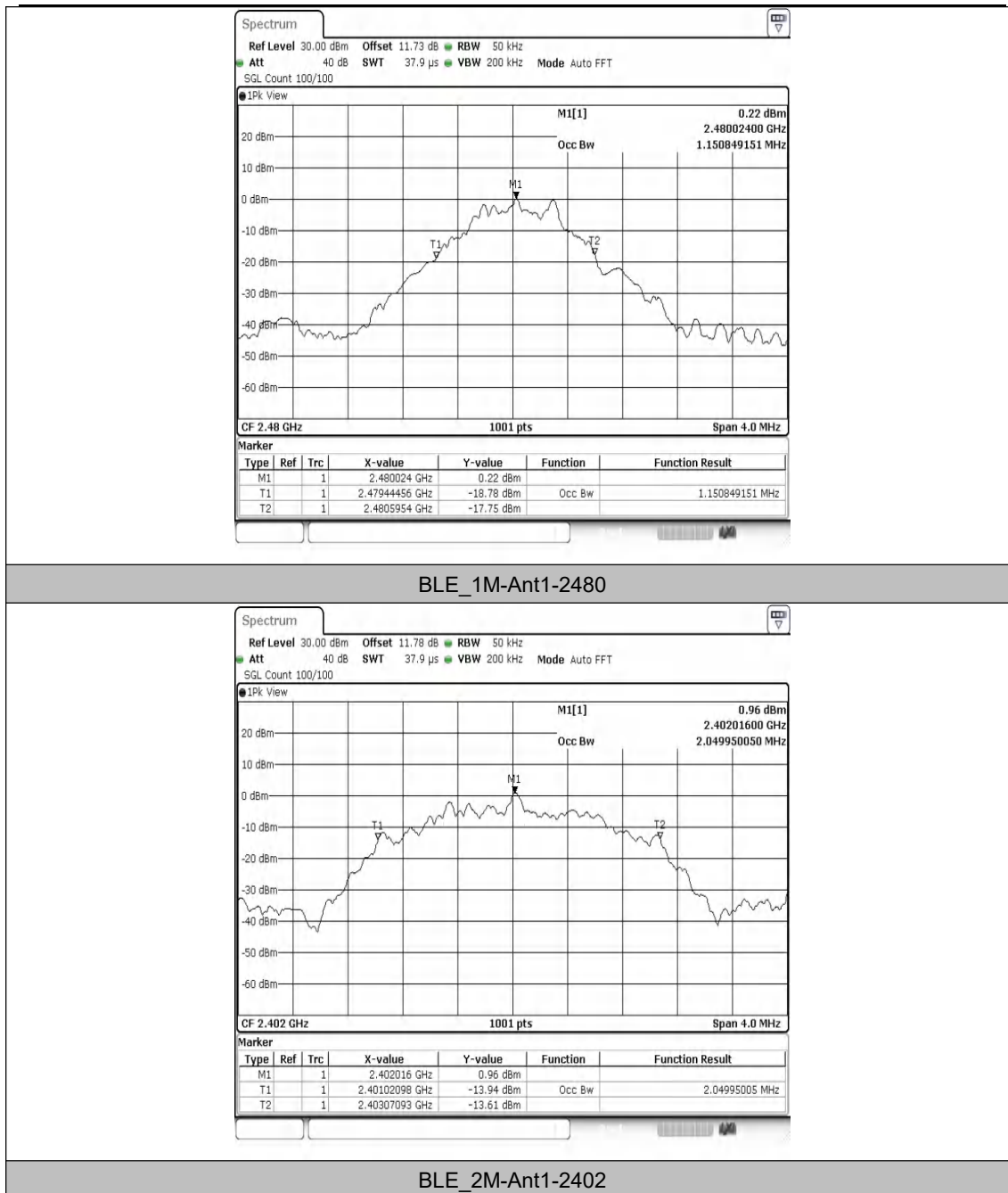
### Test Result

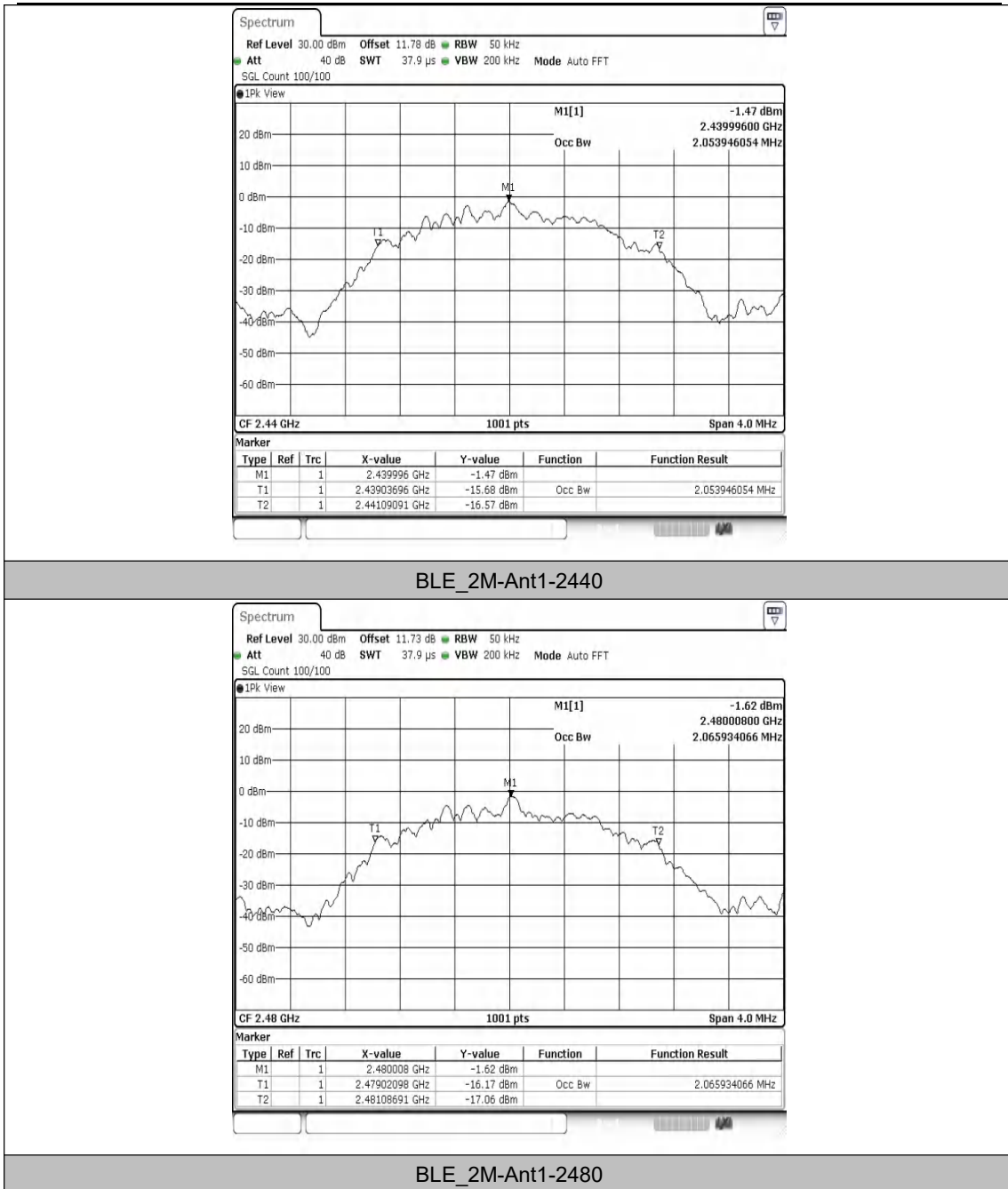
| Test Mode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|-----------|---------|----------------|-----------|-----------|-----------|------------|---------|
| BLE_1M    | Ant1    | 2402           | 1.023     | 2401.5325 | 2402.5554 | ---        | ---     |
| BLE_1M    | Ant1    | 2440           | 1.059     | 2439.5285 | 2440.5874 | ---        | ---     |
| BLE_1M    | Ant1    | 2480           | 1.151     | 2479.4446 | 2480.5954 | ---        | ---     |
| BLE_2M    | Ant1    | 2402           | 2.05      | 2401.0210 | 2403.0709 | ---        | ---     |
| BLE_2M    | Ant1    | 2440           | 2.054     | 2439.0370 | 2441.0909 | ---        | ---     |
| BLE_2M    | Ant1    | 2480           | 2.066     | 2479.0210 | 2481.0869 | ---        | ---     |



## Test Graphs





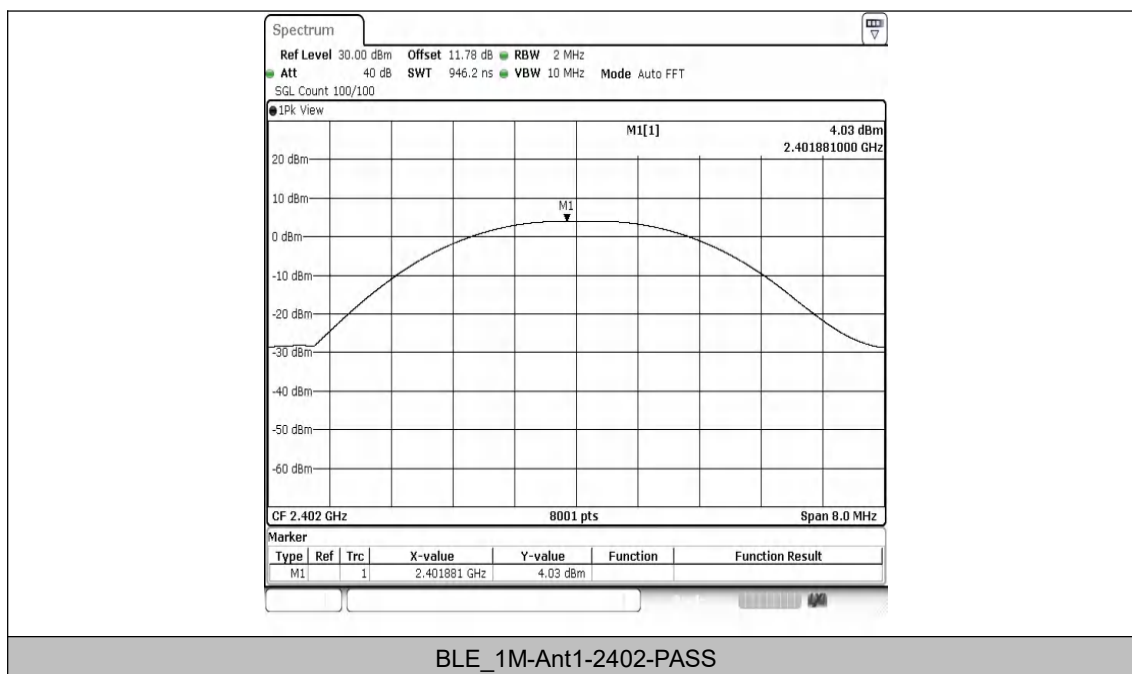


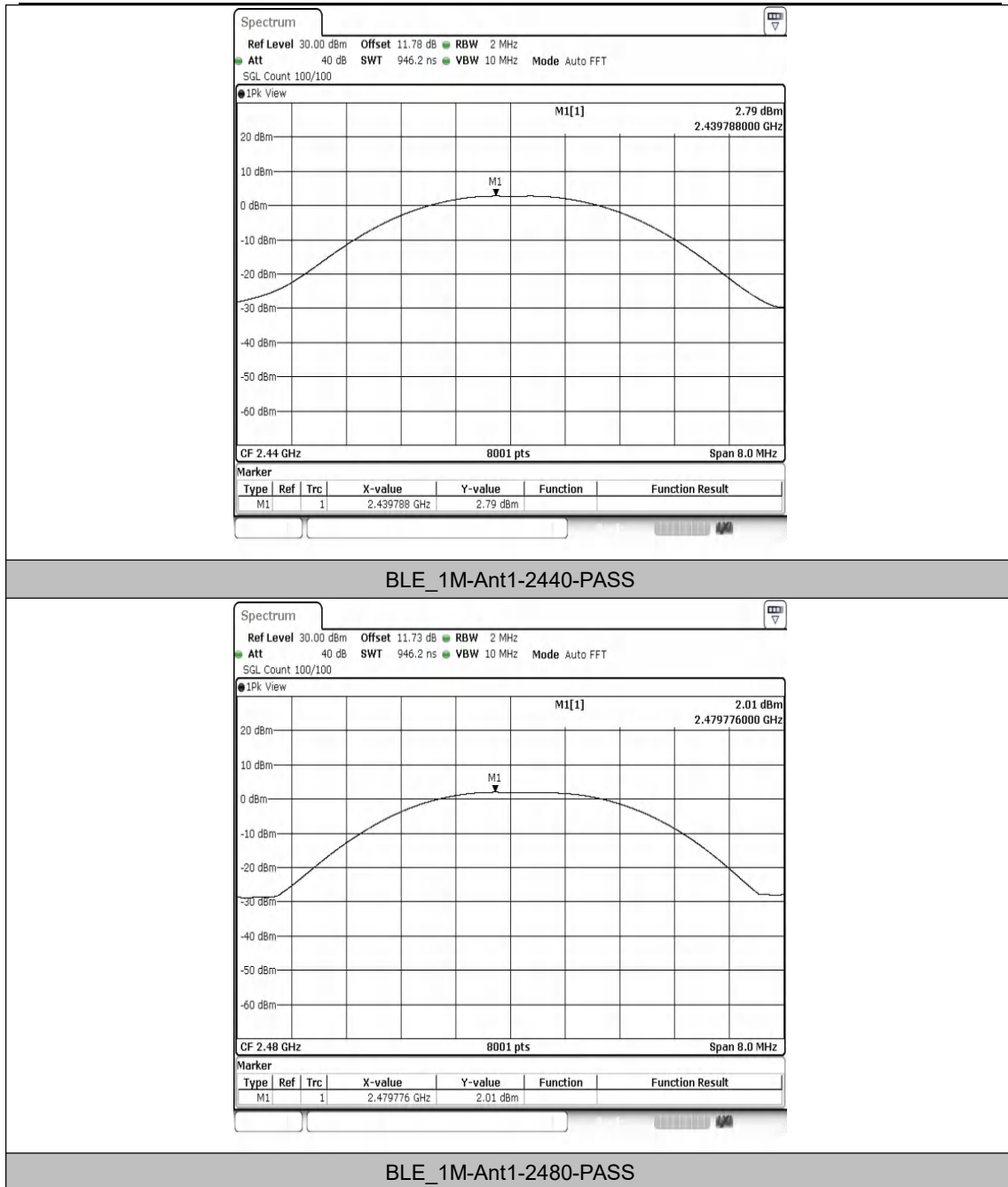
## Appendix C: Maximum conducted output power

### Test Result Peak

| Test Mode | Antenna | Frequency [MHz] | Conducted Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|-----------|---------|-----------------|---------------------------|----------------------|---------|
| BLE_1M    | Ant1    | 2402            | 4.03                      | ≤30                  | PASS    |
| BLE_1M    | Ant1    | 2440            | 2.79                      | ≤30                  | PASS    |
| BLE_1M    | Ant1    | 2480            | 2.01                      | ≤30                  | PASS    |
| BLE_2M    | Ant1    | 2402            | 4.07                      | ≤30                  | PASS    |
| BLE_2M    | Ant1    | 2440            | 2.87                      | ≤30                  | PASS    |
| BLE_2M    | Ant1    | 2480            | 2.03                      | ≤30                  | PASS    |

### Test Graphs Peak





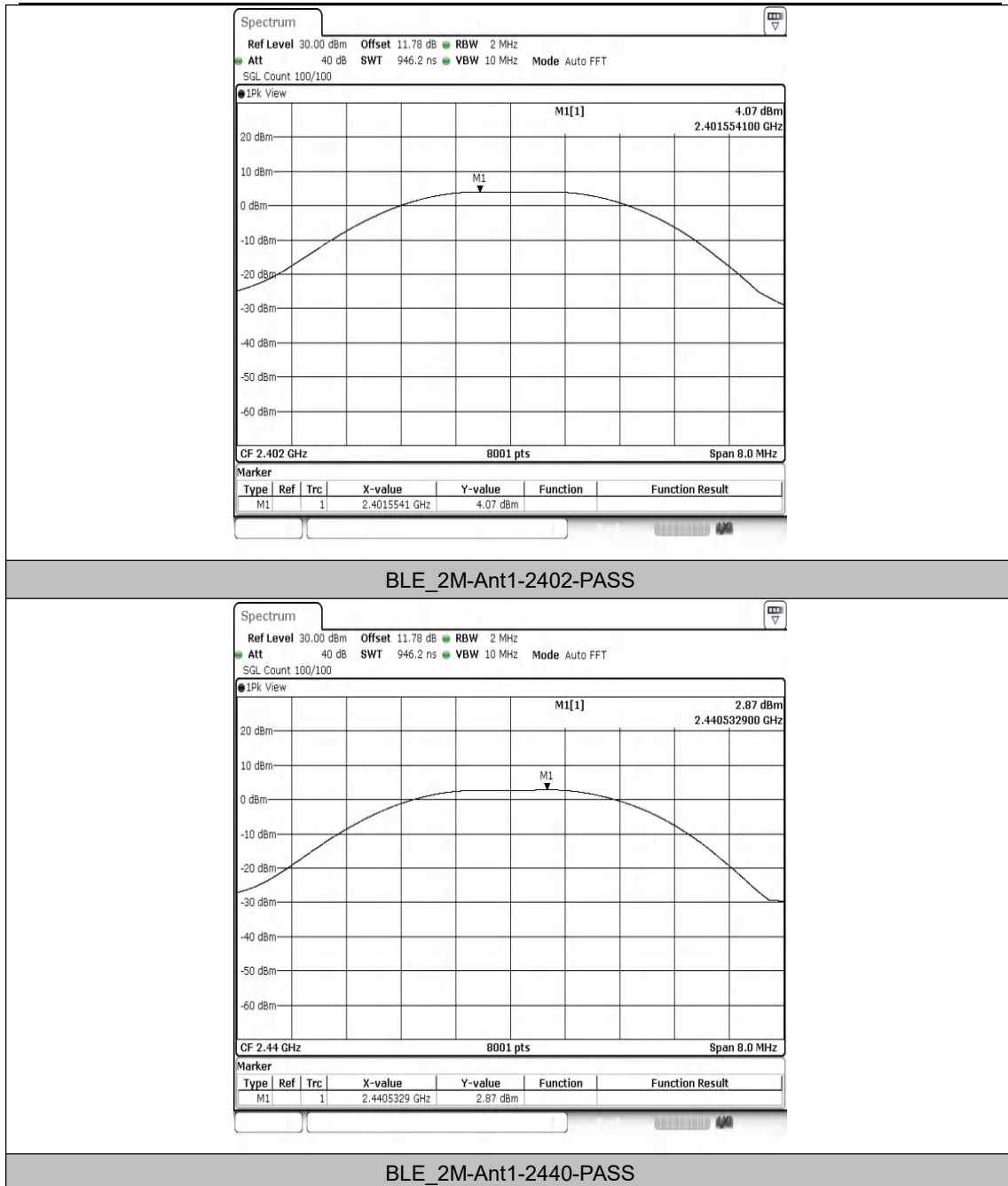
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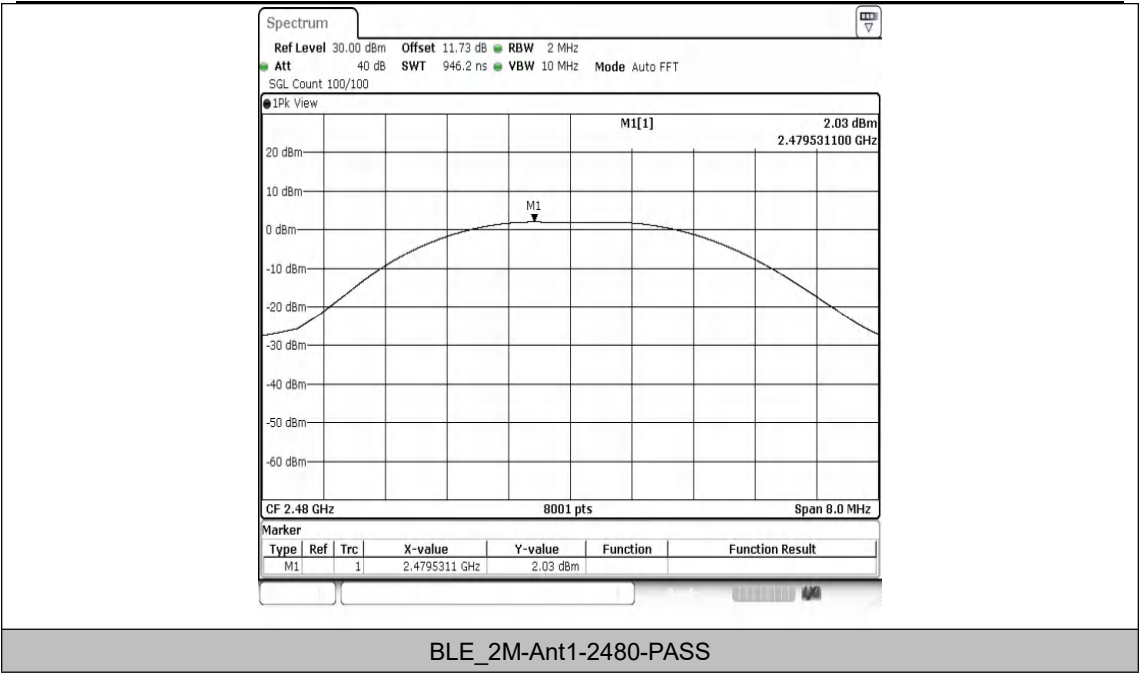
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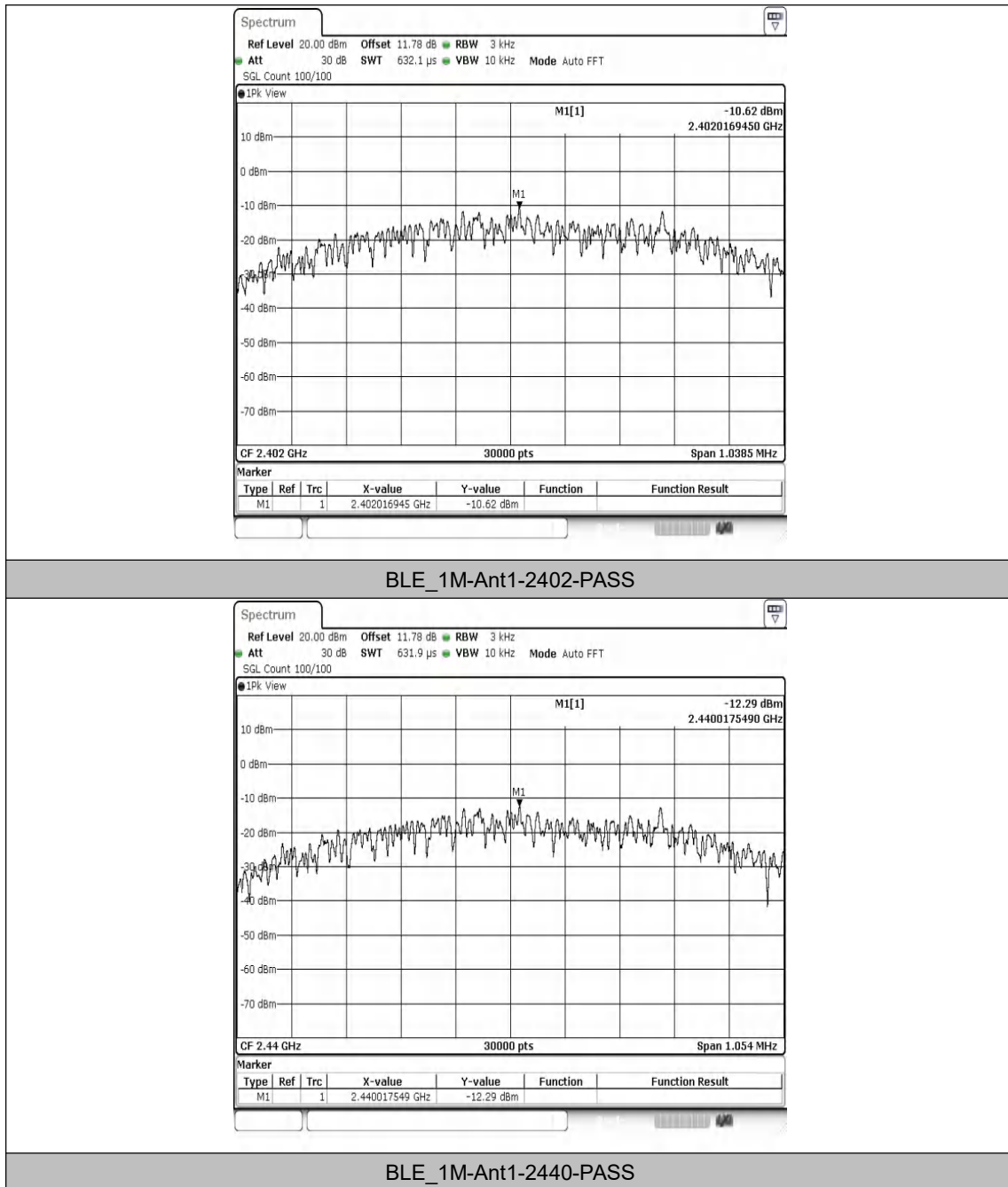
## Appendix D: Maximum power spectral density

### Test Result

| TestMode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|----------------|------------------|-----------------|---------|
| BLE_1M   | Ant1    | 2402           | -10.62           | ≤8.00           | PASS    |
| BLE_1M   | Ant1    | 2440           | -12.29           | ≤8.00           | PASS    |
| BLE_1M   | Ant1    | 2480           | -13.02           | ≤8.00           | PASS    |
| BLE_2M   | Ant1    | 2402           | -13.23           | ≤8.00           | PASS    |
| BLE_2M   | Ant1    | 2440           | -14.53           | ≤8.00           | PASS    |
| BLE_2M   | Ant1    | 2480           | -15.75           | ≤8.00           | PASS    |



## Test Graphs

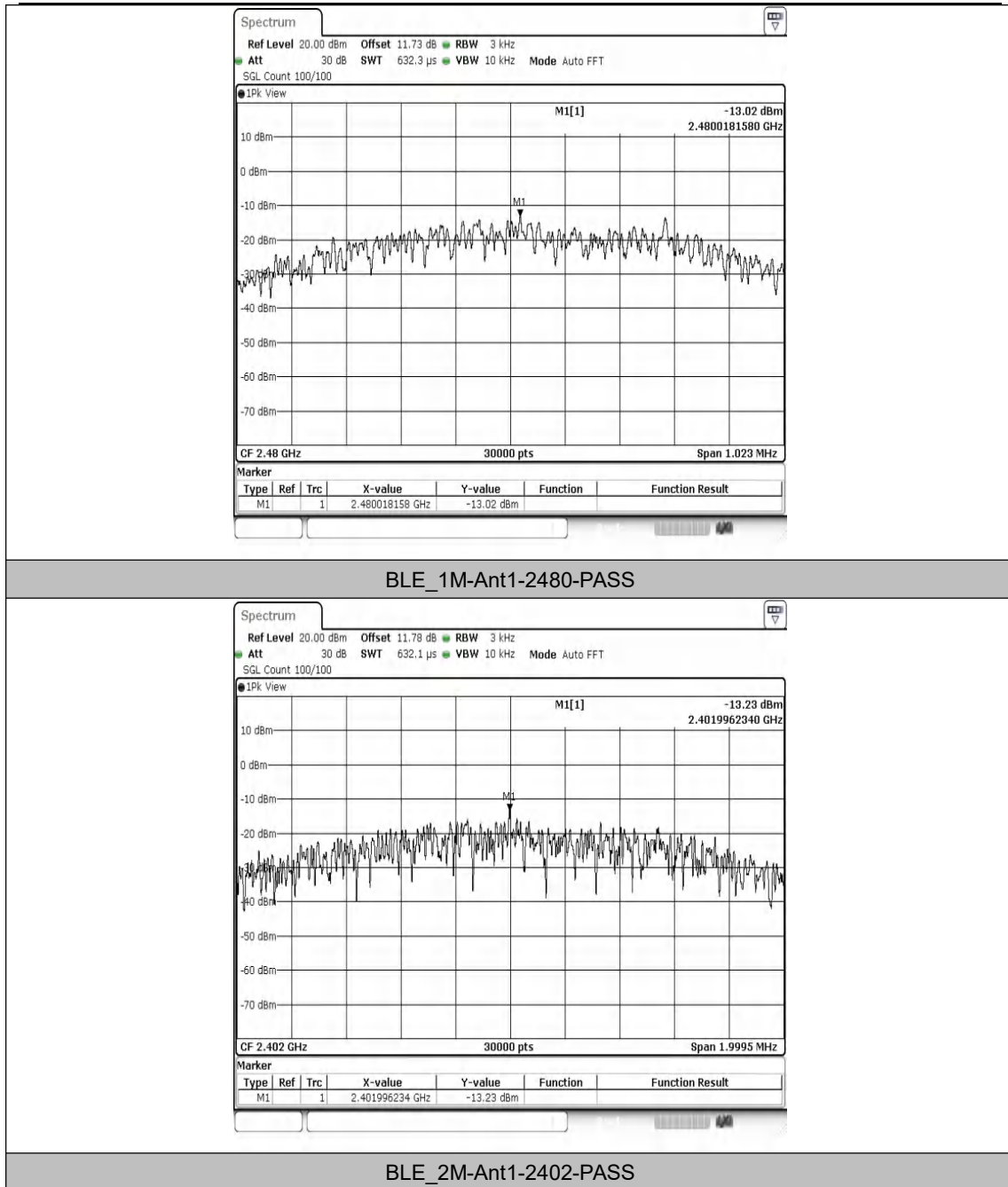


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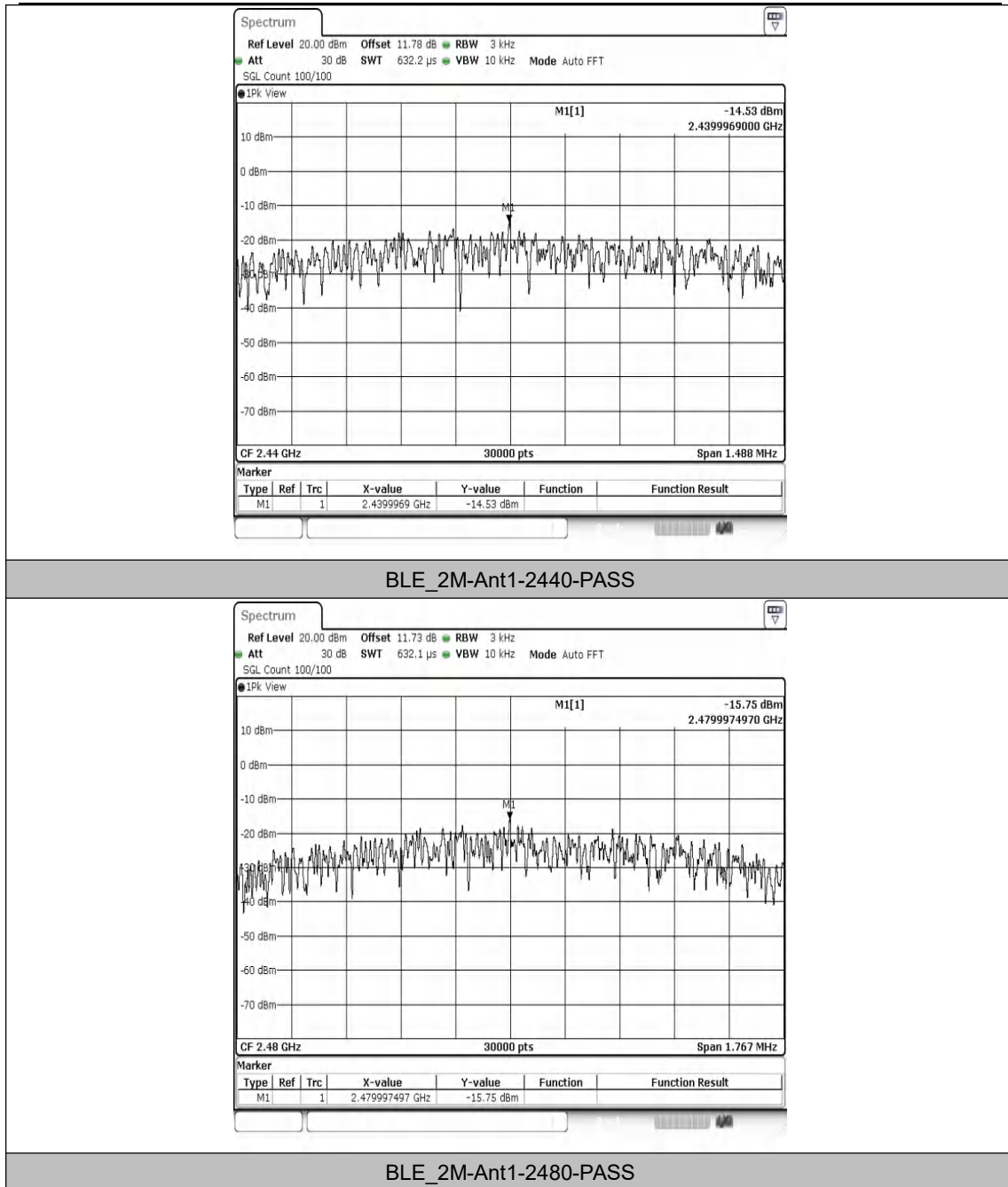
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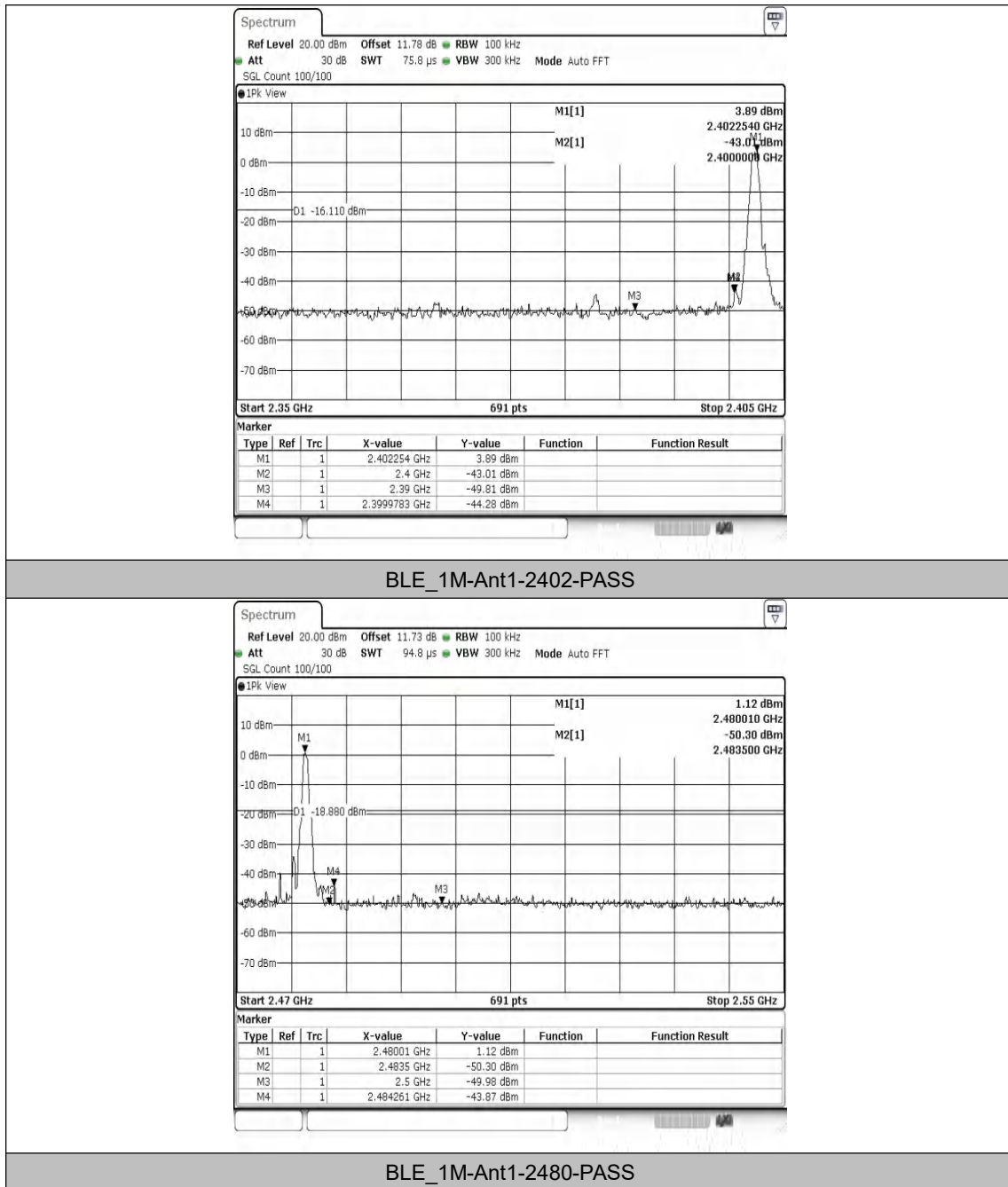
## Appendix E: Band edge measurements

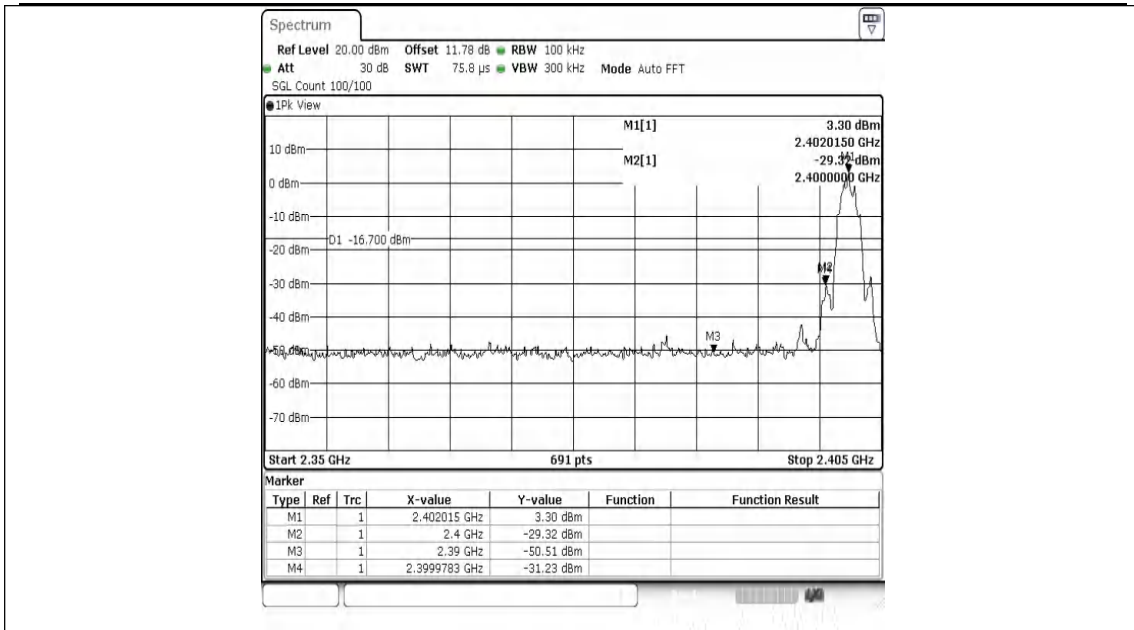
### Test Result

| Test Mode | Antenna | ChName | Frequency [MHz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|--------|-----------------|----------------|--------------|-------------|---------|
| BLE_1M    | Ant1    | Low    | 2402            | 3.89           | -44.28       | ≤-16.11     | PASS    |
| BLE_1M    | Ant1    | High   | 2480            | 1.12           | -43.87       | ≤-18.88     | PASS    |
| BLE_2M    | Ant1    | Low    | 2402            | 3.30           | -31.23       | ≤-16.7      | PASS    |
| BLE_2M    | Ant1    | High   | 2480            | 0.36           | -46.36       | ≤-19.64     | PASS    |

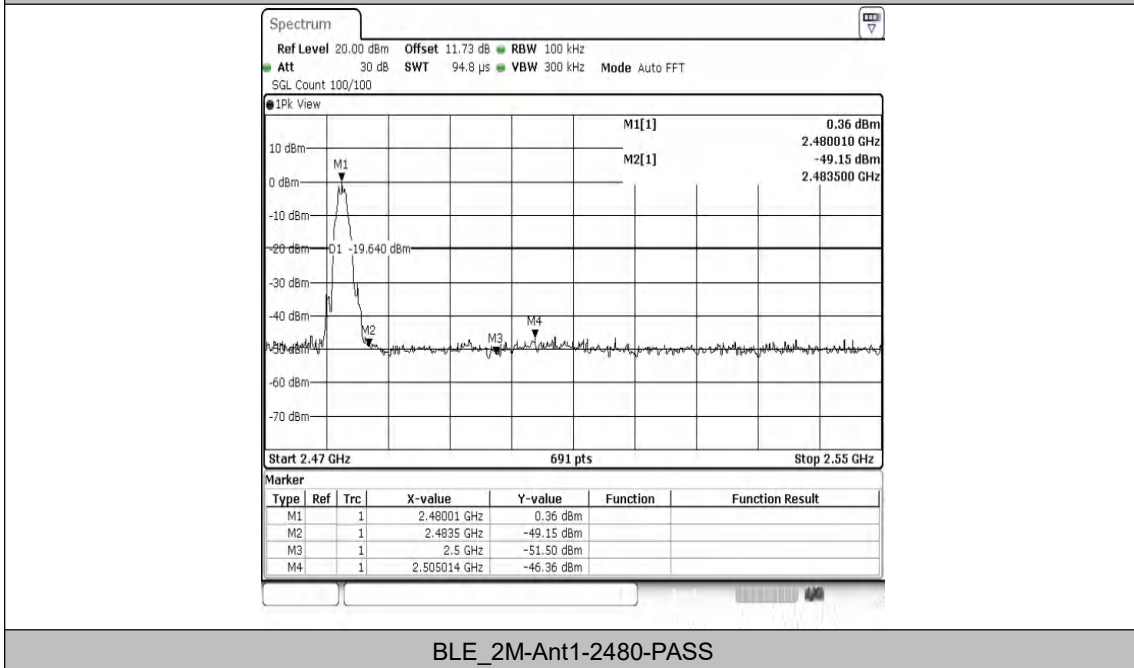


## Test Graphs





BLE\_2M-Ant1-2402-PASS



BLE\_2M-Ant1-2480-PASS



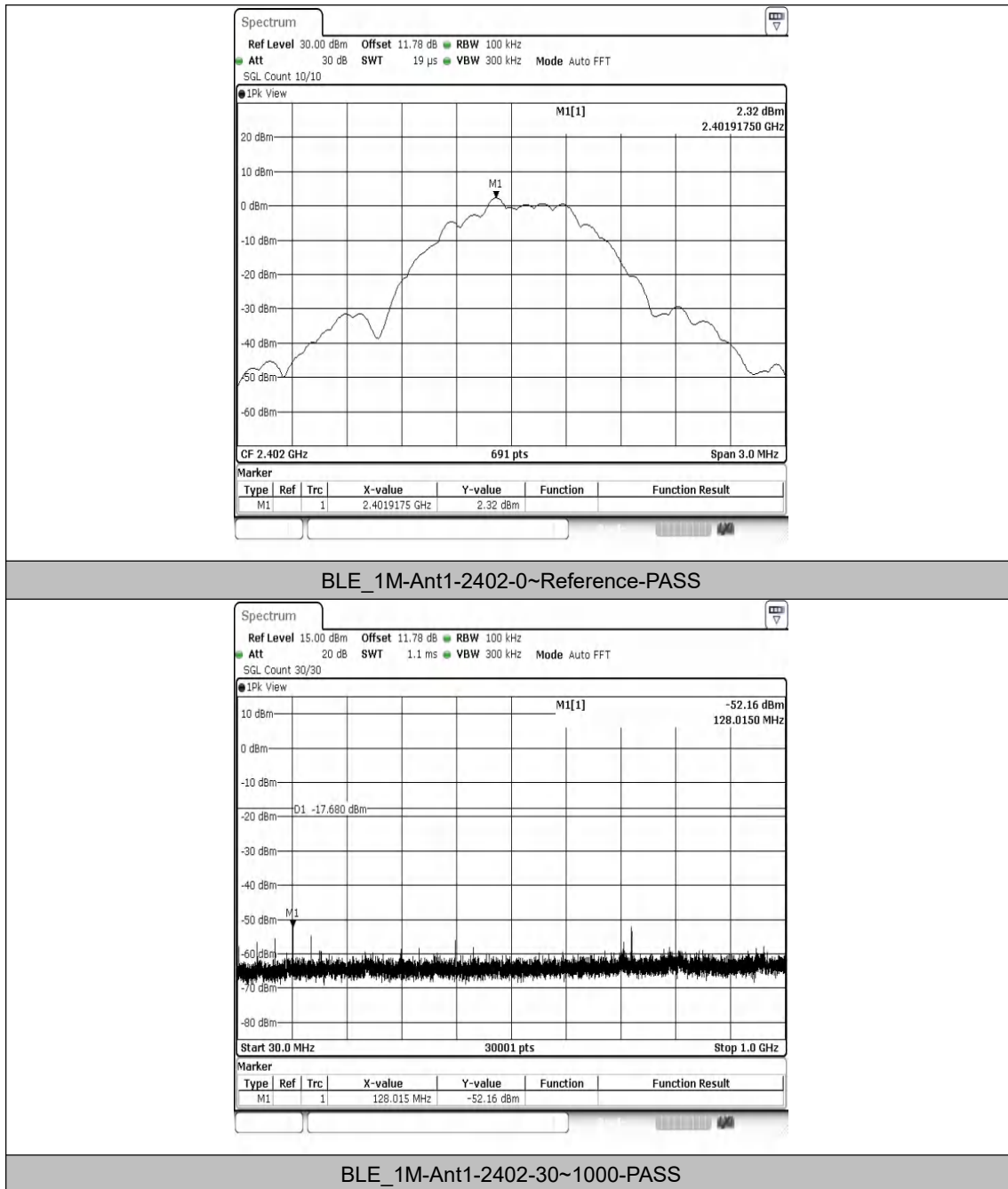
## Appendix F: Conducted Spurious Emission

### Test Result

| Test Mode | Antenna | Frequency [MHz] | Freq. Range [MHz] | Ref. Level [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|-----------------|-------------------|------------------|--------------|-------------|---------|
| BLE_1M    | Ant1    | 2402            | 0~Reference       | 2.32             | 2.32         | ---         | PASS    |
| BLE_1M    | Ant1    | 2402            | 30~1000           | 2.32             | -52.16       | ≤-17.68     | PASS    |
| BLE_1M    | Ant1    | 2402            | 1000~26500        | 2.32             | -34.56       | ≤-17.68     | PASS    |
| BLE_1M    | Ant1    | 2440            | 0~Reference       | 2.15             | 2.15         | ---         | PASS    |
| BLE_1M    | Ant1    | 2440            | 30~1000           | 2.15             | -51.63       | ≤-17.85     | PASS    |
| BLE_1M    | Ant1    | 2440            | 1000~26500        | 2.15             | -31.86       | ≤-17.85     | PASS    |
| BLE_1M    | Ant1    | 2480            | 0~Reference       | -0.95            | -0.95        | ---         | PASS    |
| BLE_1M    | Ant1    | 2480            | 30~1000           | -0.95            | -52.17       | ≤-20.95     | PASS    |
| BLE_1M    | Ant1    | 2480            | 1000~26500        | -0.95            | -32.02       | ≤-20.95     | PASS    |
| BLE_2M    | Ant1    | 2402            | 0~Reference       | 2.86             | 2.86         | ---         | PASS    |
| BLE_2M    | Ant1    | 2402            | 30~1000           | 2.86             | -52.09       | ≤-17.14     | PASS    |
| BLE_2M    | Ant1    | 2402            | 1000~26500        | 2.86             | -33.97       | ≤-17.14     | PASS    |
| BLE_2M    | Ant1    | 2440            | 0~Reference       | 0.64             | 0.64         | ---         | PASS    |
| BLE_2M    | Ant1    | 2440            | 30~1000           | 0.64             | -51.3        | ≤-19.36     | PASS    |
| BLE_2M    | Ant1    | 2440            | 1000~26500        | 0.64             | -33.95       | ≤-19.36     | PASS    |
| BLE_2M    | Ant1    | 2480            | 0~Reference       | -2.37            | -2.37        | ---         | PASS    |
| BLE_2M    | Ant1    | 2480            | 30~1000           | -2.37            | -51.71       | ≤-22.37     | PASS    |
| BLE_2M    | Ant1    | 2480            | 1000~26500        | -2.37            | -35.48       | ≤-22.37     | PASS    |



## Test Graphs

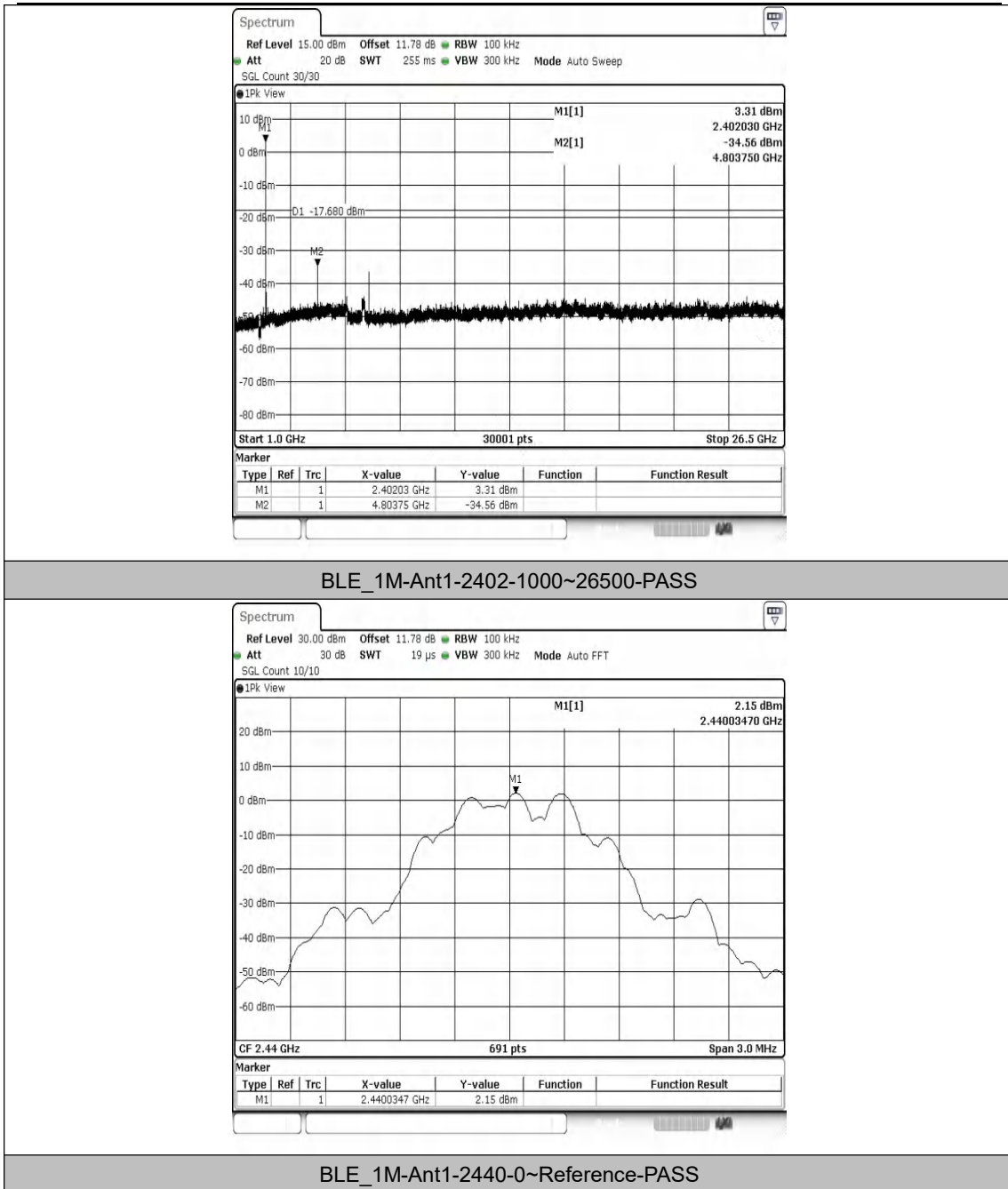


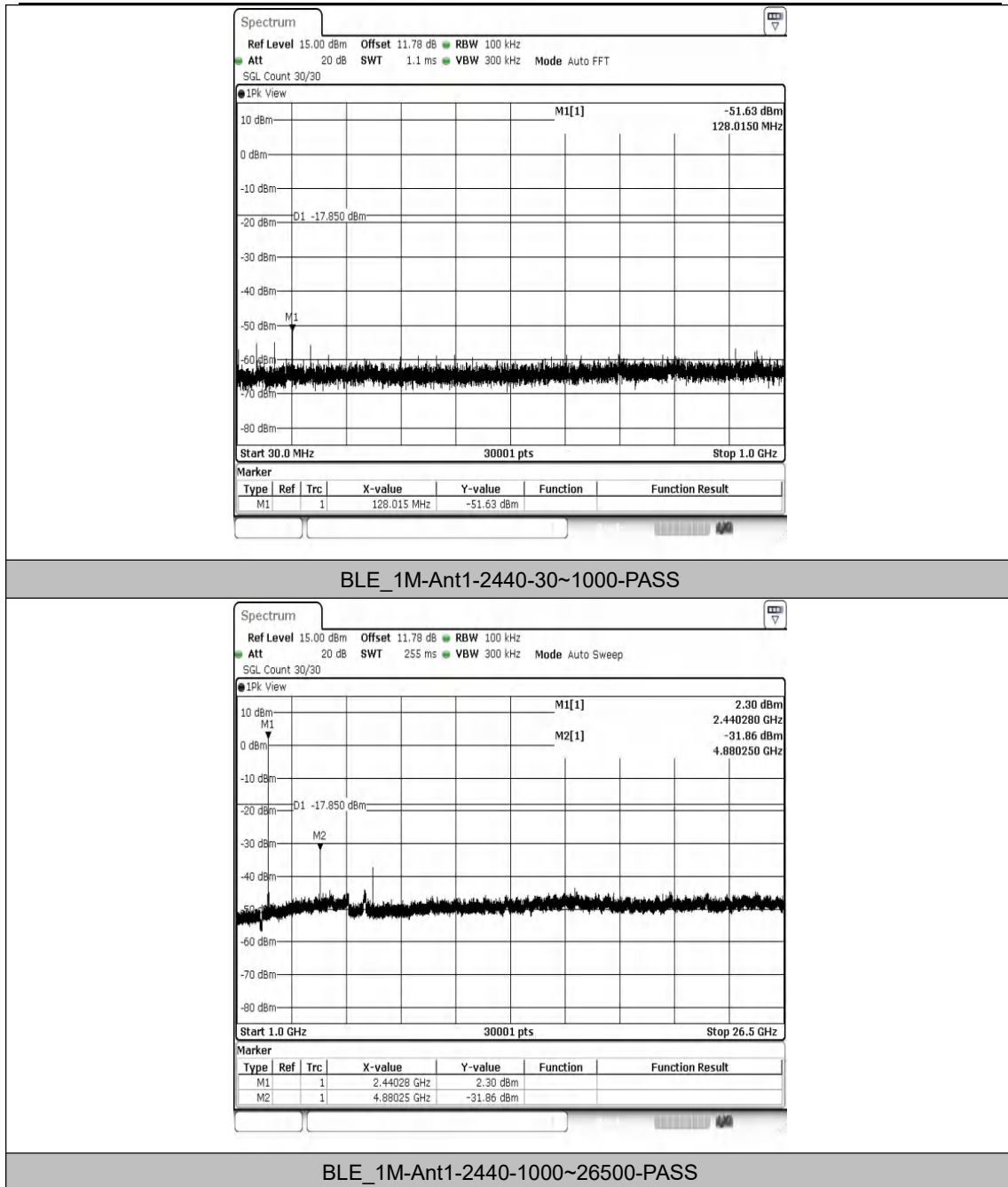
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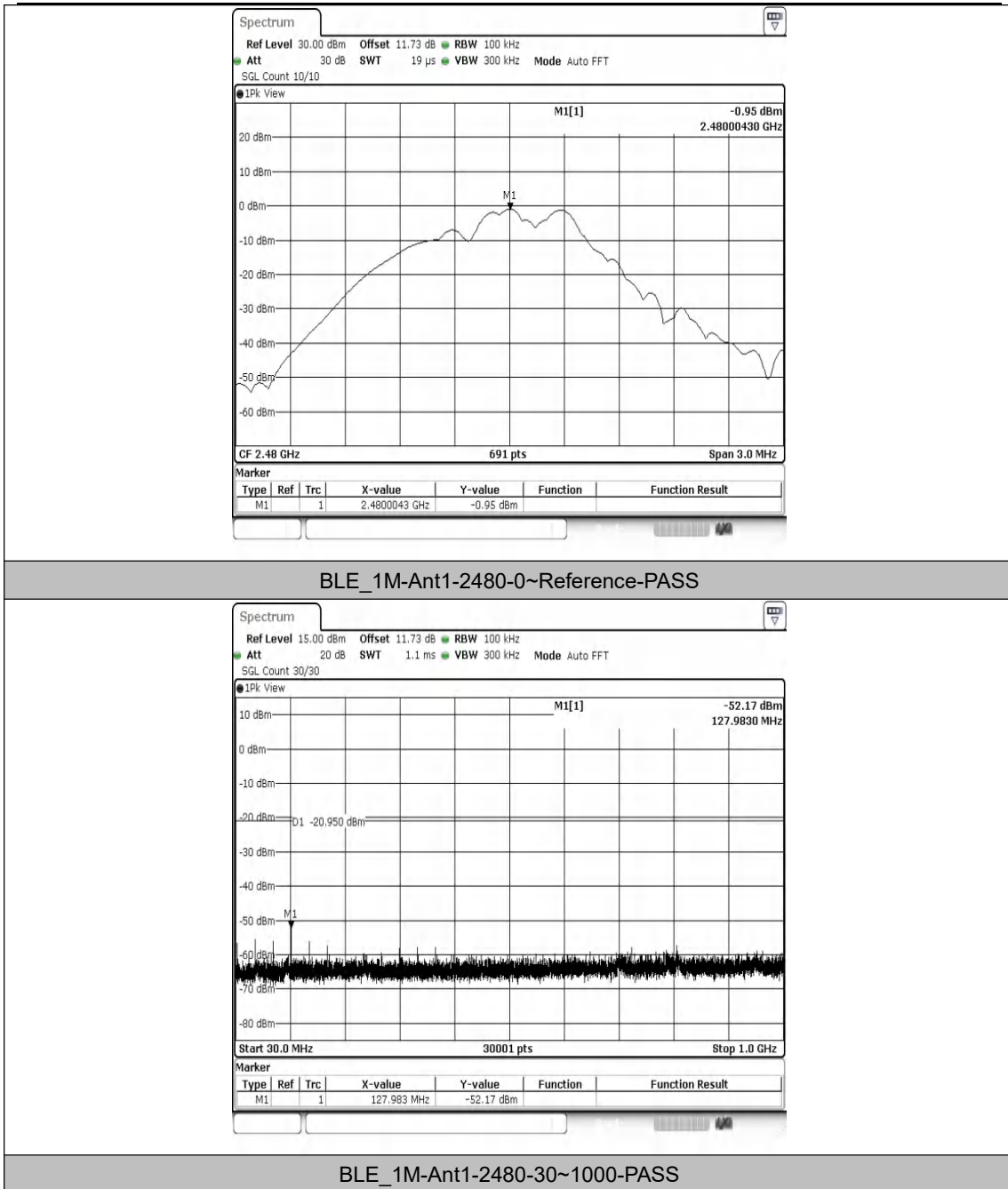
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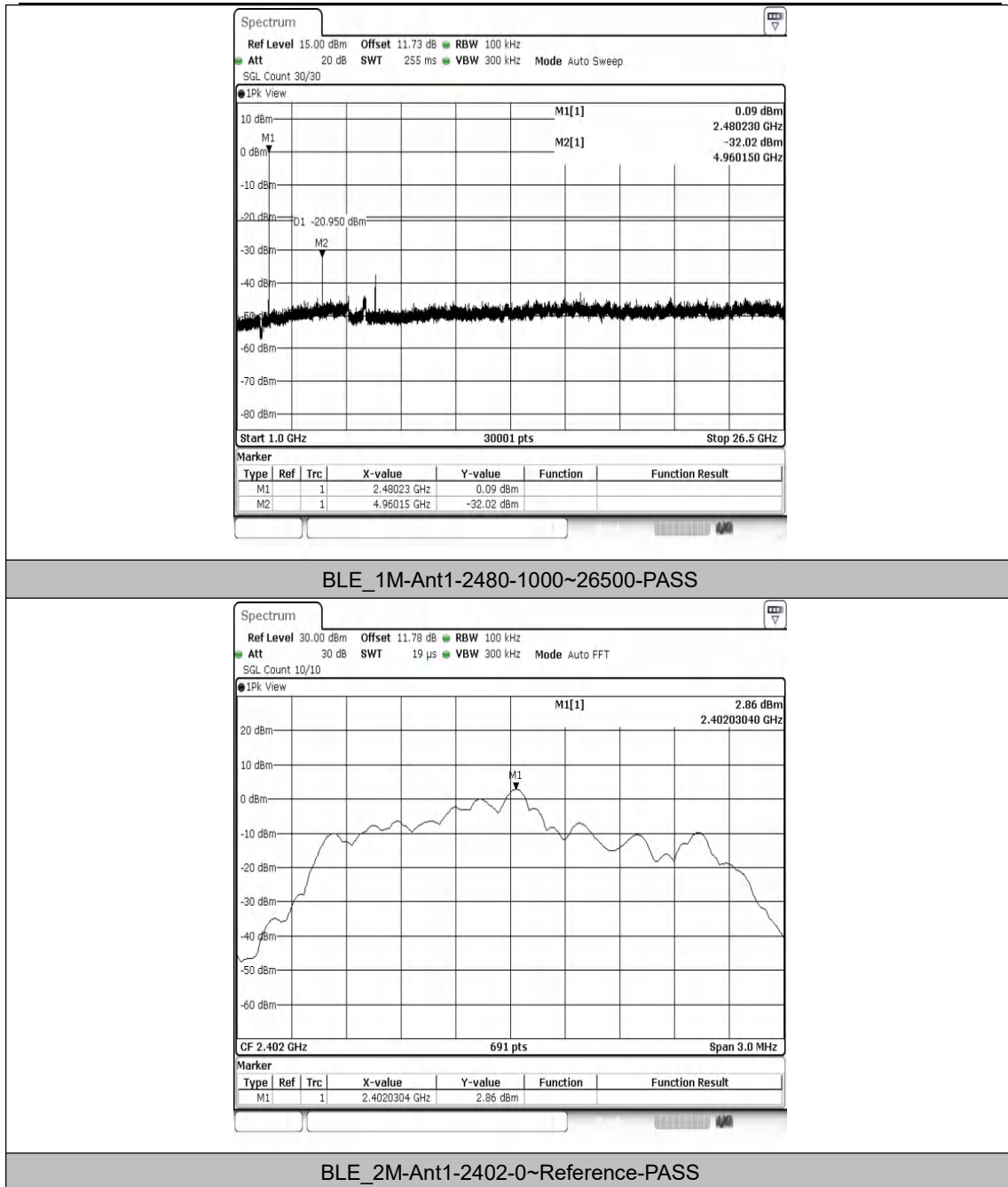
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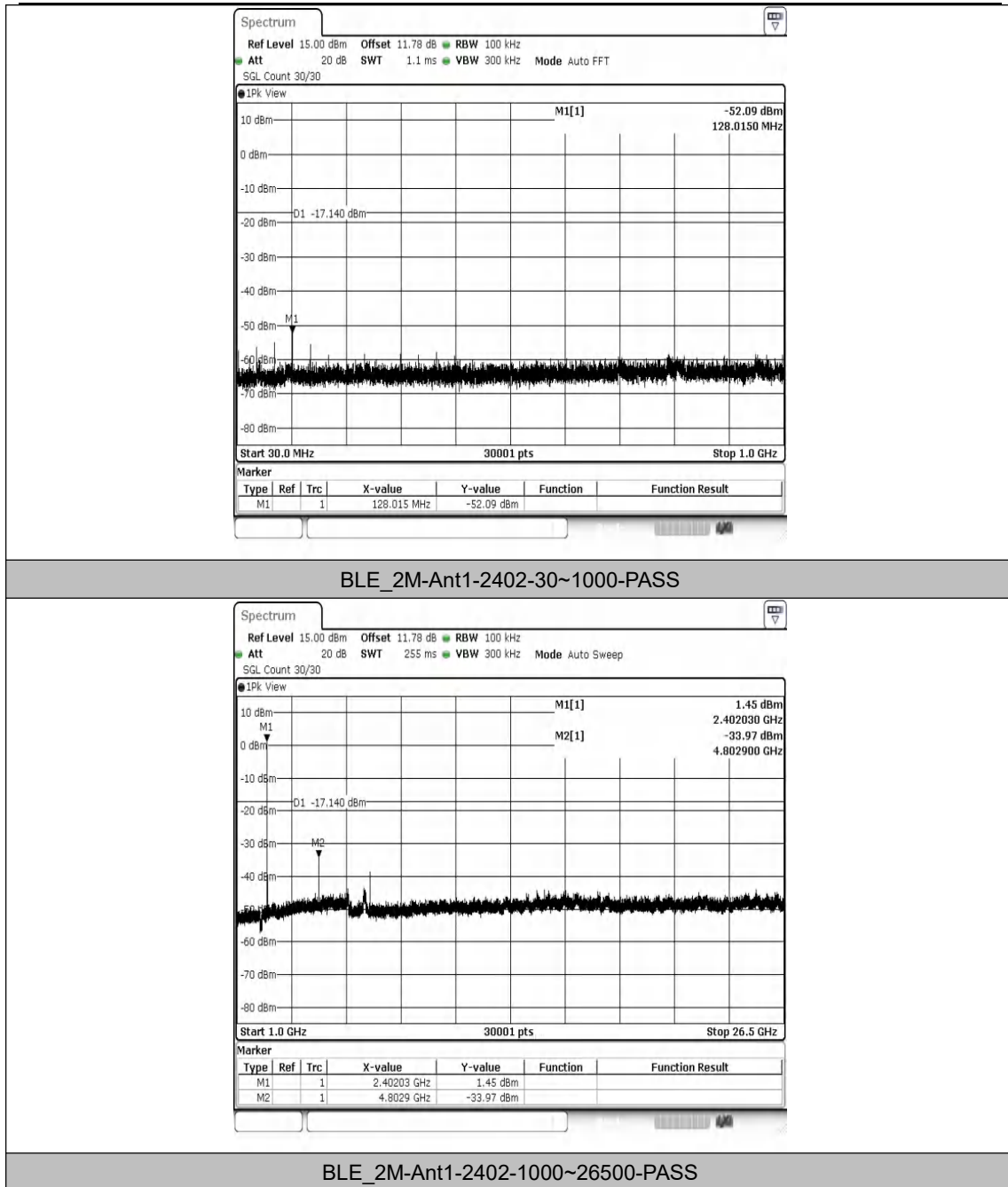
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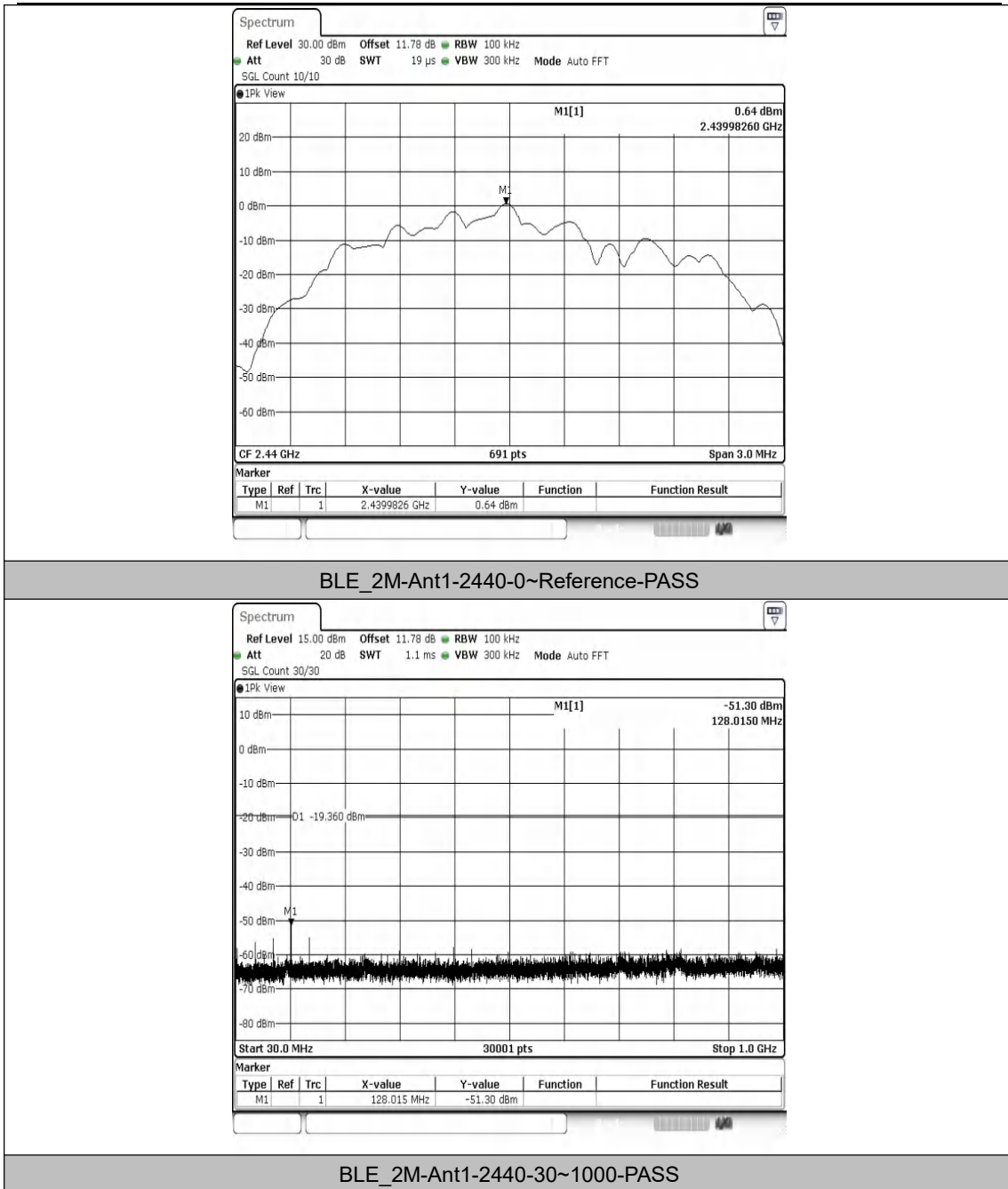
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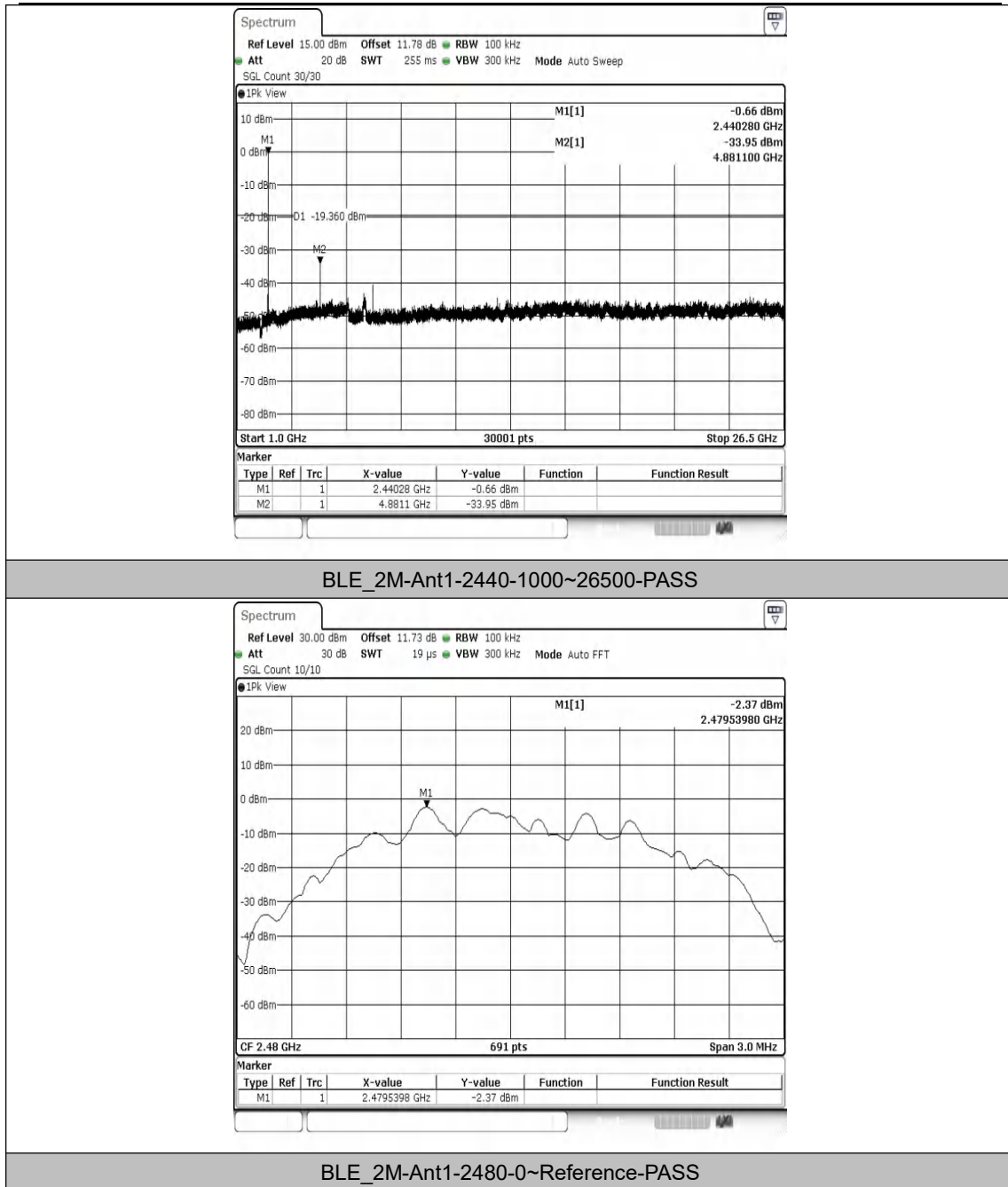
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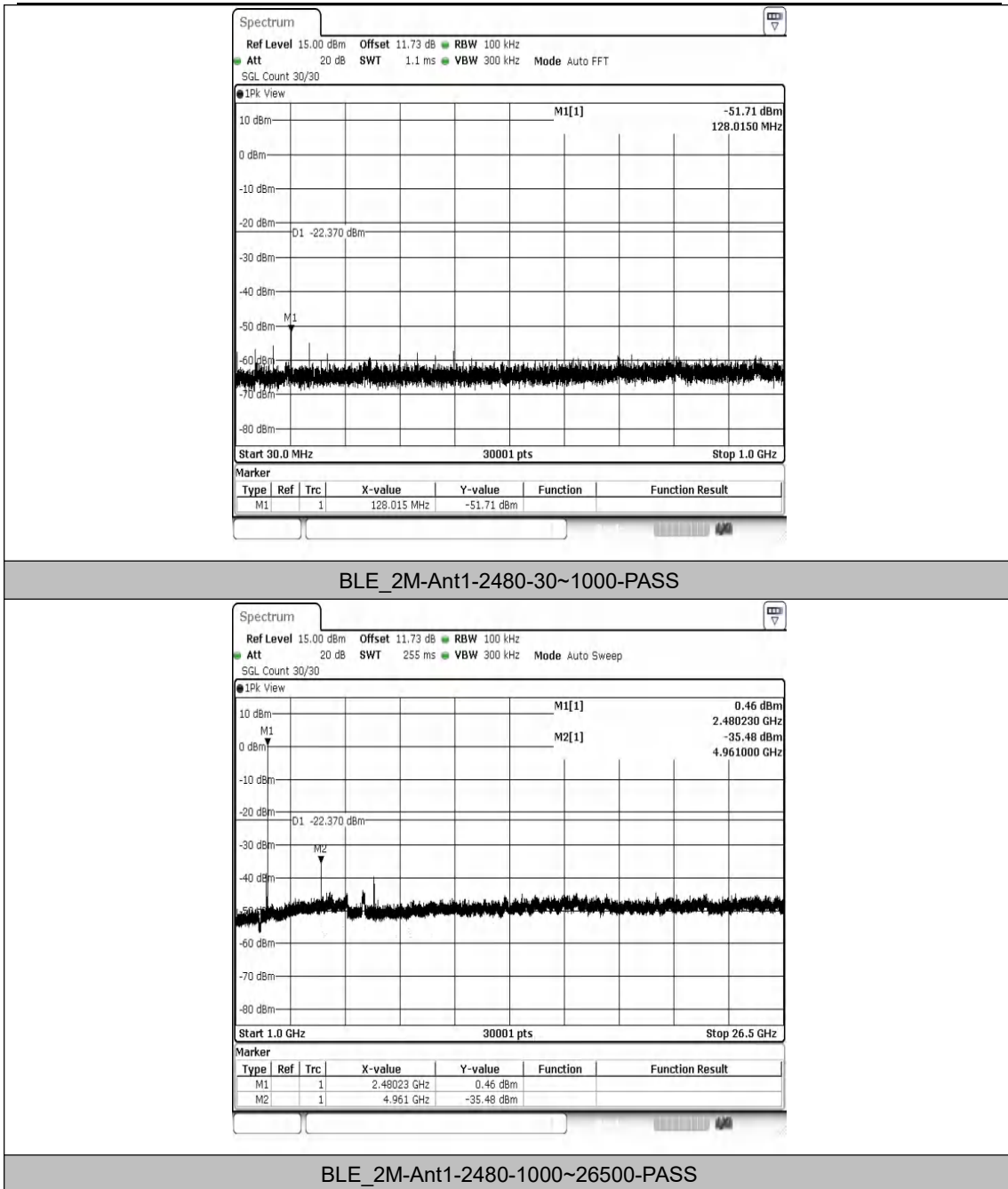


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## Appendix G: Duty Cycle

### Test Result

| Test Mode | Antenna | Frequency [MHz] | ON Time [ms] | Period [ms] | Duty Cycle [%] | Duty Cycle Factor[dB] |
|-----------|---------|-----------------|--------------|-------------|----------------|-----------------------|
| BLE_1M    | Ant1    | 2402            | 0.41         | 0.63        | 65.08          | 1.87                  |
| BLE_1M    | Ant1    | 2440            | 0.41         | 0.63        | 65.08          | 1.87                  |
| BLE_1M    | Ant1    | 2480            | 0.41         | 0.63        | 65.08          | 1.87                  |
| BLE_2M    | Ant1    | 2402            | 0.21         | 0.63        | 33.33          | 4.77                  |
| BLE_2M    | Ant1    | 2440            | 0.21         | 0.63        | 33.33          | 4.77                  |
| BLE_2M    | Ant1    | 2480            | 0.21         | 0.63        | 33.33          | 4.77                  |

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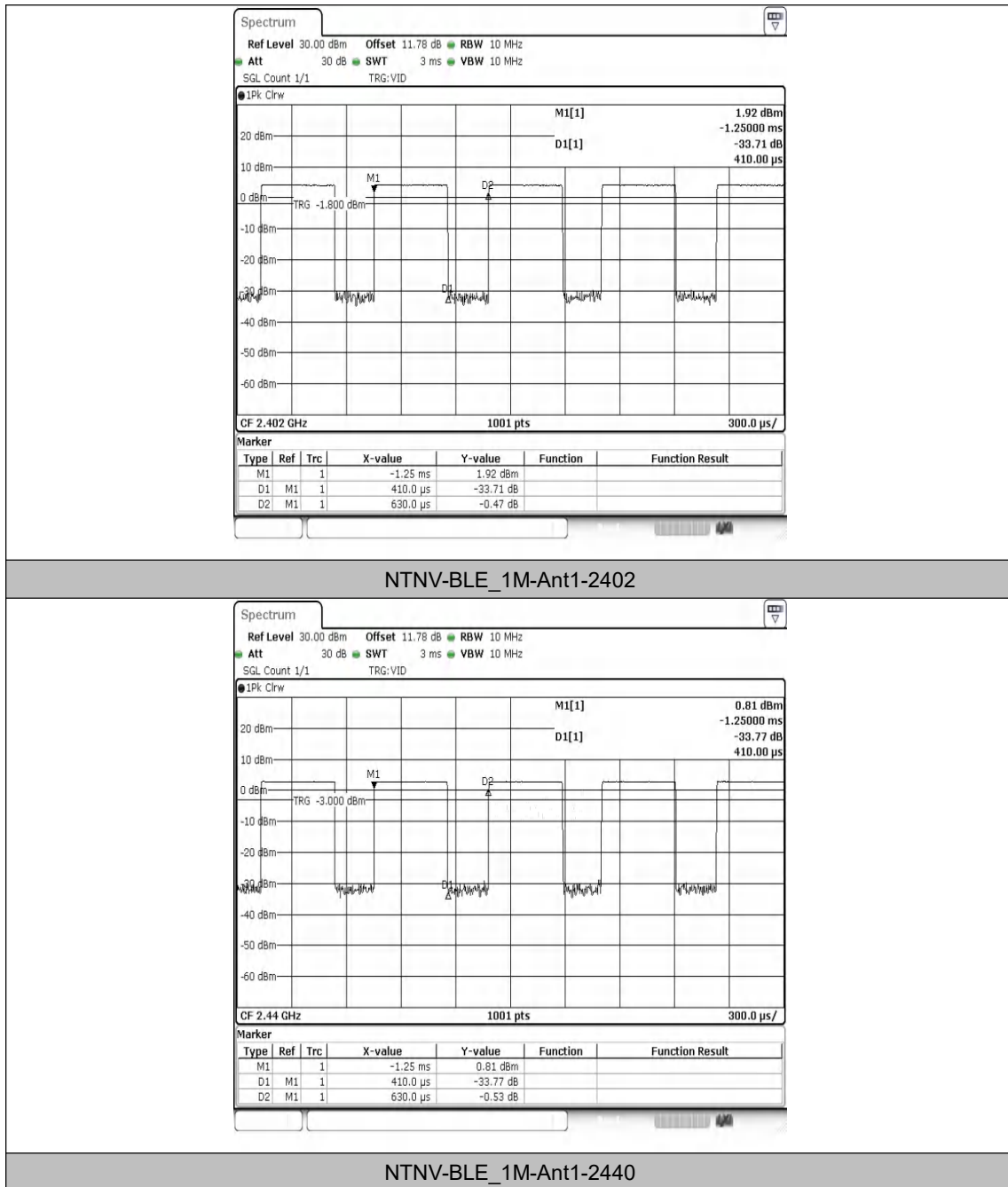
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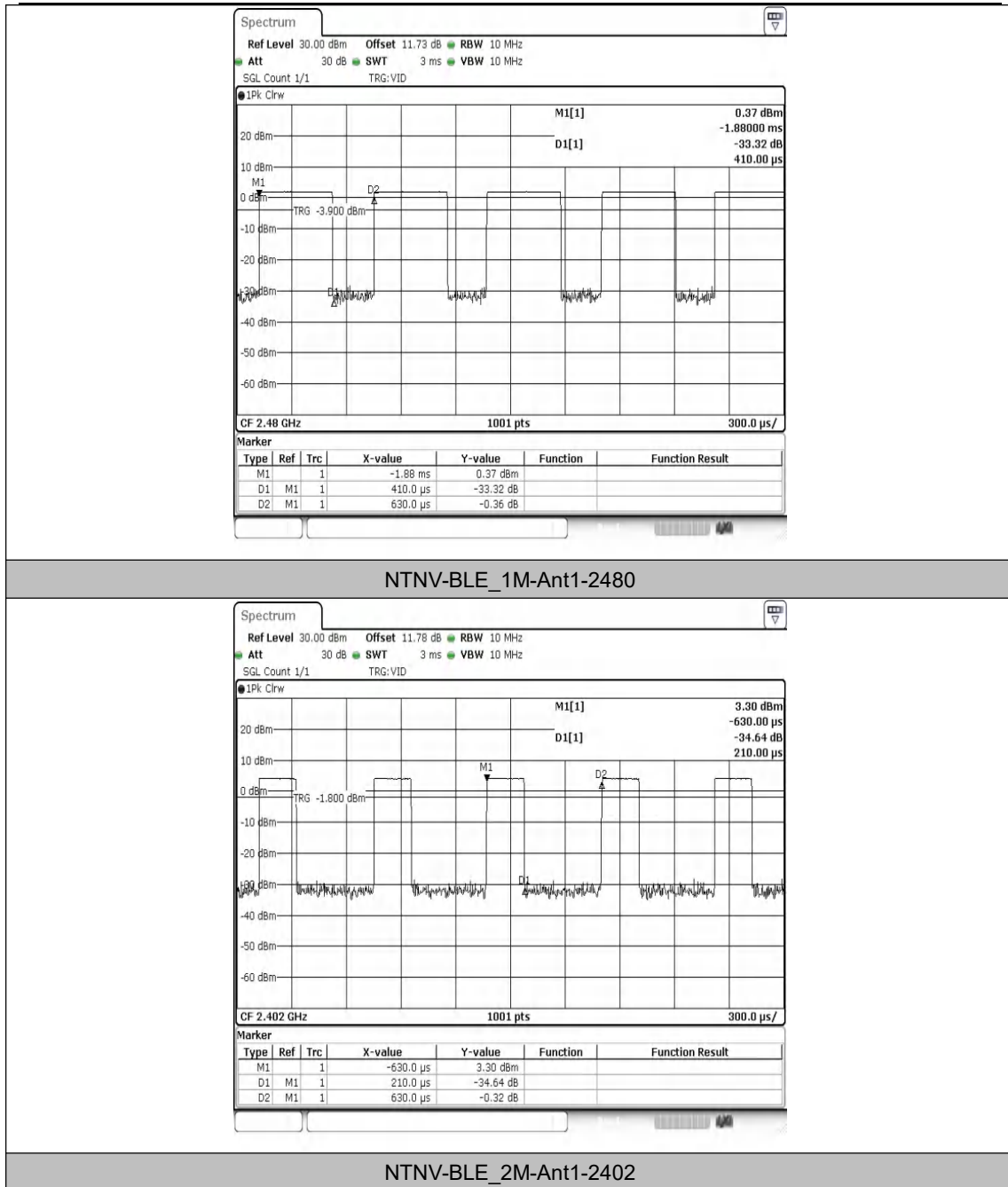


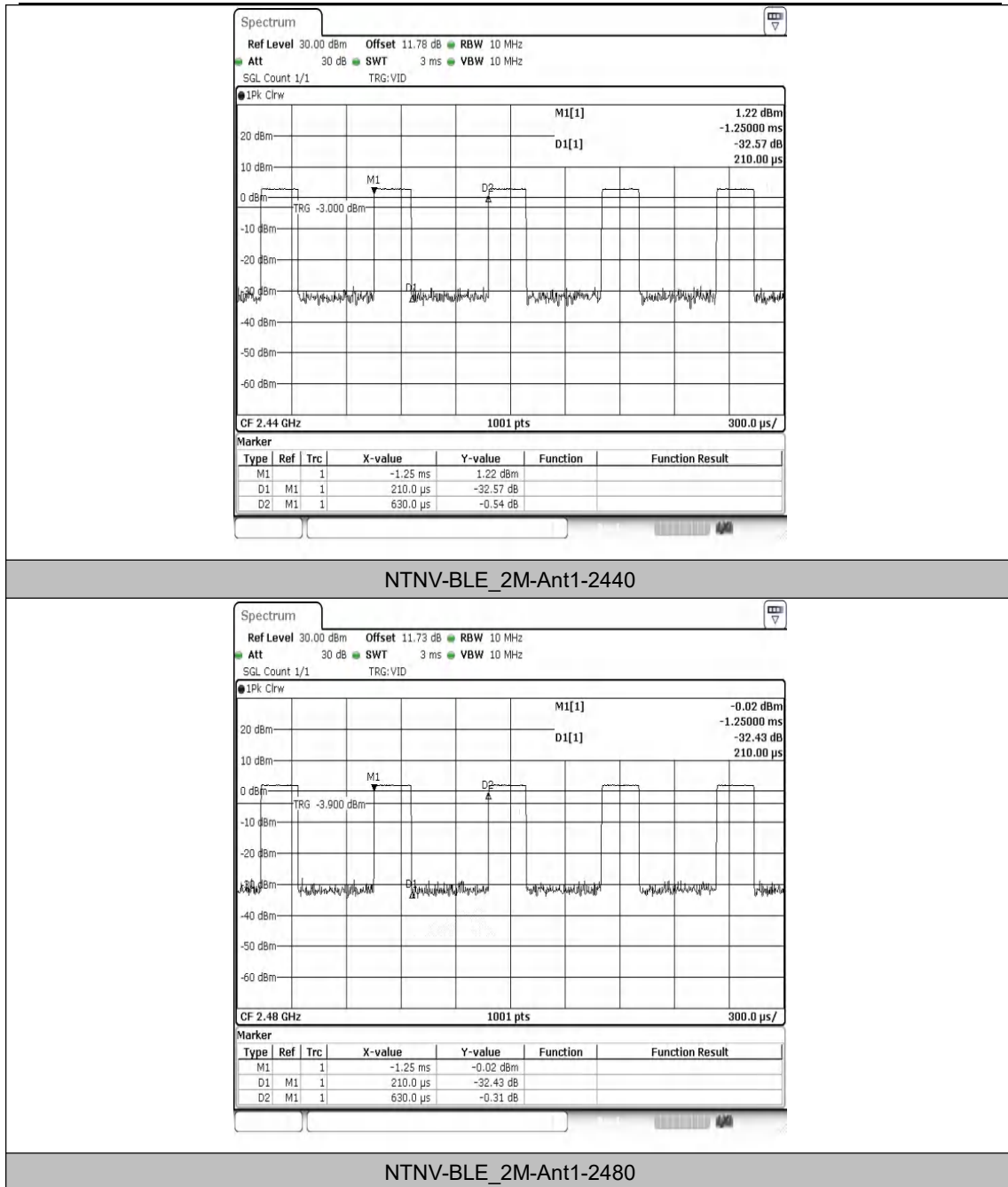
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## Test Graphs







---End---

