

## Appendix: Bluetooth LE

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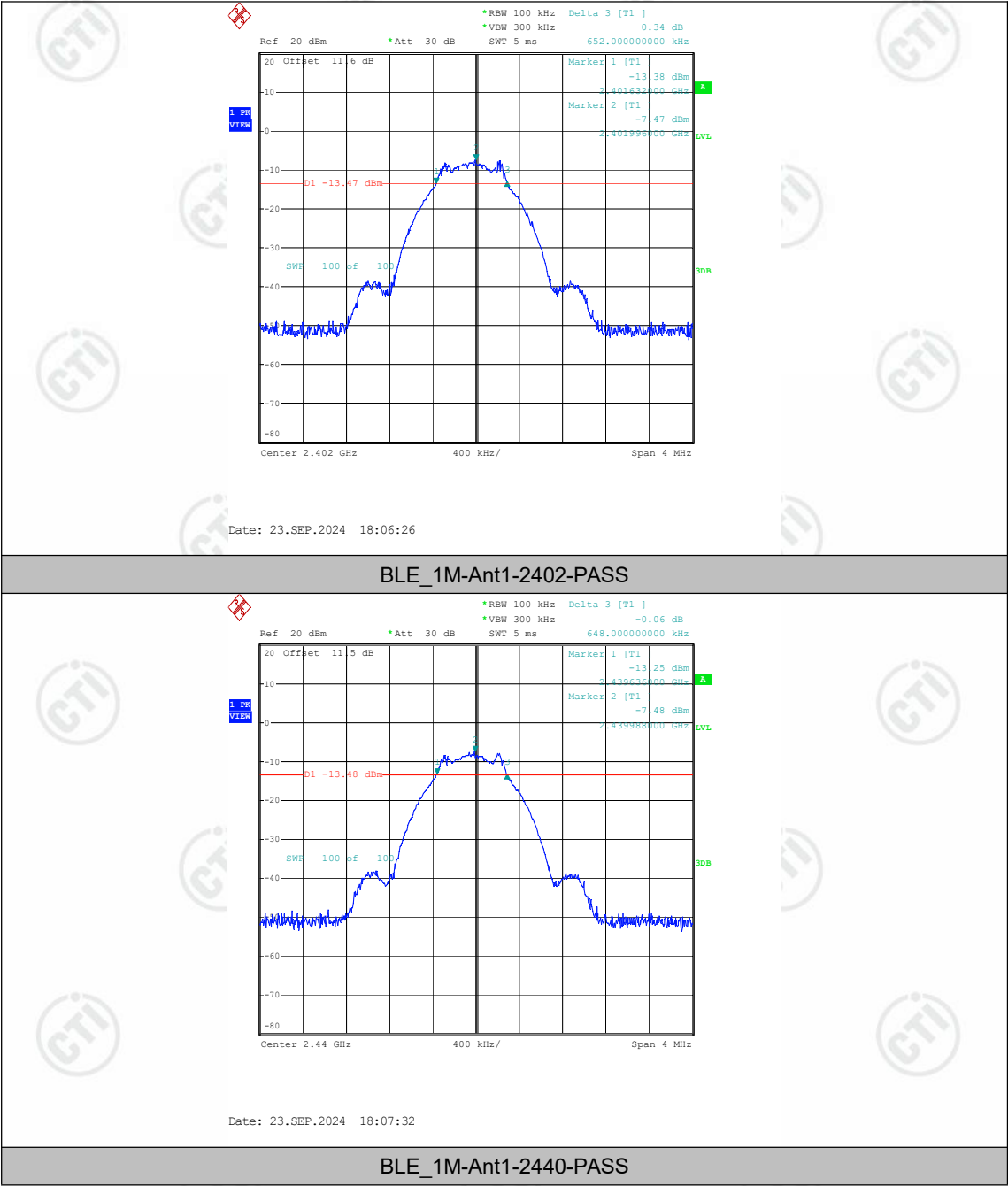
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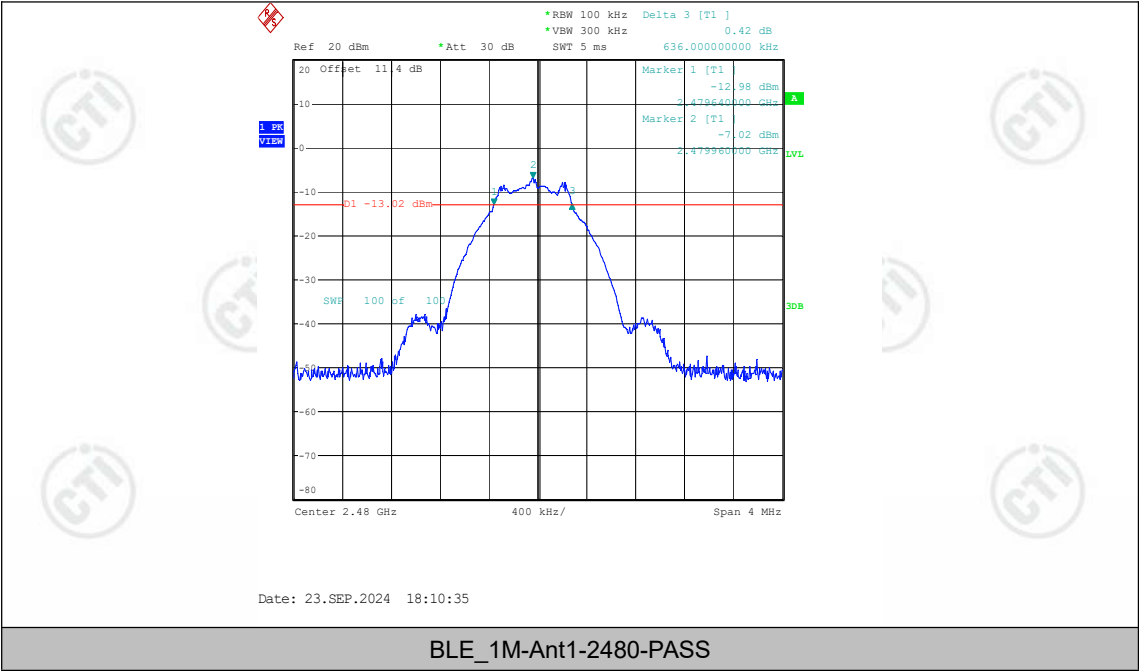
Appendix A: DTS Bandwidth

Test Result

| TestMode | Antenna | Frequency[MHz] | DTS BW [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|----------|---------|----------------|--------------|---------|---------|------------|---------|
| BLE_1M   | Ant1    | 2402           | 0.65         | 2401.63 | 2402.28 | 0.5        | PASS    |
| BLE_1M   | Ant1    | 2440           | 0.65         | 2439.64 | 2440.28 | 0.5        | PASS    |
| BLE_1M   | Ant1    | 2480           | 0.64         | 2479.64 | 2480.28 | 0.5        | PASS    |

Test Graphs



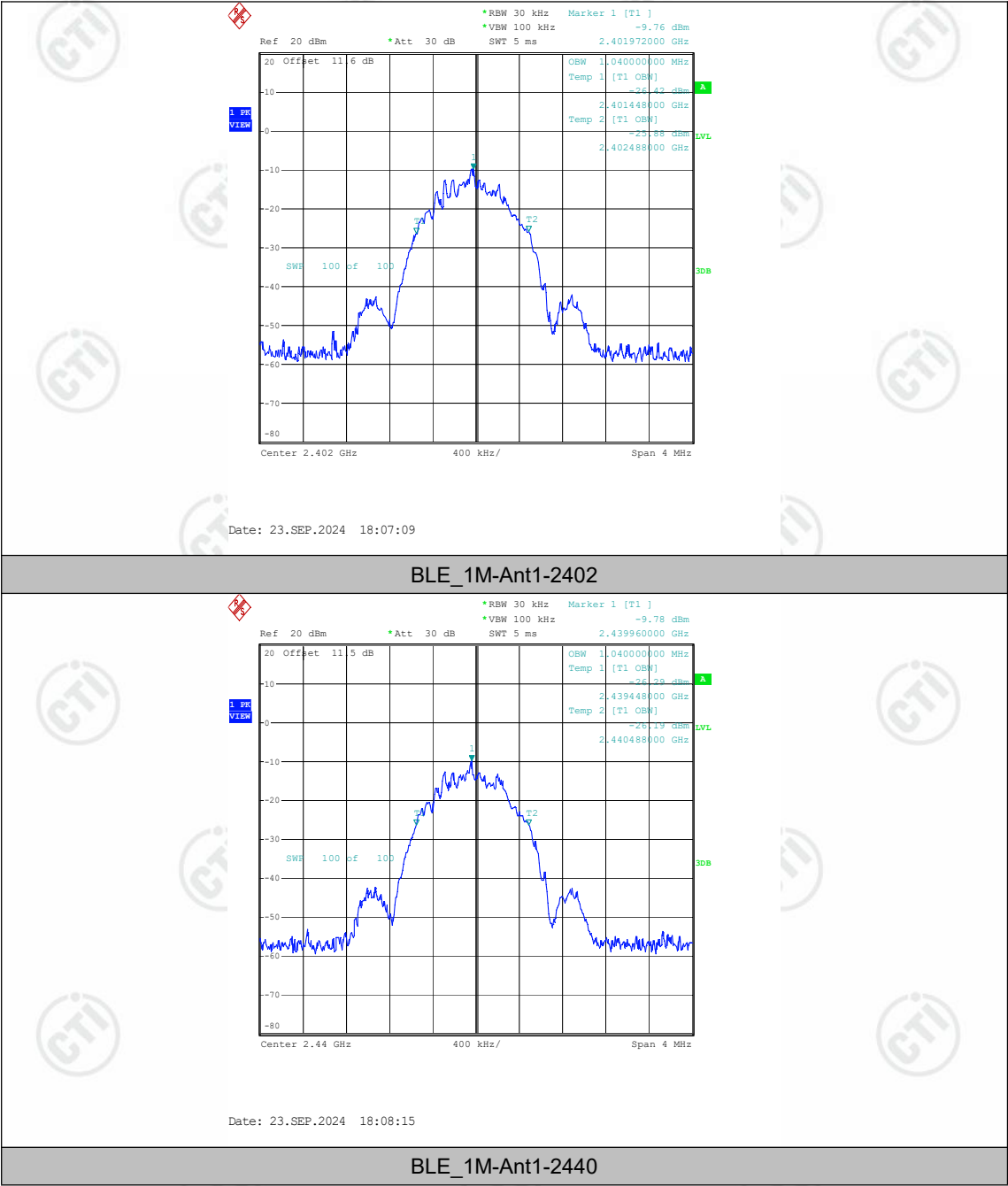


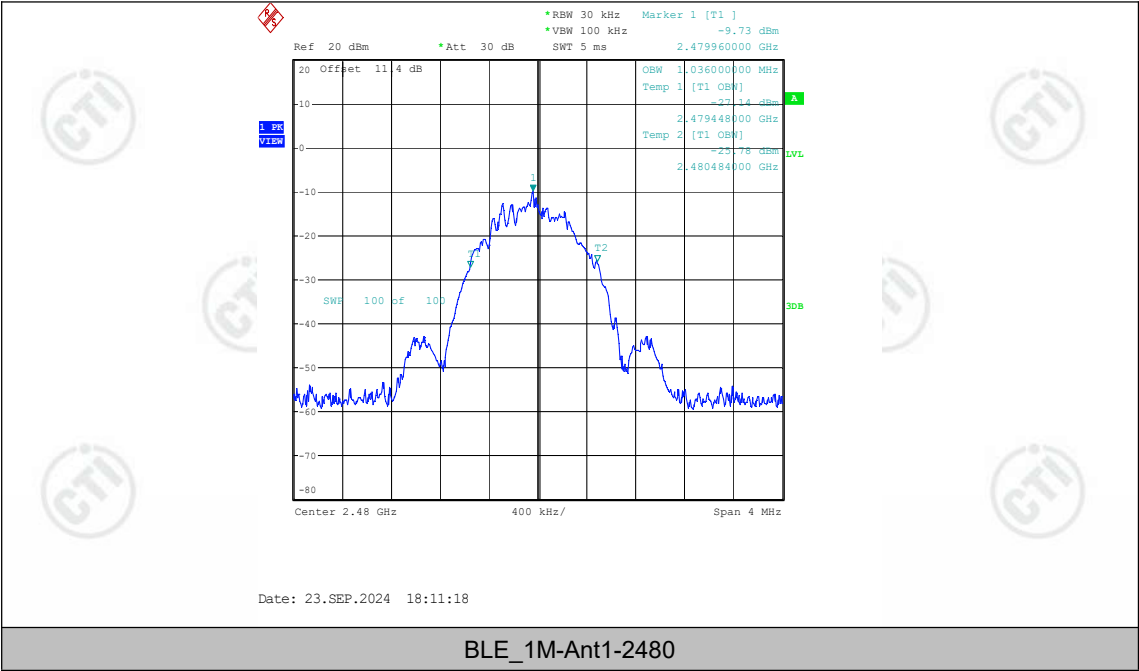
Appendix B: Occupied Channel Bandwidth

Test Result

| TestMode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|----------|---------|----------------|-----------|---------|---------|------------|---------|
| BLE_1M   | Ant1    | 2402           | 1.04      | 0.0000  | 0.0000  | ---        | ---     |
| BLE_1M   | Ant1    | 2440           | 1.04      | 0.0000  | 0.0000  | ---        | ---     |
| BLE_1M   | Ant1    | 2480           | 1.036     | 0.0000  | 0.0000  | ---        | ---     |

Test Graphs



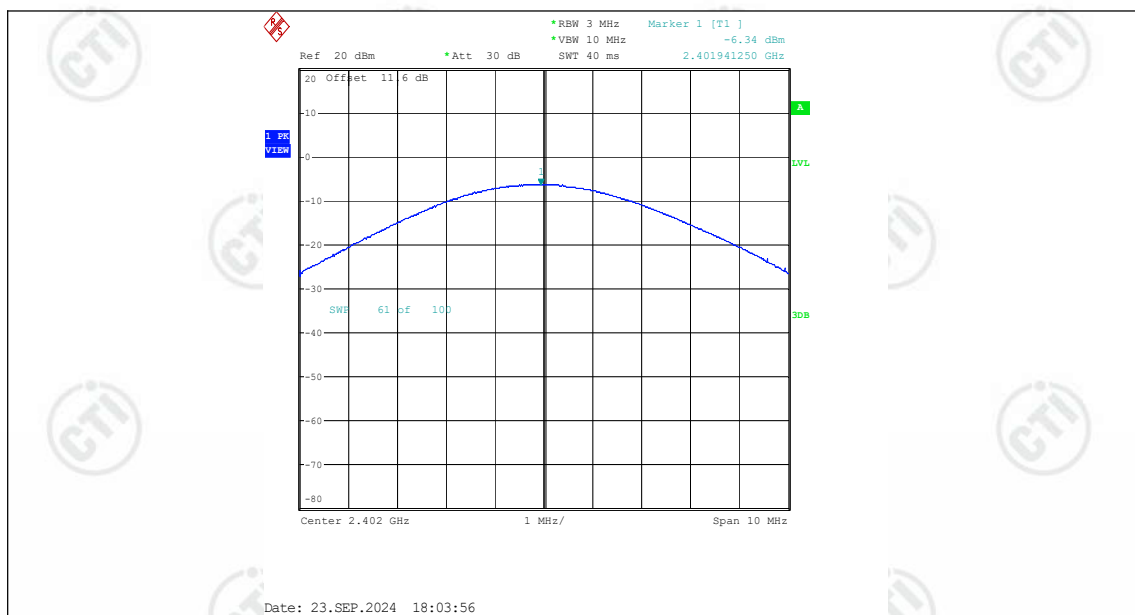


Appendix C: Maximum conducted output power

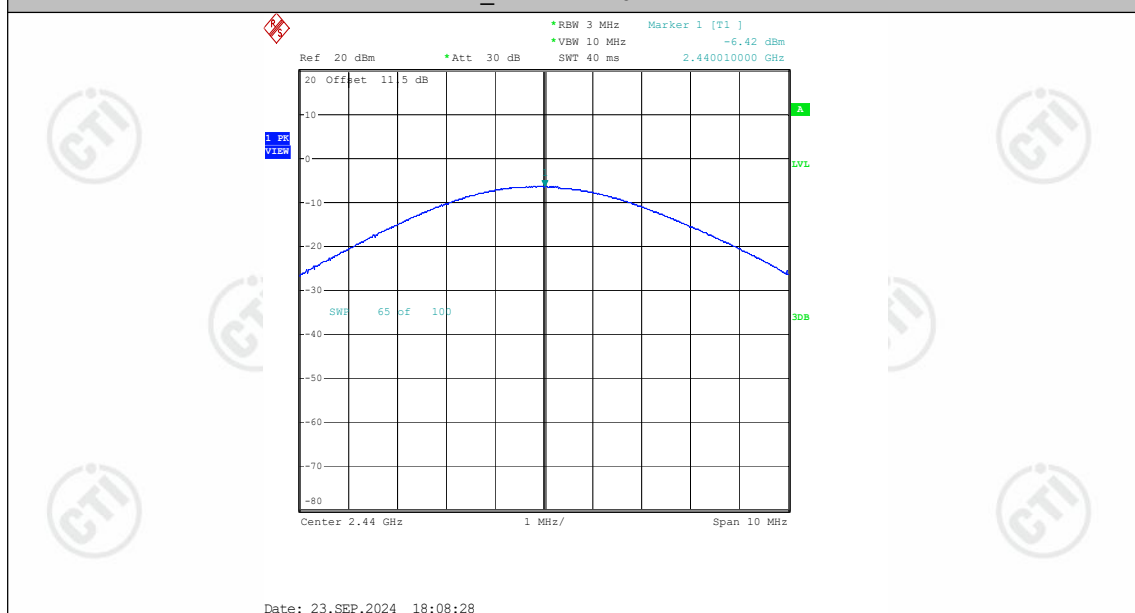
Test Result Peak

| TestMode | Antenna | Frequency[MHz] | Conducted Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|----------|---------|----------------|---------------------------|----------------------|---------|
| BLE_1M   | Ant1    | 2402           | -6.34                     | ≤30                  | PASS    |
| BLE_1M   | Ant1    | 2440           | -6.42                     | ≤30                  | PASS    |
| BLE_1M   | Ant1    | 2480           | -6.41                     | ≤30                  | PASS    |

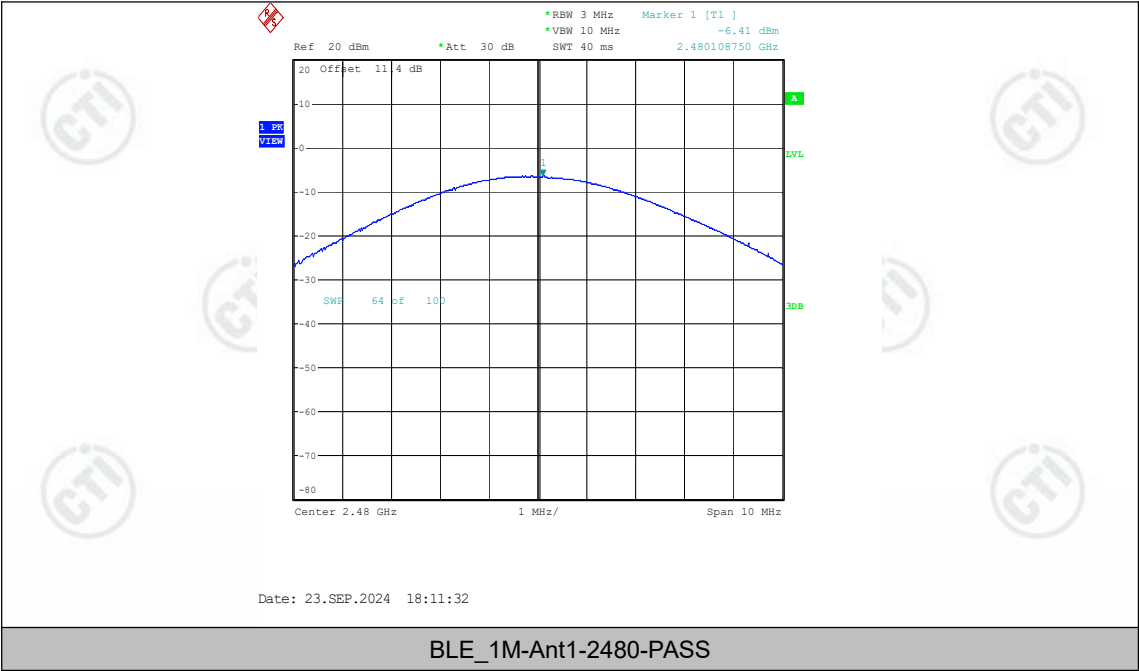
## Test Graphs Peak



BLE\_1M-Ant1-2402-PASS



BLE\_1M-Ant1-2440-PASS

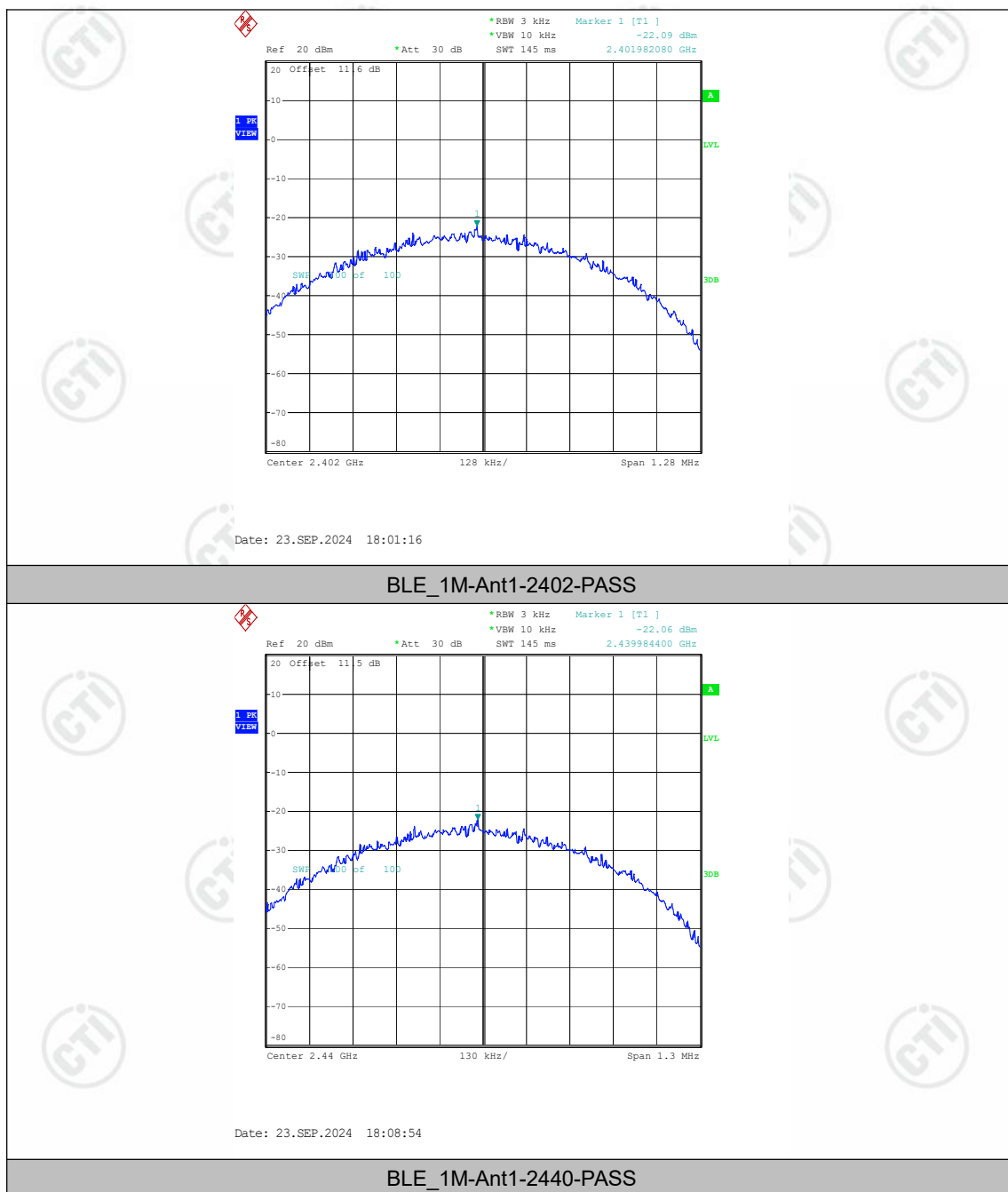


Appendix D: Maximum power spectral density

Test Result

| TestMode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|----------------|------------------|-----------------|---------|
| BLE_1M   | Ant1    | 2402           | -22.09           | ≤8.00           | PASS    |
| BLE_1M   | Ant1    | 2440           | -22.06           | ≤8.00           | PASS    |
| BLE_1M   | Ant1    | 2480           | -22.12           | ≤8.00           | PASS    |

## Test Graphs



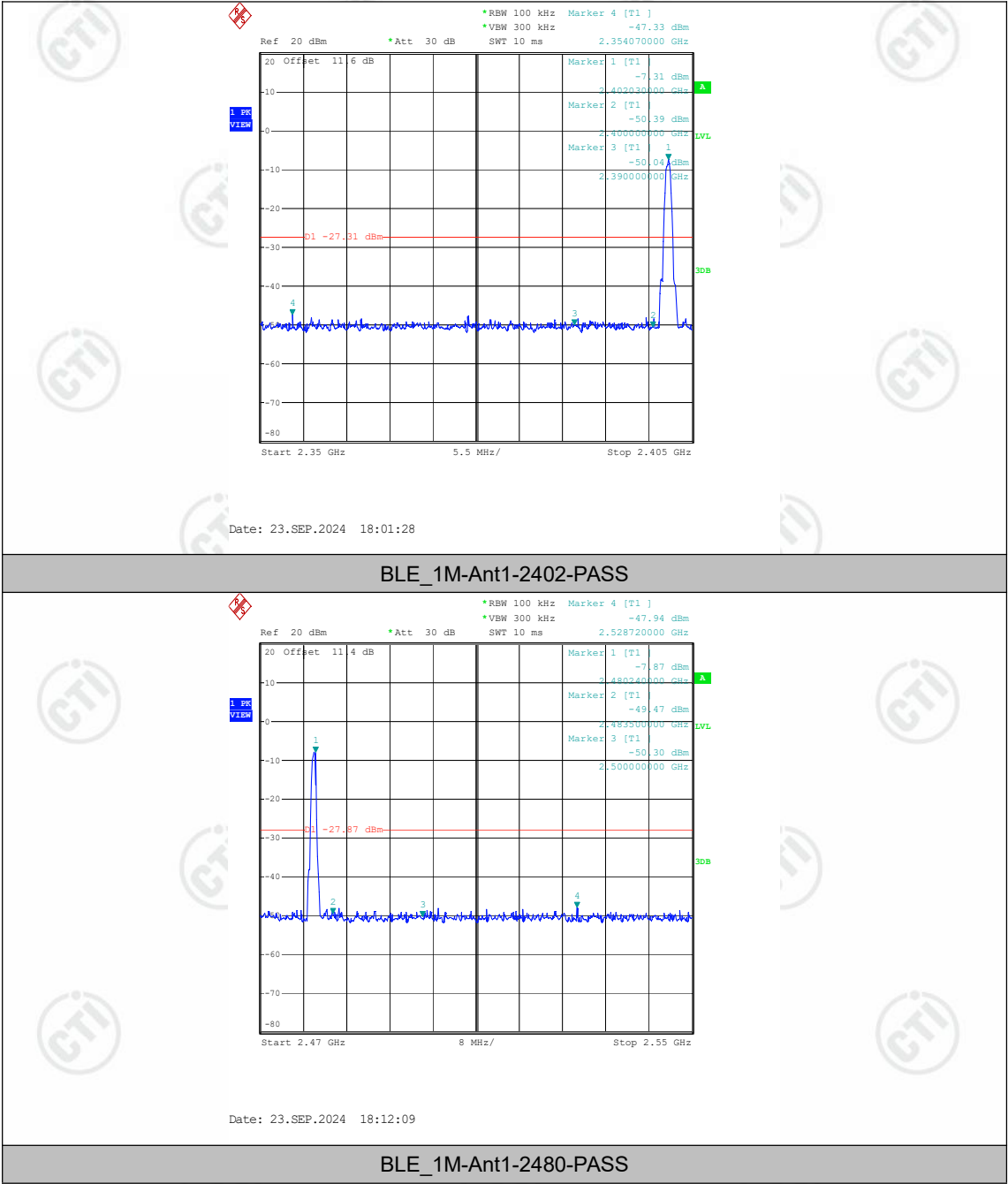


Appendix E: Band edge measurements

Test Result

| TestMode | Antenna | ChName | Frequency[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|--------|----------------|---------------|-------------|------------|---------|
| BLE_1M   | Ant1    | Low    | 2402           | -7.31         | -47.33      | ≤-27.31    | PASS    |
| BLE_1M   | Ant1    | High   | 2480           | -7.87         | -47.94      | ≤-27.87    | PASS    |

Test Graphs

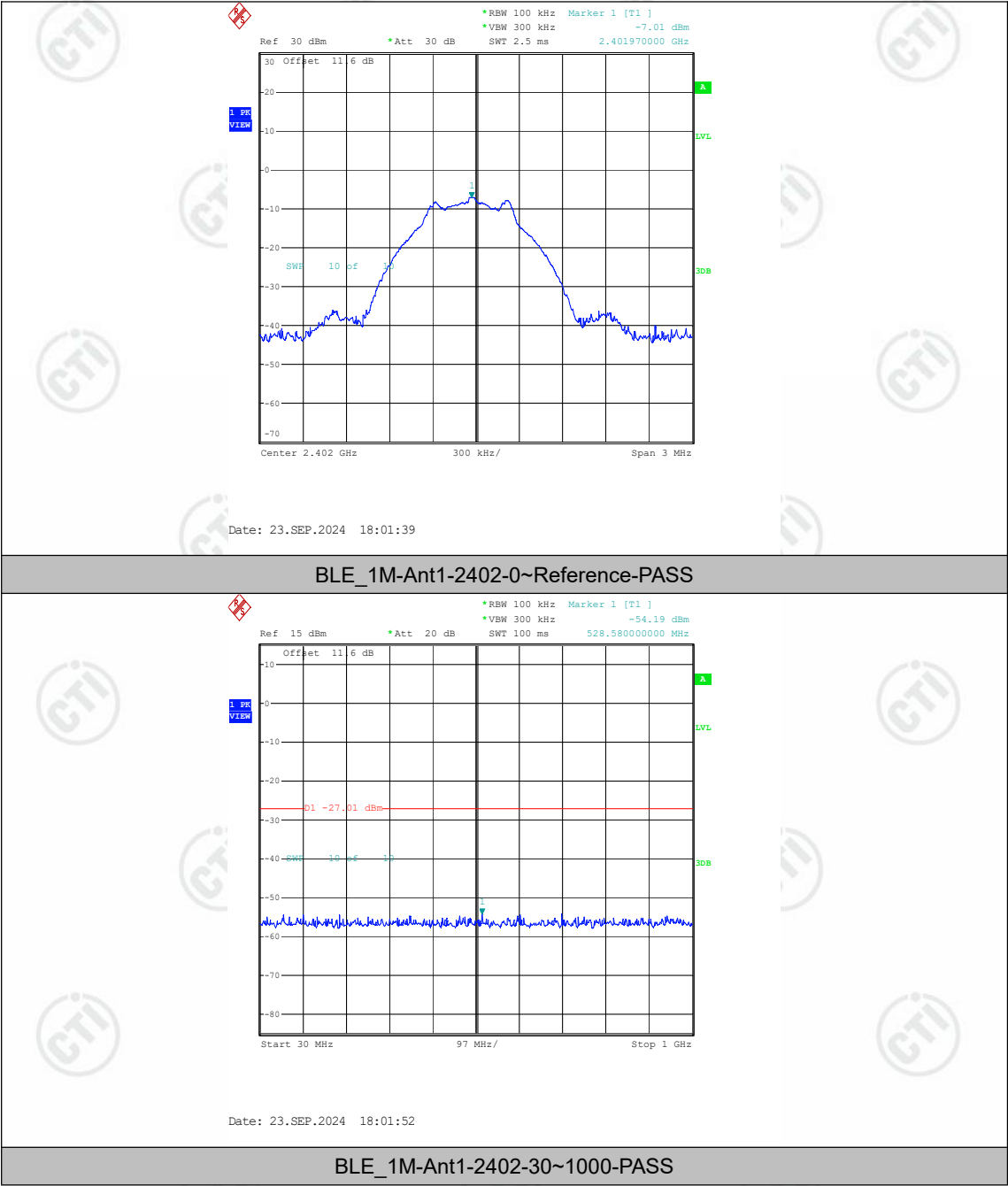


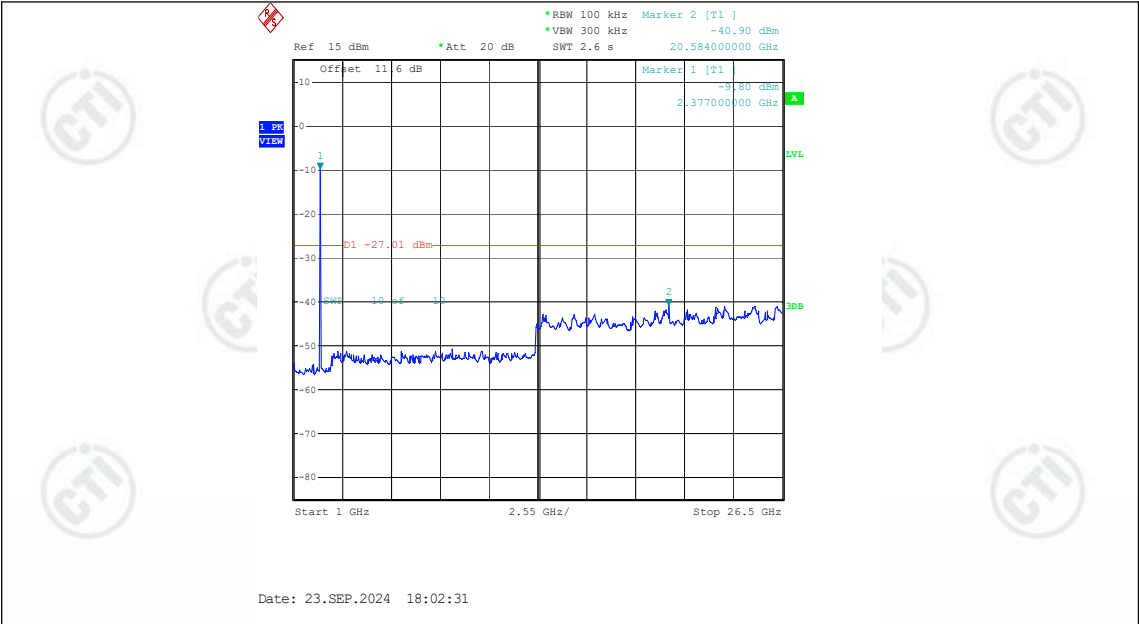
Appendix F: Conducted Spurious Emission

Test Result

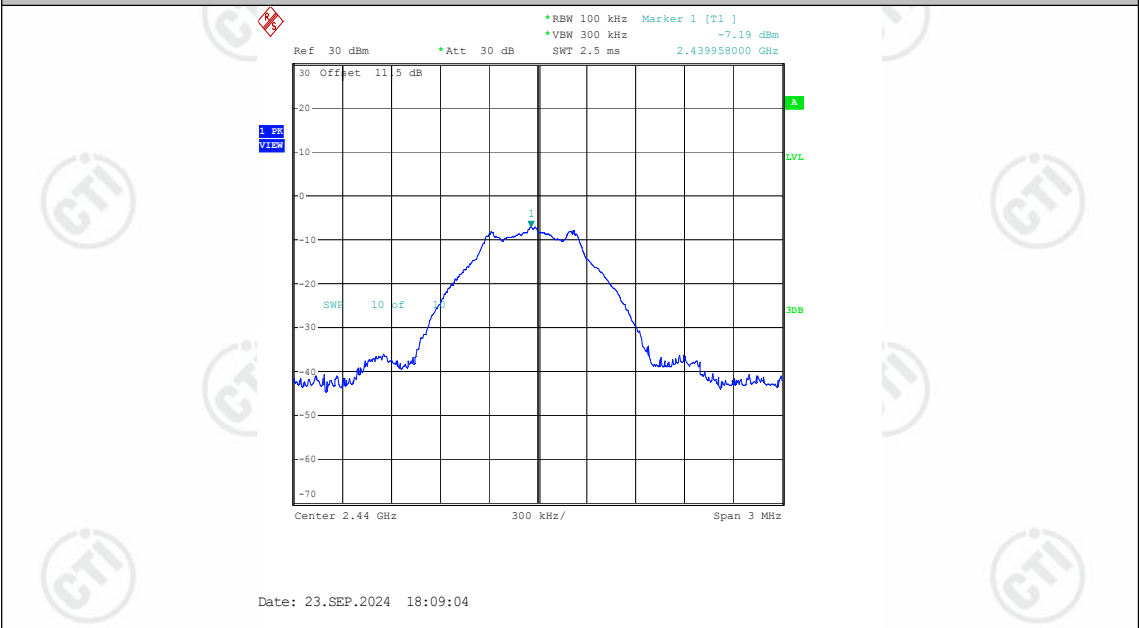
| TestMode | Antenna | Frequency [MHz] | FreqRange [MHz] | RefLevel [dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|-----------------|-----------------|----------------|-------------|------------|---------|
| BLE_1M   | Ant1    | 2402            | 0~Reference     | -7.01          | -7.01       | ---        | PASS    |
| BLE_1M   | Ant1    | 2402            | 30~1000         | -7.01          | -54.19      | ≤-27.01    | PASS    |
| BLE_1M   | Ant1    | 2402            | 1000~26500      | -7.01          | -40.9       | ≤-27.01    | PASS    |
| BLE_1M   | Ant1    | 2440            | 0~Reference     | -7.19          | -7.19       | ---        | PASS    |
| BLE_1M   | Ant1    | 2440            | 30~1000         | -7.19          | -53.32      | ≤-27.19    | PASS    |
| BLE_1M   | Ant1    | 2440            | 1000~26500      | -7.19          | -40.86      | ≤-27.19    | PASS    |
| BLE_1M   | Ant1    | 2480            | 0~Reference     | -7.23          | -7.23       | ---        | PASS    |
| BLE_1M   | Ant1    | 2480            | 30~1000         | -7.23          | -53.61      | ≤-27.23    | PASS    |
| BLE_1M   | Ant1    | 2480            | 1000~26500      | -7.23          | -40.58      | ≤-27.23    | PASS    |

Test Graphs

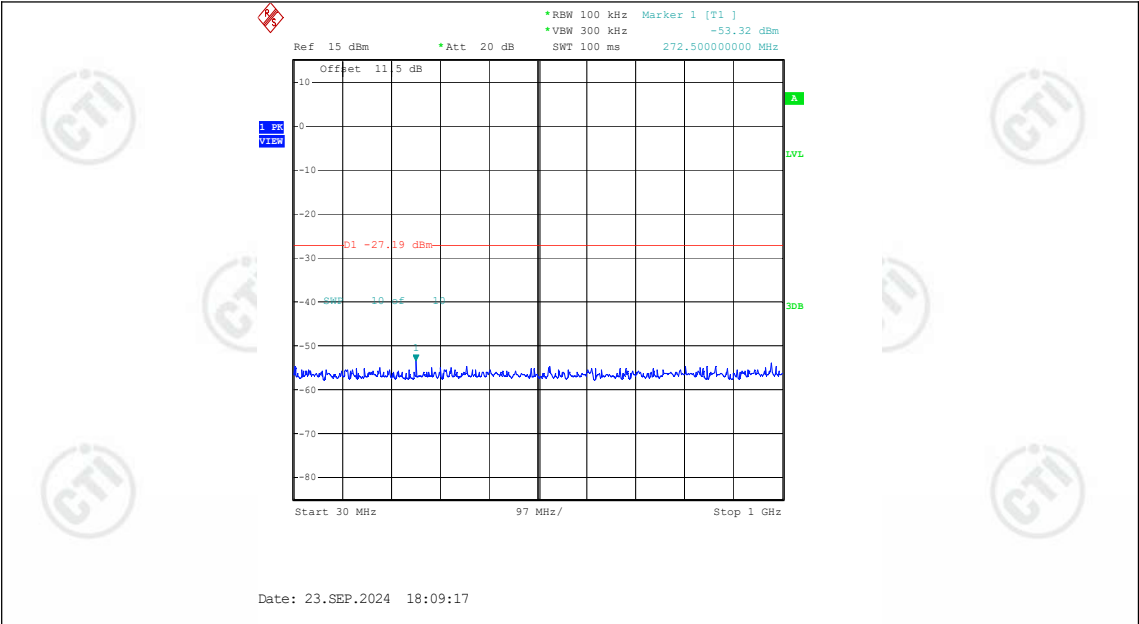




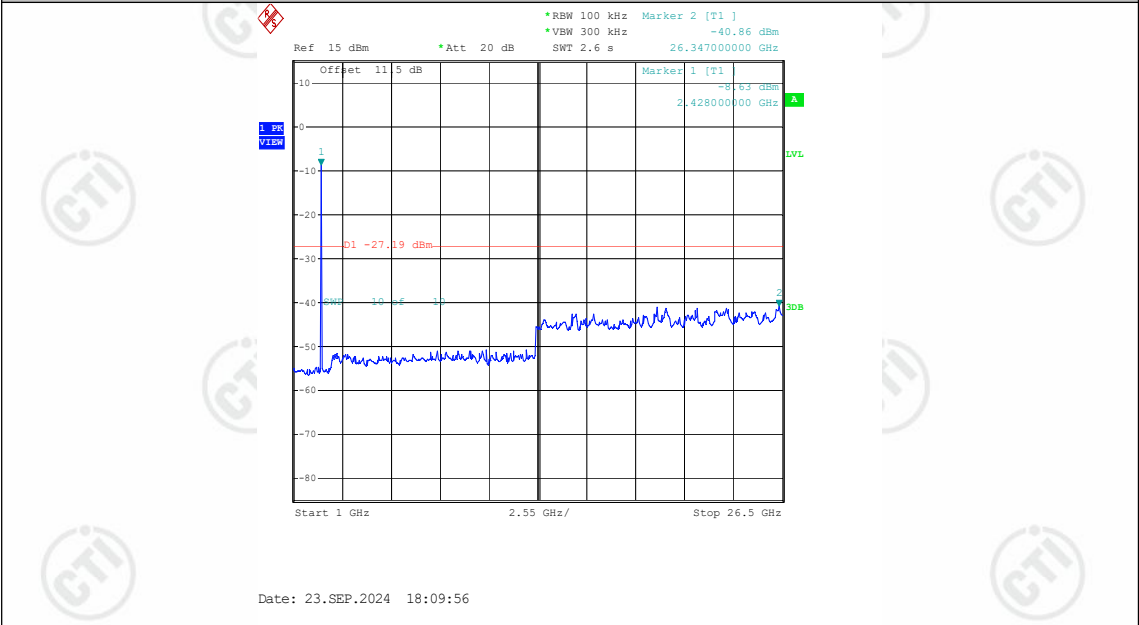
BLE\_1M-Ant1-2402-1000~26500-PASS



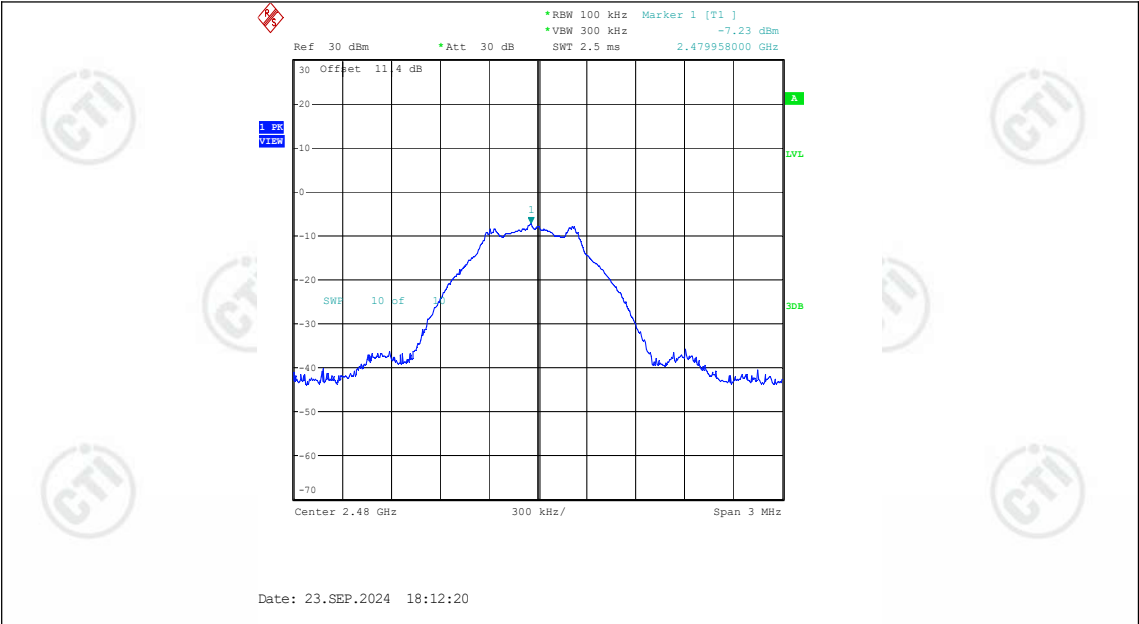
BLE\_1M-Ant1-2440-0~Reference-PASS



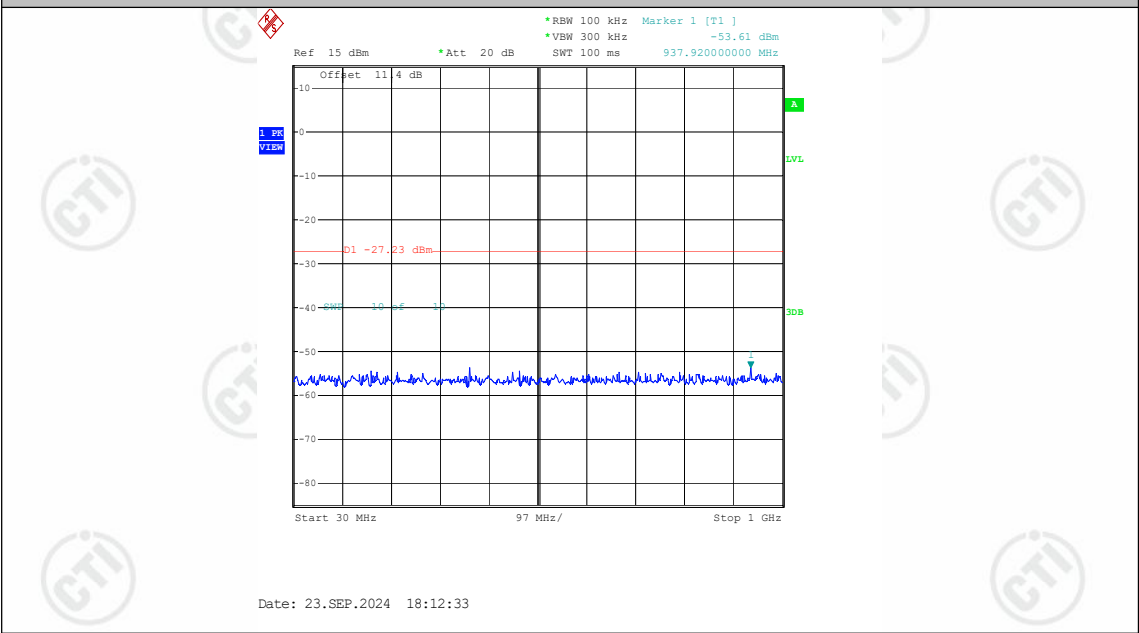
BLE\_1M-Ant1-2440-30~1000-PASS



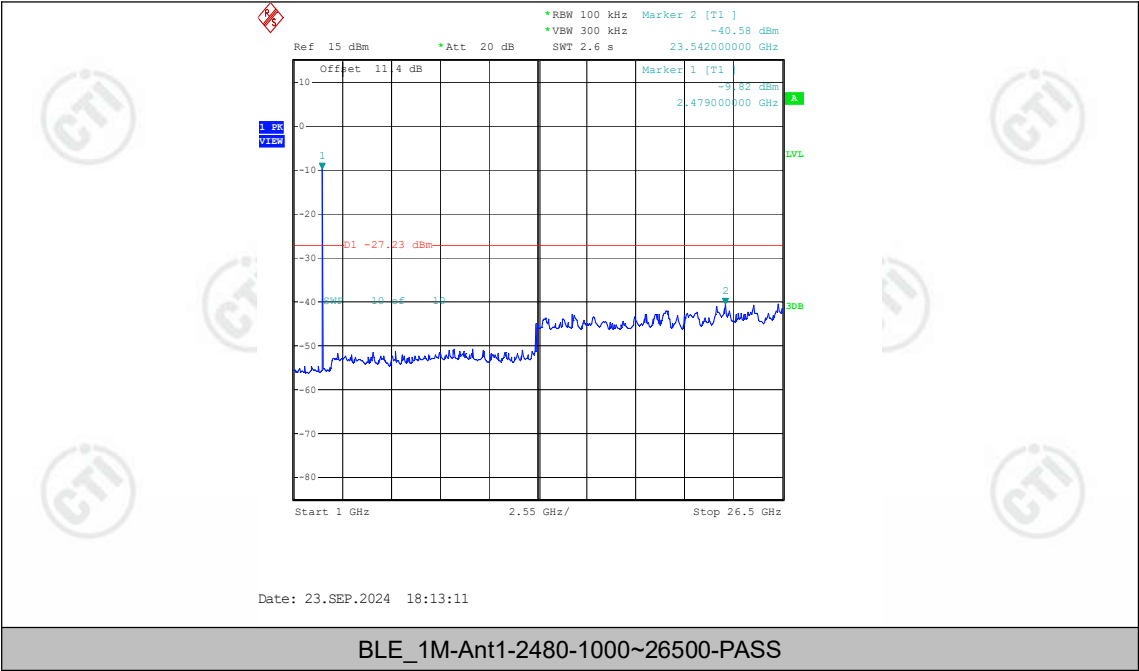
BLE\_1M-Ant1-2440-1000~26500-PASS



BLE\_1M-Ant1-2480-0~Reference-PASS



BLE\_1M-Ant1-2480-30~1000-PASS



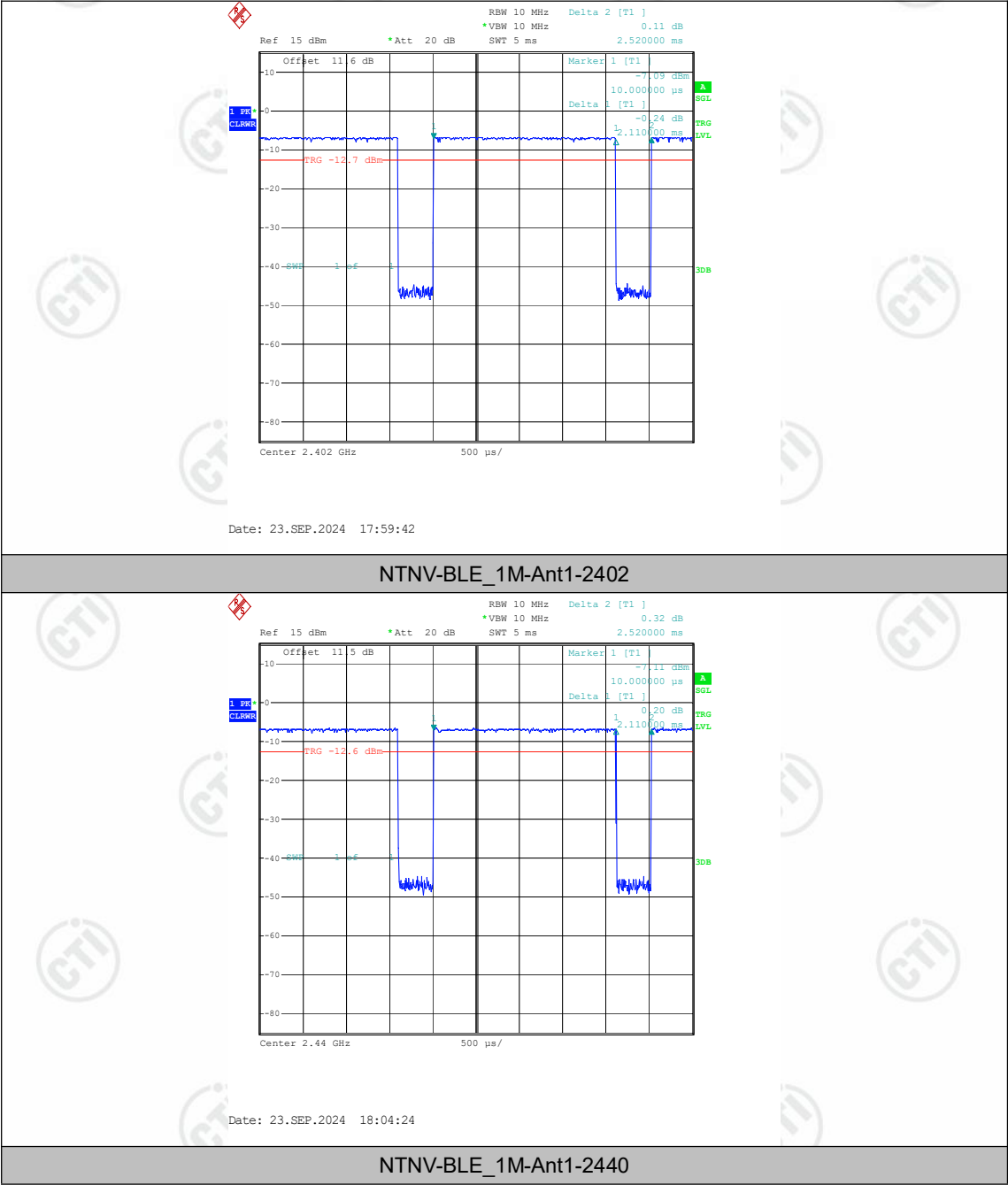
Appendix G: Duty Cycle

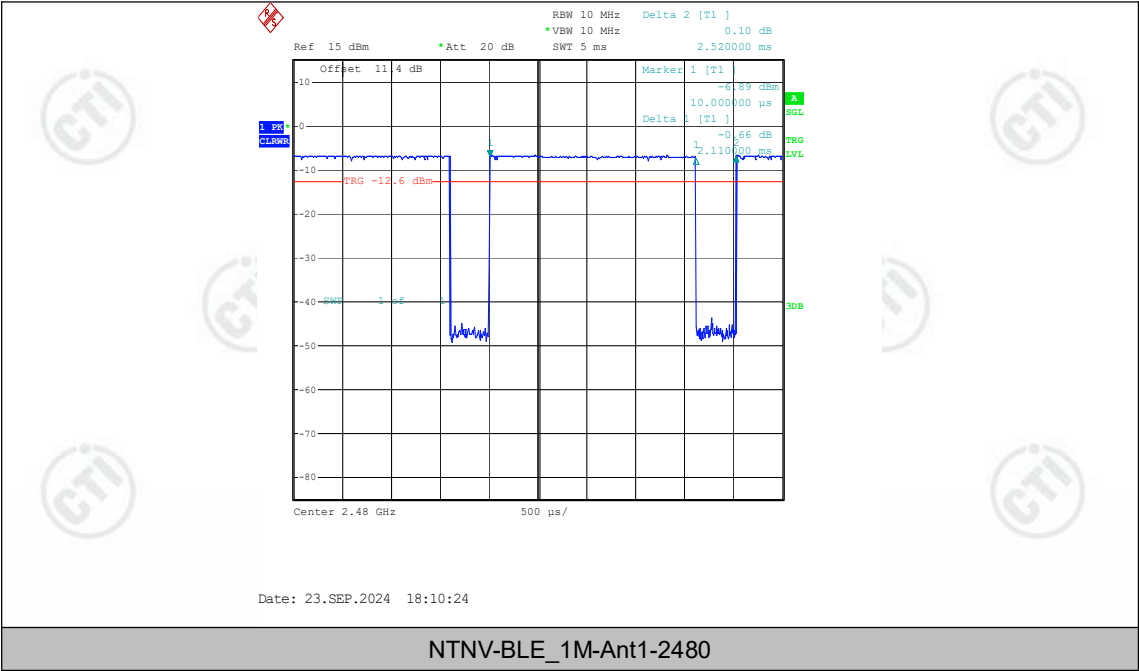
Test Result

| TestMode | Antenna | Frequency[MHz] | ON Time [ms] | Period [ms] | Duty Cycle [%] | Duty Cycle Factor[dB] |
|----------|---------|----------------|--------------|-------------|----------------|-----------------------|
| BLE_1M   | Ant1    | 2402           | 2.11         | 2.52        | 83.73          | 0.77                  |
| BLE_1M   | Ant1    | 2440           | 2.11         | 2.52        | 83.73          | 0.77                  |
| BLE_1M   | Ant1    | 2480           | 2.11         | 2.52        | 83.73          | 0.77                  |

Note:Duty Cycle Factor[dB]=-10\*Ig(Duty Cycle);

Test Graphs





\*\*\*END OF REPORT\*\*\*