

## Appendix: Bluetooth LE

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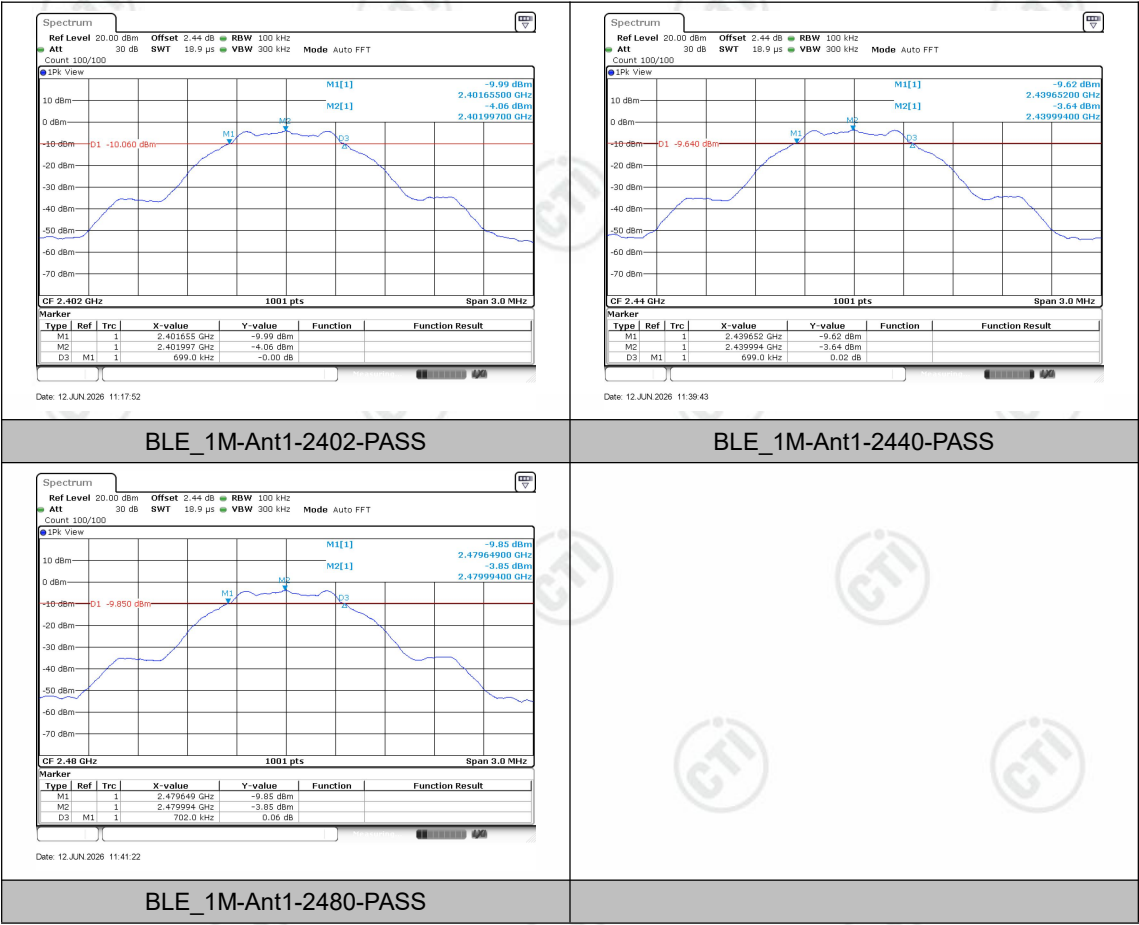
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Appendix A: DTS Bandwidth

Test Result

| TestMode | Antenna | Frequency[MHz] | DTS BW [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|----------|---------|----------------|--------------|---------|---------|------------|---------|
| BLE_1M   | Ant1    | 2402           | 0.70         | 2401.66 | 2402.35 | 0.5        | PASS    |
| BLE_1M   | Ant1    | 2440           | 0.70         | 2439.65 | 2440.35 | 0.5        | PASS    |
| BLE_1M   | Ant1    | 2480           | 0.70         | 2479.65 | 2480.35 | 0.5        | PASS    |

Test Graphs

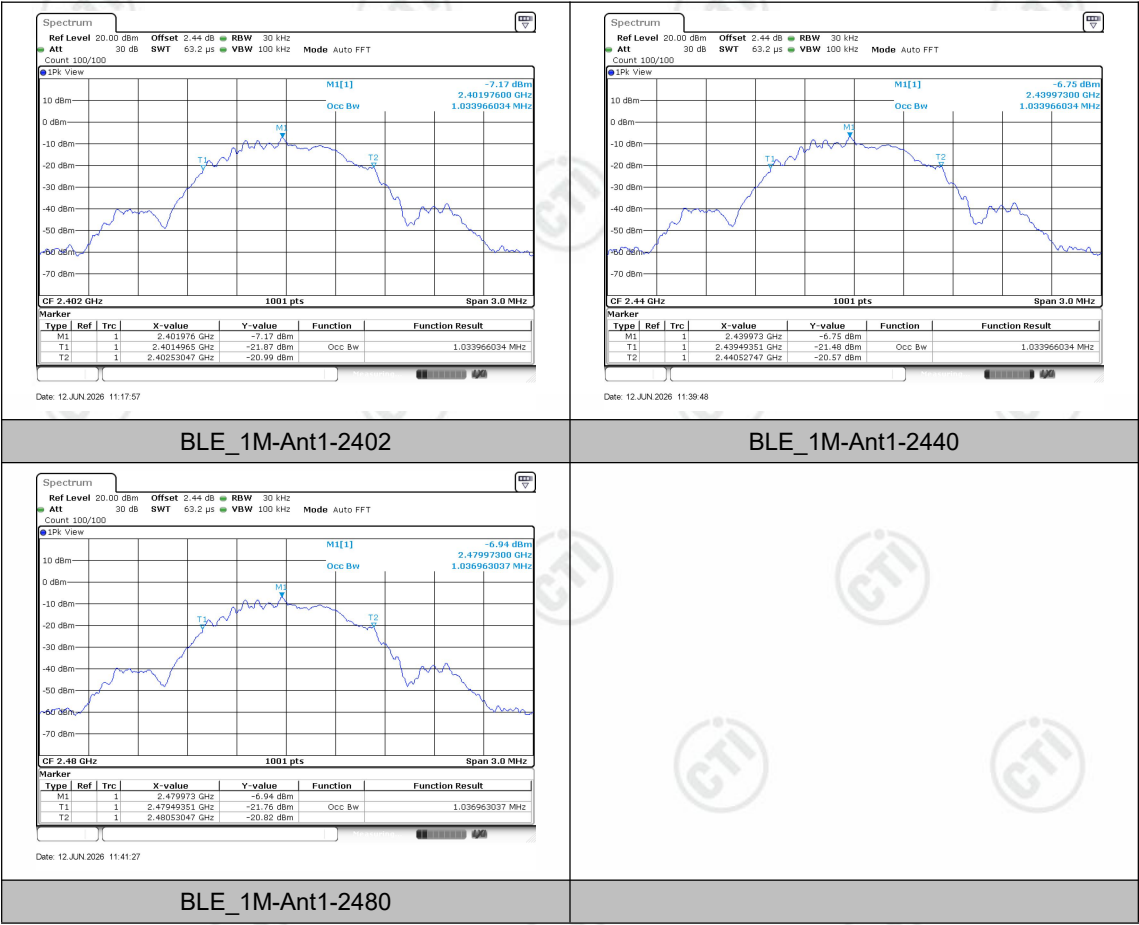


Appendix B: Occupied Channel Bandwidth

Test Result

| TestMode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|----------|---------|----------------|-----------|-----------|-----------|------------|---------|
| BLE_1M   | Ant1    | 2402           | 1.0340    | 2401.4965 | 2402.5305 | ---        | ---     |
| BLE_1M   | Ant1    | 2440           | 1.0340    | 2439.4935 | 2440.5275 | ---        | ---     |
| BLE_1M   | Ant1    | 2480           | 1.0370    | 2479.4935 | 2480.5305 | ---        | ---     |

Test Graphs

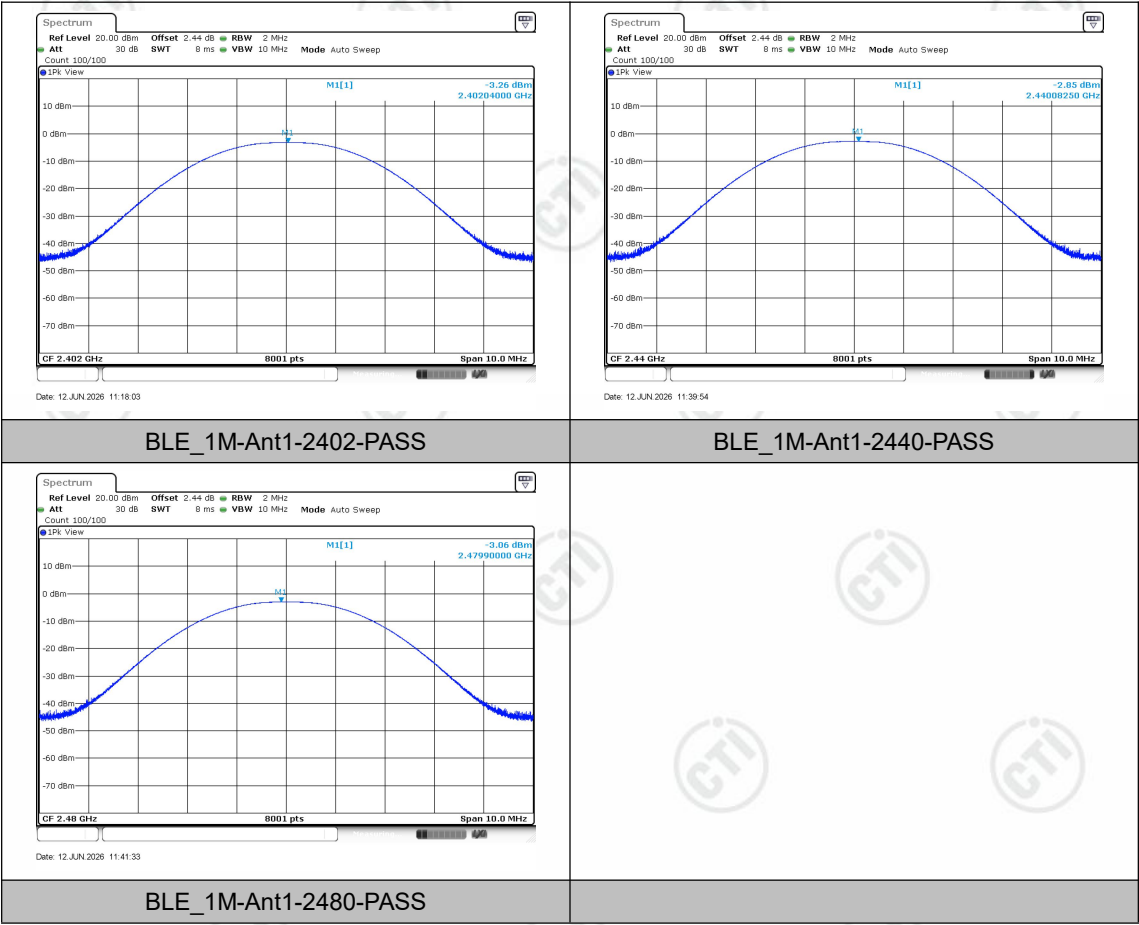


Appendix C: Maximum conducted output power

Test Result Peak

| TestMode | Antenna | Frequency[MHz] | Conducted<br>Peak<br>Power[dBm] | Conducted<br>Limit[dBm] | EIRP[dBm] | EIRP<br>Limit[dBm] | Verdict |
|----------|---------|----------------|---------------------------------|-------------------------|-----------|--------------------|---------|
| BLE_1M   | Ant1    | 2402           | -3.26                           | ≤30                     | -3.97     | ≤36                | PASS    |
| BLE_1M   | Ant1    | 2440           | -2.85                           | ≤30                     | -3.56     | ≤36                | PASS    |
| BLE_1M   | Ant1    | 2480           | -3.06                           | ≤30                     | -3.77     | ≤36                | PASS    |

Test Graphs Peak

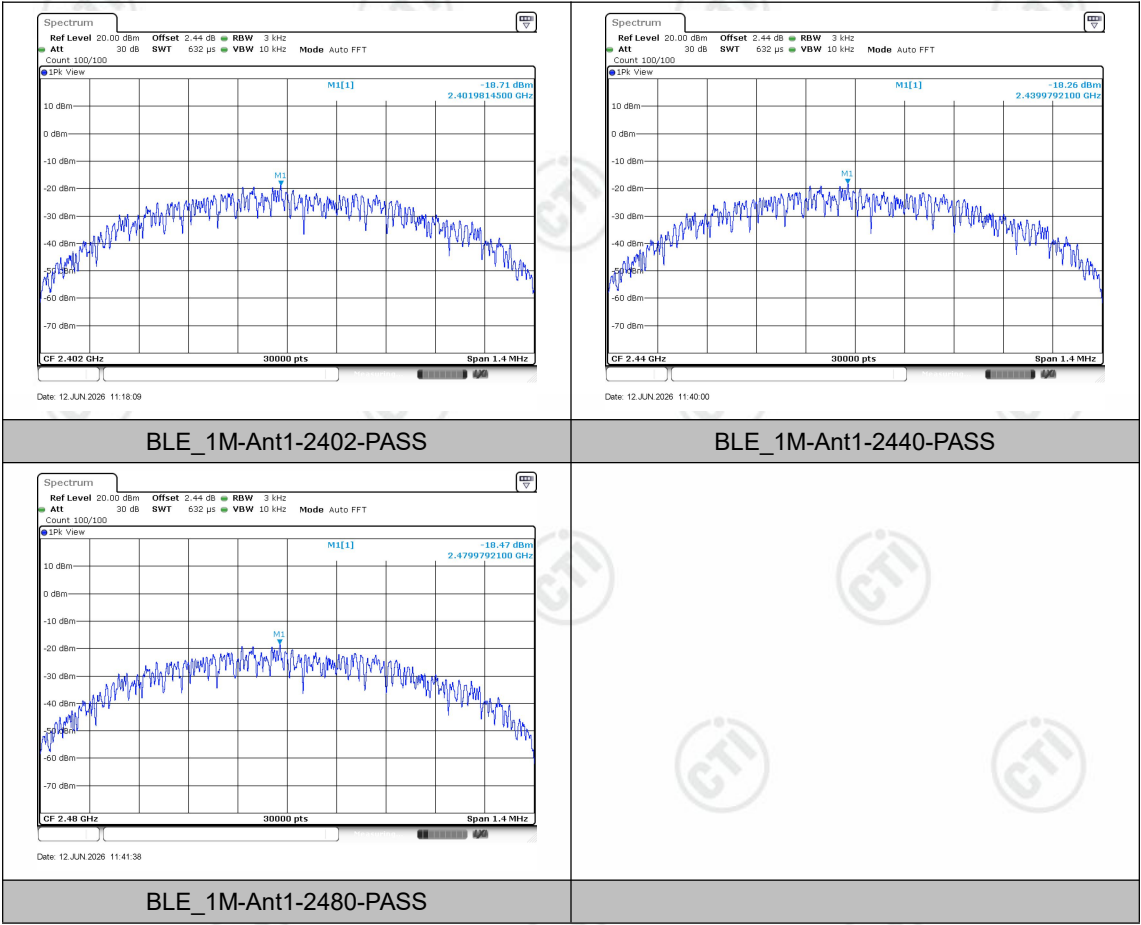


Appendix D: Maximum power spectral density

Test Result

| TestMode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|----------------|------------------|-----------------|---------|
| BLE_1M   | Ant1    | 2402           | -18.71           | ≤8.00           | PASS    |
| BLE_1M   | Ant1    | 2440           | -18.26           | ≤8.00           | PASS    |
| BLE_1M   | Ant1    | 2480           | -18.47           | ≤8.00           | PASS    |

Test Graphs

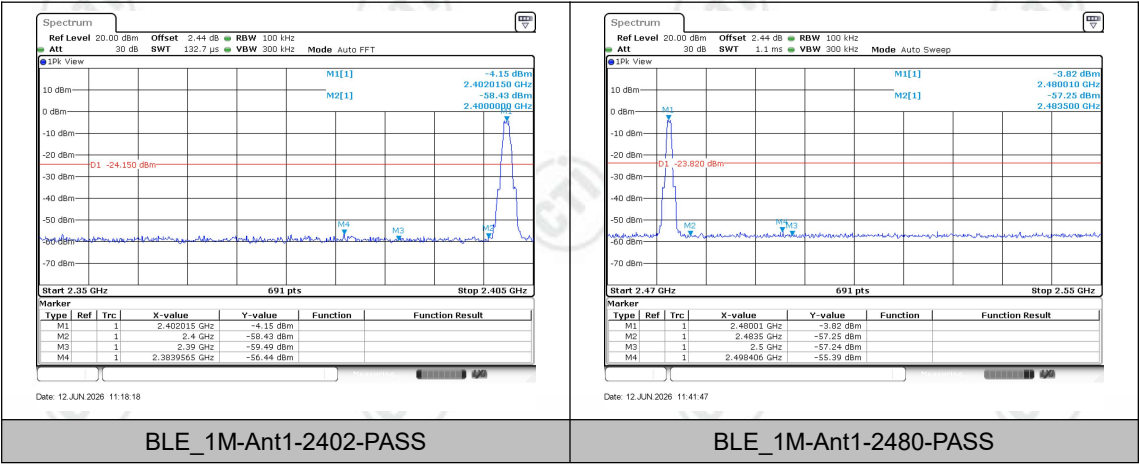


Appendix E: Band edge measurements

Test Result

| TestMode | Antenna | ChName | Frequency[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|--------|----------------|---------------|-------------|------------|---------|
| BLE_1M   | Ant1    | Low    | 2402           | -4.15         | -56.44      | ≤-24.15    | PASS    |
| BLE_1M   | Ant1    | High   | 2480           | -3.82         | -55.39      | ≤-23.82    | PASS    |

Test Graphs

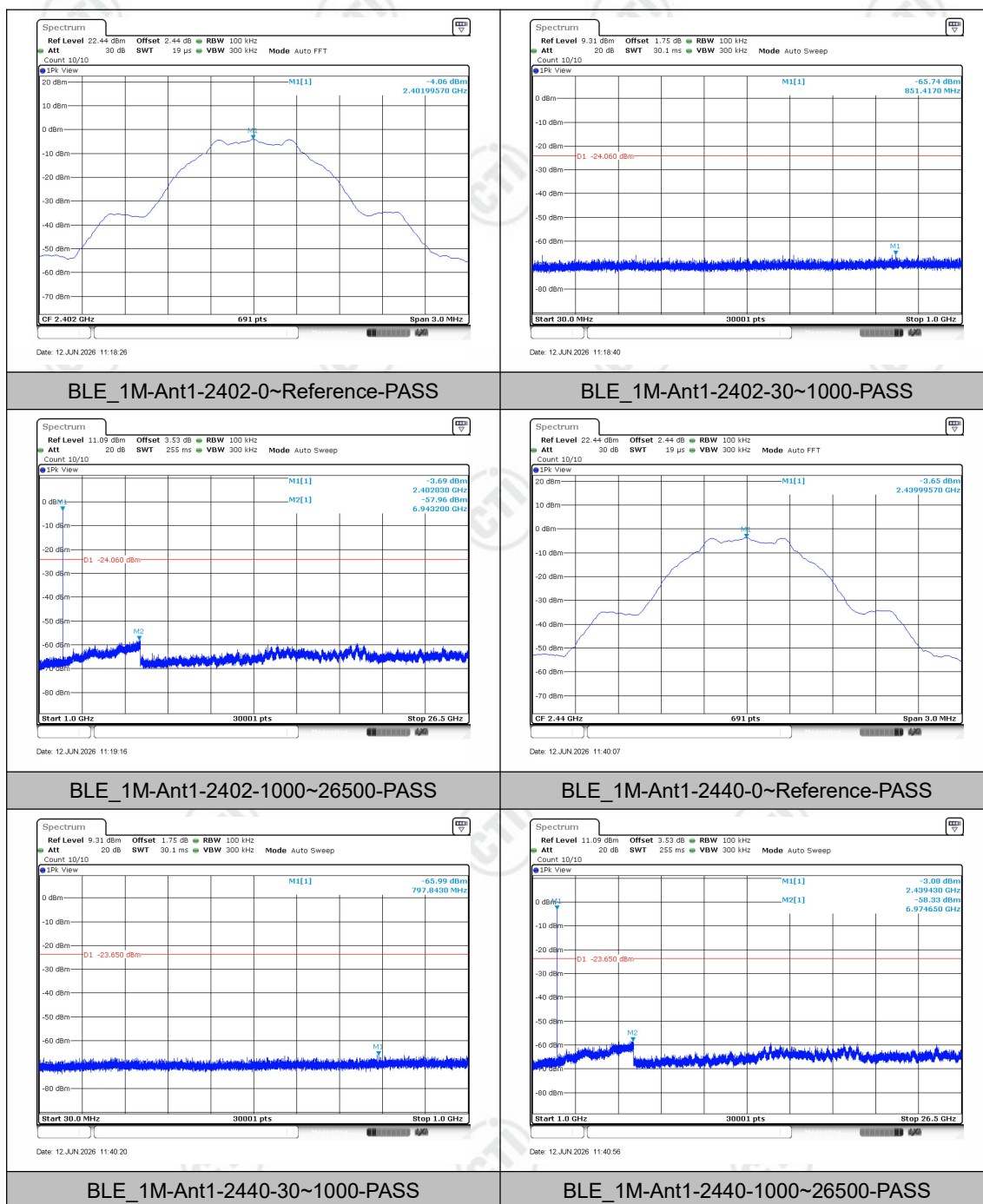


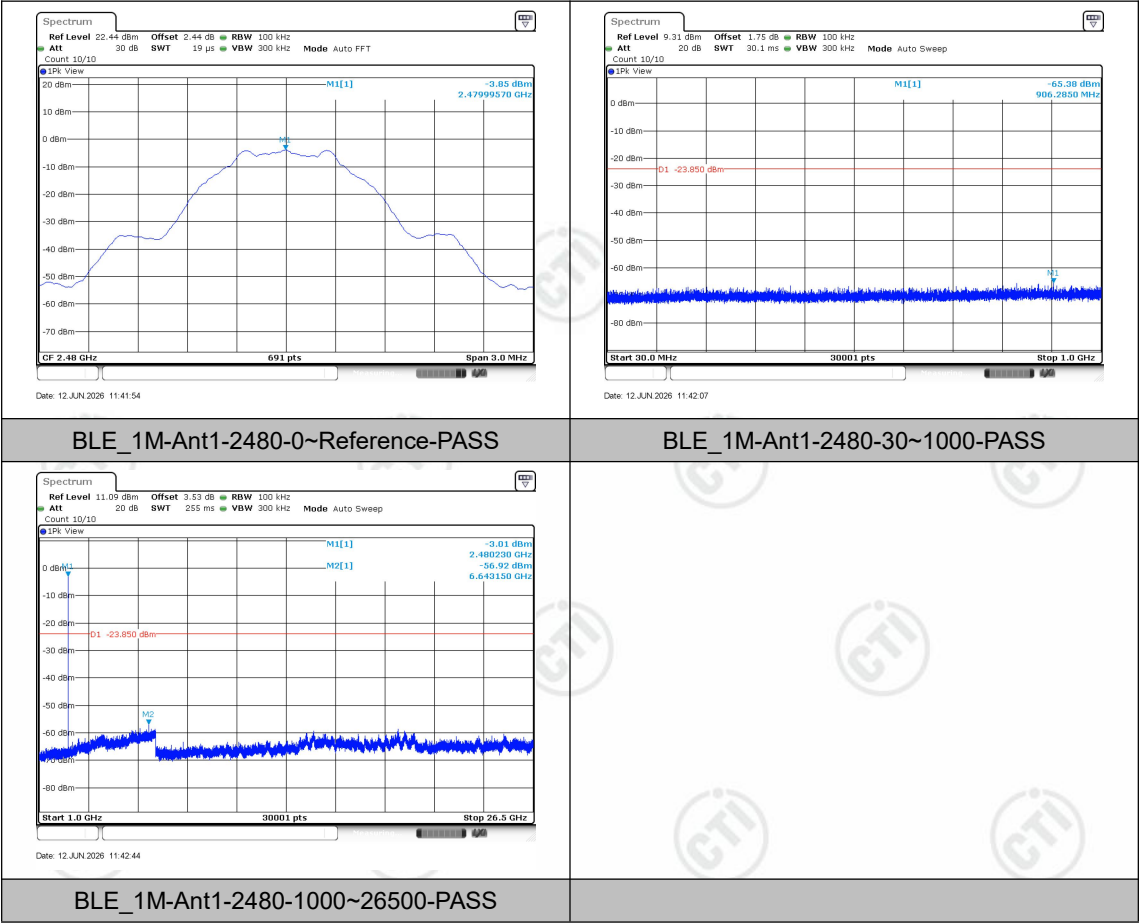
## Appendix F: Conducted Spurious Emission

### Test Result

| TestMode | Antenna | Frequency [MHz] | FreqRange [MHz] | RefLevel [dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|-----------------|-----------------|----------------|-------------|------------|---------|
| BLE_1M   | Ant1    | 2402            | 0~Reference     | -4.06          | -4.06       | ---        | PASS    |
| BLE_1M   | Ant1    | 2402            | 30~1000         | -4.06          | -65.74      | ≤-24.06    | PASS    |
| BLE_1M   | Ant1    | 2402            | 1000~26500      | -4.06          | -57.96      | ≤-24.06    | PASS    |
| BLE_1M   | Ant1    | 2440            | 0~Reference     | -3.65          | -3.65       | ---        | PASS    |
| BLE_1M   | Ant1    | 2440            | 30~1000         | -3.65          | -65.99      | ≤-23.65    | PASS    |
| BLE_1M   | Ant1    | 2440            | 1000~26500      | -3.65          | -58.33      | ≤-23.65    | PASS    |
| BLE_1M   | Ant1    | 2480            | 0~Reference     | -3.85          | -3.85       | ---        | PASS    |
| BLE_1M   | Ant1    | 2480            | 30~1000         | -3.85          | -65.38      | ≤-23.85    | PASS    |
| BLE_1M   | Ant1    | 2480            | 1000~26500      | -3.85          | -56.92      | ≤-23.85    | PASS    |

## Test Graphs



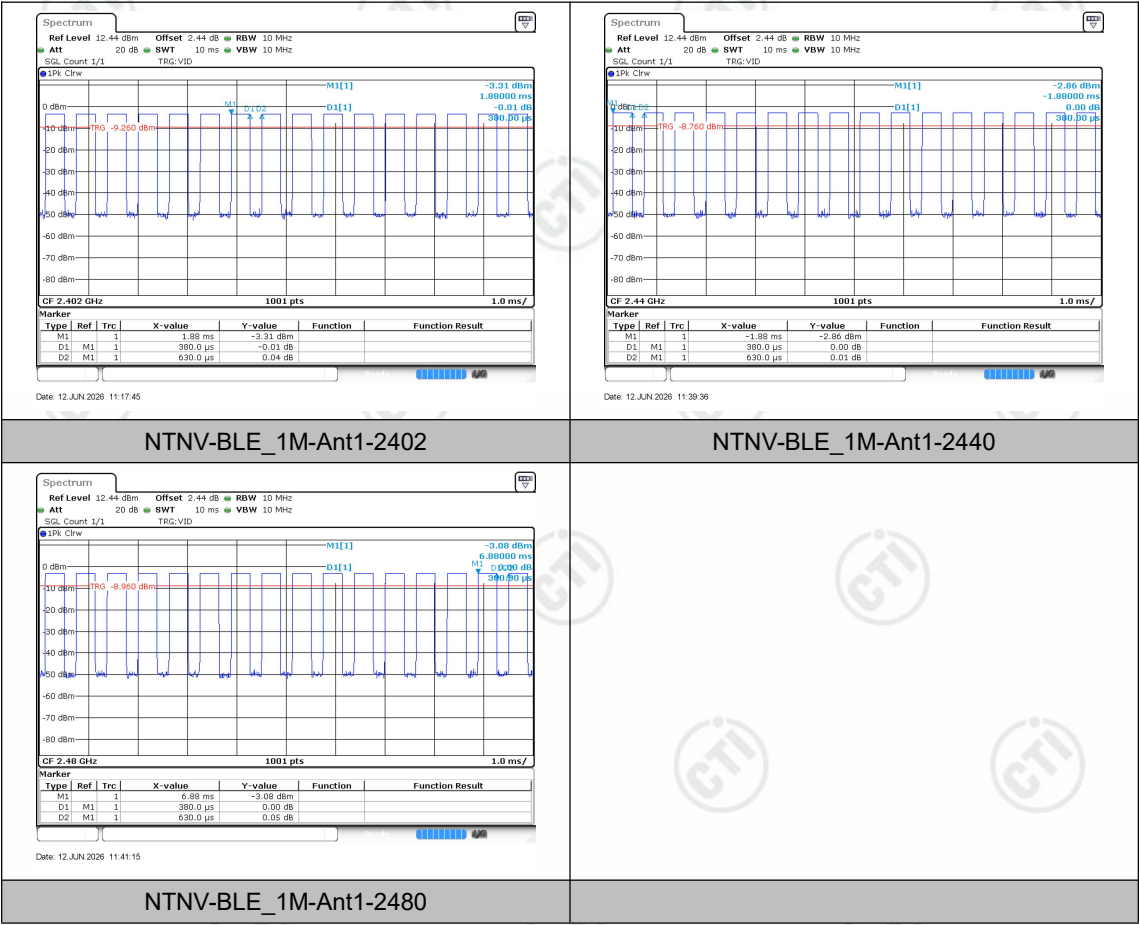


Appendix G: Duty Cycle

Test Result

| TestMode | Antenna | Frequency[MHz] | ON Time<br>[ms] | Period<br>[ms] | Duty Cycle<br>[%] | Duty Cycle<br>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                     |

Test Graphs



\*\*\* End of Report \*\*\*