# Appendix for Bluetooth BLE mode

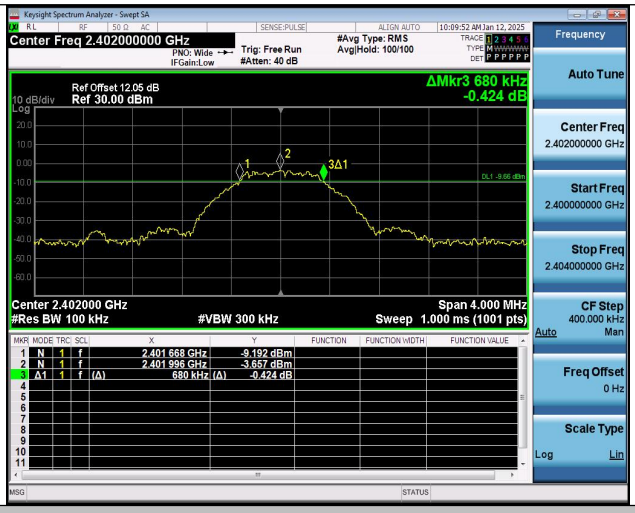
Product Name: Mobile Game Stretchable Controller
Model No: Y-D002-710

# Appendix A: DTS Bandwidth

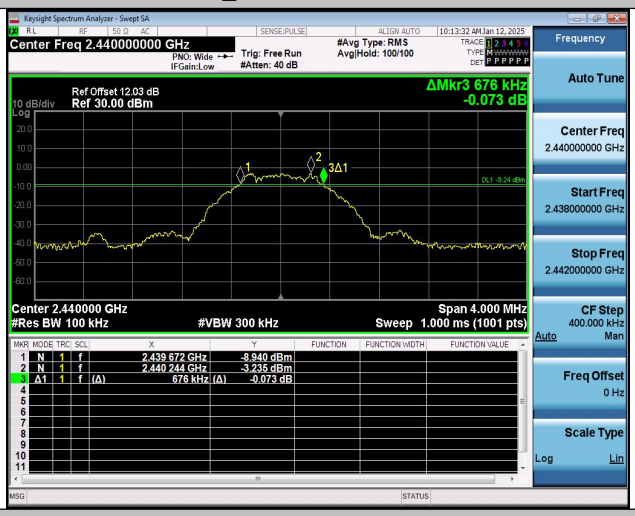
## Test Result

| TestMode | Antenna | Frequency[MHz] | DTS BW [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|---|---|---|---|---|---|---|---|
| BLE_1M | Ant1 | 2402 | 0.680 | 2401.668 | 2402.348 | 0.5 | PASS |
| BLE_1M | Ant1 | 2440 | 0.676 | 2439.672 | 2440.348 | 0.5 | PASS |
| BLE_1M | Ant1 | 2480 | 0.668 | 2479.656 | 2480.324 | 0.5 | PASS |

## Test Graphs




BLE_1M-Ant1-2402-PASS




BLE_1M-Ant1-2440-PASS

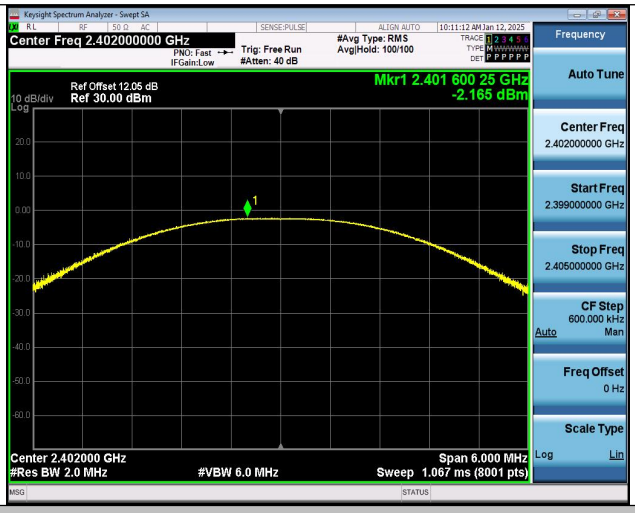
BLE_1M-Ant1-2480-PASS

# Appendix B: Maximum conducted output power

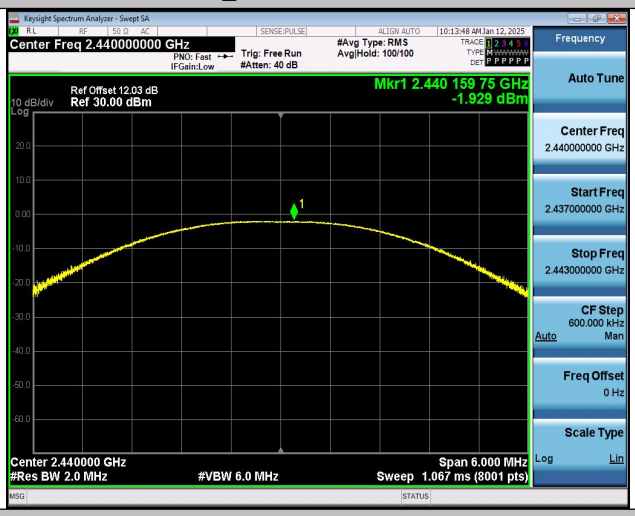
## Test Result Peak

| TestMode | Antenna | Frequency[MHz] | Conducted Peak Powert[dBm] | Conducted Limit[dBm] | Verdict |
|---|---|---|---|---|---|
| BLE_1M | Ant1 | 2402 | -2.17 | ≤30 | PASS |
| BLE_1M | Ant1 | 2440 | -1.93 | ≤30 | PASS |
| BLE_1M | Ant1 | 2480 | -1.41 | ≤30 | PASS |

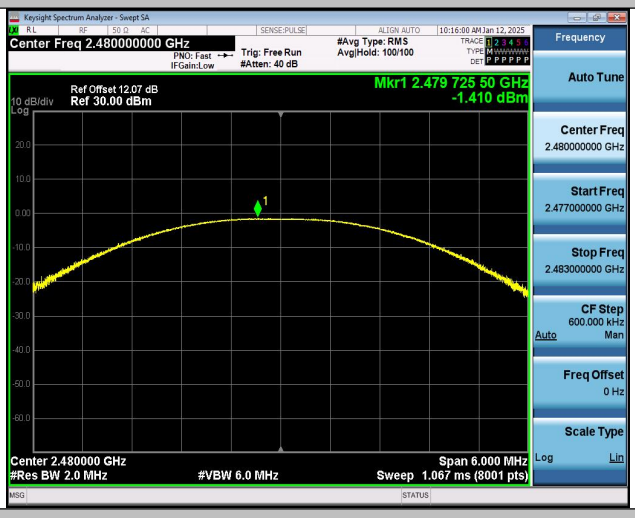
## Test Graphs Peak




BLE_1M-Ant1-2402-PASS




BLE_1M-Ant1-2440-PASS



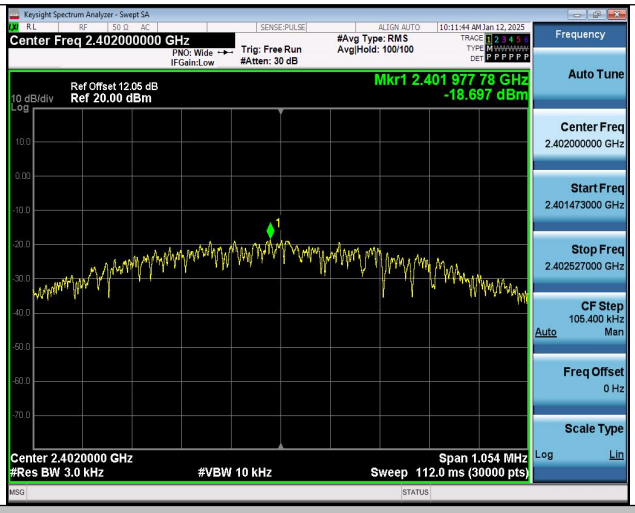

BLE_1M-Ant1-2480-PASS

# Appendix C: Maximum power spectral density

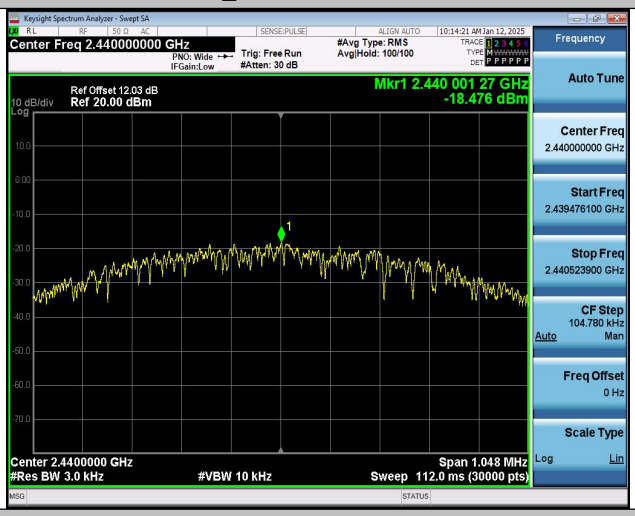
## Test Result

| TestMode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|---|---|---|---|---|---|
| BLE_1M | Ant1 | 2402 | -18.70 | ≤8.00 | PASS |
| BLE_1M | Ant1 | 2440 | -18.48 | ≤8.00 | PASS |
| BLE_1M | Ant1 | 2480 | -17.89 | ≤8.00 | PASS |

## Test Graphs




BLE_1M-Ant1-2402-PASS




BLE_1M-Ant1-2440-PASS

BLE_1M-Ant1-2480-PASS

# Appendix D: Reference level measurement

## Test Result

| TestMode | Antenna | Freq(MHz) | Max.Point[MHz] | Result[dBm] |
|---|---|---|---|---|
| BLE_1M | Ant1 | 2402 | 2402.00 | -3.45 |
| BLE_1M | Ant1 | 2440 | 2440.01 | -3.12 |
| BLE_1M | Ant1 | 2480 | 2480.01 | -2.71 |

## Test Graphs

BLE_1M-Ant1-2402-PASS

BLE_1M-Ant1-2440-PASS

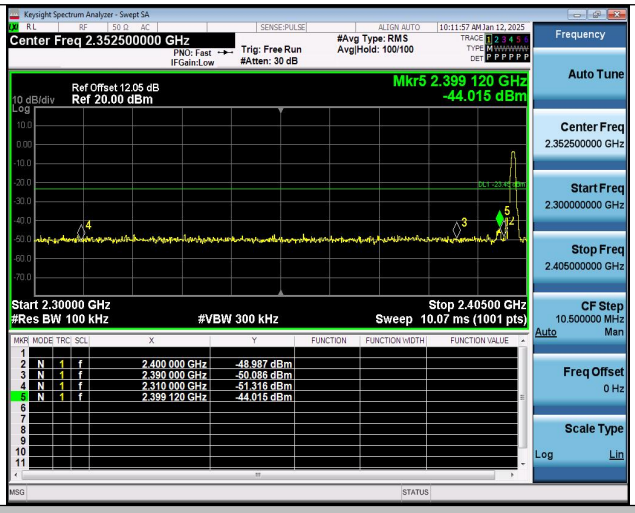
BLE_1M-Ant1-2480-PASS

# Appendix E: Band edge measurements

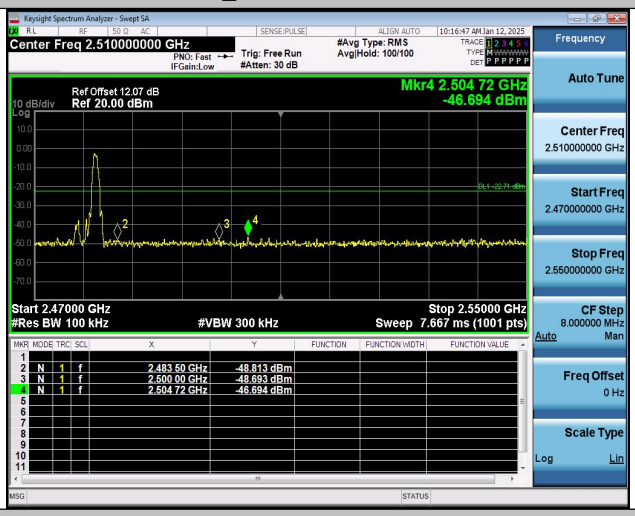
## Test Result

| TestMode | Antenna | ChName | Frequency[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|---|---|---|---|---|---|---|---|
| BLE_1M | Ant1 | Low | 2402 | -3.45 | -44.02 | ≤-23.45 | PASS |
| BLE_1M | Ant1 | High | 2480 | -2.71 | -46.69 | ≤-22.71 | PASS |

## Test Graphs




BLE_1M-Ant1-2402-PASS



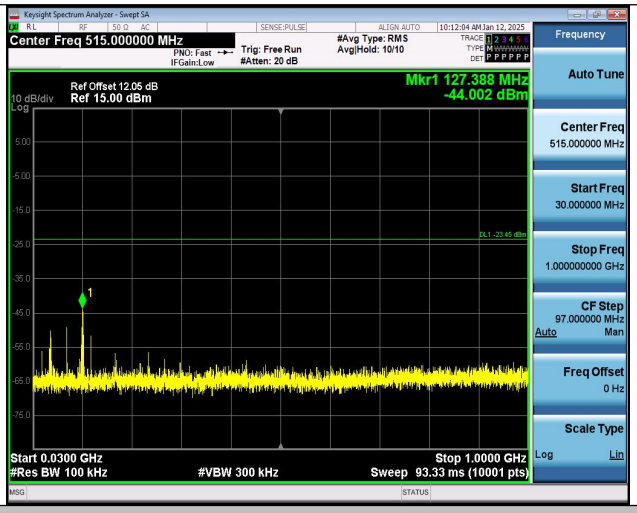

BLE_1M-Ant1-2480-PASS

# Appendix F: Conducted Spurious Emission

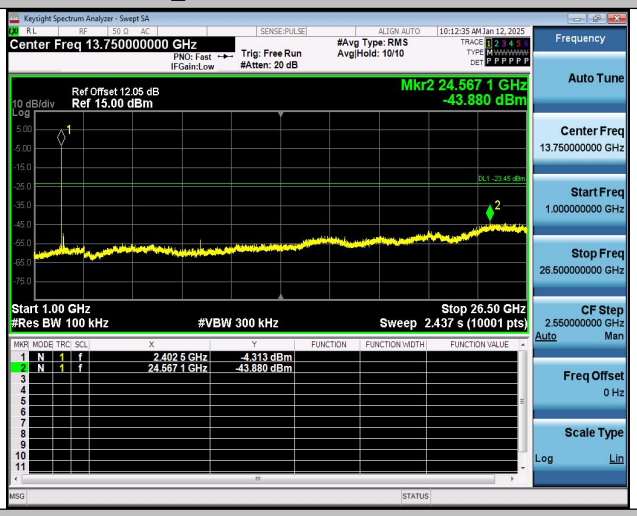
## Test Result

| TestMode | Antenna | Frequency[MHz] | FreqRange [MHz] | RefLevel [dBm] | Result[dBm] | Limit[dBm] | Verdict |
|---|---|---|---|---|---|---|---|
| BLE_1M | Ant1 | 2402 | 30~1000 | -3.45 | -44 | ≤-23.45 | PASS |
| BLE_1M | Ant1 | 2402 | 1000~26500 | -3.45 | -43.88 | ≤-23.45 | PASS |
| BLE_1M | Ant1 | 2440 | 30~1000 | -3.12 | -44.64 | ≤-23.12 | PASS |
| BLE_1M | Ant1 | 2440 | 1000~26500 | -3.12 | -43.91 | ≤-23.12 | PASS |
| BLE_1M | Ant1 | 2480 | 30~1000 | -2.71 | -45.24 | ≤-22.71 | PASS |
| BLE_1M | Ant1 | 2480 | 1000~26500 | -2.71 | -43.75 | ≤-22.71 | PASS |

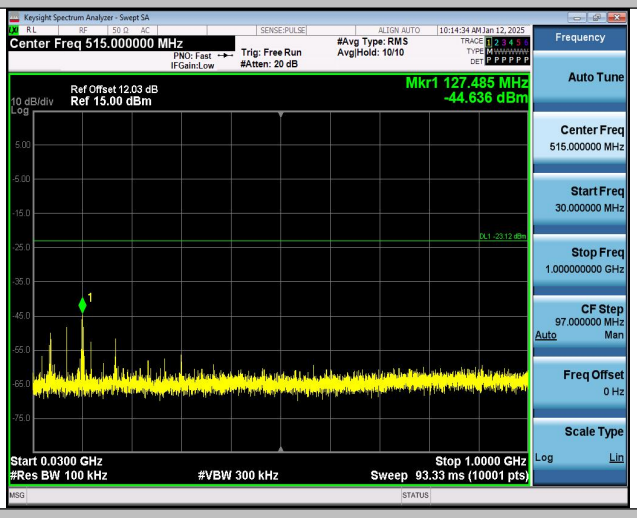
## Test Graphs



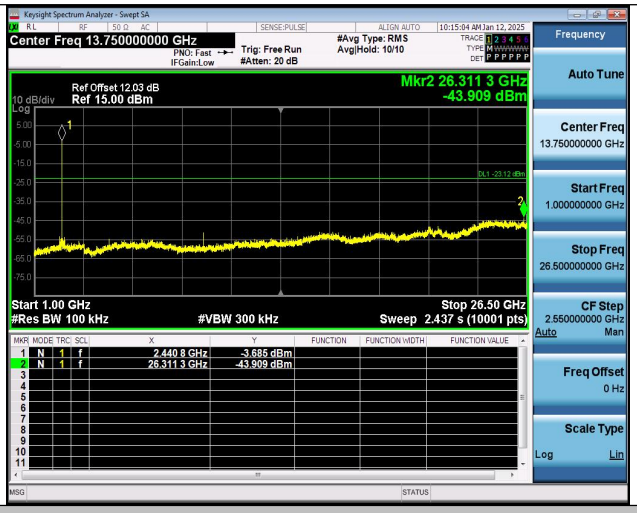

BLE_1M-Ant1-2402-30~1000-PASS



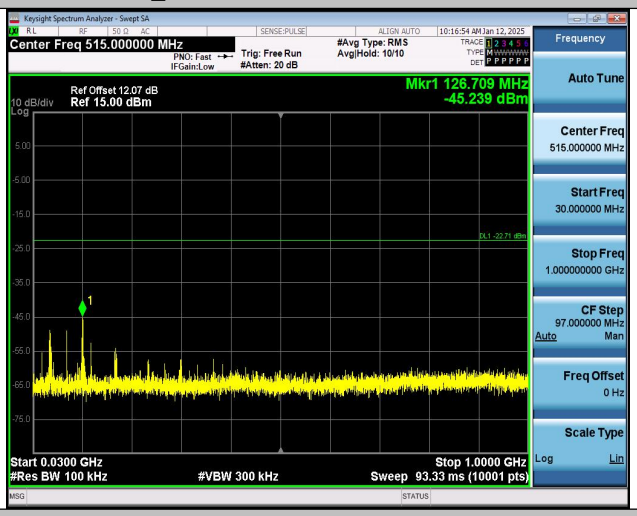

BLE_1M-Ant1-2402-1000~26500-PASS



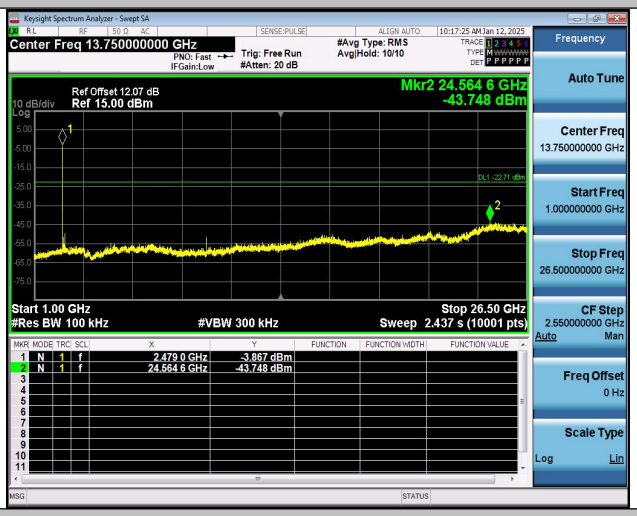

BLE_1M-Ant1-2440-30~1000-PASS




BLE_1M-Ant1-2440-1000~26500-PASS




BLE_1M-Ant1-2480-30~1000-PASS




BLE_1M-Ant1-2480-1000~26500-PASS