

Appendix Test Data

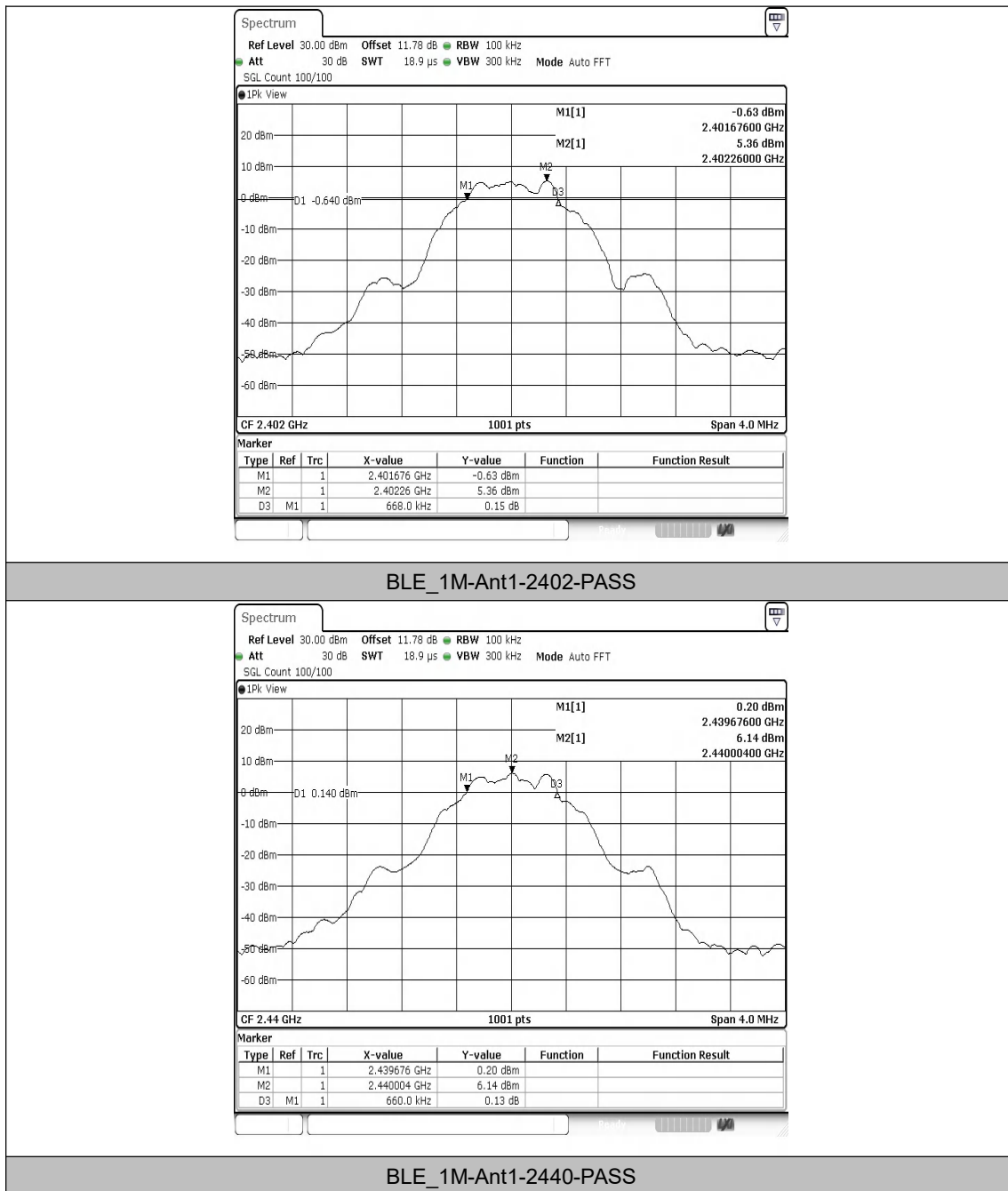
|                  |                   |                    |                    |
|------------------|-------------------|--------------------|--------------------|
| Report No.:      | 1812C40179712502  | Test Sample No.:   | 1-2-2              |
| Start Test Date: | 2024.12.16        | Finish Test Date:  | 2024.12.23         |
| Test Engineer:   | <i>Joker Wang</i> | Auditor:           | <i>Justin Feng</i> |
| Temperature:     | 24.7°C            | Relative Humidity: | 55%                |
| 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         | 2401.68 | 2402.34 | 0.5        | PASS    |
| BLE_1M    | Ant1    | 2440           | 0.66         | 2439.68 | 2440.34 | 0.5        | PASS    |
| BLE_1M    | Ant1    | 2480           | 0.69         | 2479.66 | 2480.35 | 0.5        | PASS    |
| BLE_2M    | Ant1    | 2402           | 1.14         | 2401.46 | 2402.60 | 0.5        | PASS    |
| BLE_2M    | Ant1    | 2440           | 1.14         | 2439.42 | 2440.56 | 0.5        | PASS    |
| BLE_2M    | Ant1    | 2480           | 1.21         | 2479.35 | 2480.56 | 0.5        | PASS    |

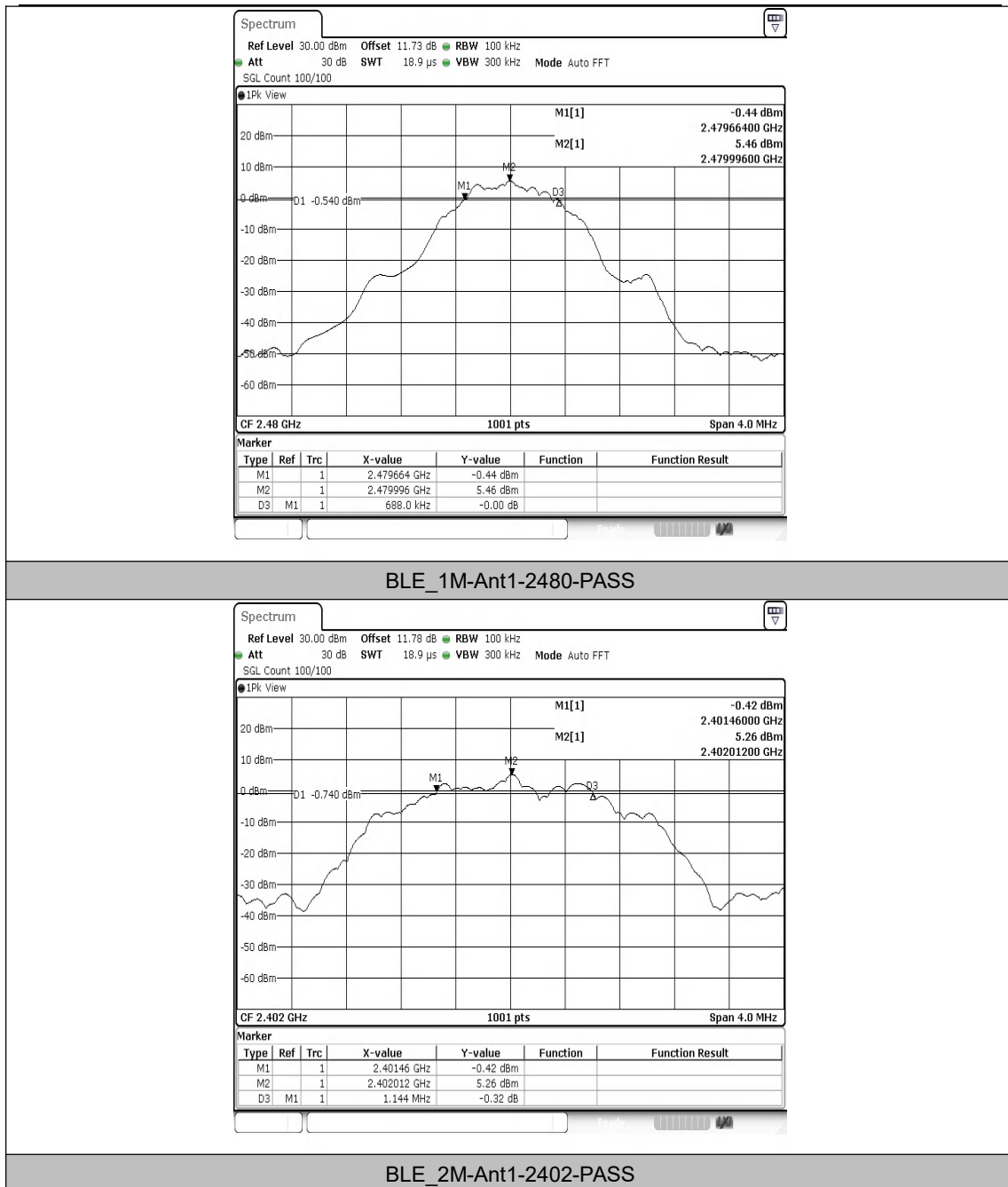
## Test Graphs

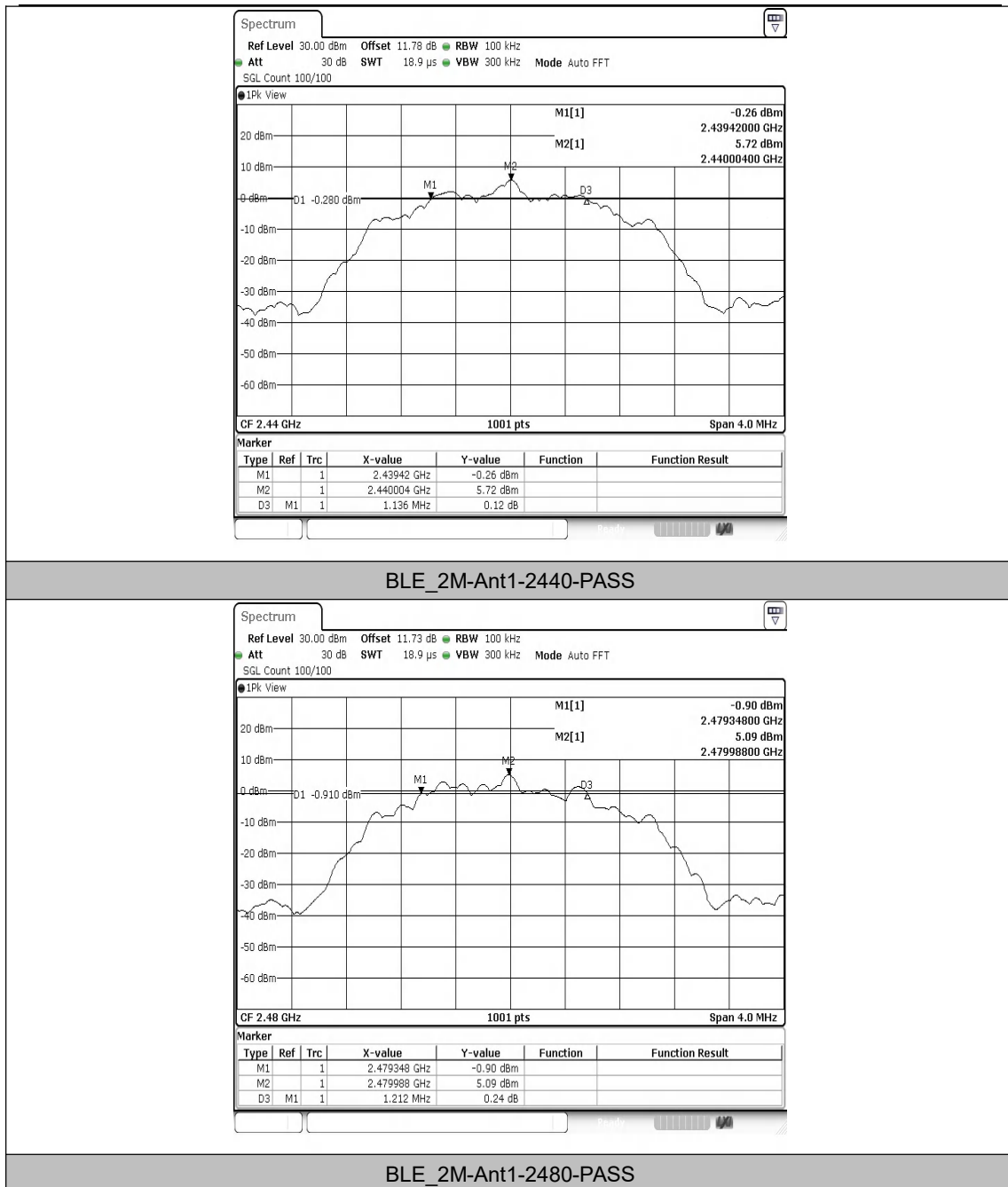


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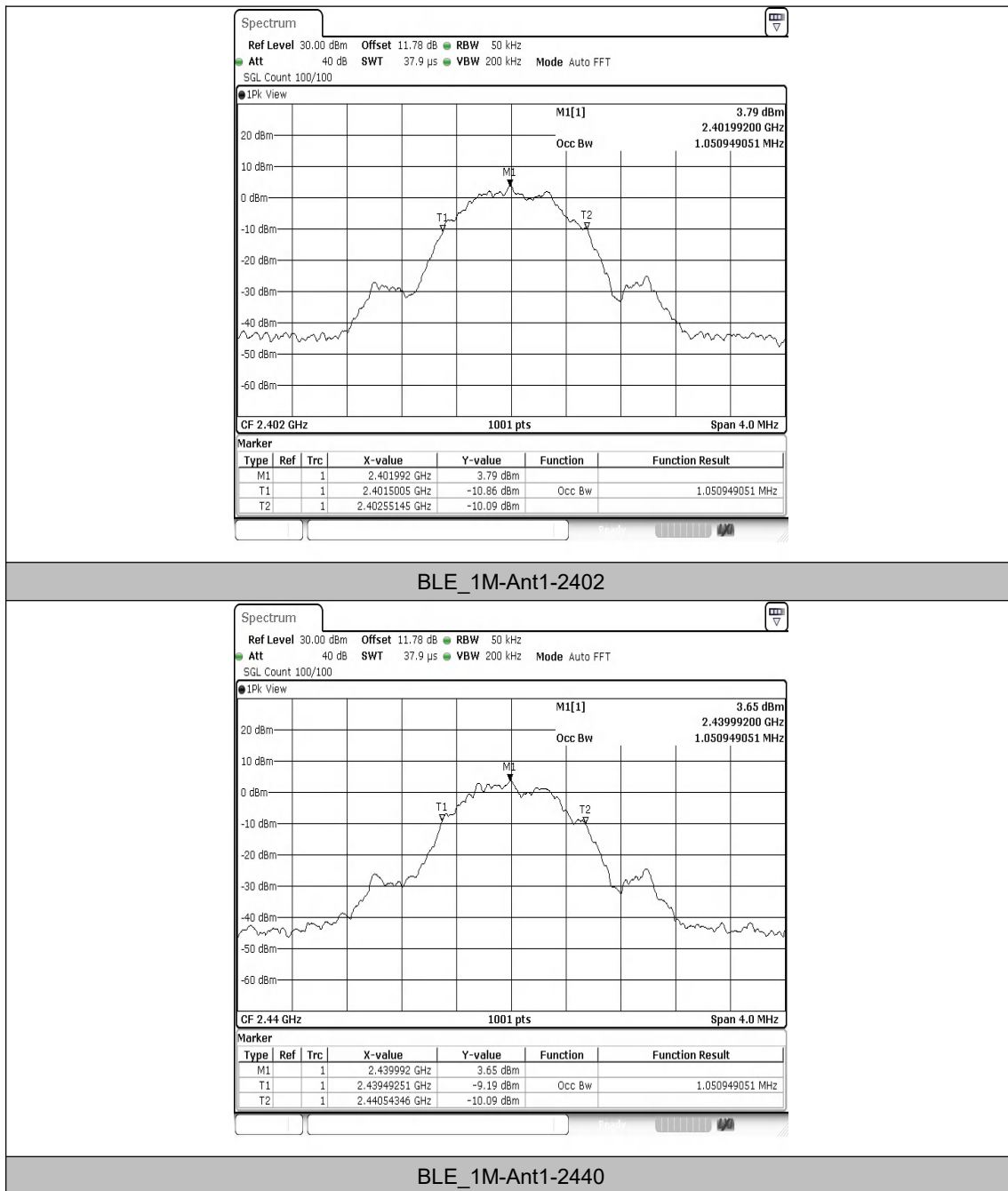


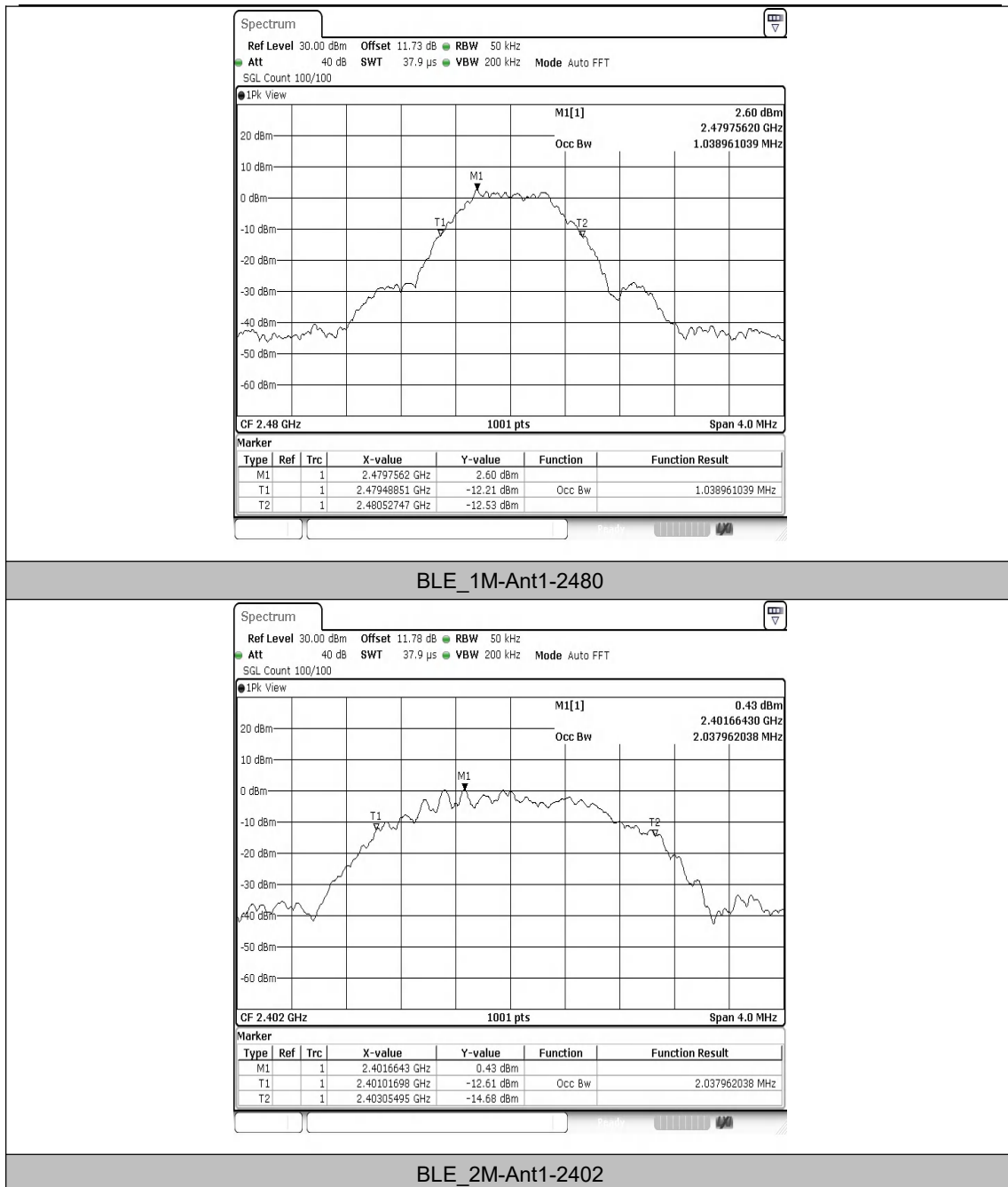
## Appendix B: 99% Occupied Bandwidth

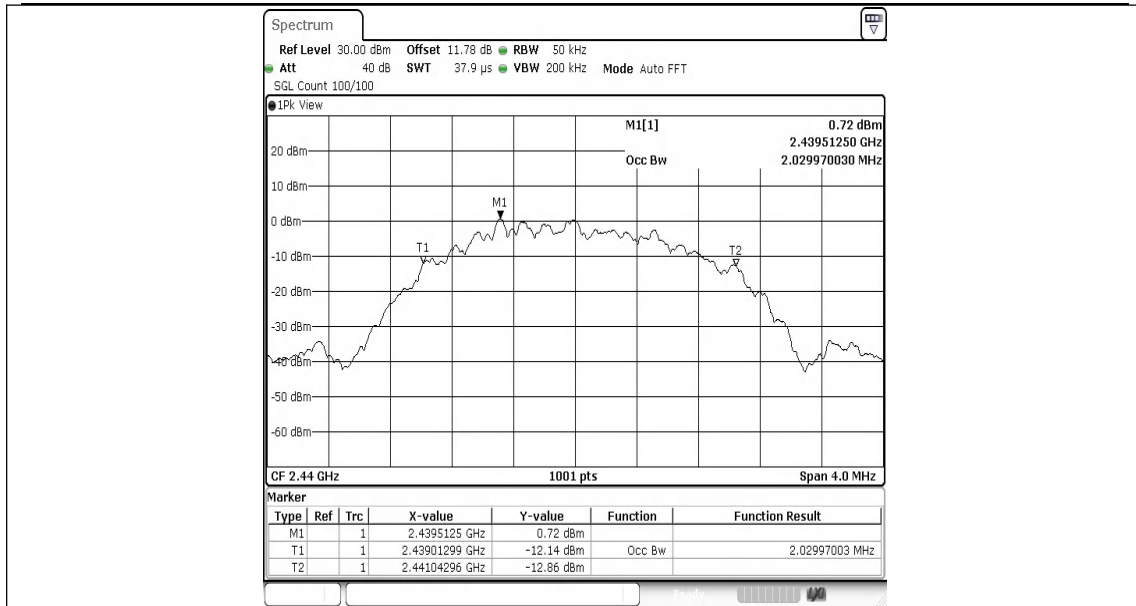
### Test Result

| Test Mode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|-----------|---------|----------------|-----------|-----------|-----------|------------|---------|
| BLE_1M    | Ant1    | 2402           | 1.051     | 2401.5005 | 2402.5514 | ---        | ---     |
| BLE_1M    | Ant1    | 2440           | 1.051     | 2439.4925 | 2440.5435 | ---        | ---     |
| BLE_1M    | Ant1    | 2480           | 1.039     | 2479.4885 | 2480.5275 | ---        | ---     |
| BLE_2M    | Ant1    | 2402           | 2.038     | 2401.0170 | 2403.0549 | ---        | ---     |
| BLE_2M    | Ant1    | 2440           | 2.030     | 2439.0130 | 2441.0430 | ---        | ---     |
| BLE_2M    | Ant1    | 2480           | 2.054     | 2478.9890 | 2481.0430 | ---        | ---     |

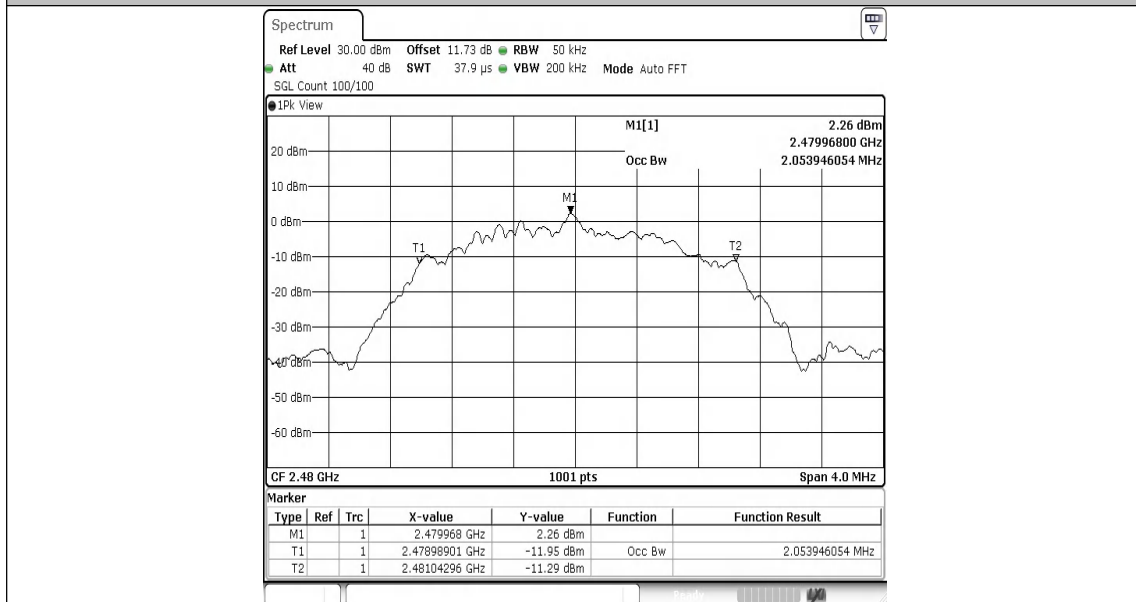
## Test Graphs







BLE\_2M-Ant1-2440



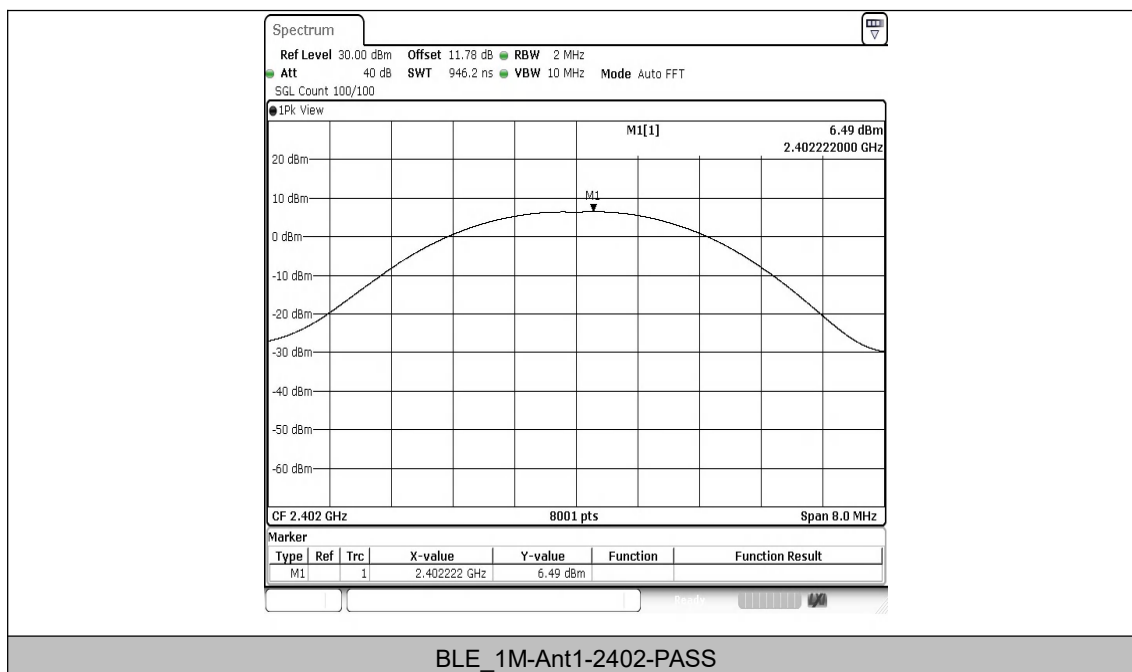
BLE\_2M-Ant1-2480

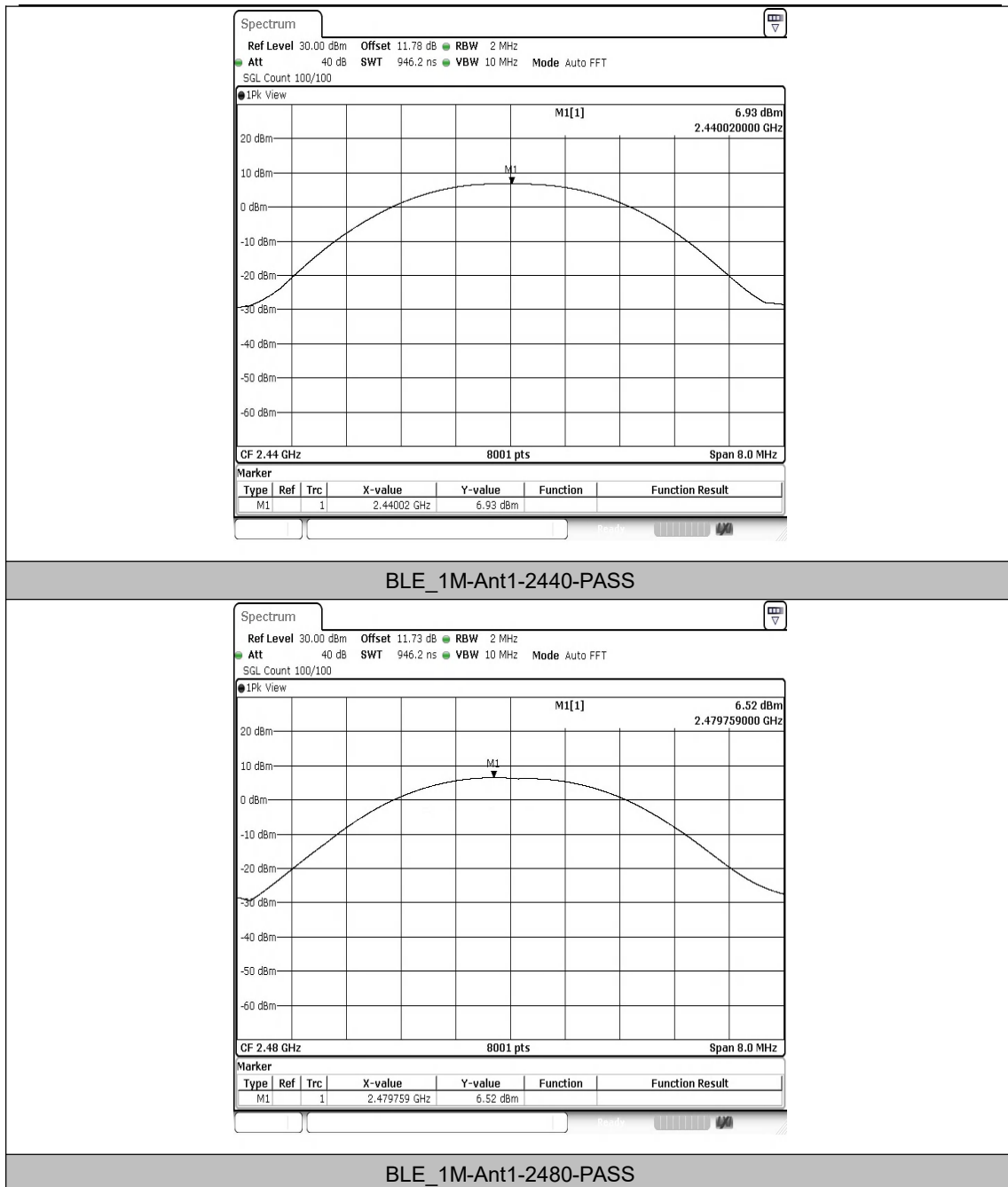
## Appendix C: Maximum conducted output power

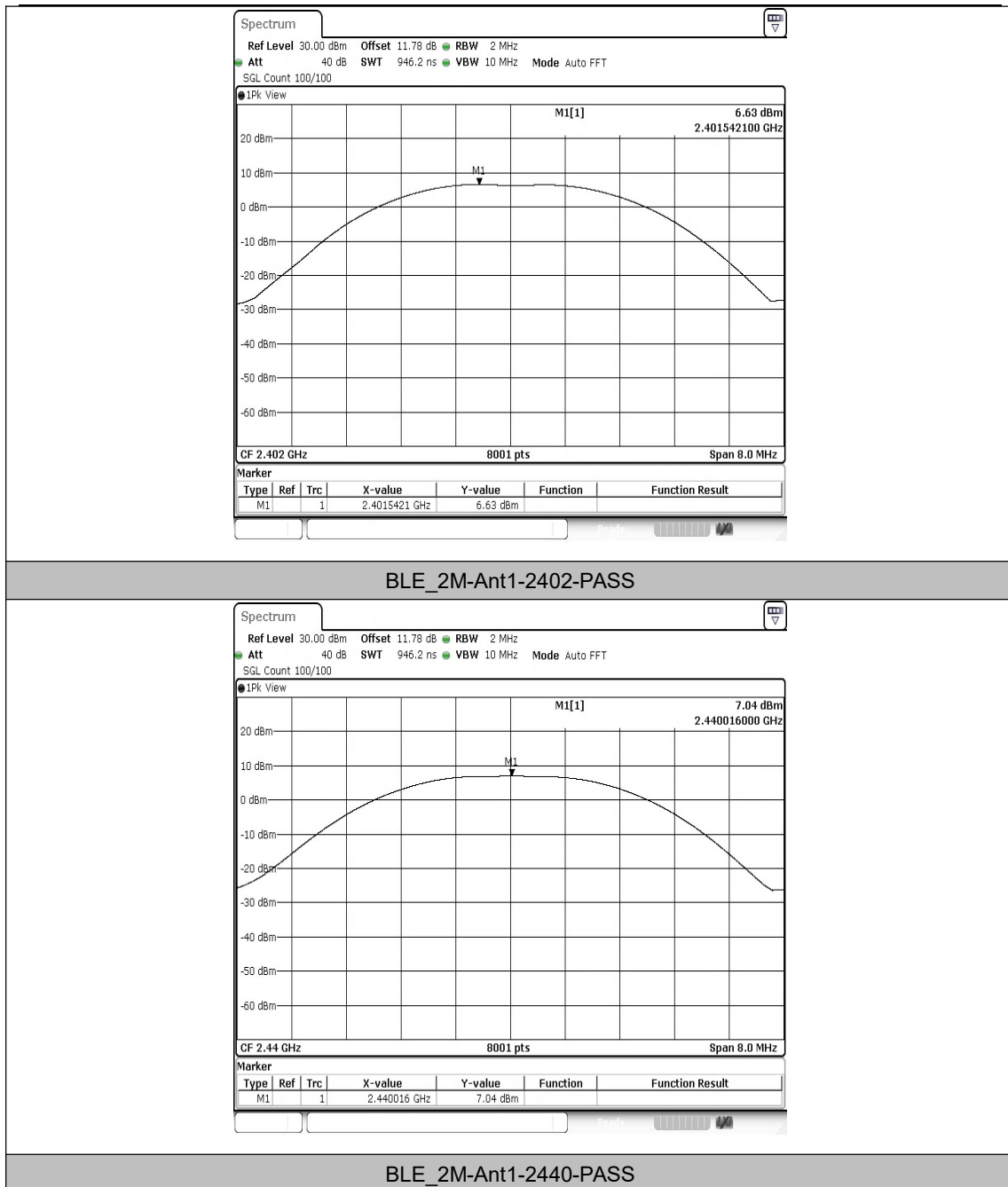
### Test Result Peak

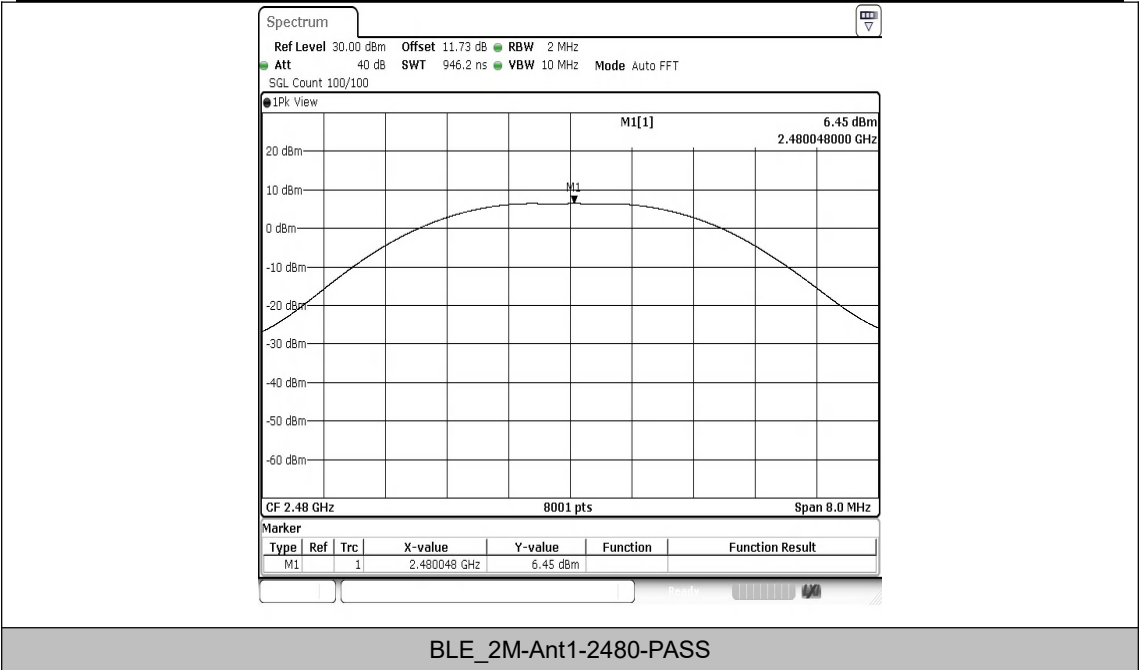
| Test Mode | Antenna | Frequency [MHz] | Conducted Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|-----------|---------|-----------------|---------------------------|----------------------|---------|
| BLE_1M    | Ant1    | 2402            | 6.49                      | ≤30                  | PASS    |
| BLE_1M    | Ant1    | 2440            | 6.93                      | ≤30                  | PASS    |
| BLE_1M    | Ant1    | 2480            | 6.52                      | ≤30                  | PASS    |
| BLE_2M    | Ant1    | 2402            | 6.63                      | ≤30                  | PASS    |
| BLE_2M    | Ant1    | 2440            | 7.04                      | ≤30                  | PASS    |
| BLE_2M    | Ant1    | 2480            | 6.45                      | ≤30                  | PASS    |

### Test Graphs Peak









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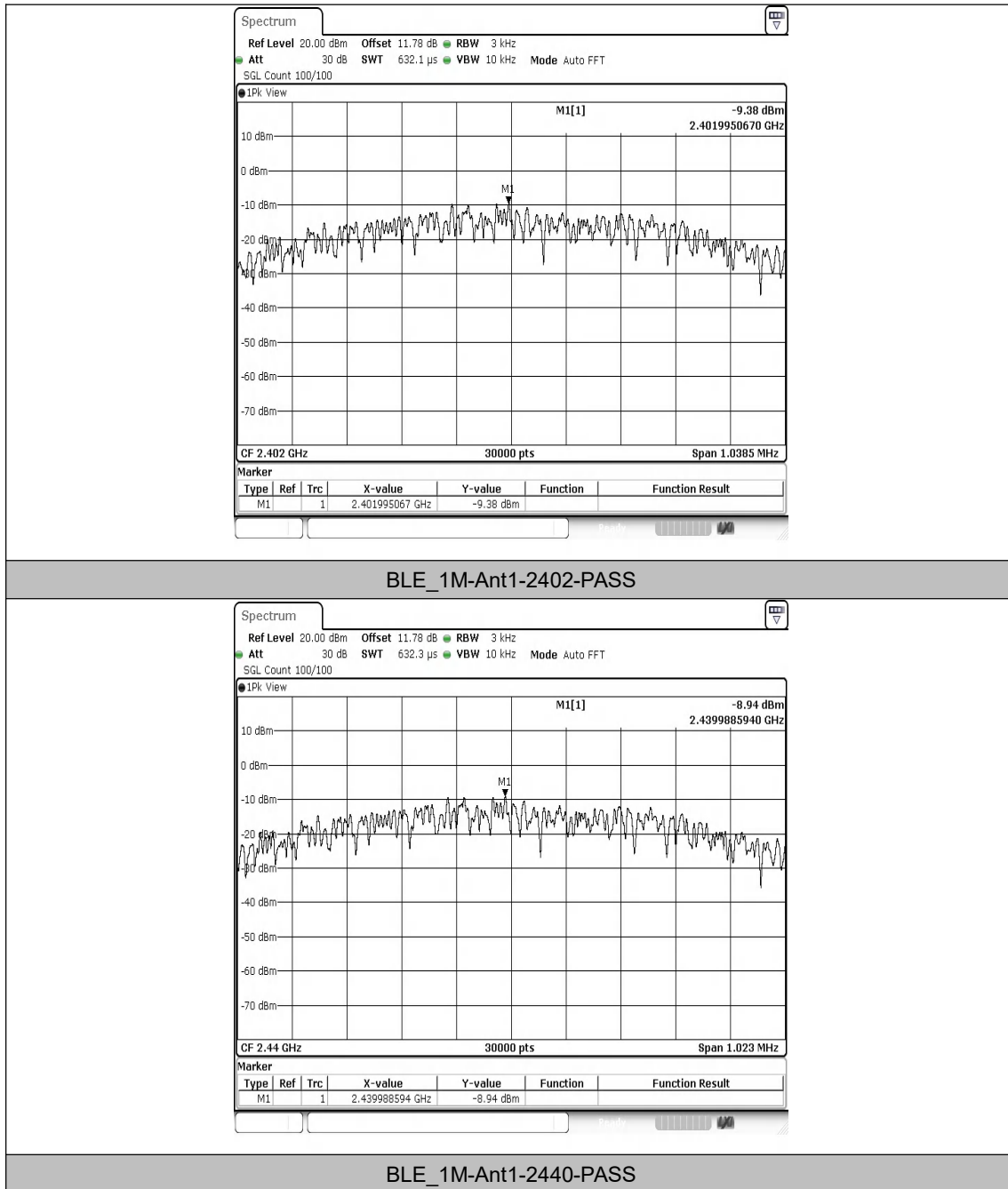
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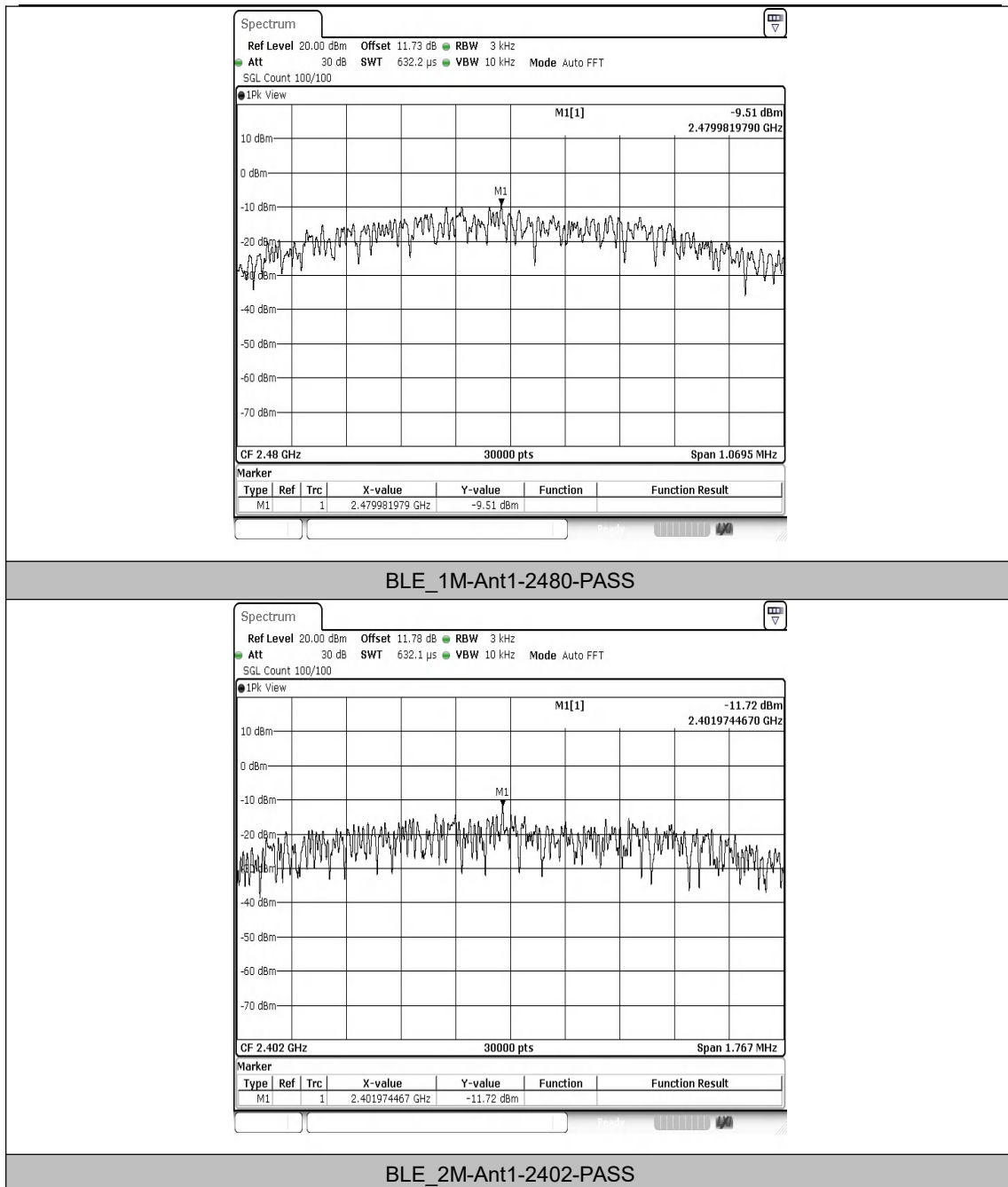
## Appendix D: Maximum power spectral density

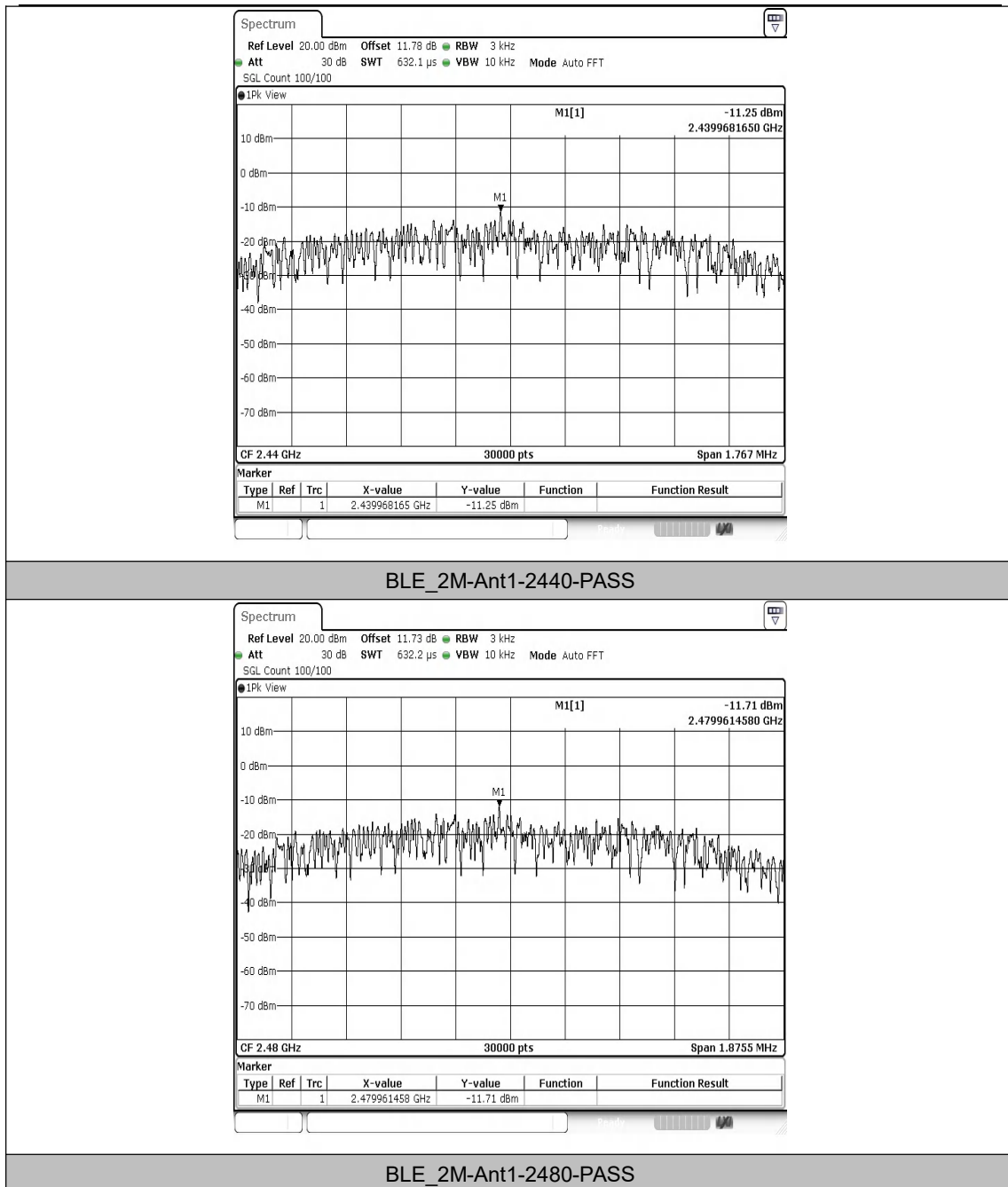
### Test Result

| TestMode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|----------------|------------------|-----------------|---------|
| BLE_1M   | Ant1    | 2402           | -9.38            | ≤8.00           | PASS    |
| BLE_1M   | Ant1    | 2440           | -8.94            | ≤8.00           | PASS    |
| BLE_1M   | Ant1    | 2480           | -9.51            | ≤8.00           | PASS    |
| BLE_2M   | Ant1    | 2402           | -11.72           | ≤8.00           | PASS    |
| BLE_2M   | Ant1    | 2440           | -11.25           | ≤8.00           | PASS    |
| BLE_2M   | Ant1    | 2480           | -11.71           | ≤8.00           | PASS    |

## Test Graphs







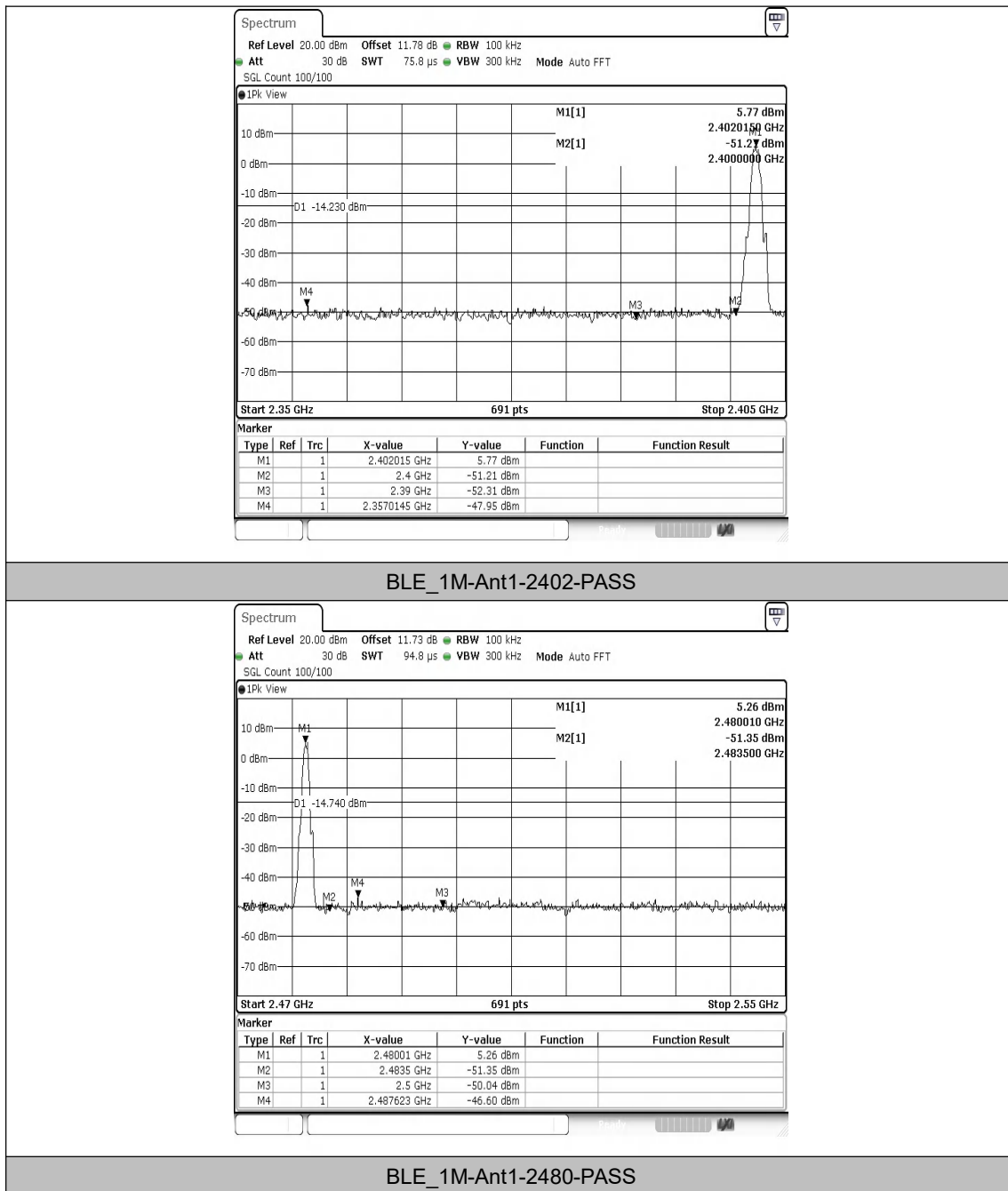
## Appendix E: Band edge measurements

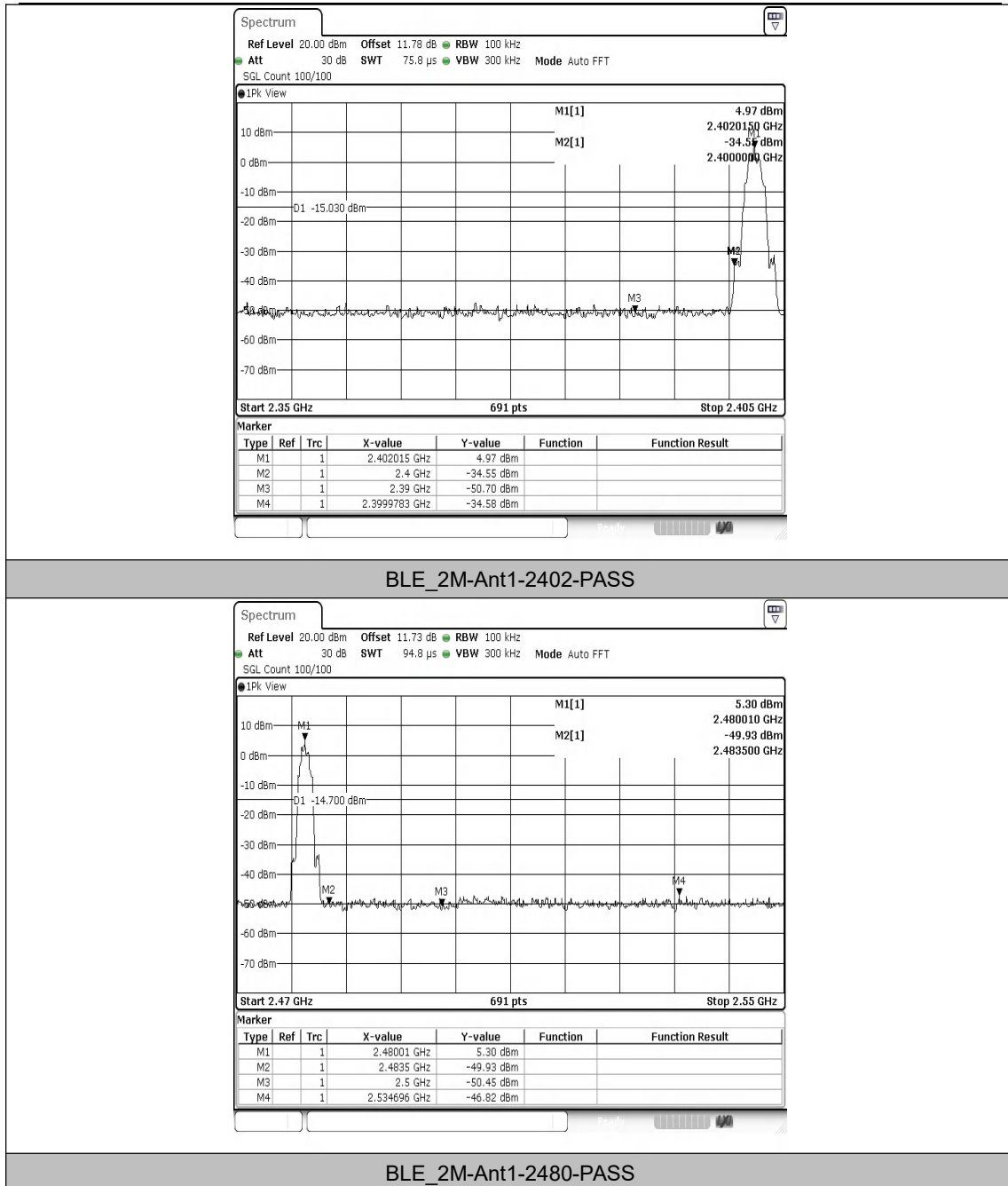
### Test Result

| Test Mode | Antenna | ChName | Frequency [MHz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|--------|-----------------|----------------|--------------|-------------|---------|
| BLE_1M    | Ant1    | Low    | 2402            | 5.77           | -47.95       | ≤-14.23     | PASS    |
| BLE_1M    | Ant1    | High   | 2480            | 5.26           | -46.6        | ≤-14.74     | PASS    |
| BLE_2M    | Ant1    | Low    | 2402            | 4.97           | -34.58       | ≤-15.03     | PASS    |
| BLE_2M    | Ant1    | High   | 2480            | 5.30           | -46.82       | ≤-14.7      | PASS    |



## Test Graphs



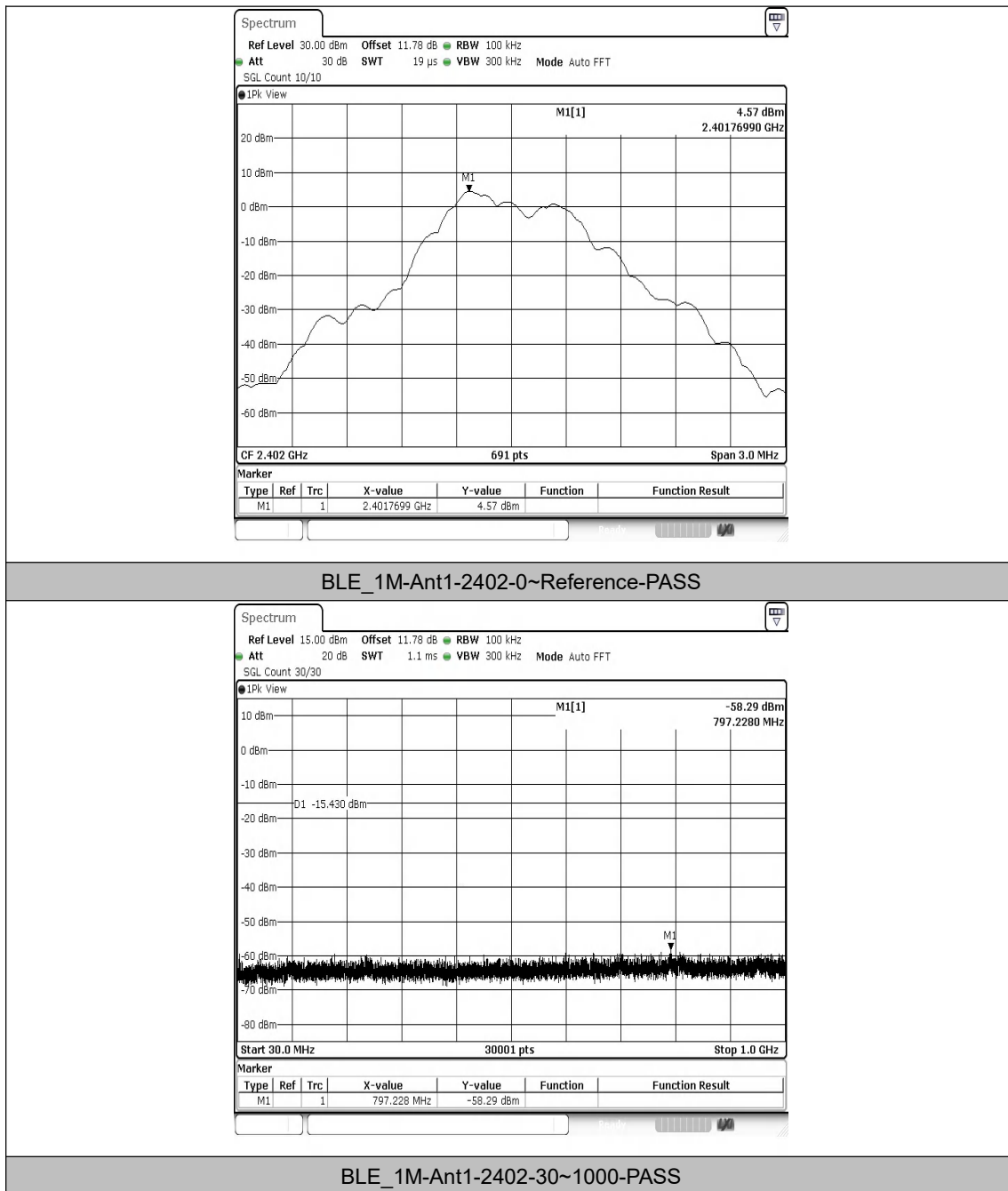


## Appendix F: Conducted Spurious Emission

### Test Result

| Test Mode | Antenna | Frequency [MHz] | Freq. Range [MHz] | Ref. Level [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|-----------------|-------------------|------------------|--------------|-------------|---------|
| BLE_1M    | Ant1    | 2402            | 0~Reference       | 4.57             | 4.57         | ---         | PASS    |
| BLE_1M    | Ant1    | 2402            | 30~1000           | 4.57             | -58.29       | ≤-15.43     | PASS    |
| BLE_1M    | Ant1    | 2402            | 1000~26500        | 4.57             | -44.01       | ≤-15.43     | PASS    |
| BLE_1M    | Ant1    | 2440            | 0~Reference       | 5.35             | 5.35         | ---         | PASS    |
| BLE_1M    | Ant1    | 2440            | 30~1000           | 5.35             | -56.46       | ≤-14.65     | PASS    |
| BLE_1M    | Ant1    | 2440            | 1000~26500        | 5.35             | -44          | ≤-14.65     | PASS    |
| BLE_1M    | Ant1    | 2480            | 0~Reference       | 4.96             | 4.96         | ---         | PASS    |
| BLE_1M    | Ant1    | 2480            | 30~1000           | 4.96             | -49.26       | ≤-15.04     | PASS    |
| BLE_1M    | Ant1    | 2480            | 1000~26500        | 4.96             | -44.13       | ≤-15.04     | PASS    |
| BLE_2M    | Ant1    | 2402            | 0~Reference       | -0.36            | -0.36        | ---         | PASS    |
| BLE_2M    | Ant1    | 2402            | 30~1000           | -0.36            | -57.5        | ≤-20.36     | PASS    |
| BLE_2M    | Ant1    | 2402            | 1000~26500        | -0.36            | -44.21       | ≤-20.36     | PASS    |
| BLE_2M    | Ant1    | 2440            | 0~Reference       | 1.95             | 1.95         | ---         | PASS    |
| BLE_2M    | Ant1    | 2440            | 30~1000           | 1.95             | -57.62       | ≤-18.05     | PASS    |
| BLE_2M    | Ant1    | 2440            | 1000~26500        | 1.95             | -43.83       | ≤-18.05     | PASS    |
| BLE_2M    | Ant1    | 2480            | 0~Reference       | 2.33             | 2.33         | ---         | PASS    |
| BLE_2M    | Ant1    | 2480            | 30~1000           | 2.33             | -58.02       | ≤-17.67     | PASS    |
| BLE_2M    | Ant1    | 2480            | 1000~26500        | 2.33             | -44.62       | ≤-17.67     | PASS    |

## Test Graphs

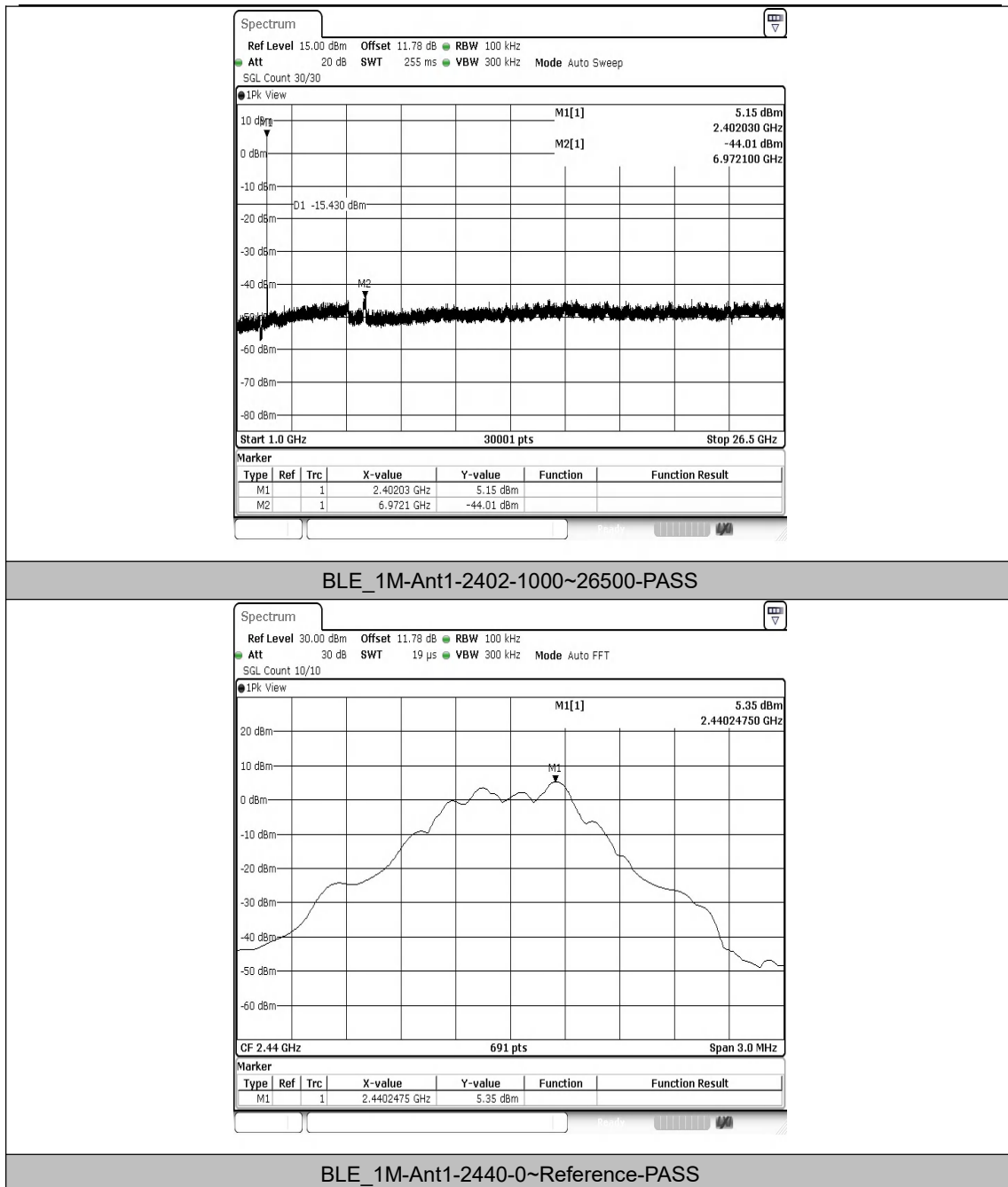


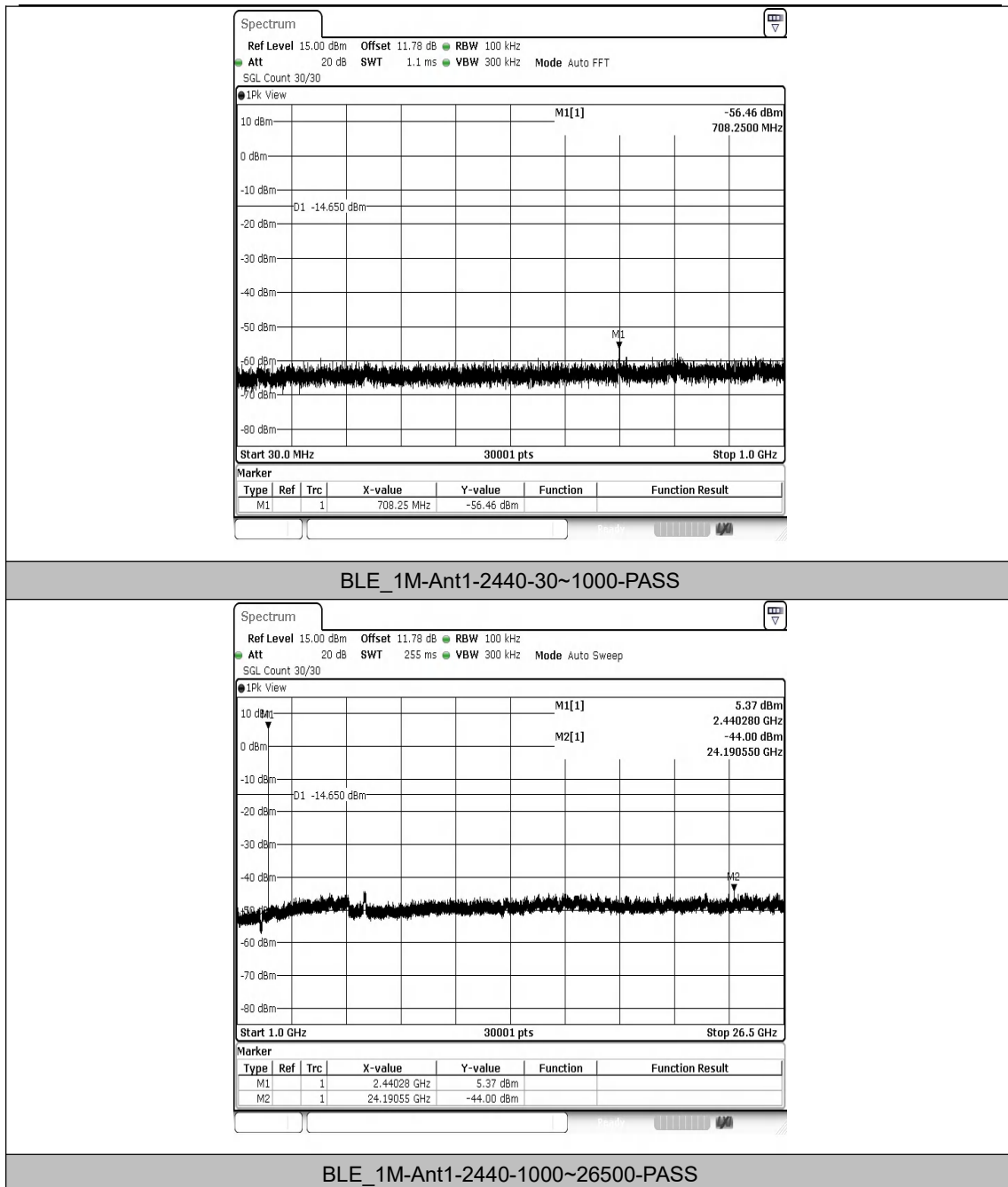
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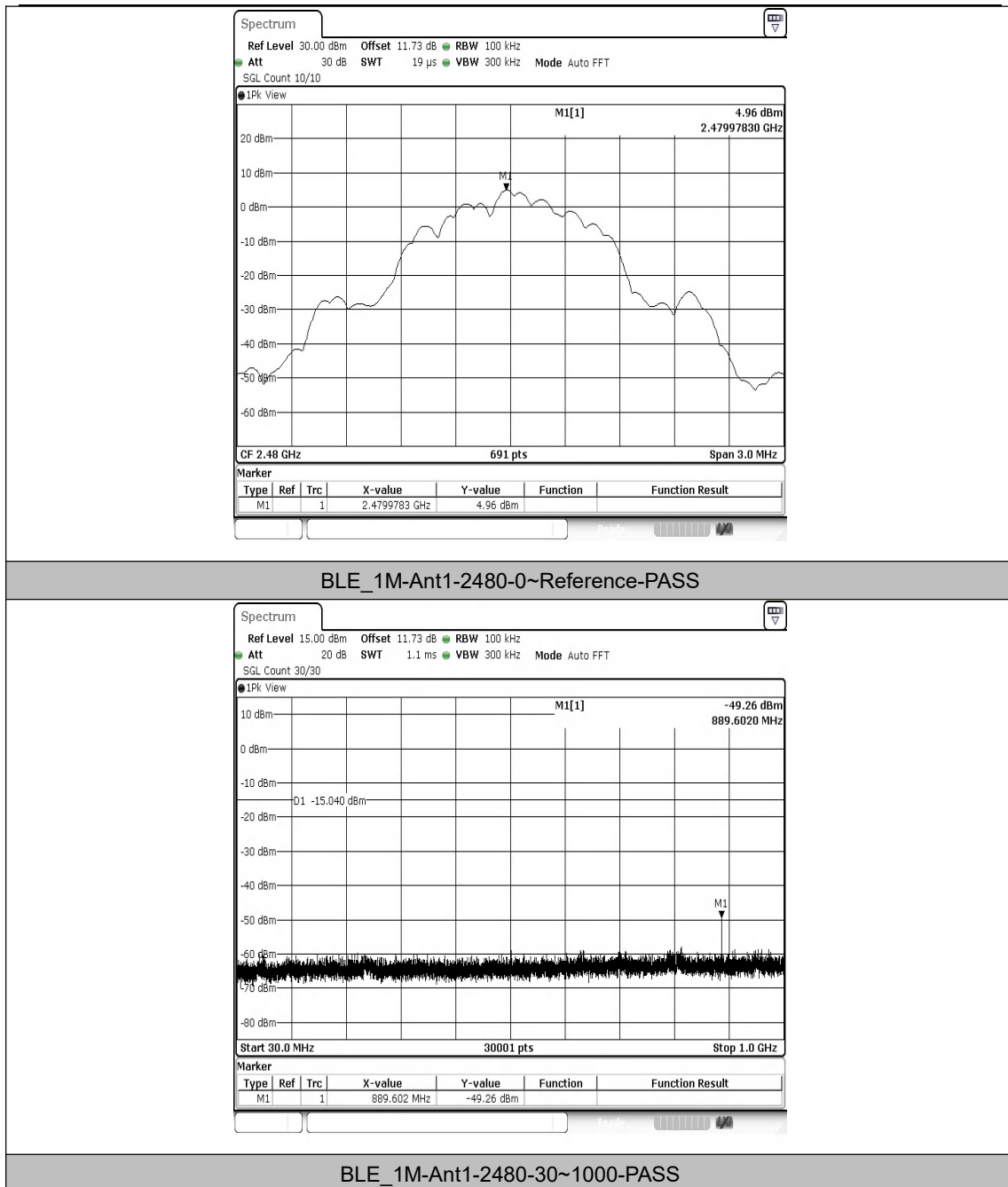
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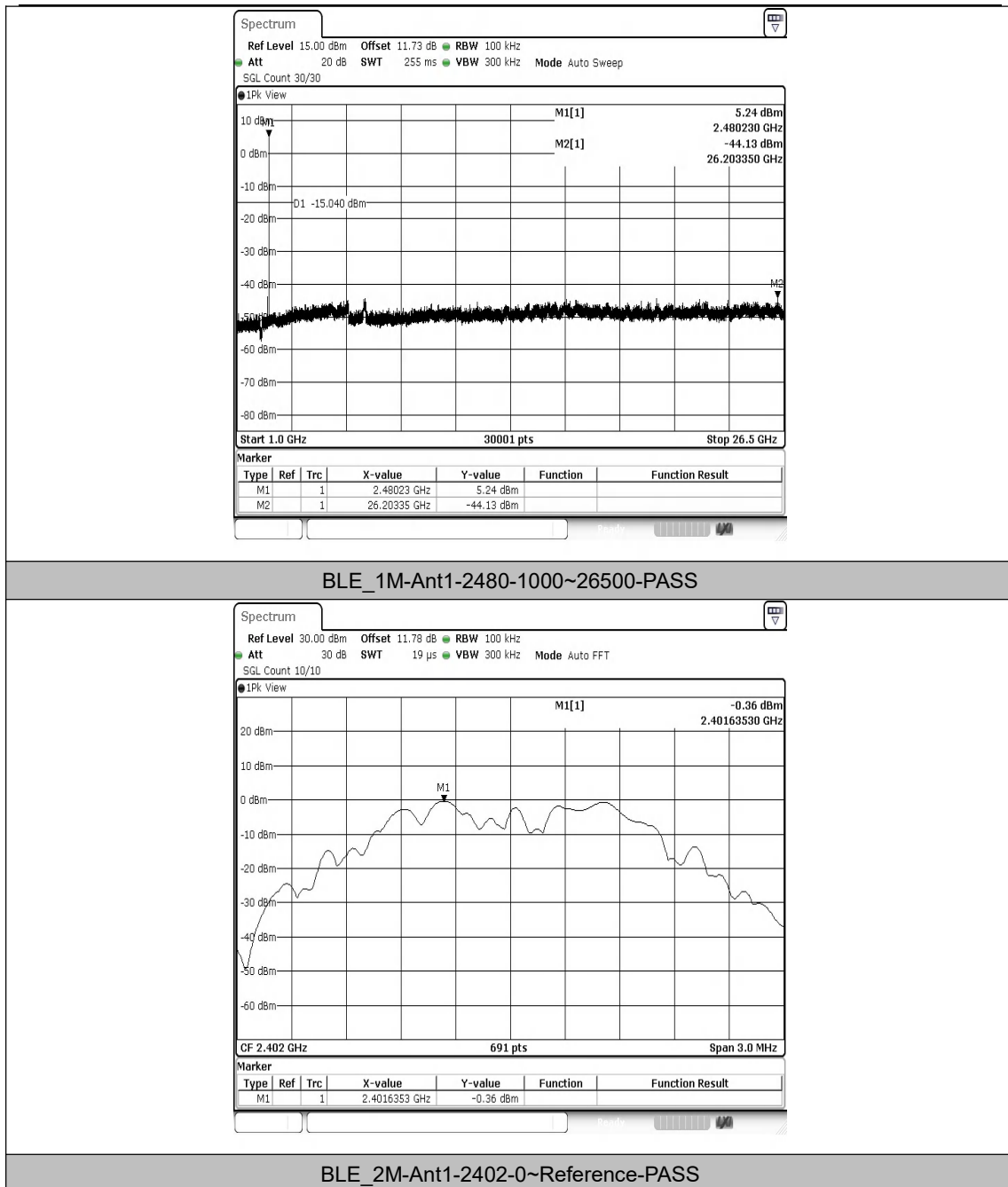


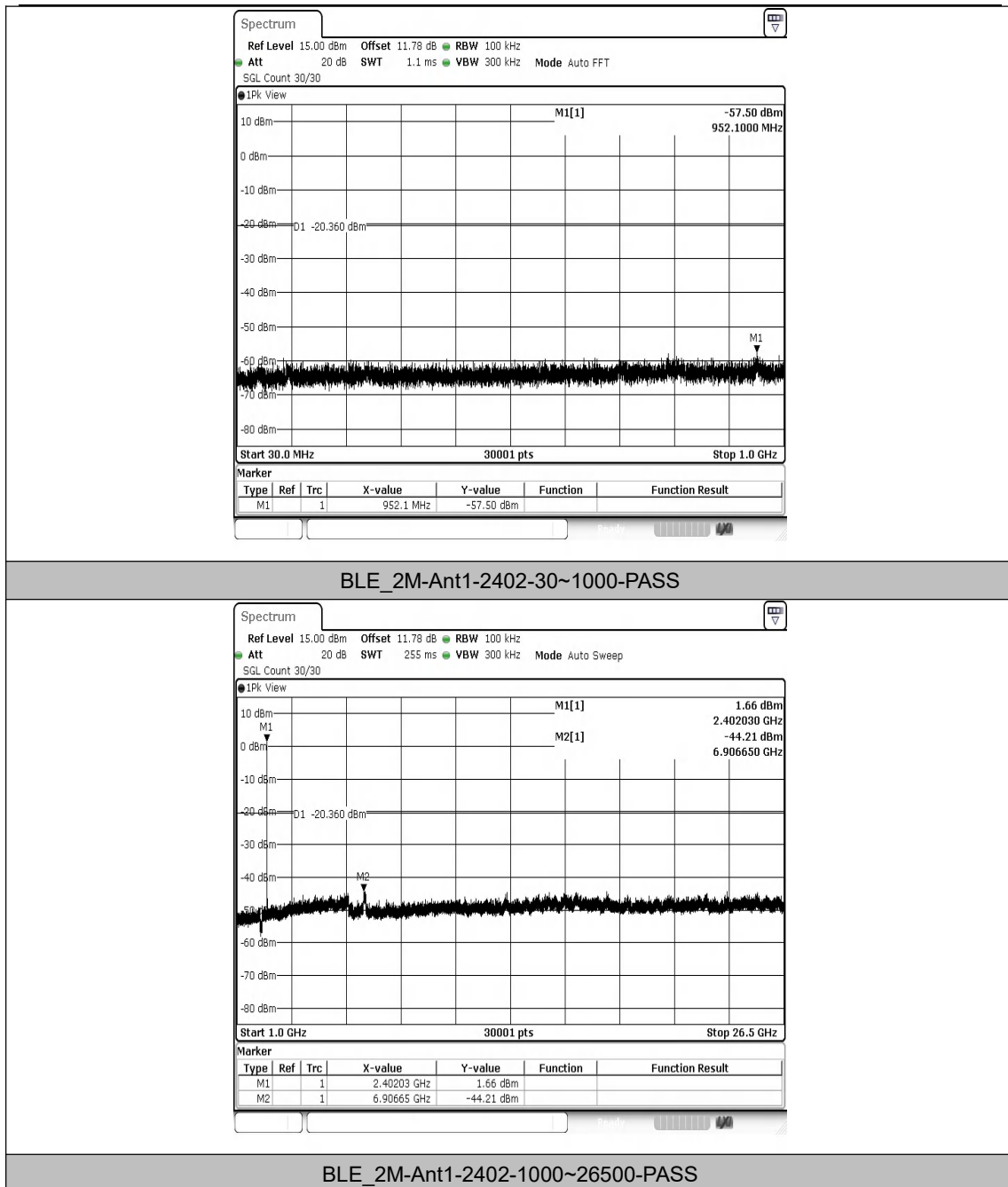
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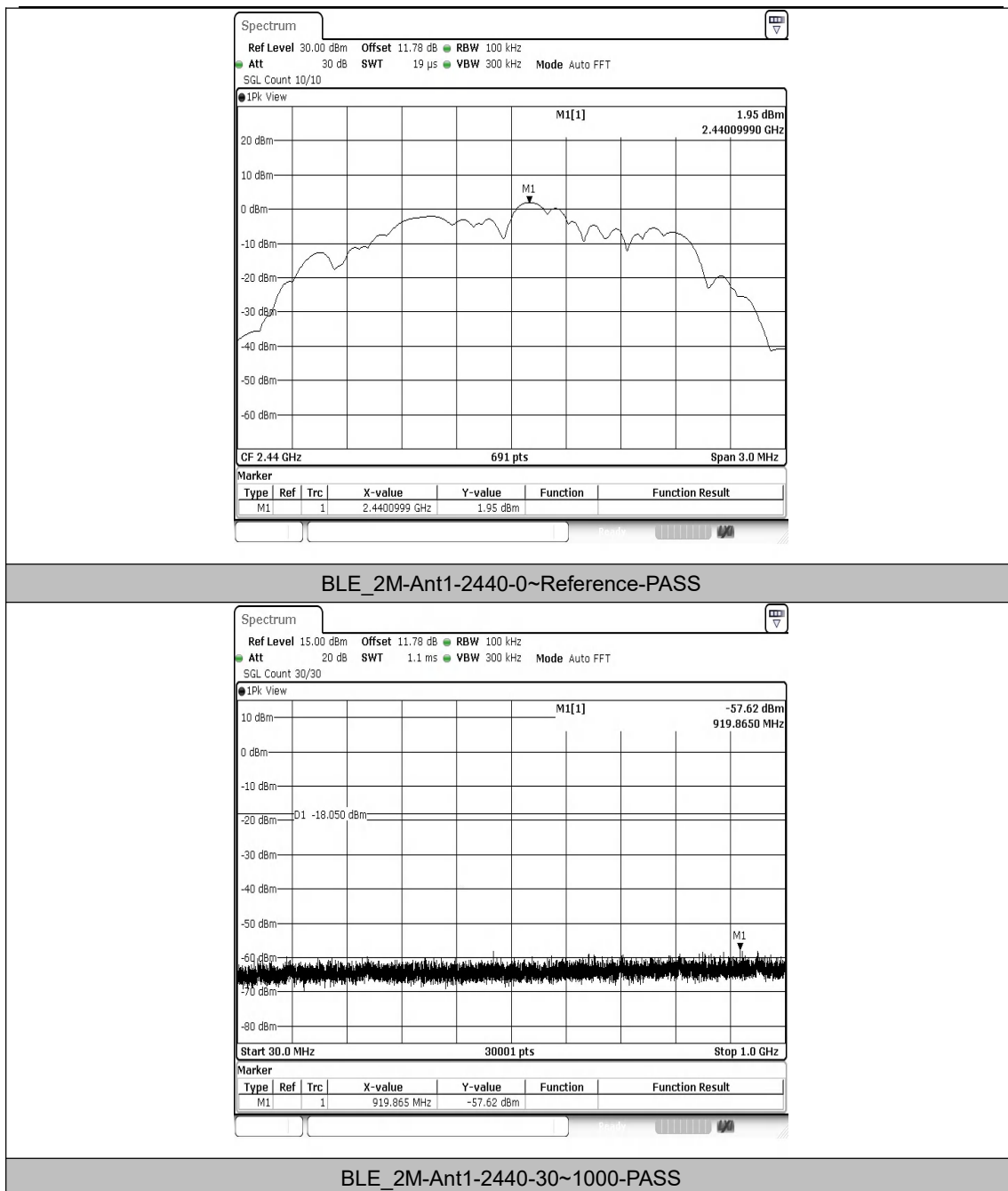


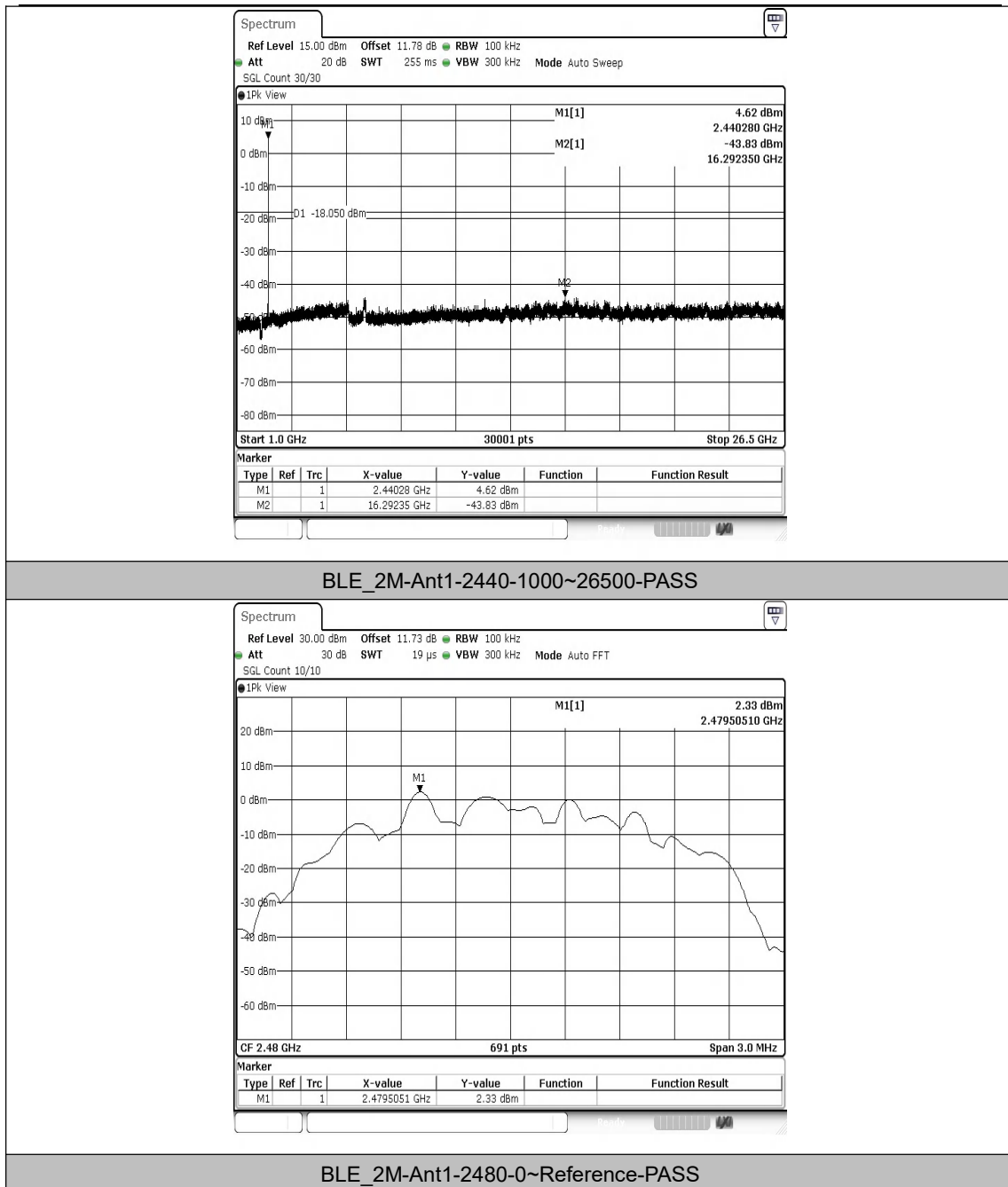


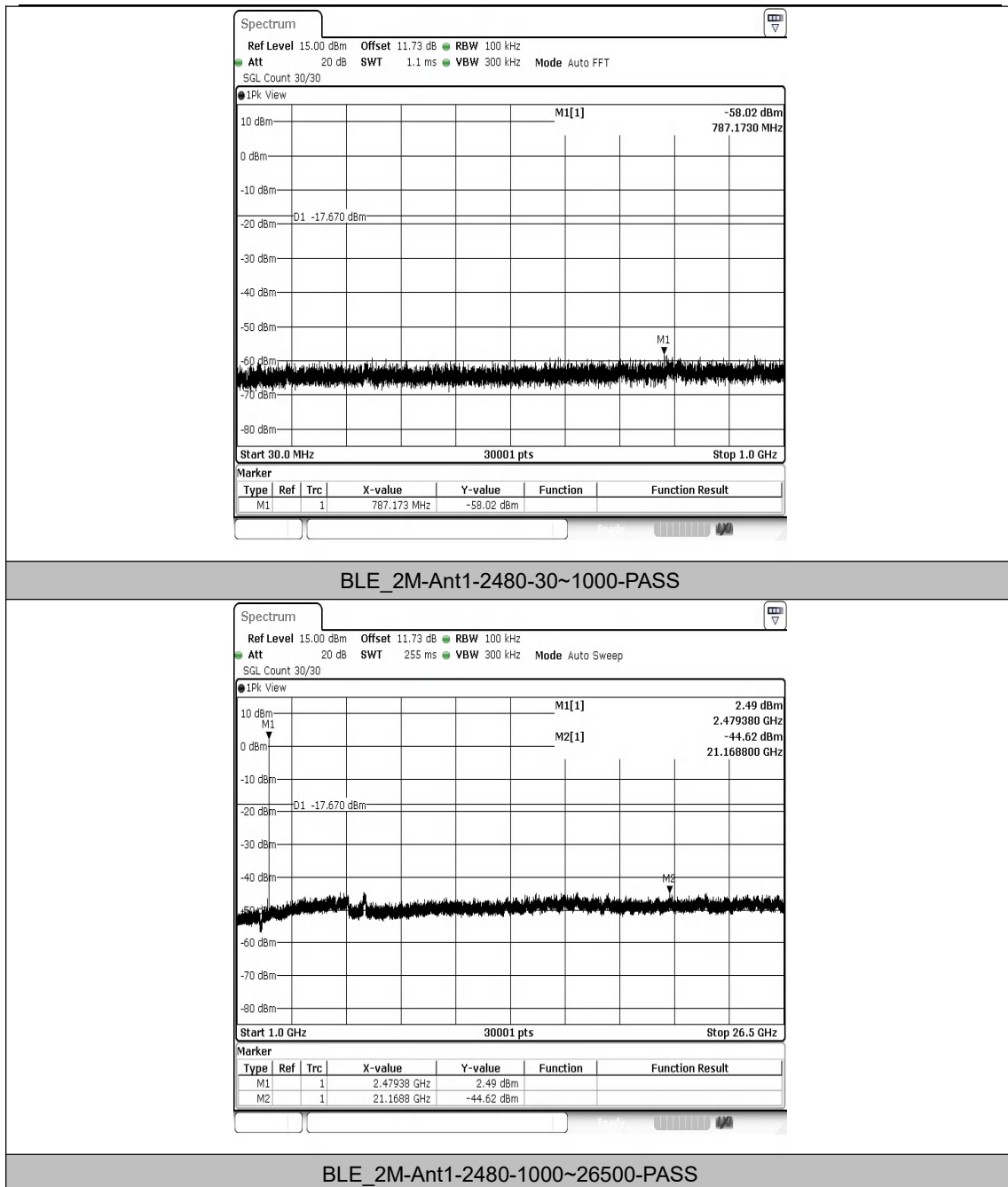












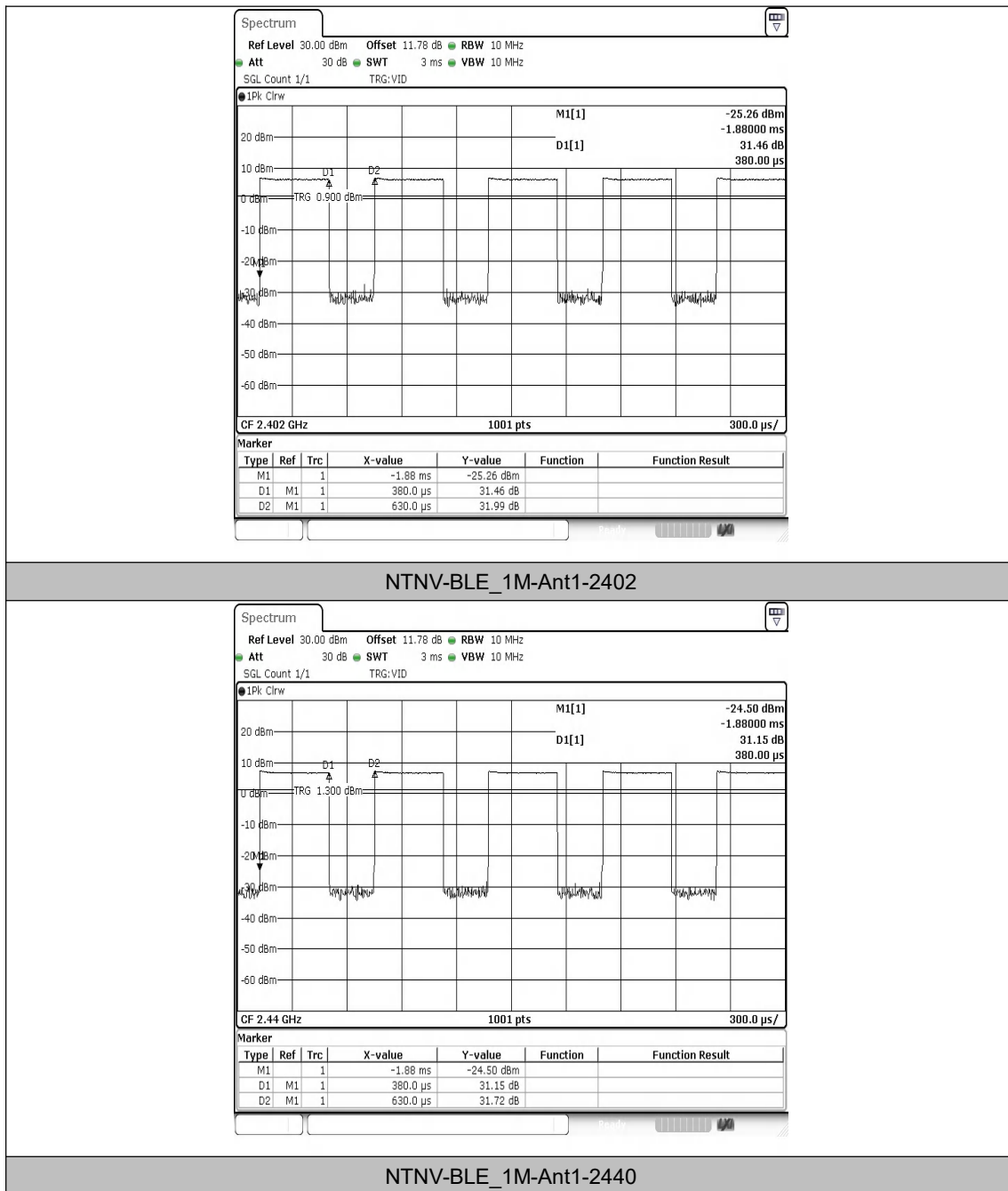
## Appendix G: Duty Cycle

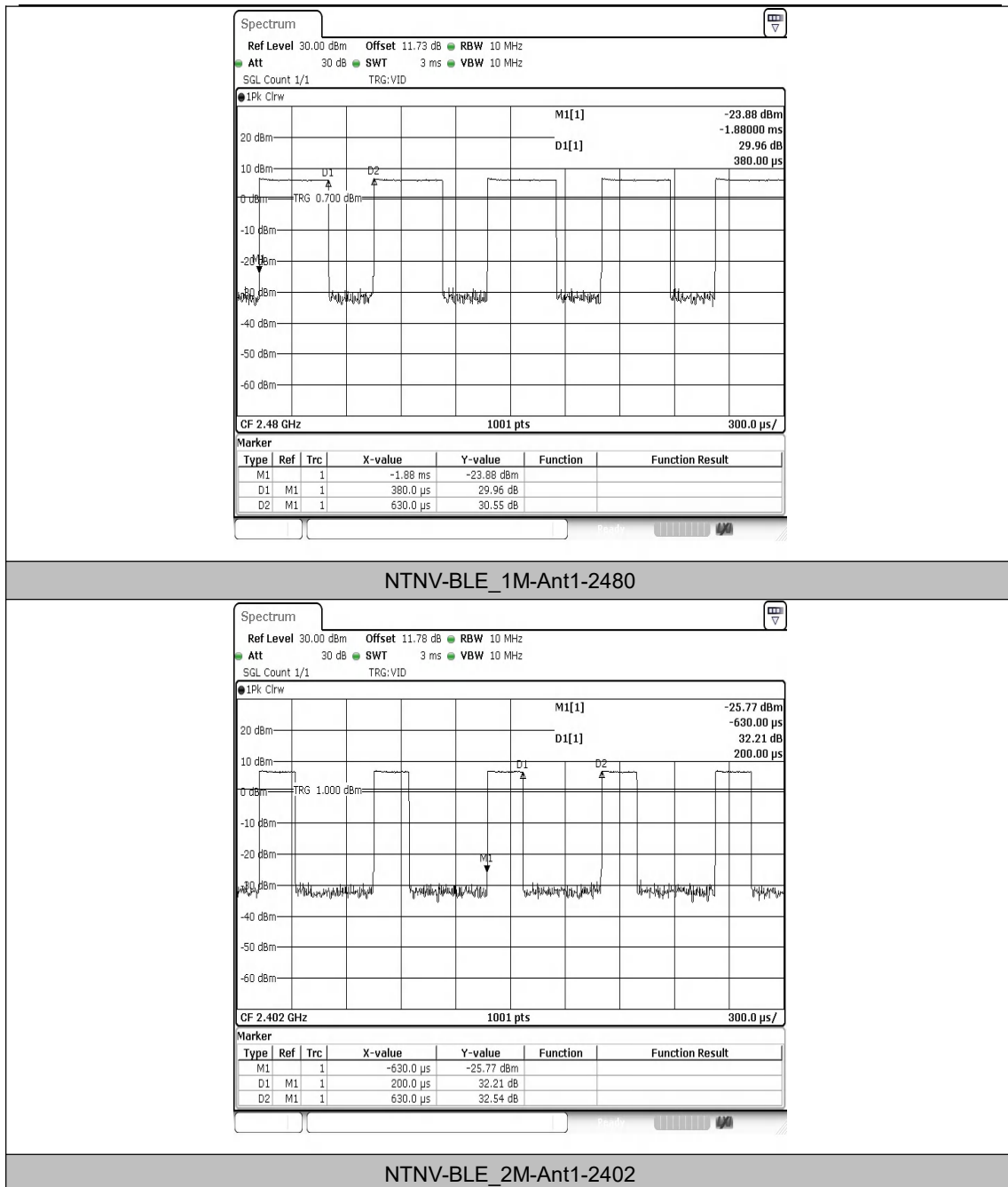
### Test Result

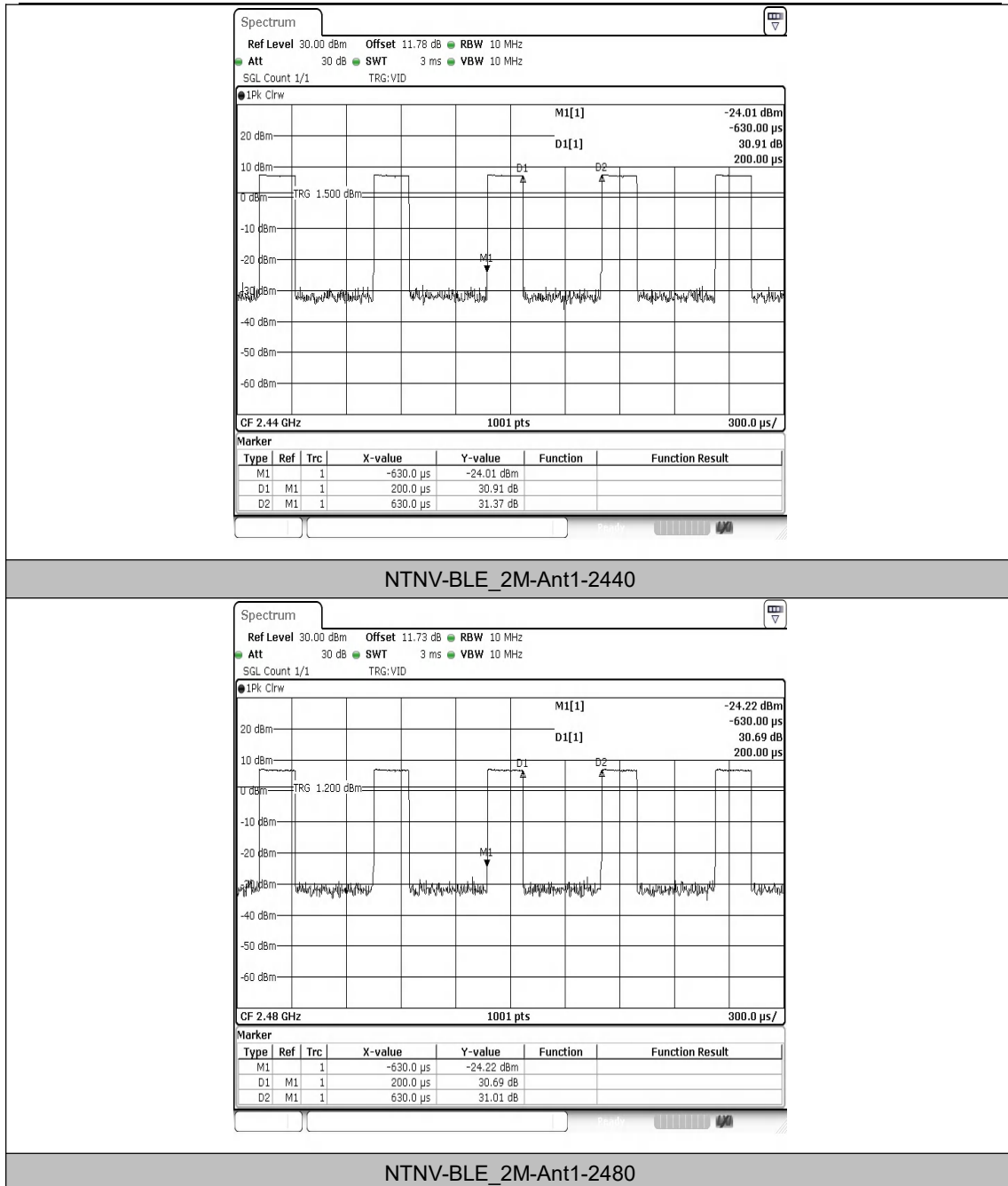
| Test Mode | Antenna | Frequency [MHz] | ON Time [ms] | Period [ms] | Duty Cycle [%] | Duty Cycle Factor[dB] |
|-----------|---------|-----------------|--------------|-------------|----------------|-----------------------|
| BLE_1M    | Ant1    | 2402            | 0.38         | 0.63        | 60.32          | 2.20                  |
| BLE_1M    | Ant1    | 2440            | 0.38         | 0.63        | 60.32          | 2.20                  |
| BLE_1M    | Ant1    | 2480            | 0.38         | 0.63        | 60.32          | 2.20                  |
| BLE_2M    | Ant1    | 2402            | 0.20         | 0.63        | 31.75          | 4.98                  |
| BLE_2M    | Ant1    | 2440            | 0.20         | 0.63        | 31.75          | 4.98                  |
| BLE_2M    | Ant1    | 2480            | 0.20         | 0.63        | 31.75          | 4.98                  |



## Test Graphs







---End---