



## Appendix Test Data for BLE (Conducted Measurement)

Product Name: Bluetooth Keyboard

Trade Mark: Dexnor

Test Model: DK011

FCC ID: 2BA3T-DK011

### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 23.5°C    |
| Relative Humidity: | 58%       |
| ATM Pressure:      | 100.0 kPa |
| Test Engineer:     | Allen Lai |
| Supervised by:     | Max Zhang |
| NOTE               | N/A       |

## Appendix A: DTS Bandwidth

### Test Result

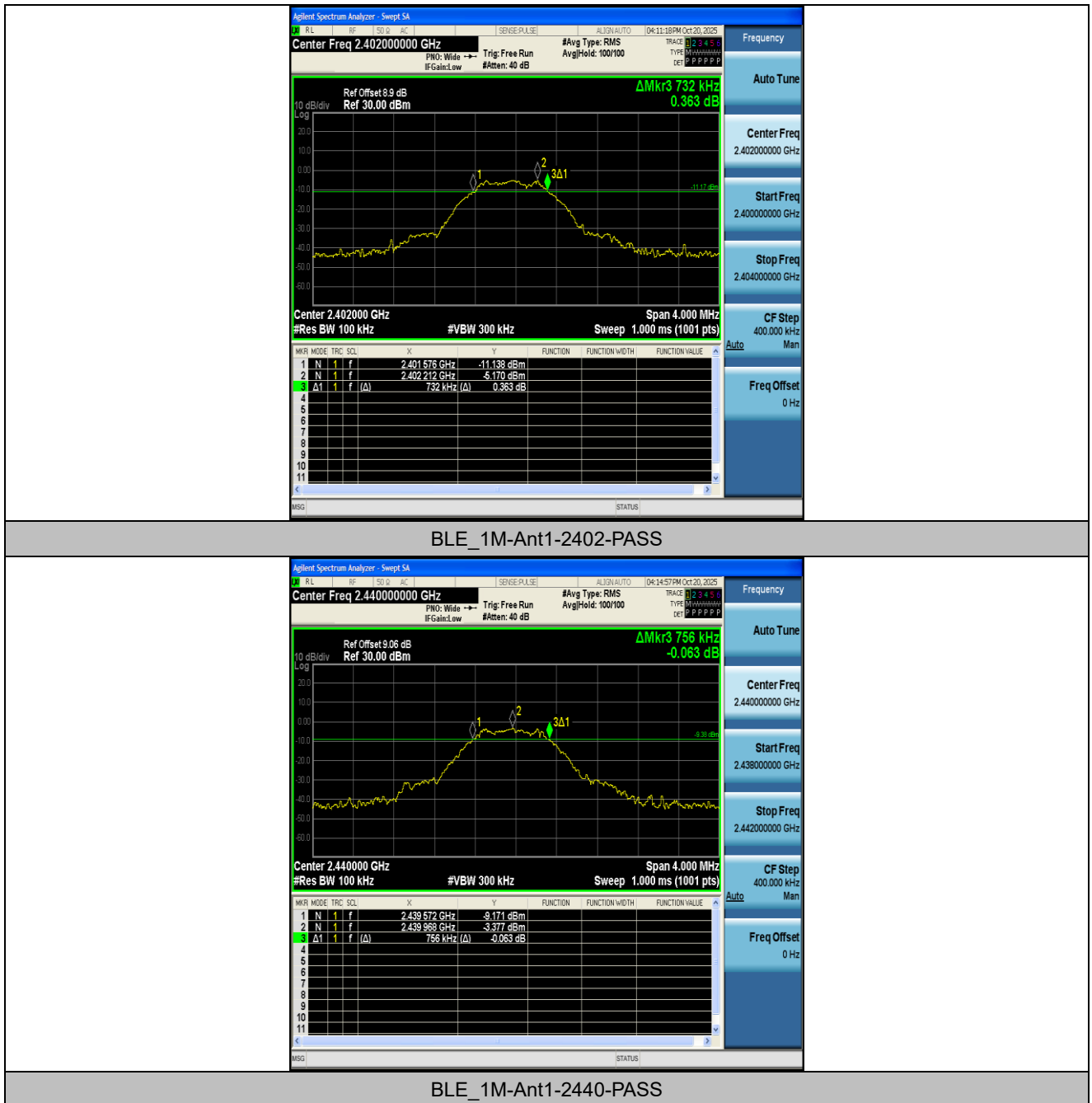
| Test Mode | Antenna | Frequency<br>[MHz] | DTS BW<br>[MHz] | FL<br>[MHz] | FH<br>[MHz] | Limit<br>[MHz] | Verdict |
|-----------|---------|--------------------|-----------------|-------------|-------------|----------------|---------|
| BLE_1M    | Ant1    | 2402               | 0.732           | 2401.576    | 2402.308    | 0.5            | PASS    |
| BLE_1M    | Ant1    | 2440               | 0.756           | 2439.572    | 2440.328    | 0.5            | PASS    |
| BLE_1M    | Ant1    | 2480               | 0.728           | 2479.584    | 2480.312    | 0.5            | PASS    |

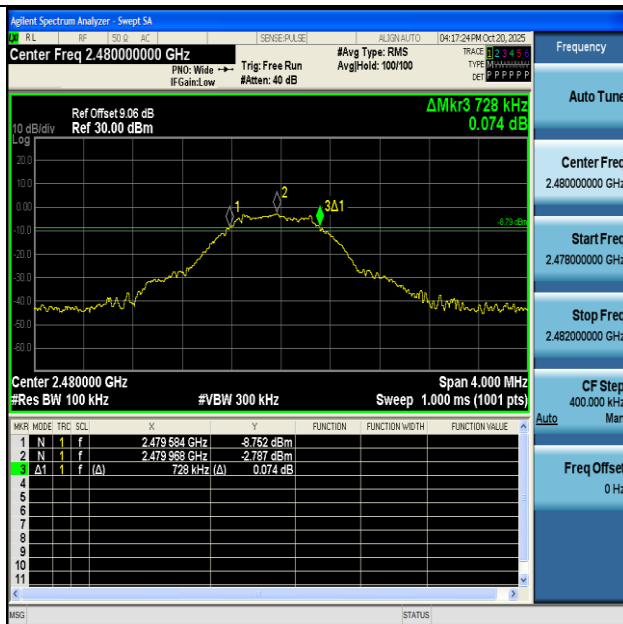
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)





## Test Graphs





BLE\_1M-Ant1-2480-PASS





## Appendix B: Occupied Channel Bandwidth

### Test Result

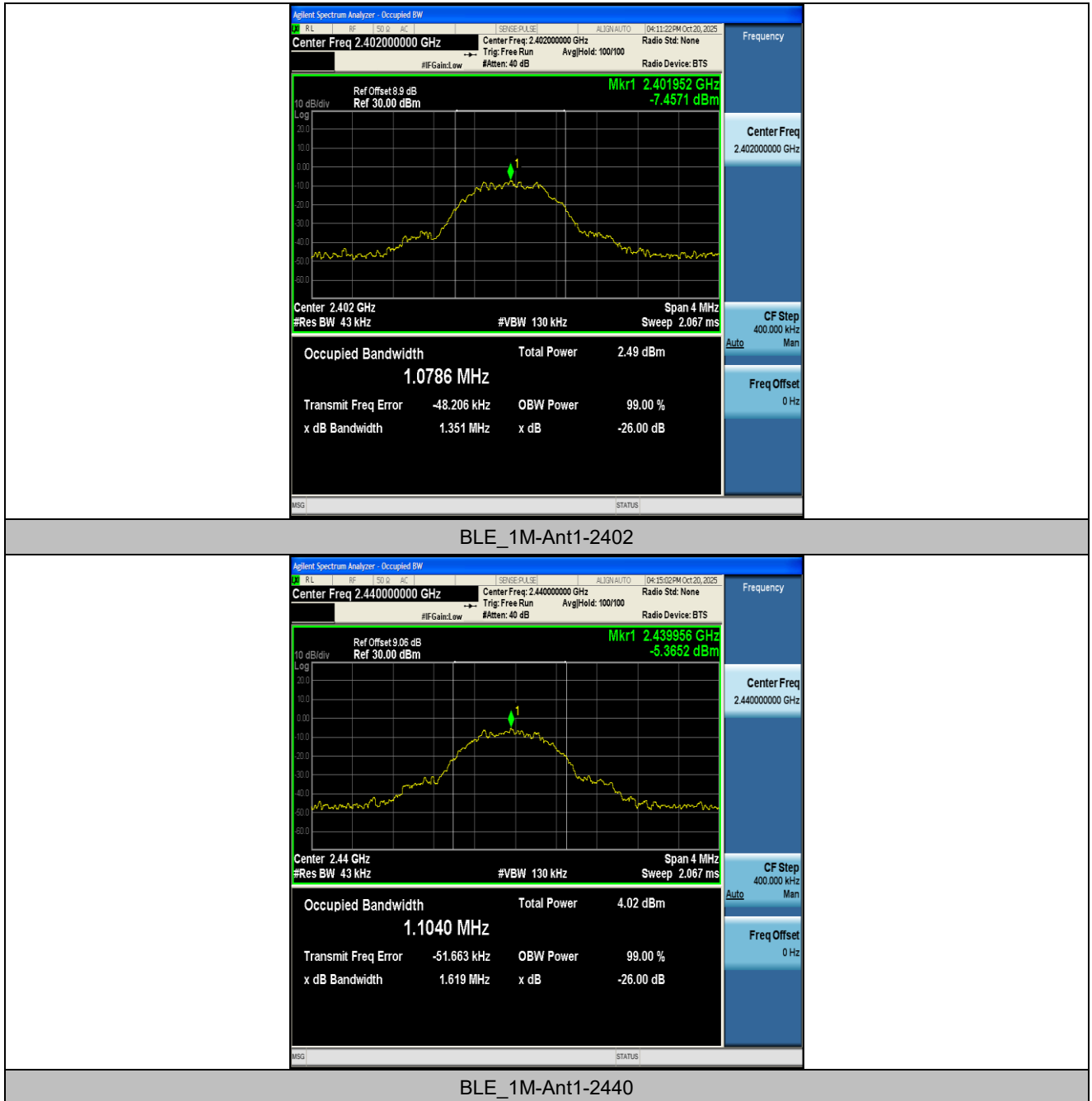
| Test Mode | Antenna | Frequency<br>[MHz] | OCB<br>[MHz] | FL<br>[MHz] | FH<br>[MHz] | Limit<br>[MHz] | Verdict |
|-----------|---------|--------------------|--------------|-------------|-------------|----------------|---------|
| BLE_1M    | Ant1    | 2402               | 1.0786       | 2401.4125   | 2402.4911   | ---            | ---     |
| BLE_1M    | Ant1    | 2440               | 1.1040       | 2439.3963   | 2440.5003   | ---            | ---     |
| BLE_1M    | Ant1    | 2480               | 1.0995       | 2479.4012   | 2480.5007   | ---            | ---     |

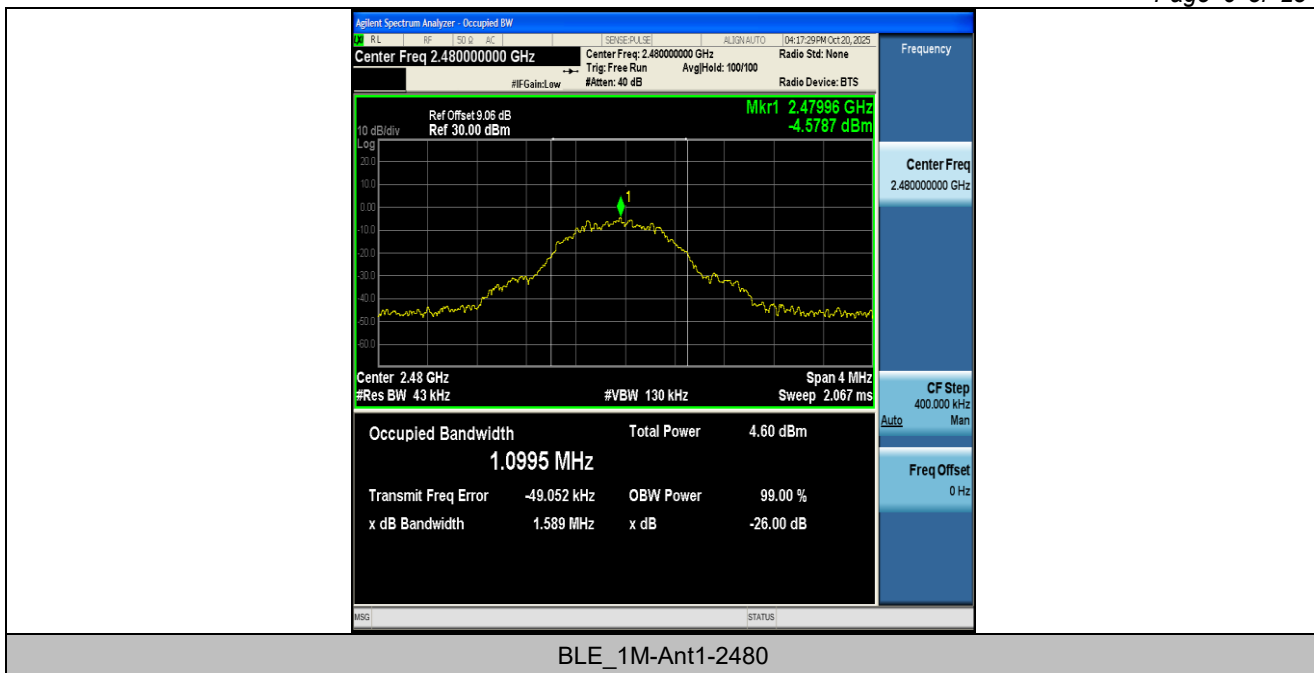
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)





## Test Graphs







## Appendix C: Maximum peak conducted output power

### Test Result Peak

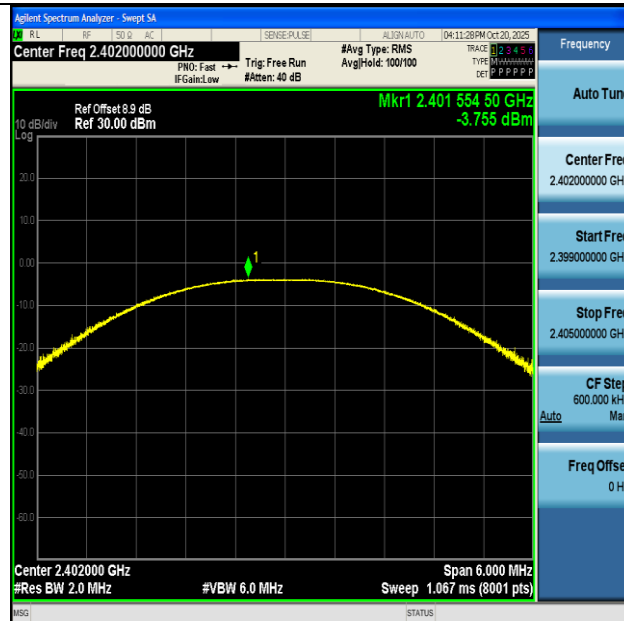
| Test Mode | Antenna | Frequency [MHz] | Conducted Peak Power [dBm] | Conducted Limit [dBm] | Verdict |
|-----------|---------|-----------------|----------------------------|-----------------------|---------|
| BLE_1M    | Ant1    | 2402            | -3.76                      | ≤30                   | PASS    |
| BLE_1M    | Ant1    | 2440            | -2.23                      | ≤30                   | PASS    |
| BLE_1M    | Ant1    | 2480            | -1.67                      | ≤30                   | PASS    |

Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

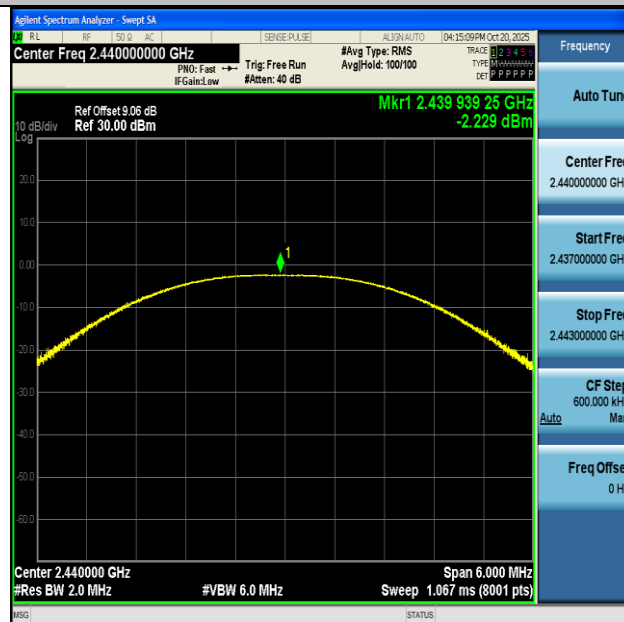




## Test Graphs Peak

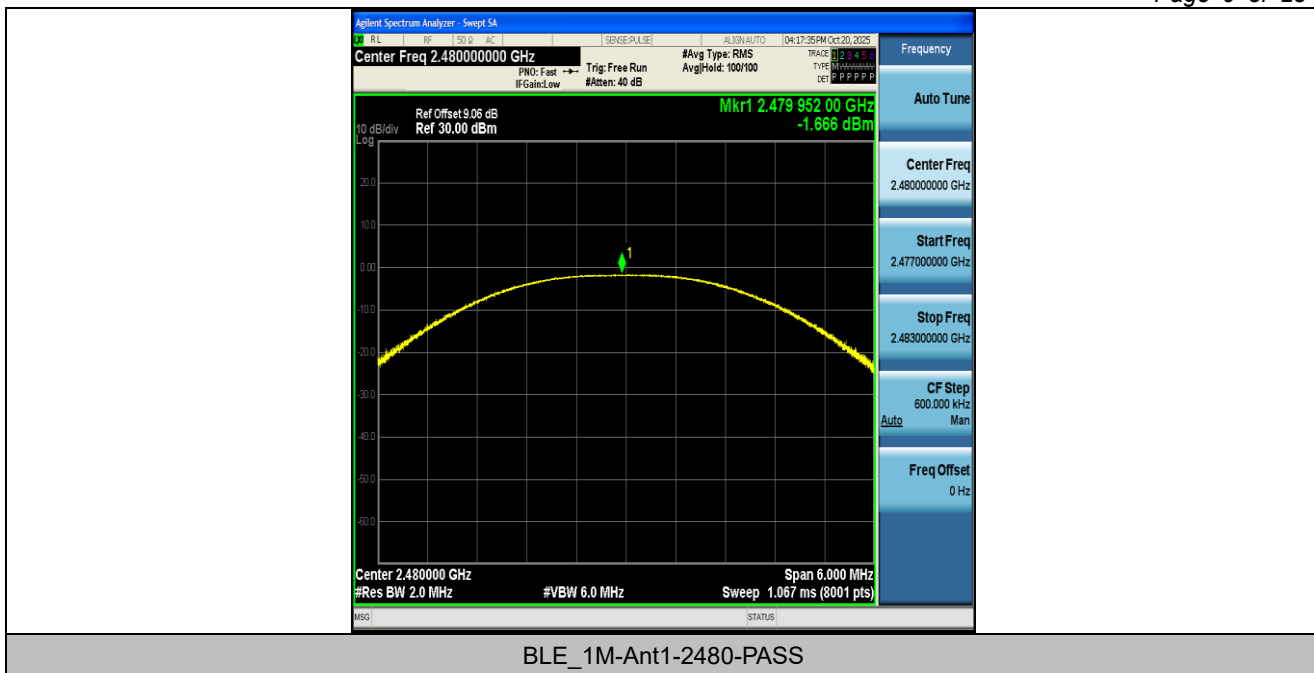


BLE\_1M-Ant1-2402-PASS



BLE\_1M-Ant1-2440-PASS







## Appendix D: Maximum peak power spectral density

### Test Result

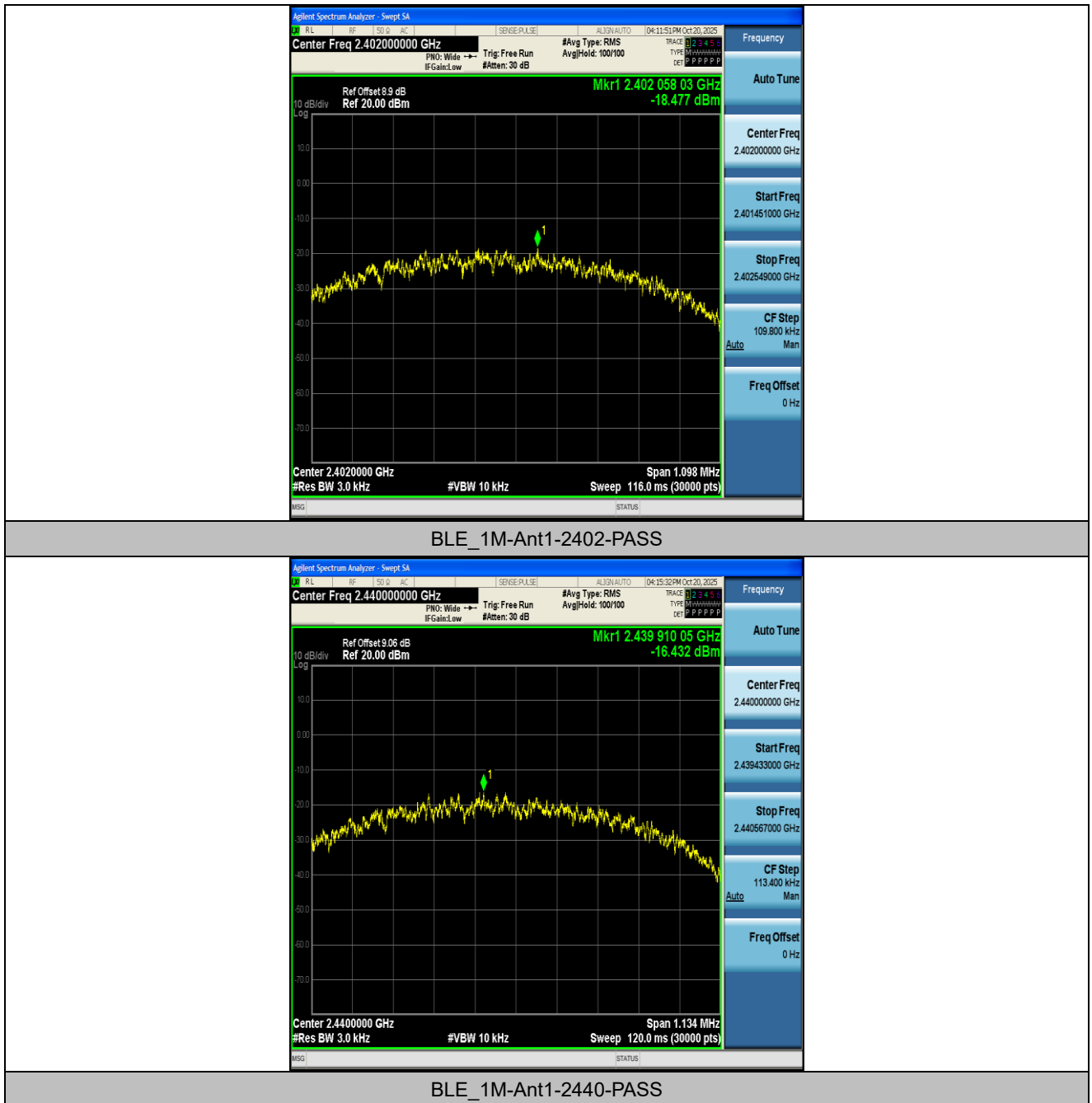
| Test Mode | Antenna | Frequency<br>[MHz] | Result<br>[dBm/3kHz] | Limit<br>[dBm/3kHz] | Verdict |
|-----------|---------|--------------------|----------------------|---------------------|---------|
| BLE_1M    | Ant1    | 2402               | -18.48               | ≤8.00               | PASS    |
| BLE_1M    | Ant1    | 2440               | -16.43               | ≤8.00               | PASS    |
| BLE_1M    | Ant1    | 2480               | -16.35               | ≤8.00               | PASS    |

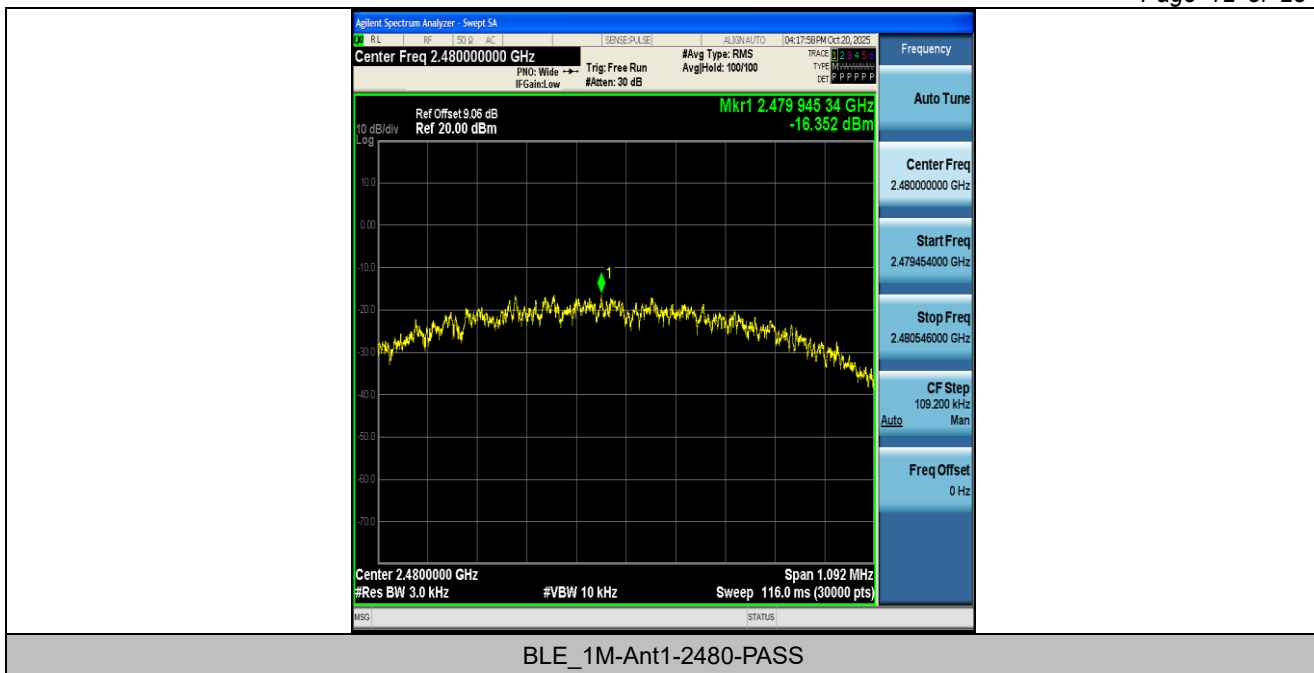
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)





## Test Graphs







## Appendix E: Band edge measurements

### Test Result

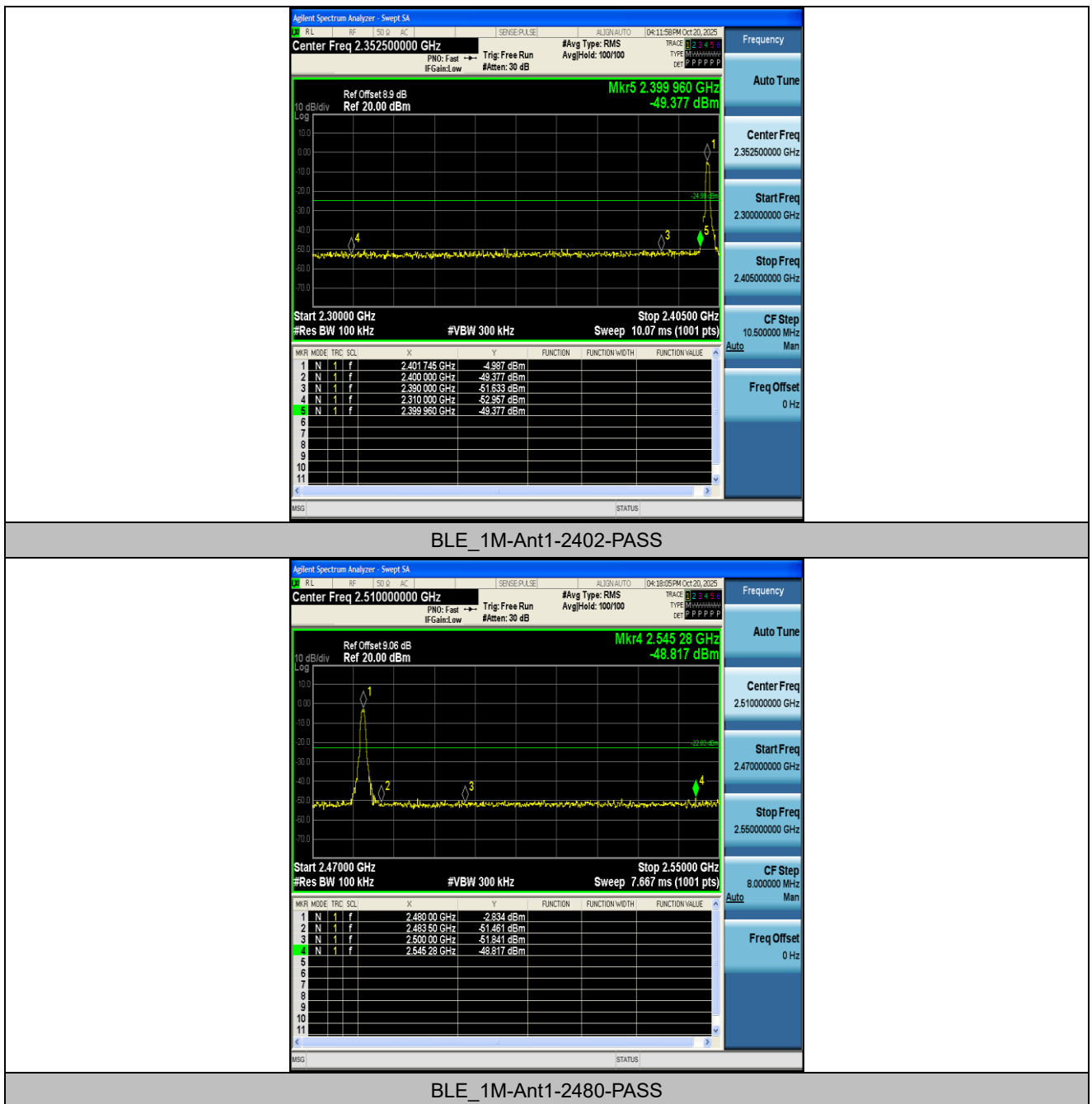
| Test Mode | Antenna | Ch. Name | Frequency [MHz] | Ref. Level [dBm] | Result [dBm] | Limit [dBm]   | Verdict |
|-----------|---------|----------|-----------------|------------------|--------------|---------------|---------|
| BLE_1M    | Ant1    | Low      | 2402            | -4.99            | -49.38       | $\leq -24.99$ | PASS    |
| BLE_1M    | Ant1    | High     | 2480            | -2.83            | -48.82       | $\leq -22.83$ | PASS    |

Note: offset(dB) = cable loss(dB) + attenuator factor(dB)





## Test Graphs





## Appendix F: Conducted Spurious Emission

### Test Result

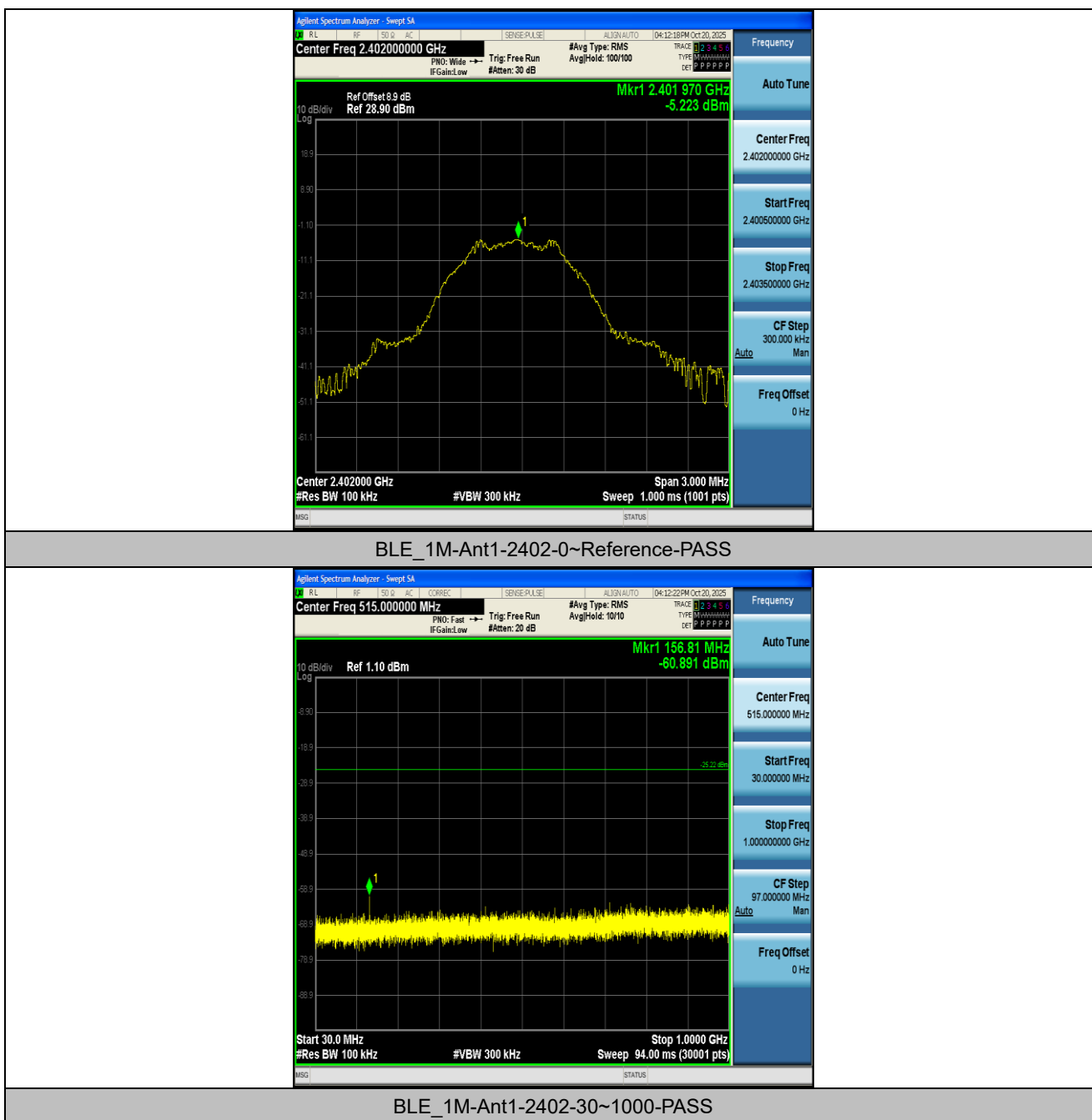
| Test Mode | Antenna | Frequency [MHz] | Freq. Range [MHz] | Ref. Level [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|-----------------|-------------------|------------------|--------------|-------------|---------|
| BLE_1M    | Ant1    | 2402            | 0~Reference       | -5.22            | -5.22        | ---         | PASS    |
| BLE_1M    | Ant1    | 2402            | 30~1000           | -5.22            | -60.89       | ≤-25.22     | PASS    |
| BLE_1M    | Ant1    | 2402            | 1000~26500        | -5.22            | -44.88       | ≤-25.22     | PASS    |
| BLE_1M    | Ant1    | 2440            | 0~Reference       | -3.51            | -3.51        | ---         | PASS    |
| BLE_1M    | Ant1    | 2440            | 30~1000           | -3.51            | -58.92       | ≤-23.51     | PASS    |
| BLE_1M    | Ant1    | 2440            | 1000~26500        | -3.51            | -45.87       | ≤-23.51     | PASS    |
| BLE_1M    | Ant1    | 2480            | 0~Reference       | -2.88            | -2.88        | ---         | PASS    |
| BLE_1M    | Ant1    | 2480            | 30~1000           | -2.88            | -62.78       | ≤-22.88     | PASS    |
| BLE_1M    | Ant1    | 2480            | 1000~26500        | -2.88            | -45.37       | ≤-22.88     | PASS    |

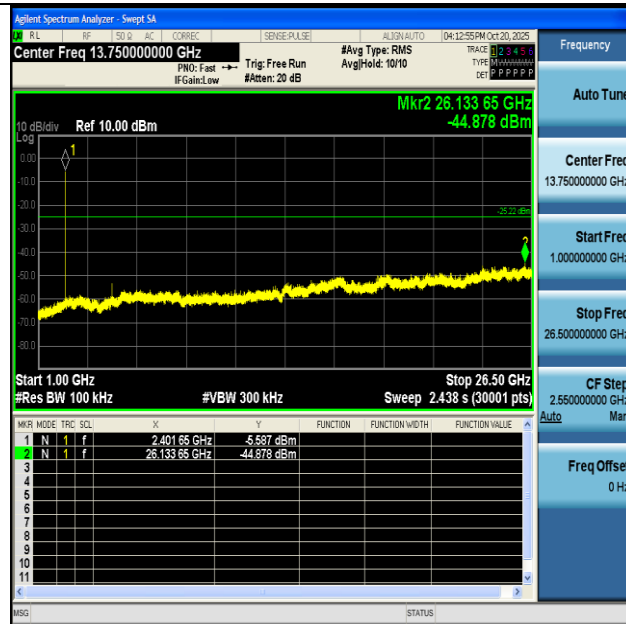
Note: offset(dB) in Reference test plots = cable loss(dB) + attenuator factor(dB); For spurious emissions plots from 30MHz to 26.5GHz, the cable loss and attenuator factors have been set in the 'Input Correction' of the Spectrum Analyzer during the test.





## Test Graphs



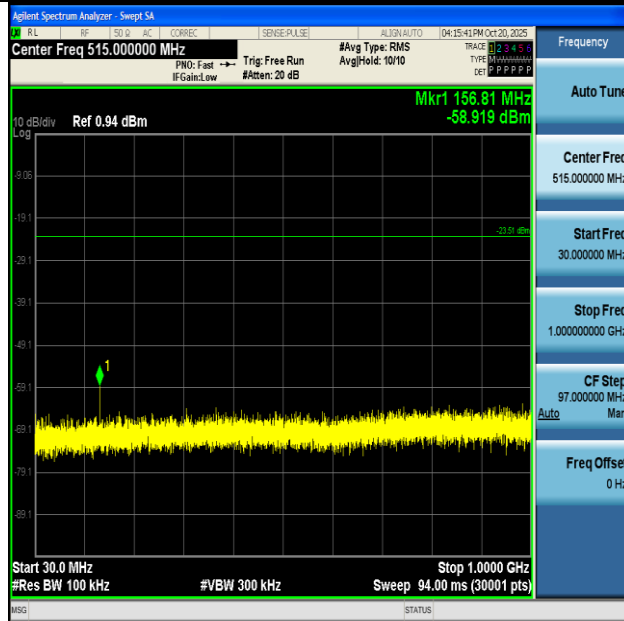


BLE\_1M-Ant1-2402-1000~26500-PASS

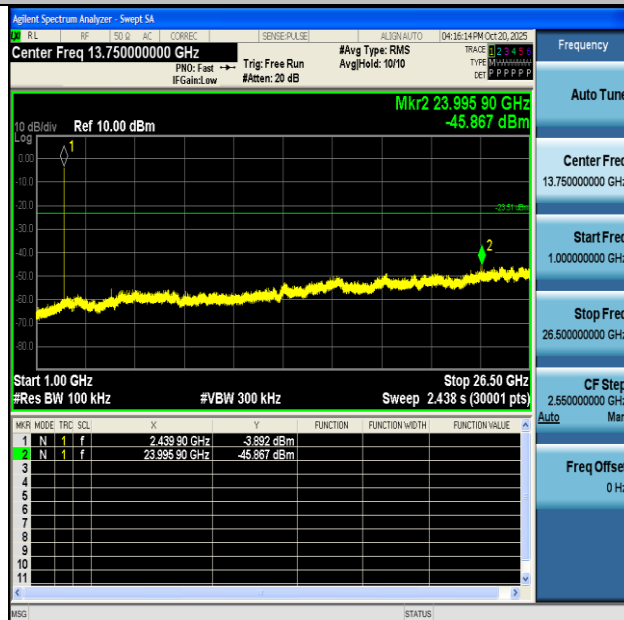


BLE\_1M-Ant1-2440-0~Reference-PASS





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

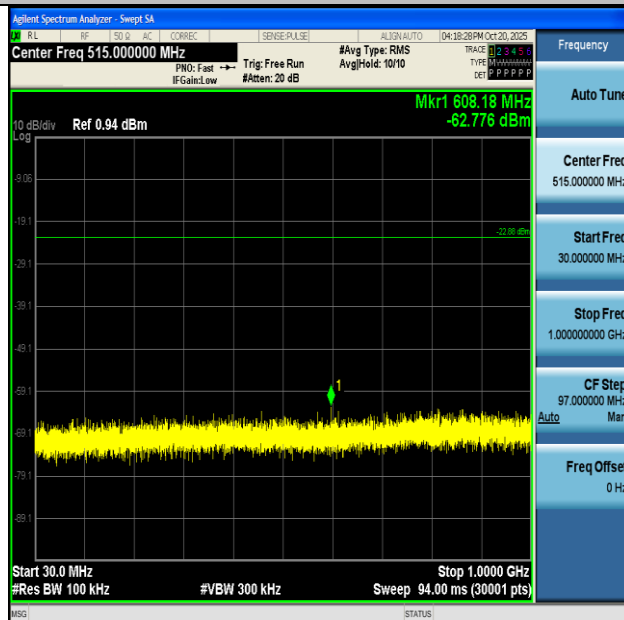


BLE\_1M-Ant1-2440-1000~26500-PASS



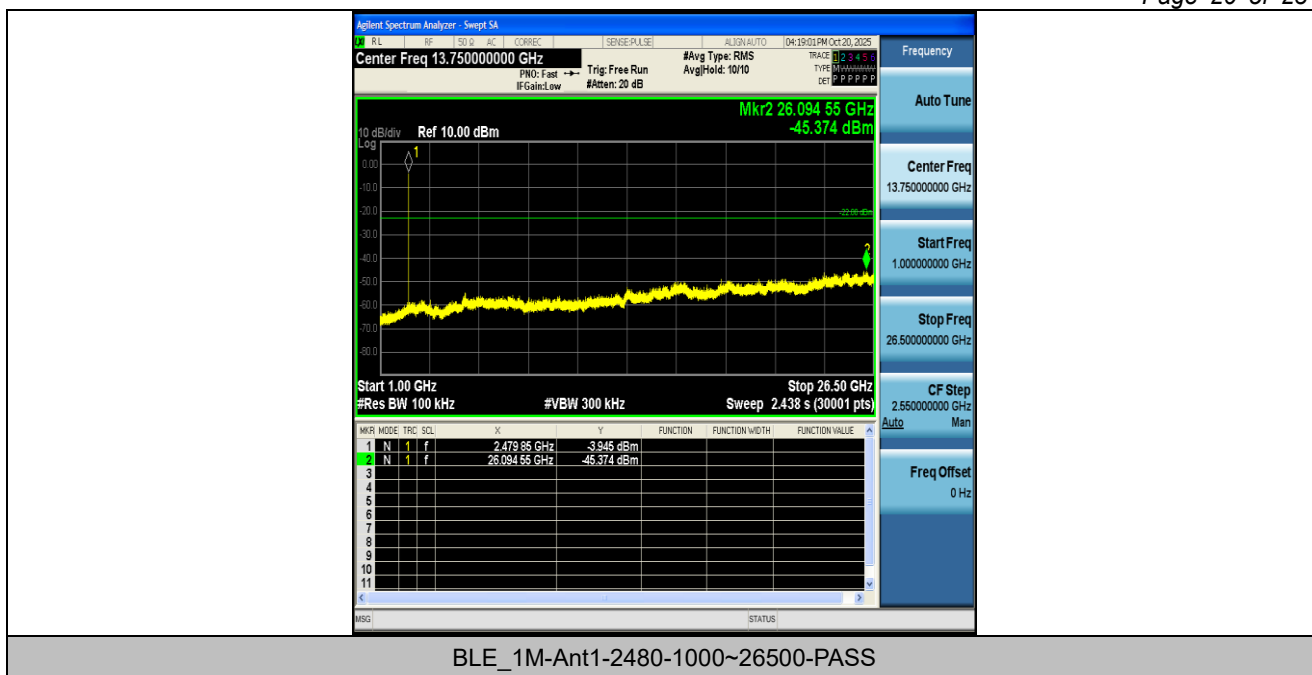


BLE\_1M-Ant1-2480-0~Reference-PASS



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







## Appendix G: Duty Cycle

### Test Result

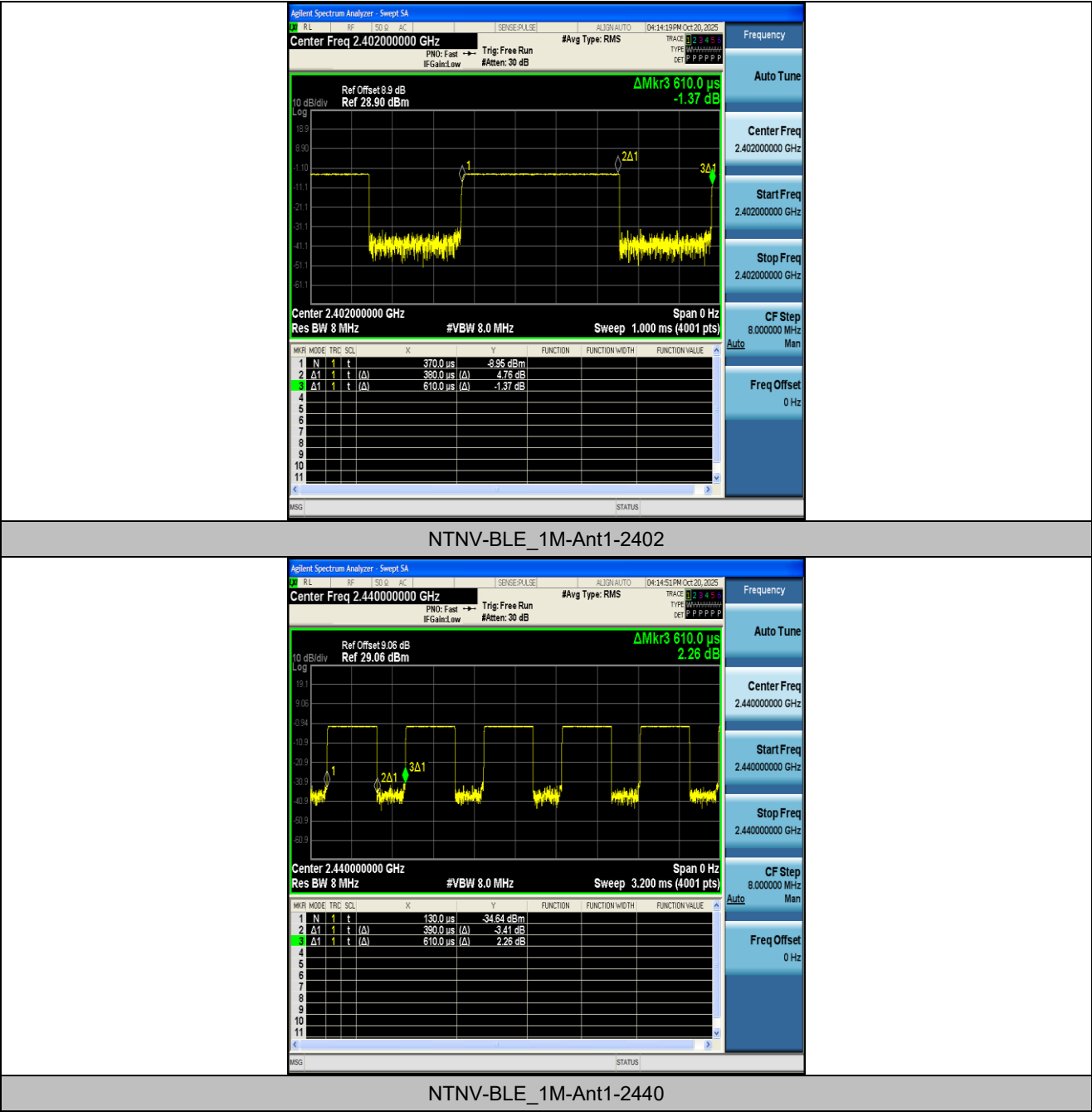
| Test Mode | Antenna | Frequency<br>[MHz] | ON Time<br>[ms] | Period<br>[ms] | Duty Cycle<br>[%] | Duty Cycle<br>Factor<br>[dB] |
|-----------|---------|--------------------|-----------------|----------------|-------------------|------------------------------|
| BLE_1M    | Ant1    | 2402               | 0.38            | 0.61           | 62.30             | 2.06                         |
| BLE_1M    | Ant1    | 2440               | 0.39            | 0.61           | 63.93             | 1.94                         |
| BLE_1M    | Ant1    | 2480               | 0.39            | 0.61           | 63.93             | 1.94                         |

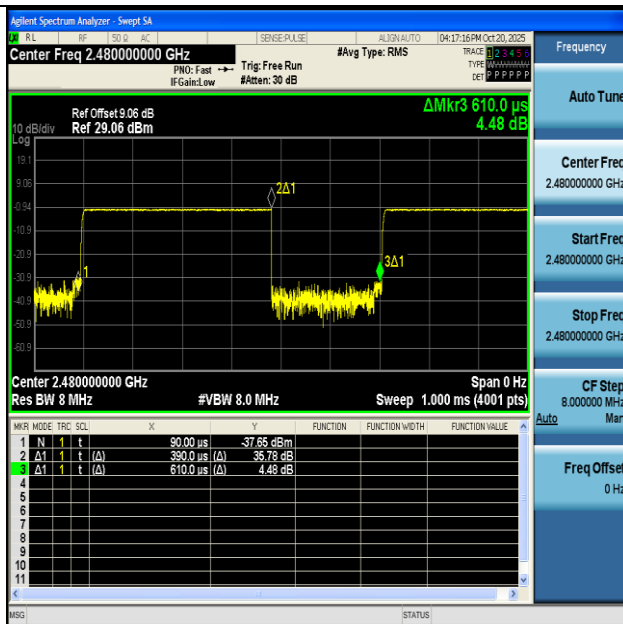
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)





Test Graphs





NTNV-BLE\_1M-Ant1-2480

