

## Appendix Test Data for BLE (Conducted Measurement)

Product Name: Wireless Mechanical Keyboard

Trade Mark: Keychron

Test Model: V3 Max

FCC ID: 2BGKB-V3MAX

### Environmental Conditions

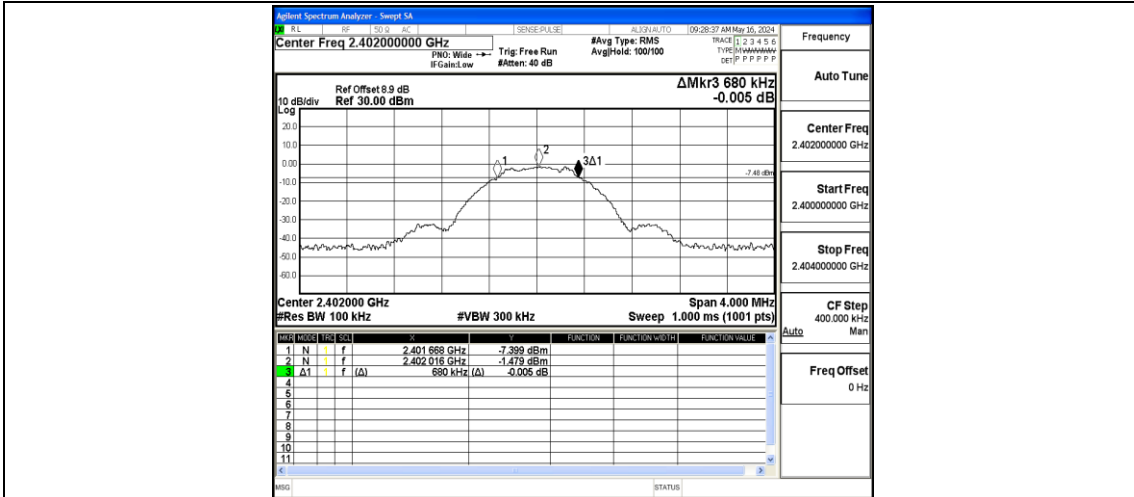
Temperature:	22.8° C
Relative Humidity:	56%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

## Appendix A: DTS Bandwidth

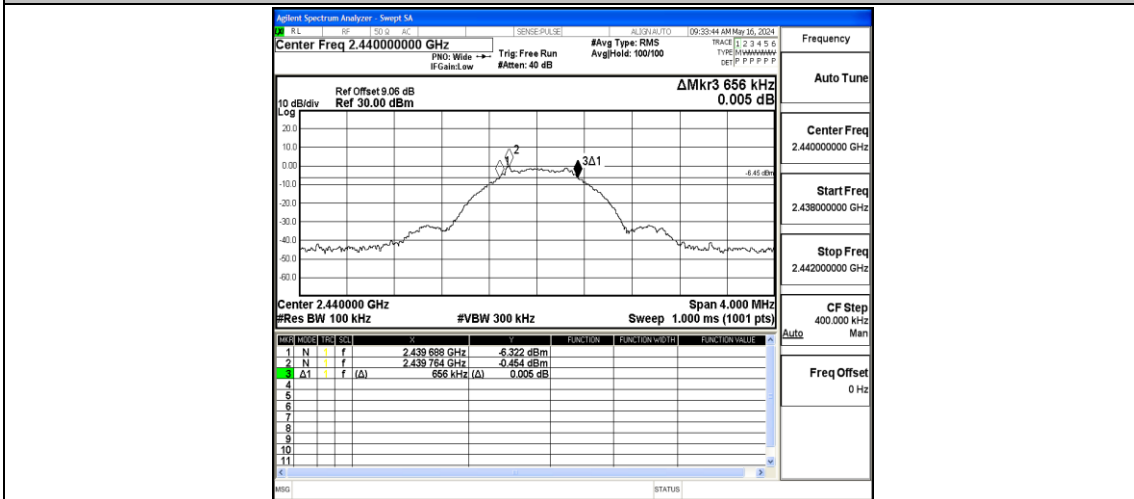
### Test Result

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	0.656	2439.688	2440.344	0.5	PASS
BLE_1M	Ant1	2480	0.668	2479.676	2480.344	0.5	PASS

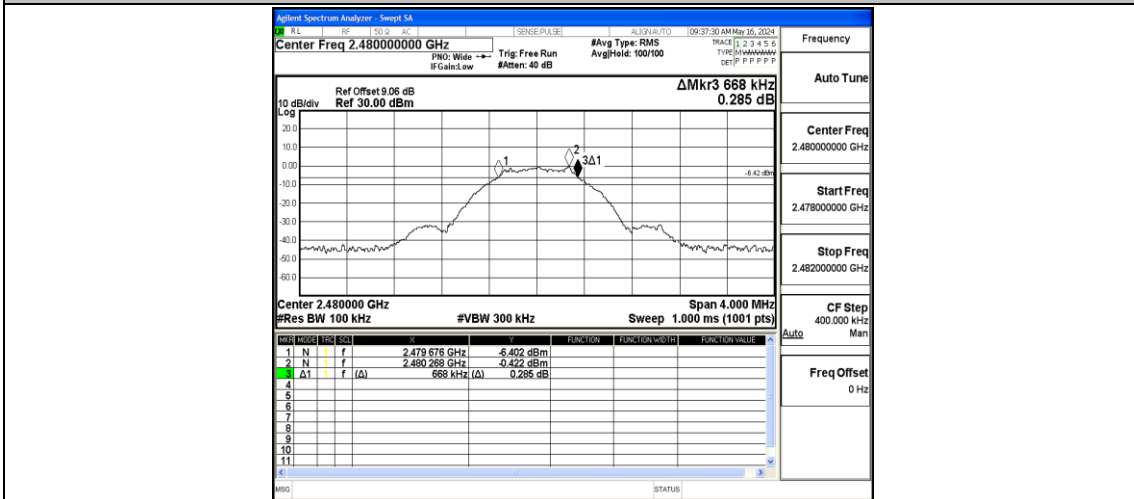
### Test Graphs



BLE\_1M-Ant1-240-PASS



BLE\_1M-Ant1-2440-PASS



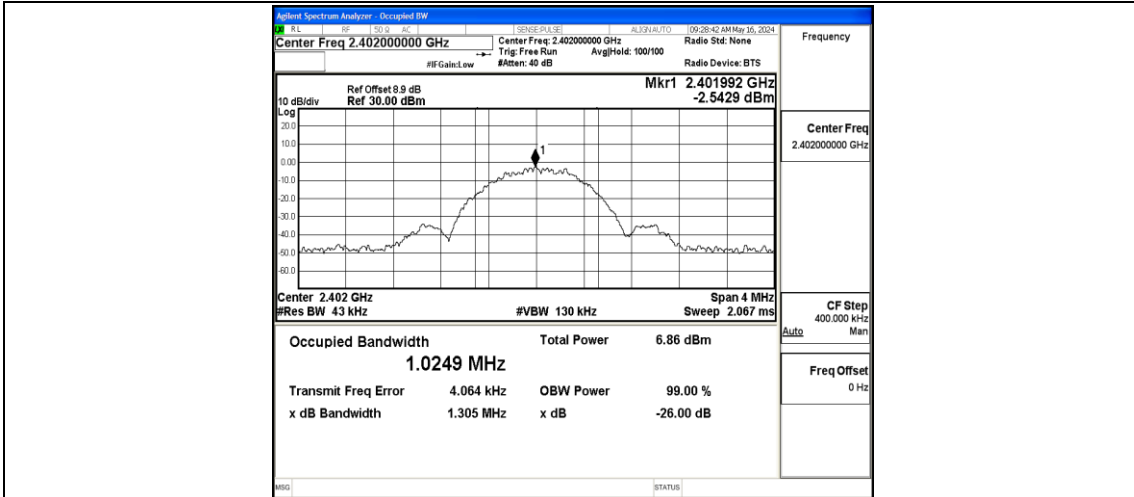
BLE\_1M-Ant1-2480-PASS

## Appendix B: Occupied Channel Bandwidth

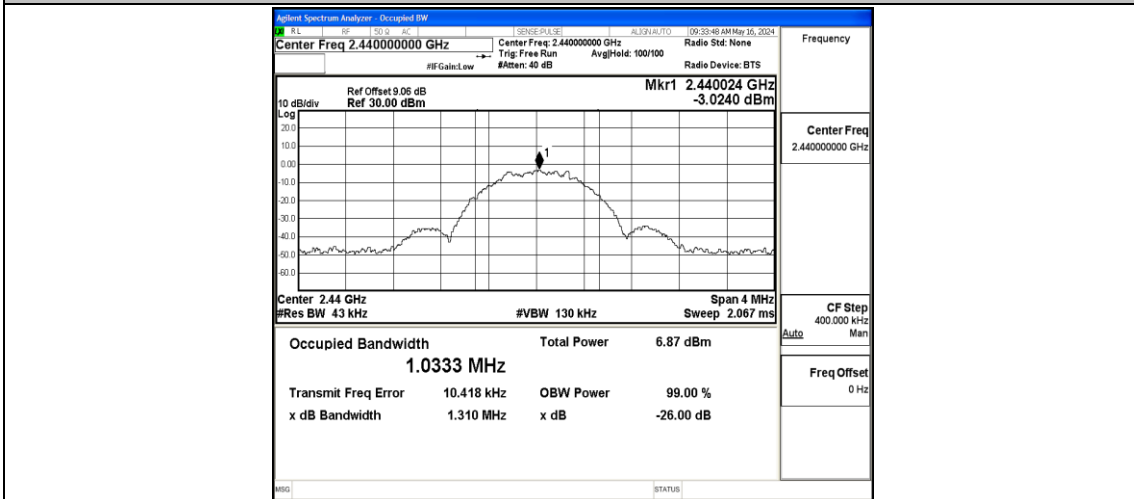
### Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0249	2401.4916	2402.5165	---	---
BLE_1M	Ant1	2440	1.0333	2439.4938	2440.5271	---	---
BLE_1M	Ant1	2480	1.0353	2479.4896	2480.5249	---	---

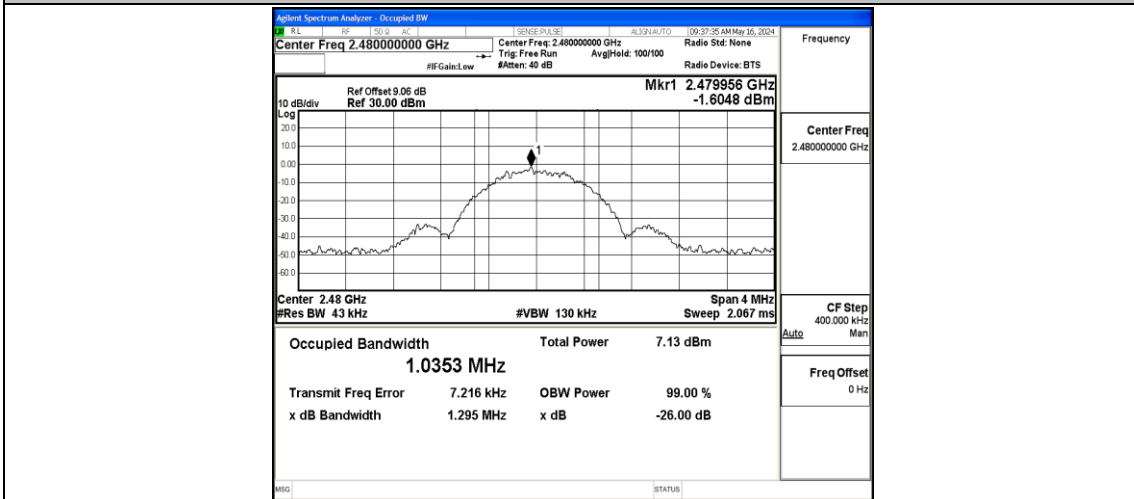
### Test Graphs



BLE\_1M-Ant1-2402



BLE\_1M-Ant1-2440



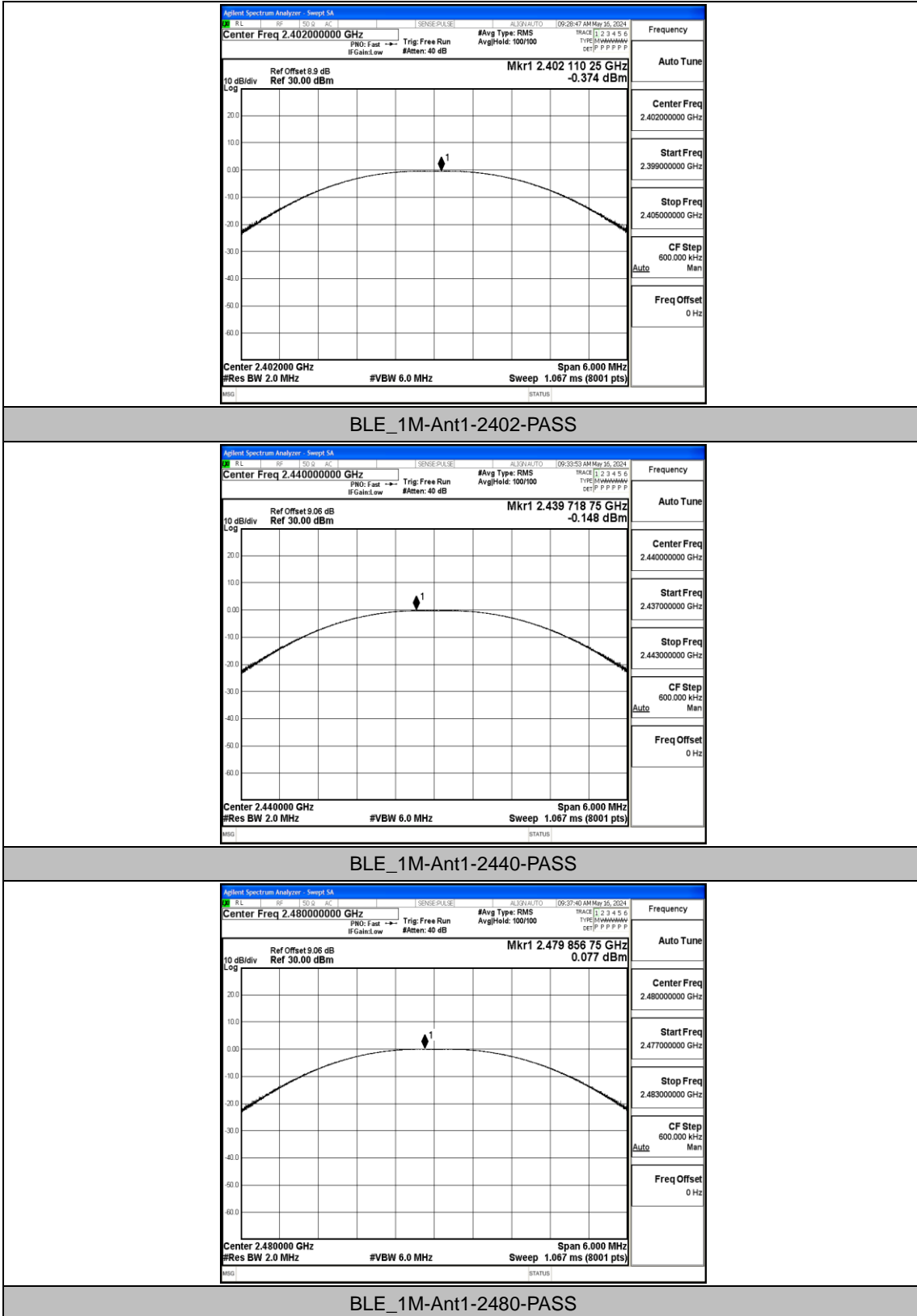
BLE\_1M-Ant1-2480

## Appendix C: Maximum peak conducted output power

### Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.37	≤30	PASS
BLE_1M	Ant1	2440	-0.15	≤30	PASS
BLE_1M	Ant1	2480	0.08	≤30	PASS

### Test Graphs Peak

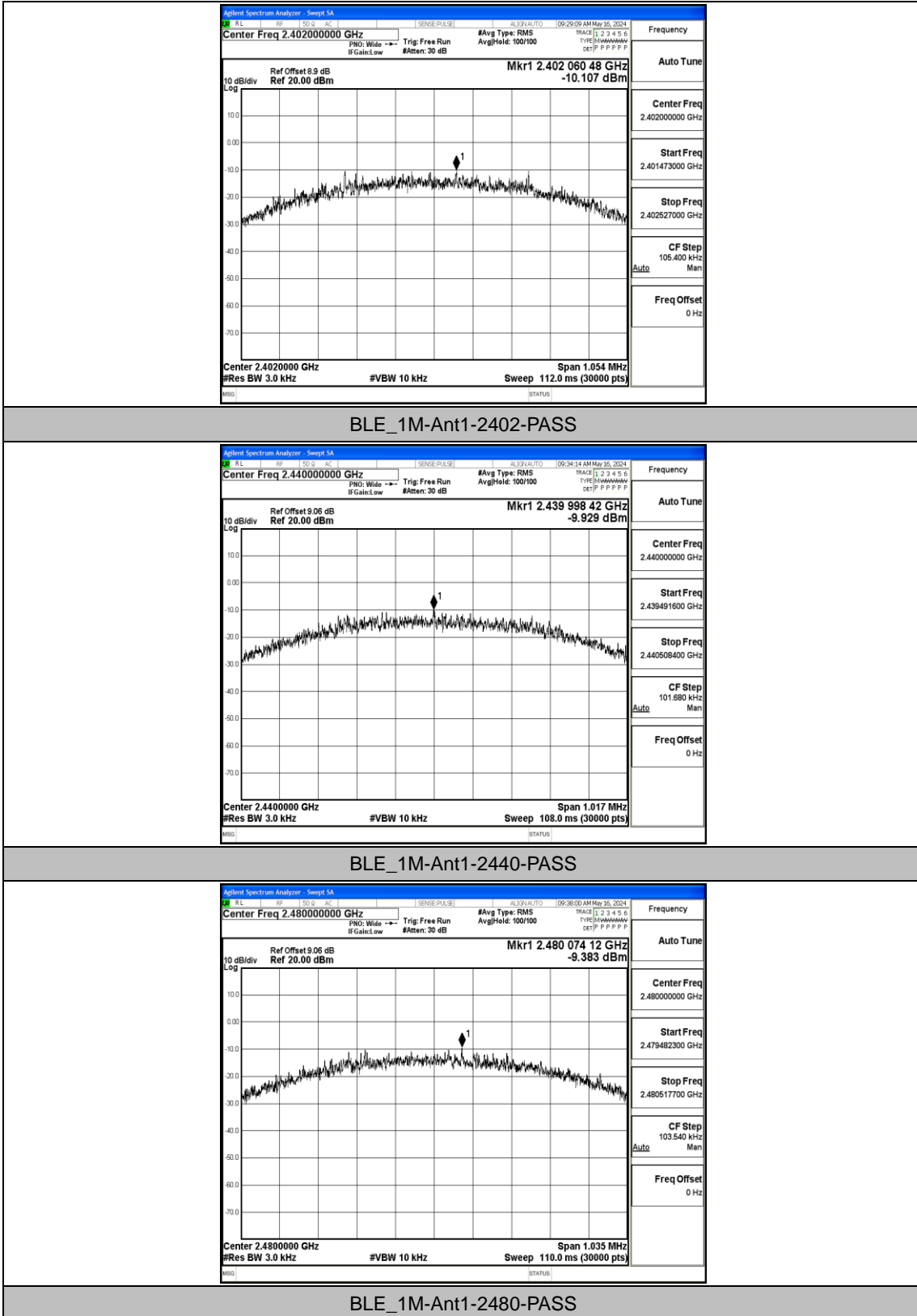


## Appendix D: Maximum peak power spectral density

### Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-10.11	≤8.00	PASS
BLE_1M	Ant1	2440	-9.93	≤8.00	PASS
BLE_1M	Ant1	2480	-9.38	≤8.00	PASS

### Test Graphs



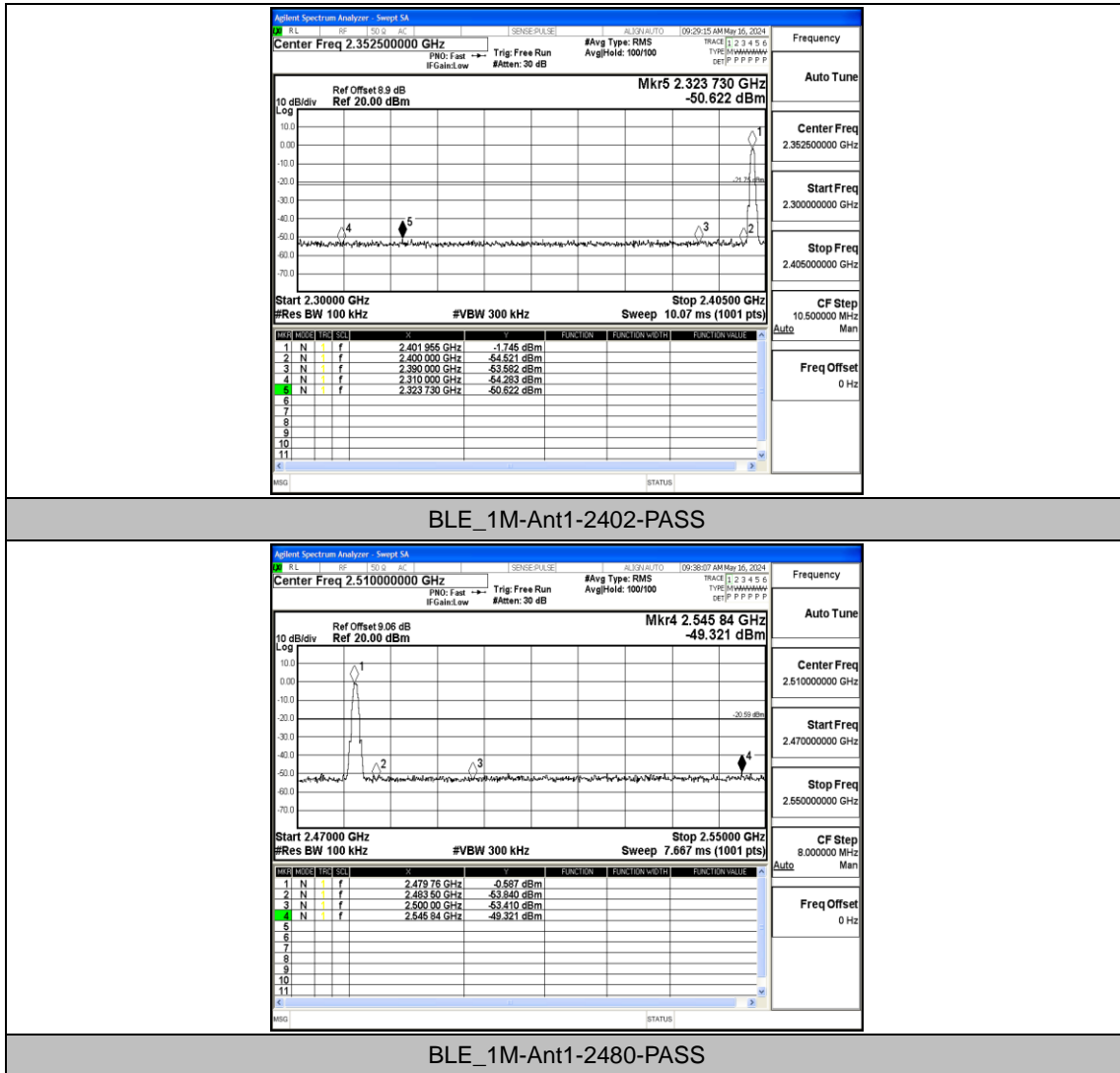


## Appendix E: Band edge measurements

### Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.75	-50.62	≤-21.75	PASS
BLE_1M	Ant1	High	2480	-0.59	-49.32	≤-20.59	PASS

### Test Graphs

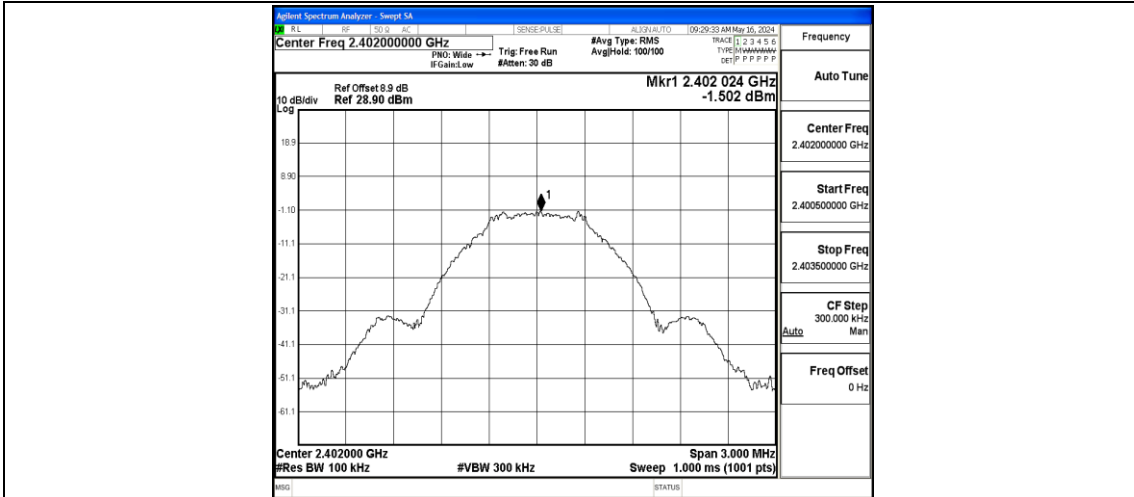


## Appendix F: Conducted Spurious Emission

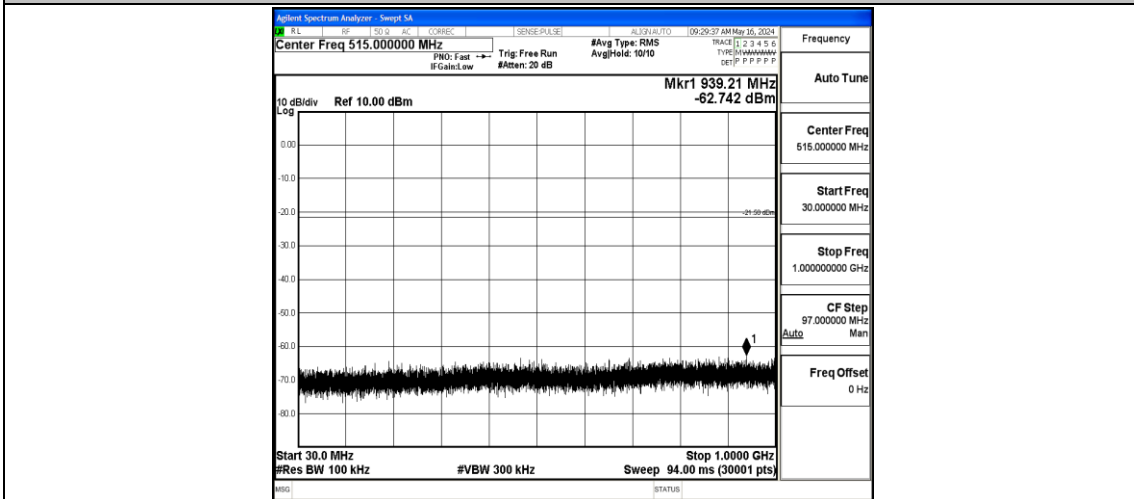
### Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-1.50	-1.50	---	PASS
BLE_1M	Ant1	2402	30~1000	-1.50	-62.74	≤-21.5	PASS
BLE_1M	Ant1	2402	1000~26500	-1.50	-49.87	≤-21.5	PASS
BLE_1M	Ant1	2440	0~Reference	-0.91	-0.91	---	PASS
BLE_1M	Ant1	2440	30~1000	-0.91	-63.13	≤-20.91	PASS
BLE_1M	Ant1	2440	1000~26500	-0.91	-50.4	≤-20.91	PASS
BLE_1M	Ant1	2480	0~Reference	-0.32	-0.32	---	PASS
BLE_1M	Ant1	2480	30~1000	-0.32	-62.45	≤-20.32	PASS
BLE_1M	Ant1	2480	1000~26500	-0.32	-50.82	≤-20.32	PASS

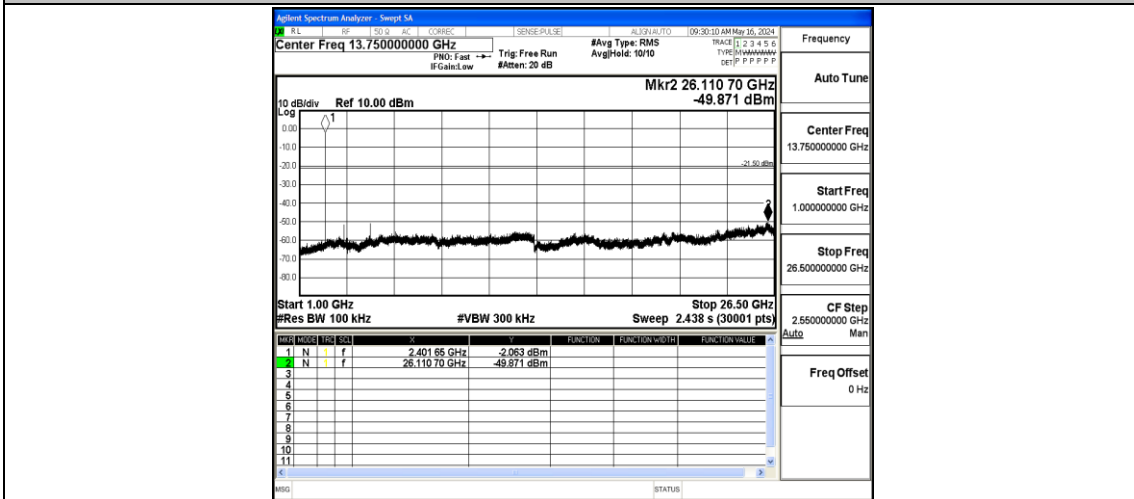
### Test Graphs



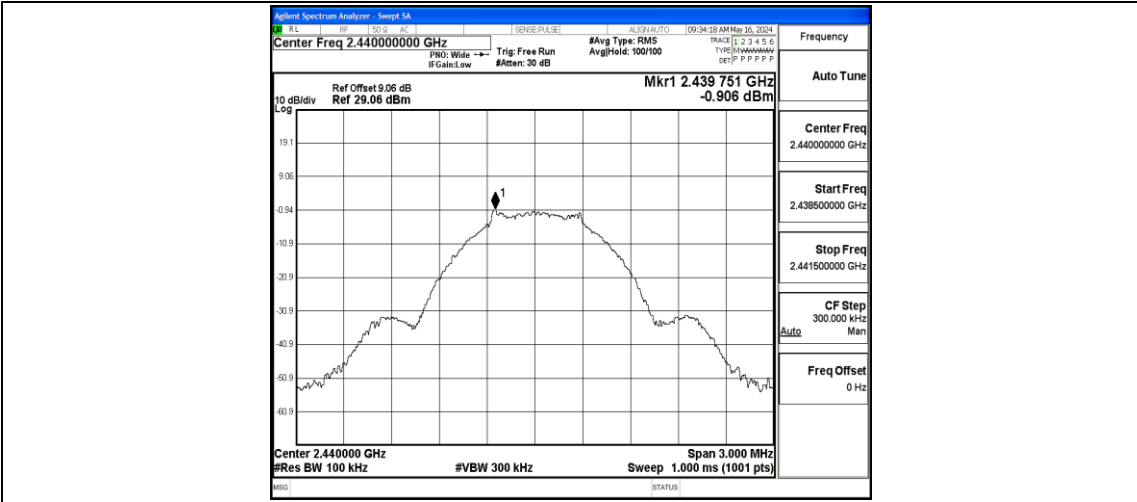
BLE\_1M-Ant1-2402-0-Reference-PASS



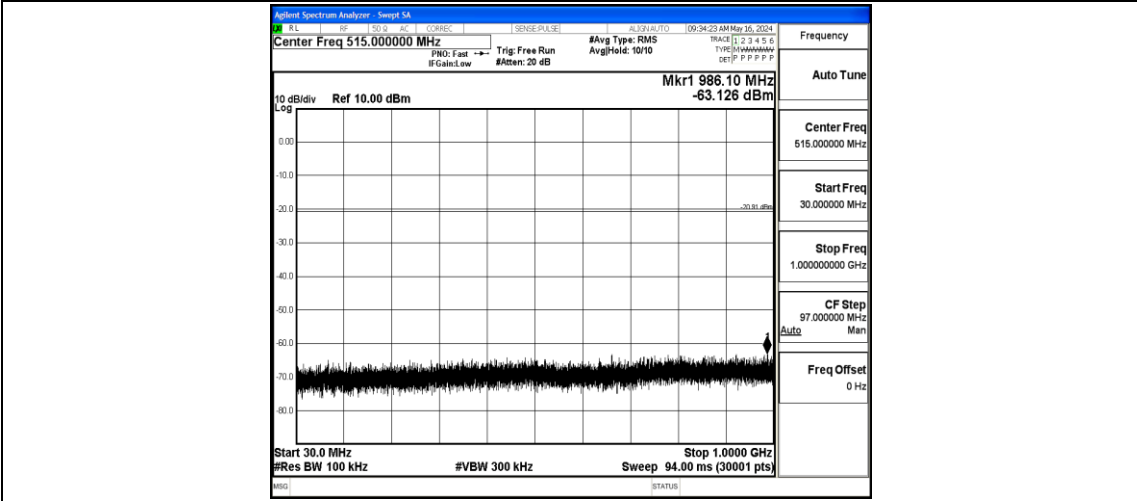
BLE\_1M-Ant1-2402-30-1000-PASS



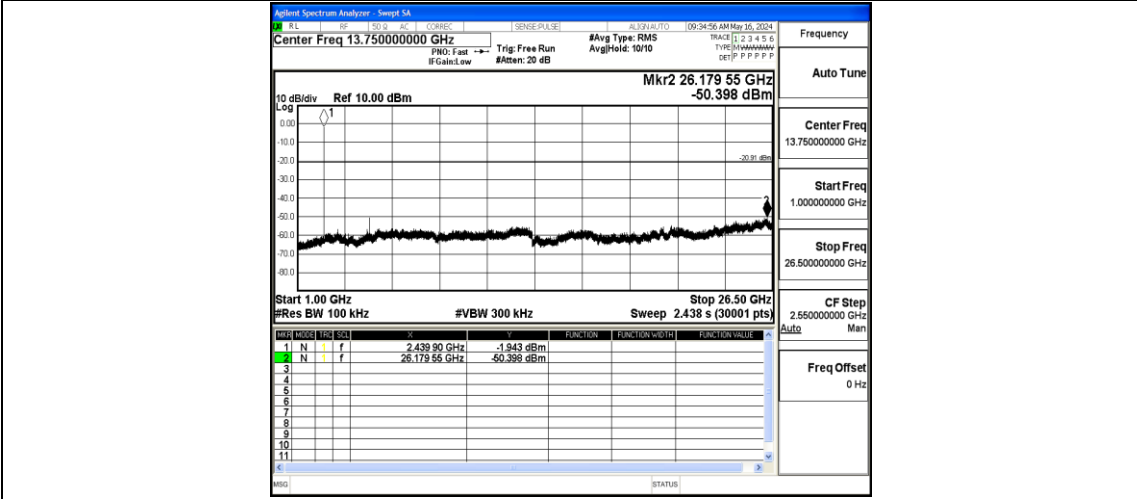
BLE\_1M-Ant1-2402-1000-26500-PASS



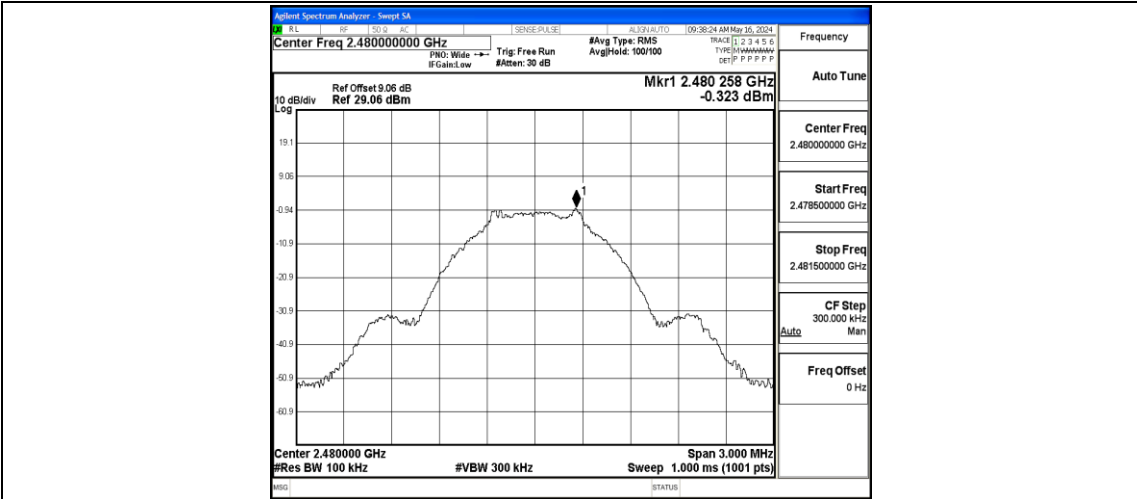
BLE\_1M-Ant1-2440-0~Reference-PASS



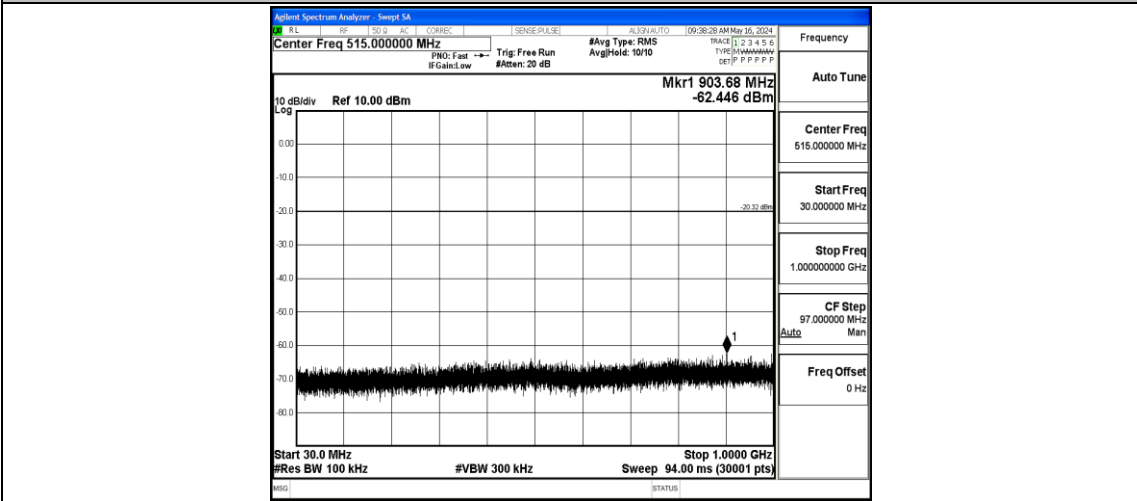
BLE\_1M-Ant1-2440-30~1000-PASS



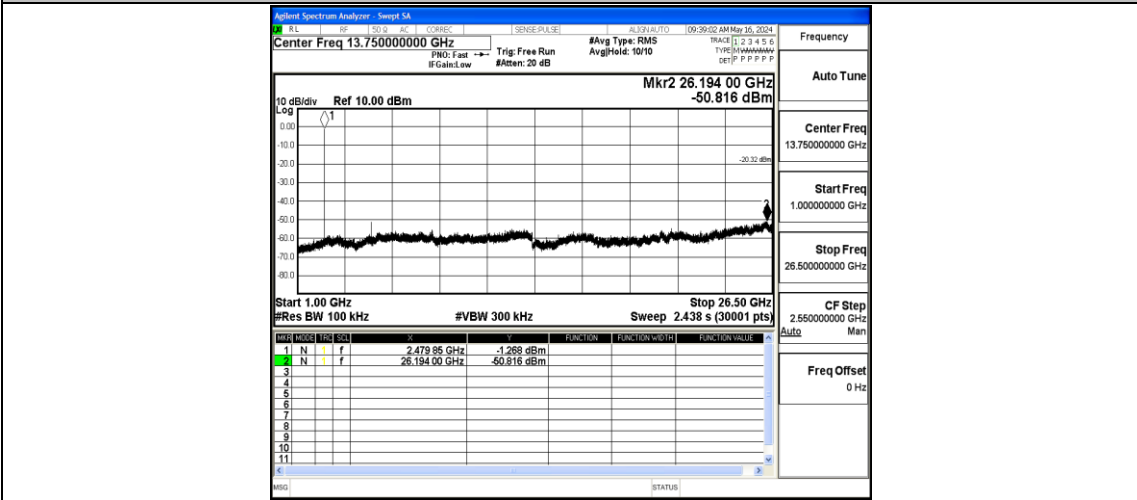
BLE\_1M-Ant1-2440-1000~26500-PASS



BLE\_1M-Ant1-2480~Reference-PASS



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



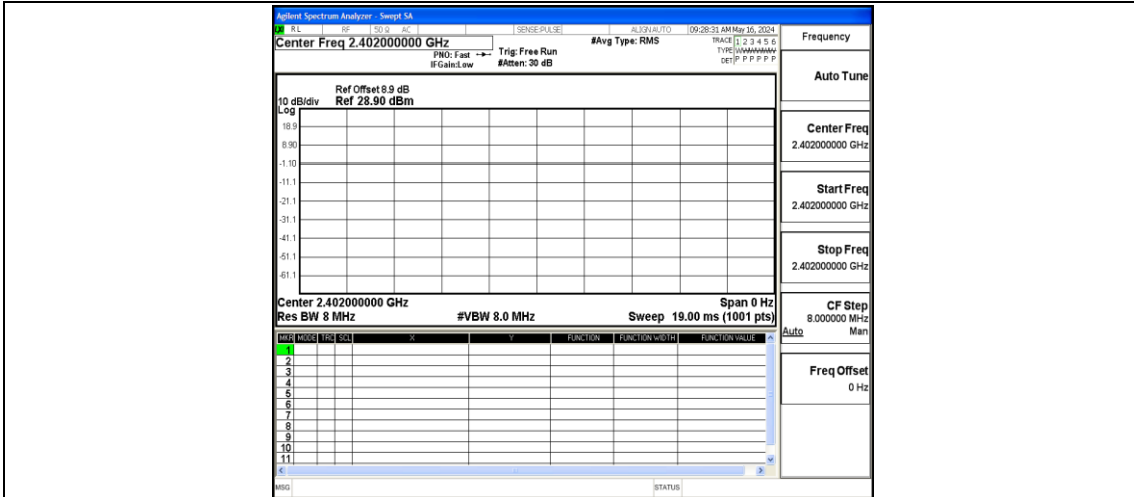
BLE\_1M-Ant1-2480~1000~26500-PASS

## Appendix G: Duty Cycle

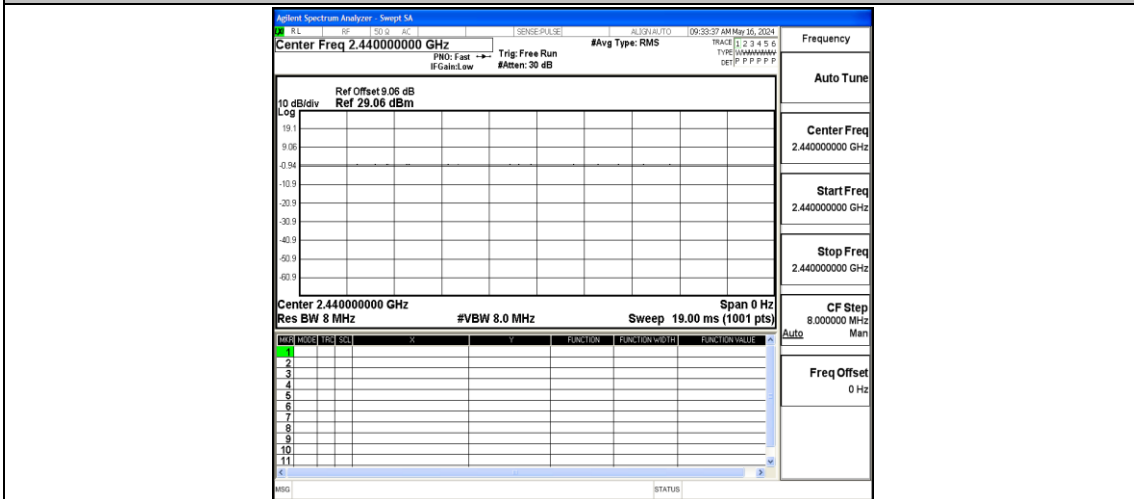
### Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	19.00	19.00	100.00	0.00
BLE_1M	Ant1	2440	19.00	19.00	100.00	0.00
BLE_1M	Ant1	2480	19.00	19.00	100.00	0.00

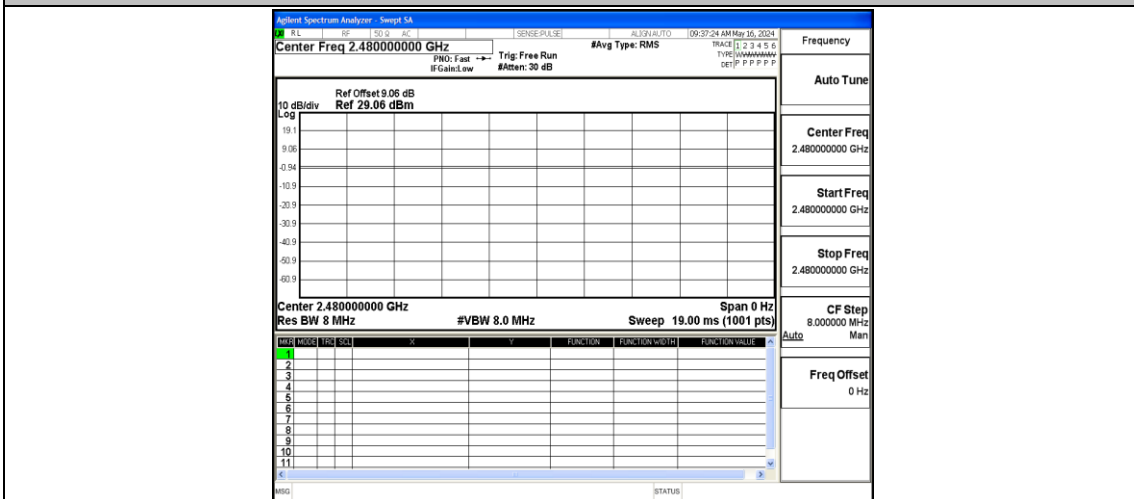
### Test Graphs



NTNV-BLE\_1M-Ant1-2402



NTNV-BLE\_1M-Ant1-2440



NTNV-BLE\_1M-Ant1-2480