

Appendix Test Data for BLE (Conducted Measurement)

Product Name: Label Printer

Trade Mark: MakeID

Test Model: D50

FCC ID: 2BLKN-D50

Environmental Conditions

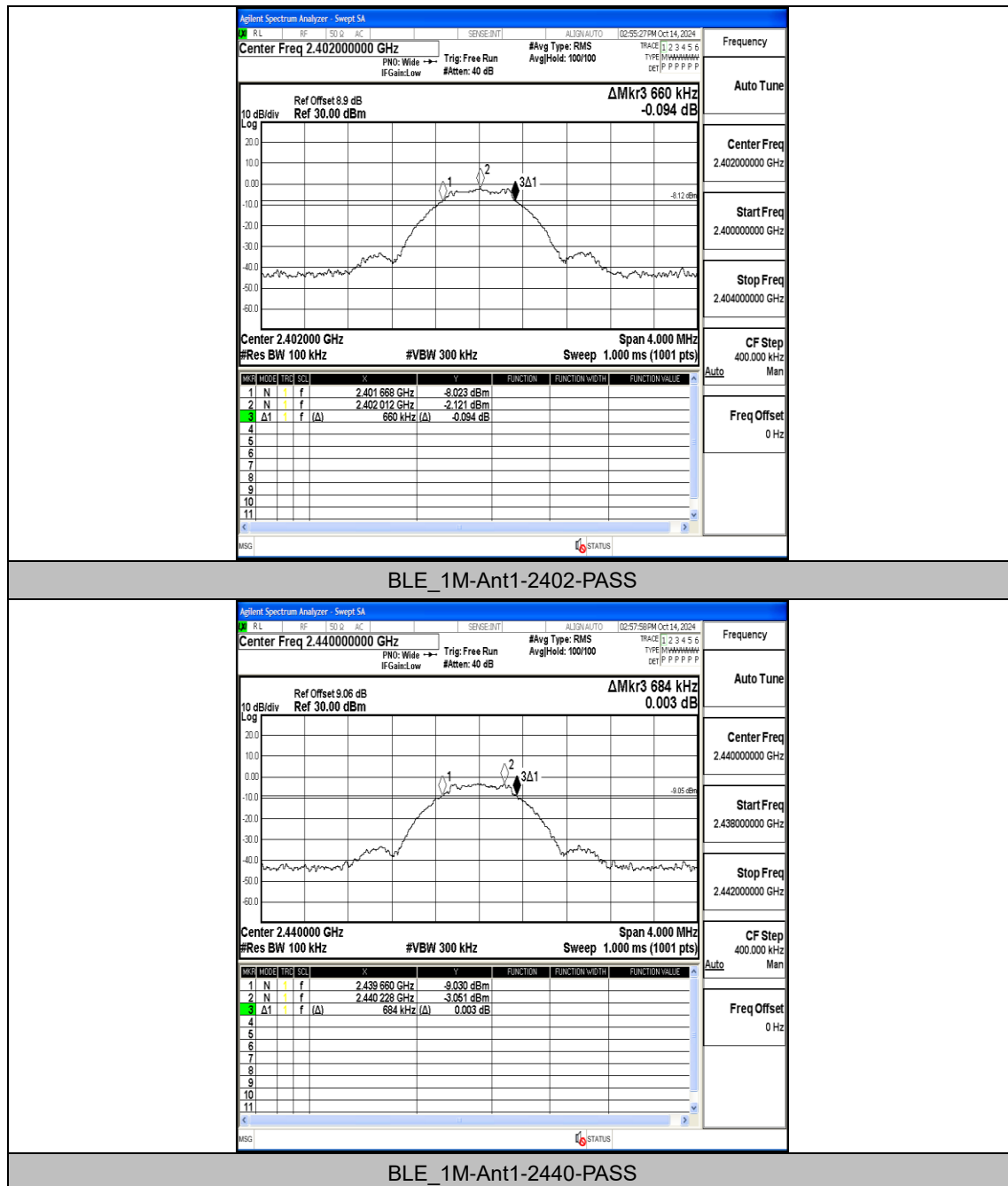
Temperature:	23.8℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

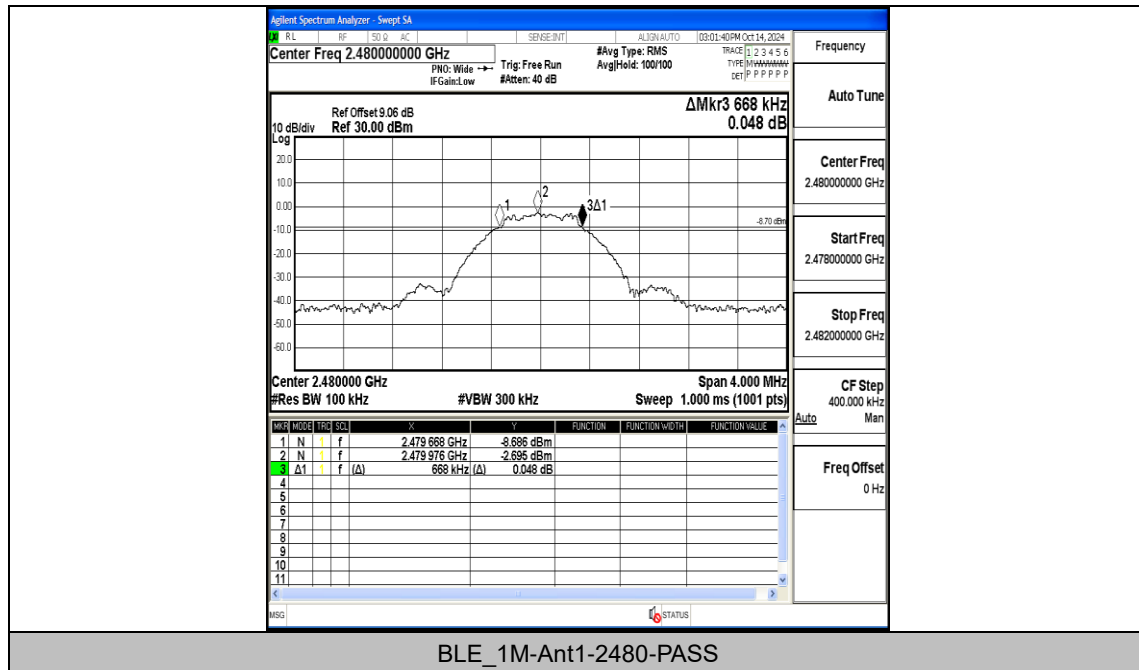
Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	0.660	2401.668	2402.328	0.5	PASS
BLE_1M	Ant1	2440	0.684	2439.660	2440.344	0.5	PASS
BLE_1M	Ant1	2480	0.668	2479.668	2480.336	0.5	PASS

Test Graphs



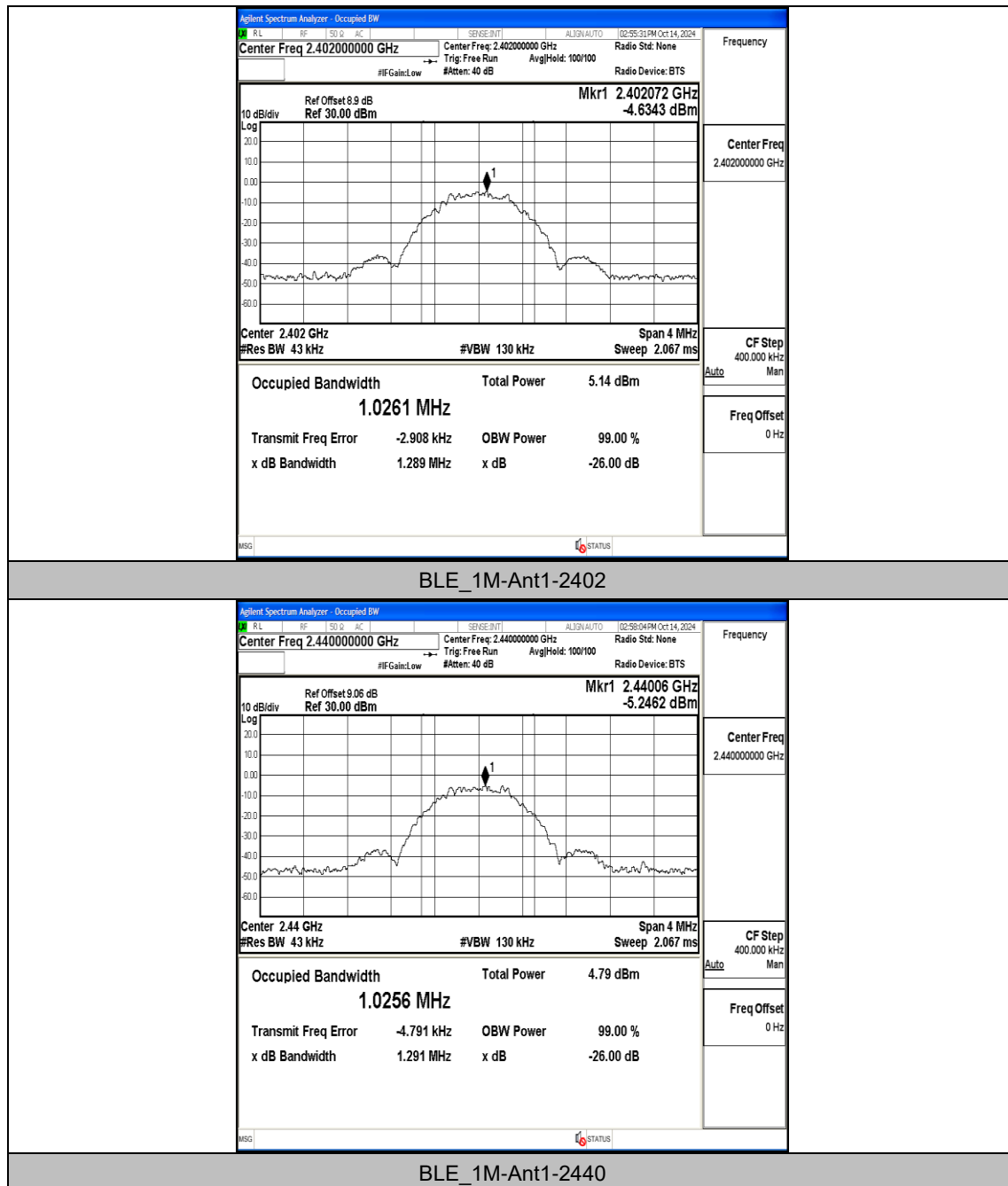


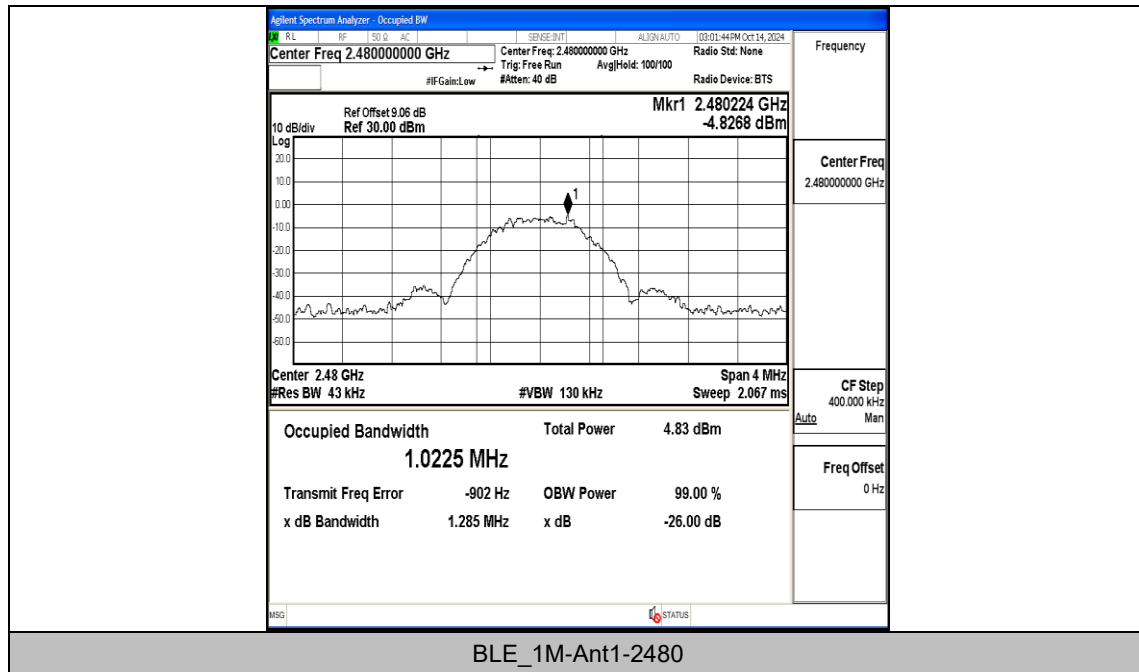
Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	1.0261	2401.4840	2402.5101	---	---
BLE_1M	Ant1	2440	1.0256	2439.4824	2440.5080	---	---
BLE_1M	Ant1	2480	1.0225	2479.4879	2480.5104	---	---

Test Graphs



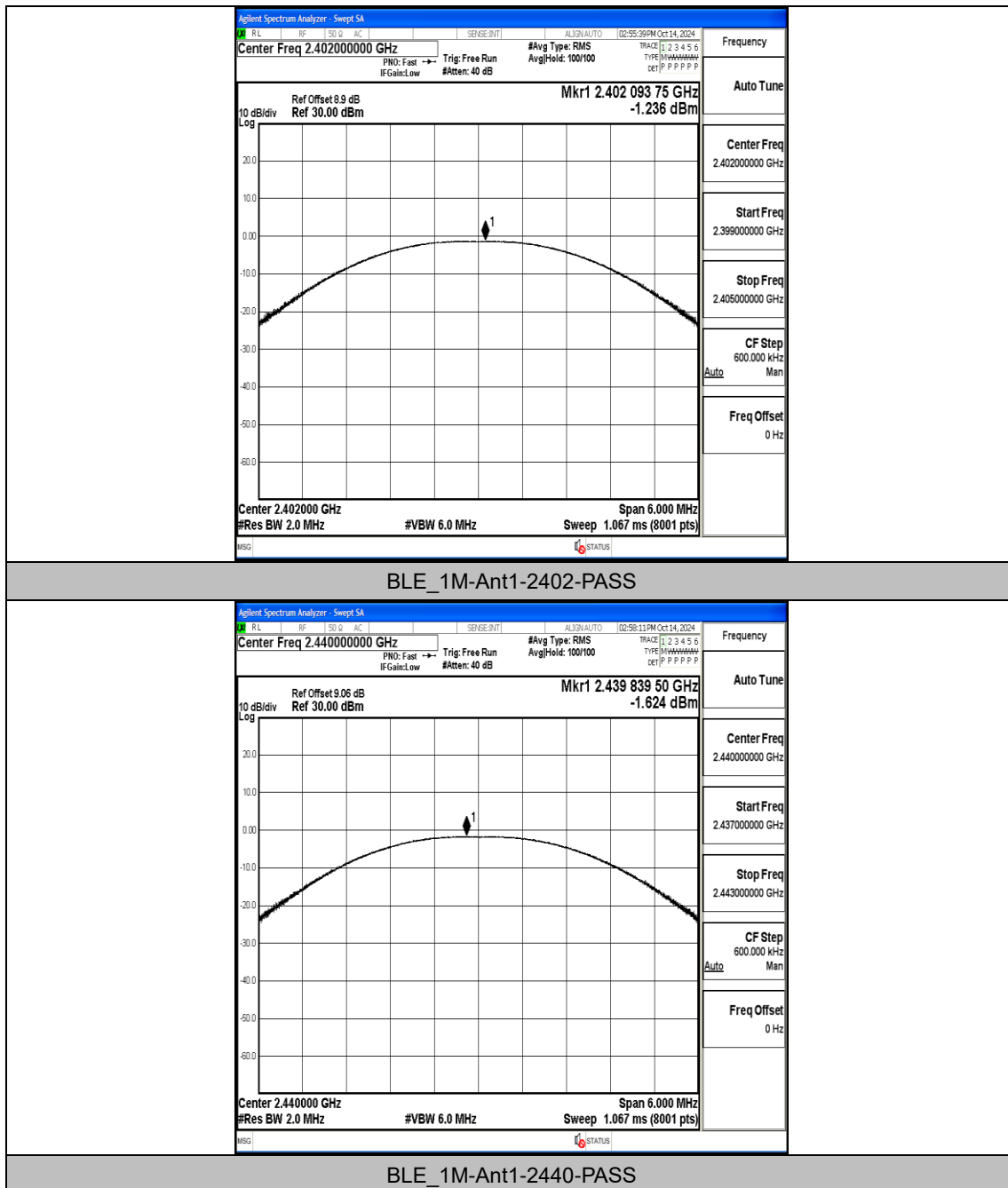


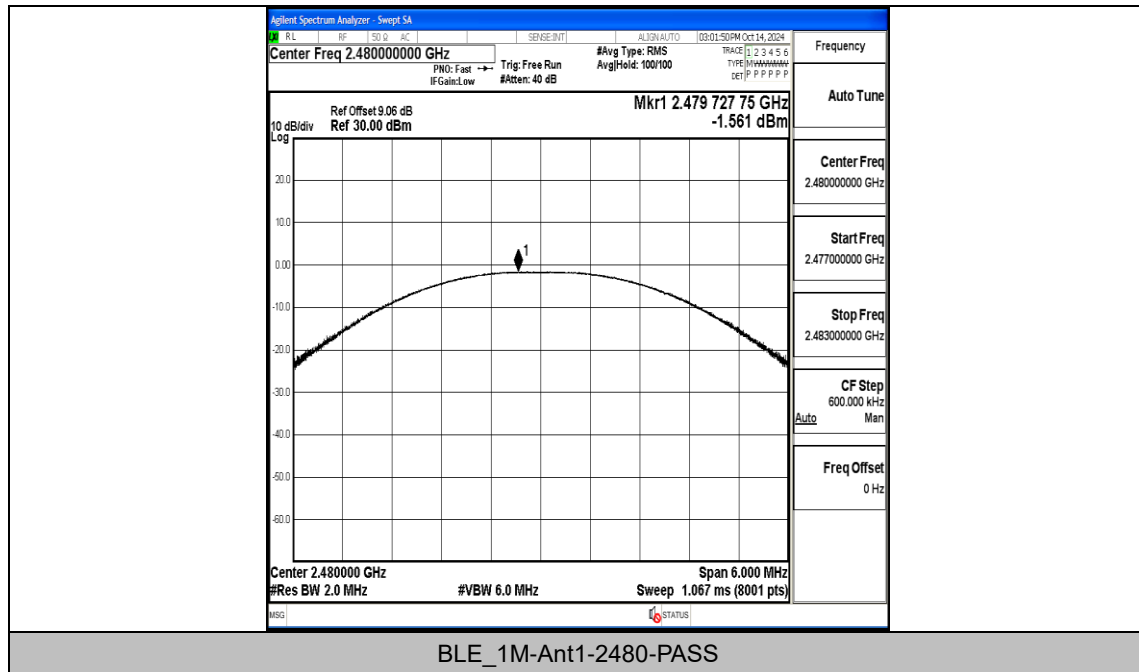
Appendix C: Maximum peak conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
BLE_1M	Ant1	2402	-1.24	≤30	PASS
BLE_1M	Ant1	2440	-1.62	≤30	PASS
BLE_1M	Ant1	2480	-1.56	≤30	PASS

Test Graphs Peak



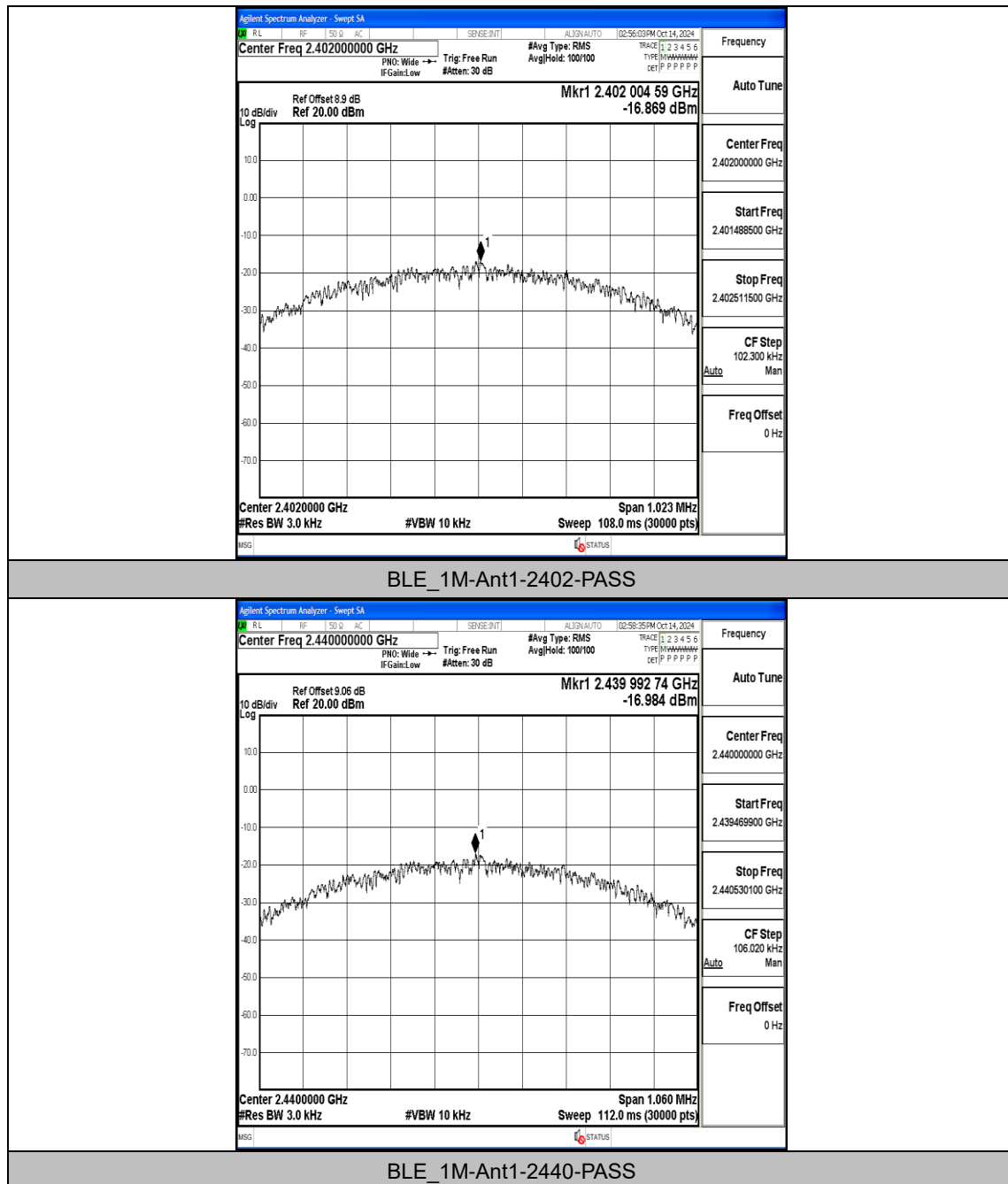


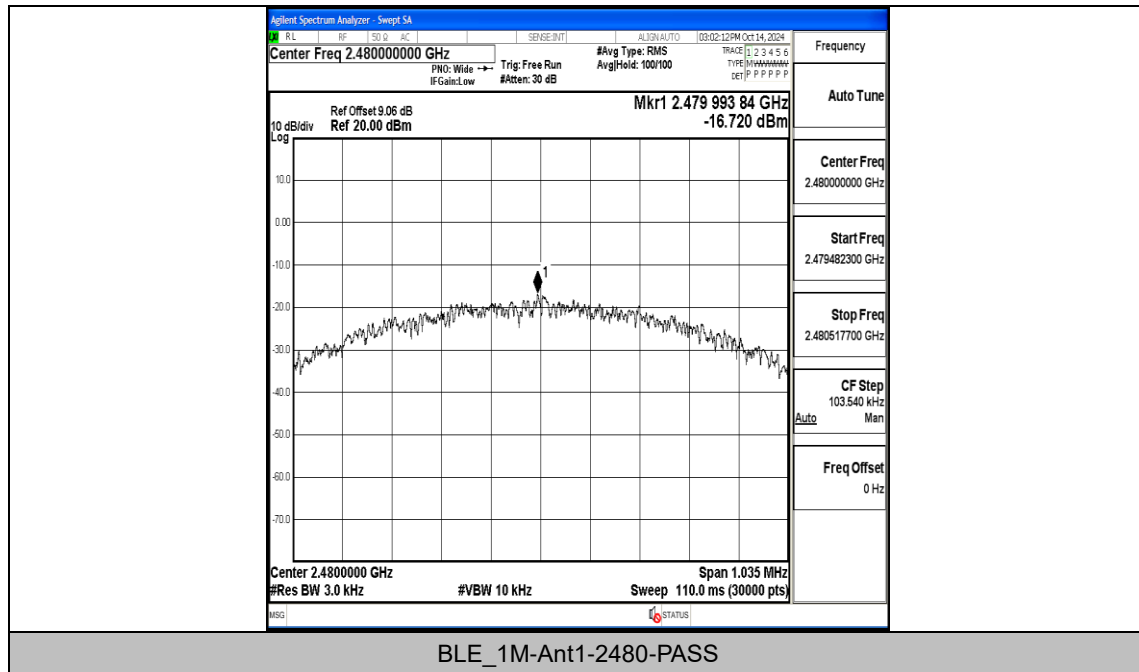
Appendix D: Maximum peak power spectral density

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-16.87	≤8.00	PASS
BLE_1M	Ant1	2440	-16.98	≤8.00	PASS
BLE_1M	Ant1	2480	-16.72	≤8.00	PASS

Test Graphs



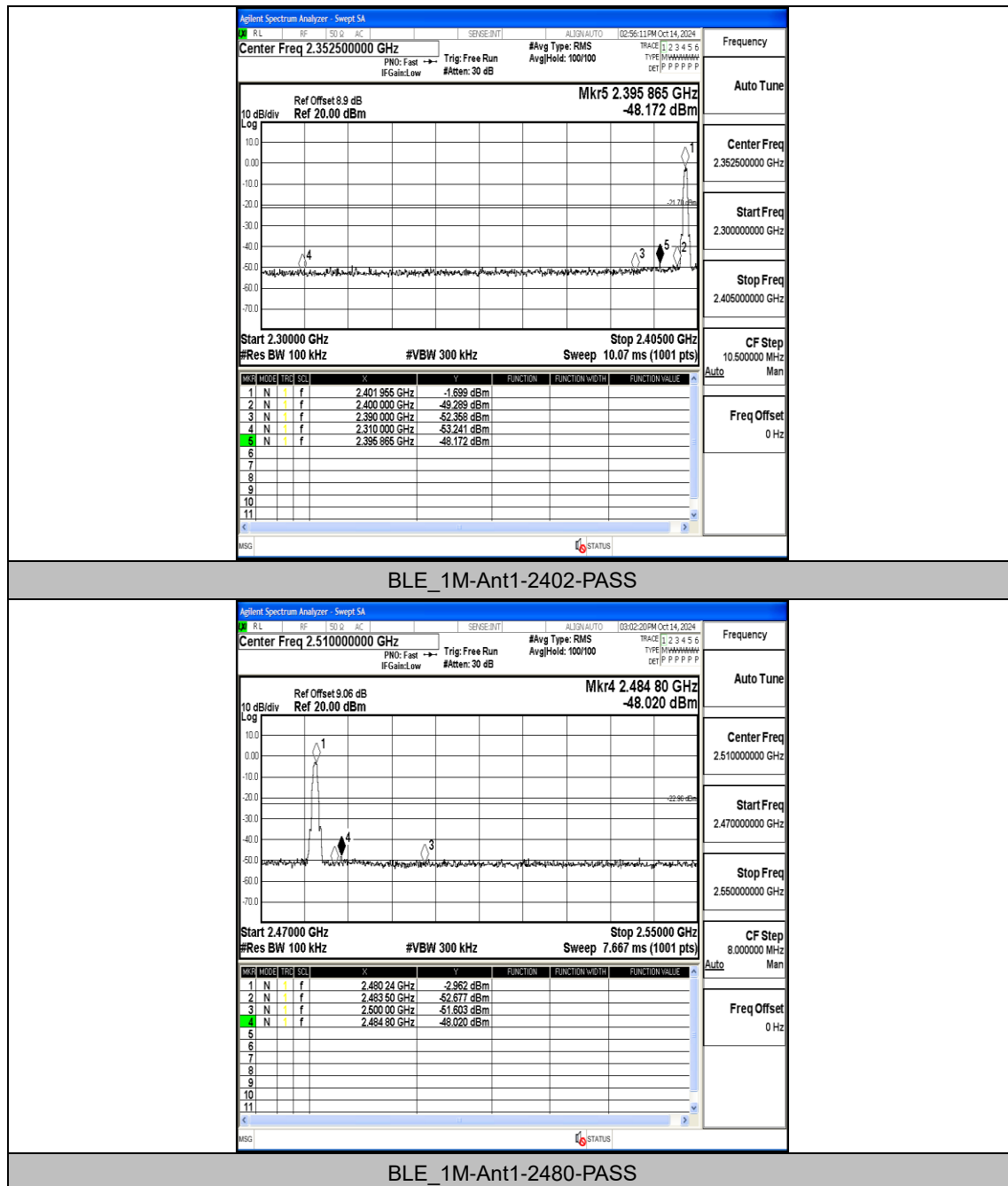


Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.70	-48.17	≤ -21.7	PASS
BLE_1M	Ant1	High	2480	-2.96	-48.02	≤ -22.96	PASS

Test Graphs

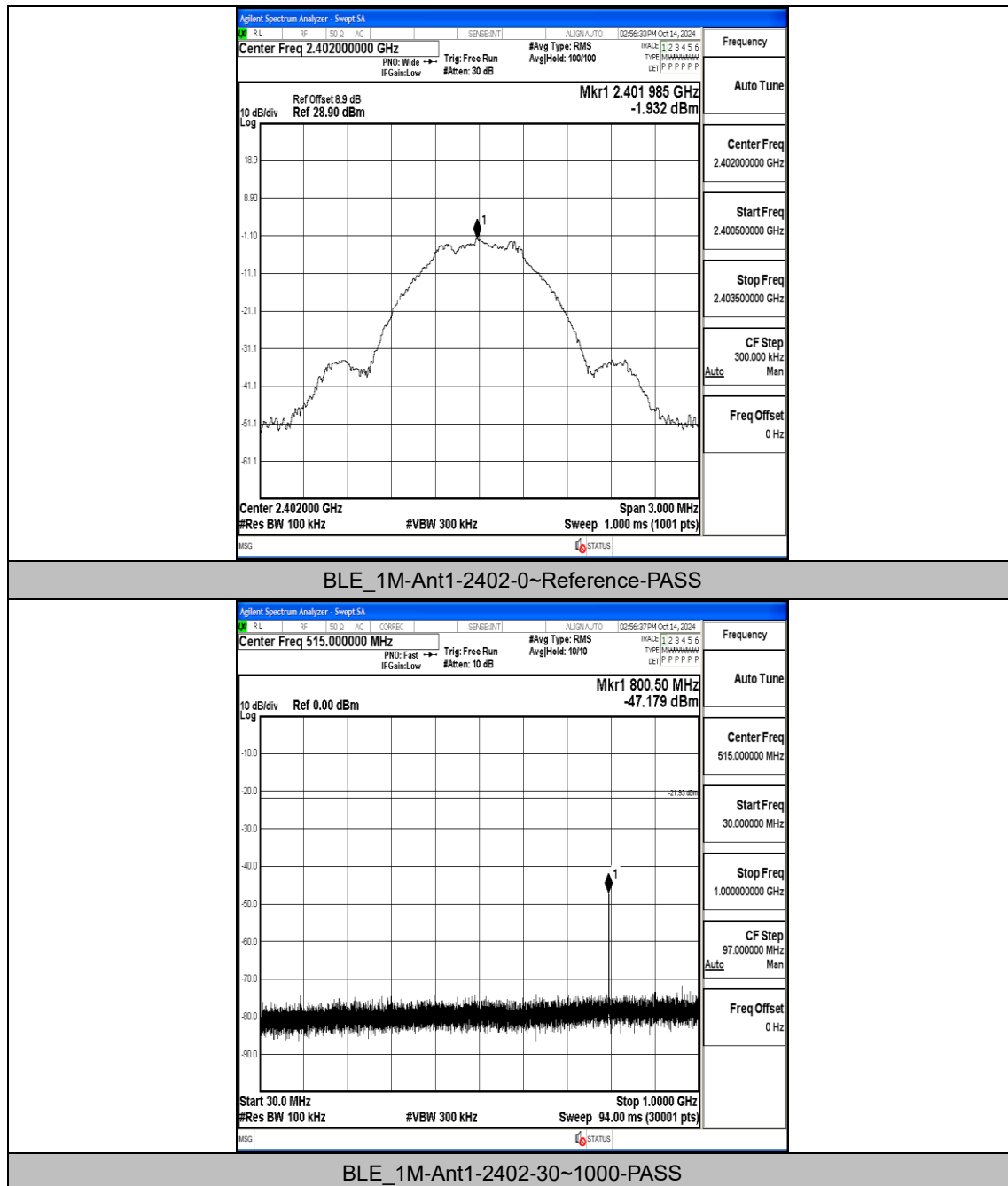


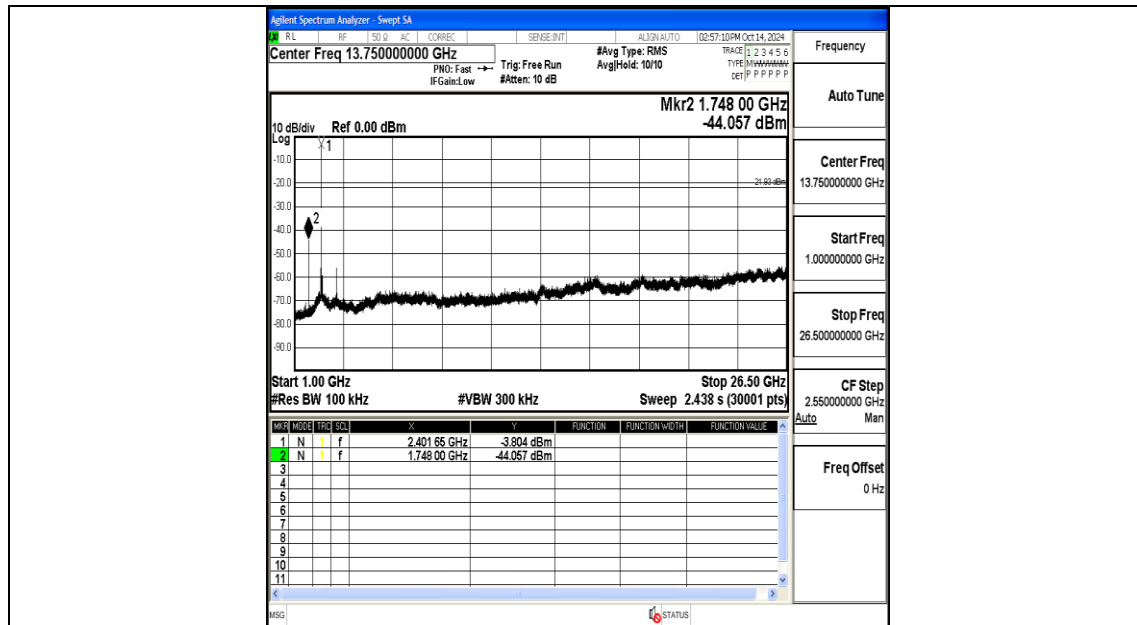
Appendix F: Conducted Spurious Emission

Test Result

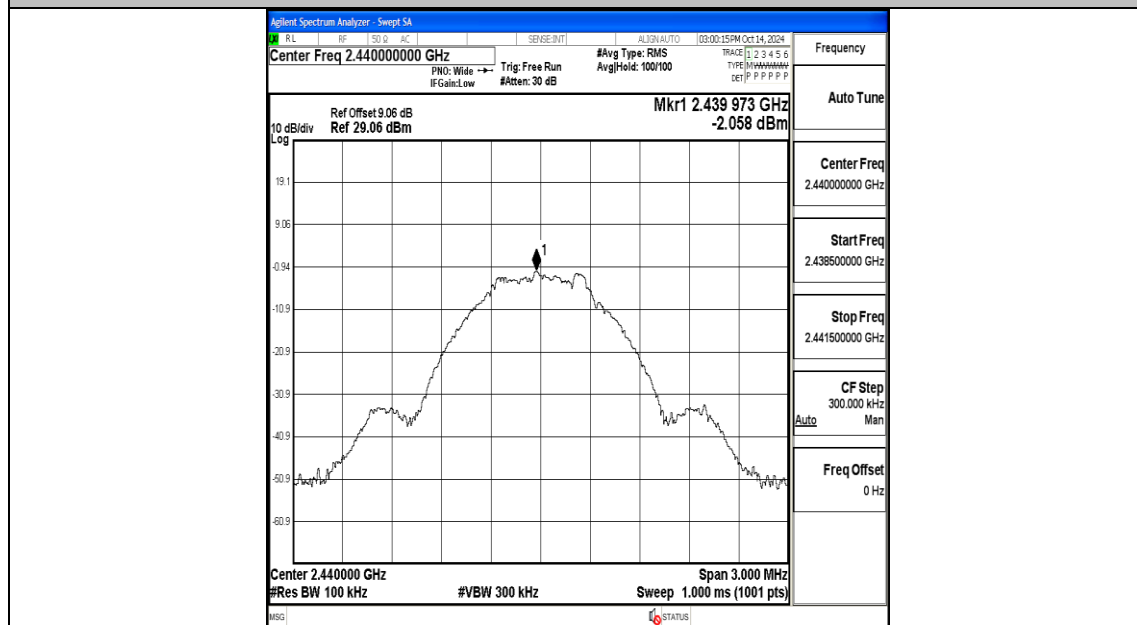
Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-1.93	-1.93	---	PASS
BLE_1M	Ant1	2402	30~1000	-1.93	-47.18	≤ -21.93	PASS
BLE_1M	Ant1	2402	1000~26500	-1.93	-44.06	≤ -21.93	PASS
BLE_1M	Ant1	2440	0~Reference	-2.06	-2.06	---	PASS
BLE_1M	Ant1	2440	30~1000	-2.06	-45.58	≤ -22.06	PASS
BLE_1M	Ant1	2440	1000~26500	-2.06	-55.33	≤ -22.06	PASS
BLE_1M	Ant1	2480	0~Reference	-2.19	-2.19	---	PASS
BLE_1M	Ant1	2480	30~1000	-2.19	-45.49	≤ -22.19	PASS
BLE_1M	Ant1	2480	1000~26500	-2.19	-54.57	≤ -22.19	PASS

Test Graphs

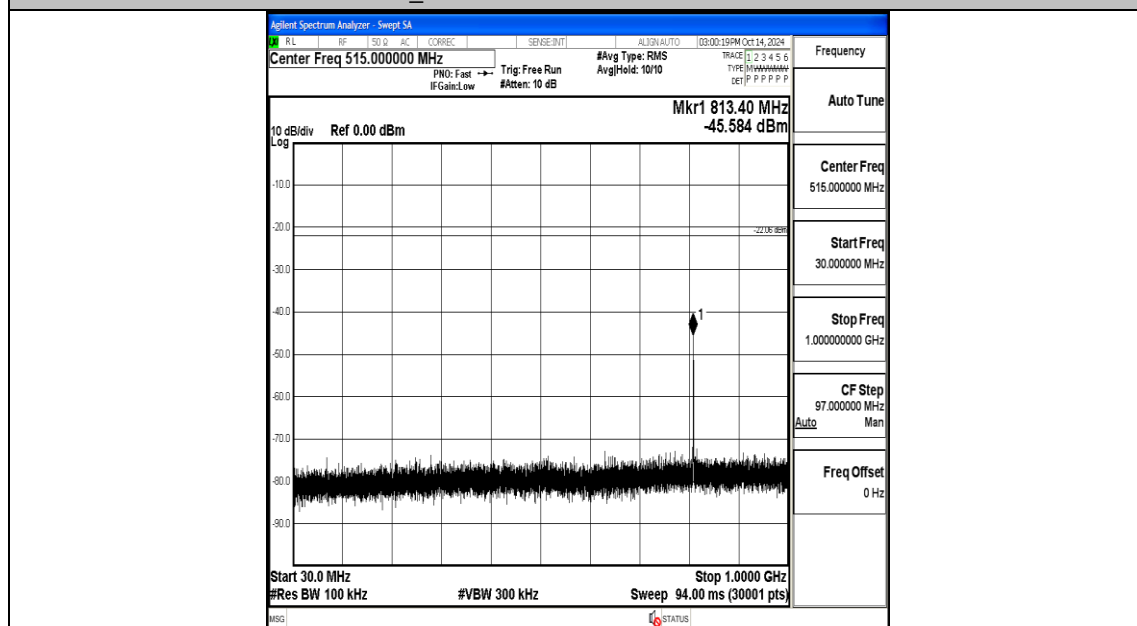




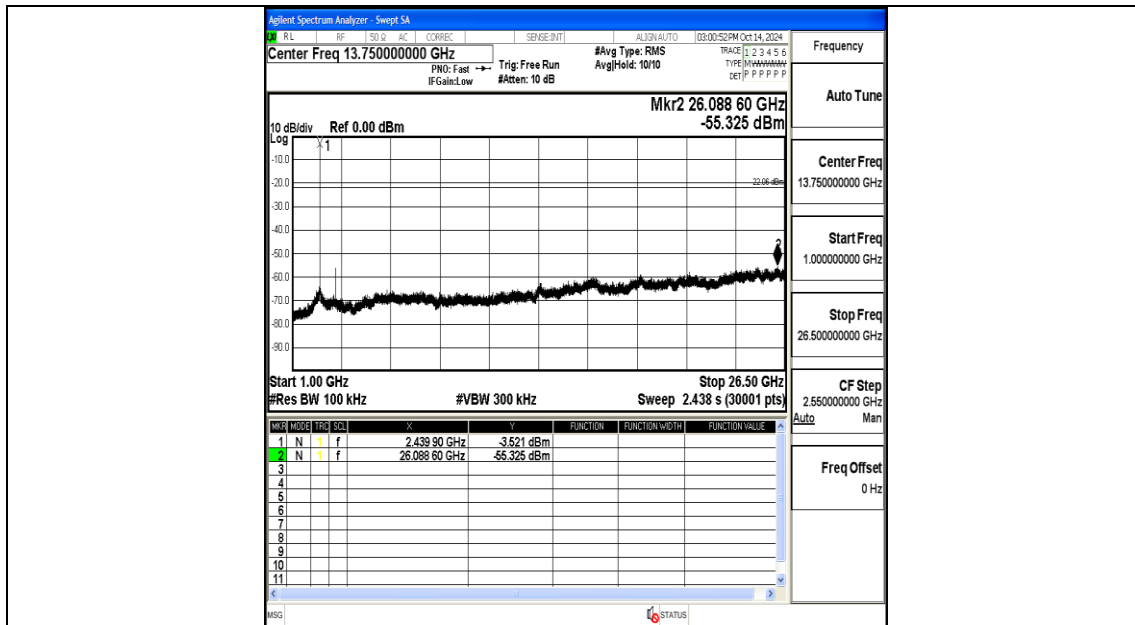
BLE_1M-Ant1-2402-1000~26500-PASS



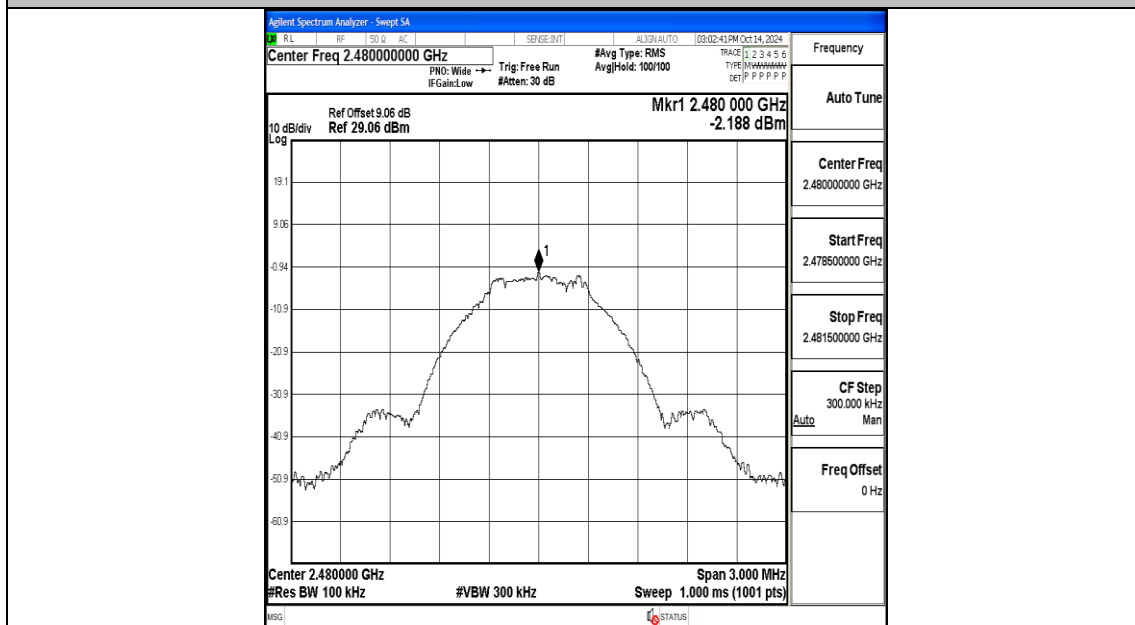
BLE_1M-Ant1-2440-0~Reference-PASS



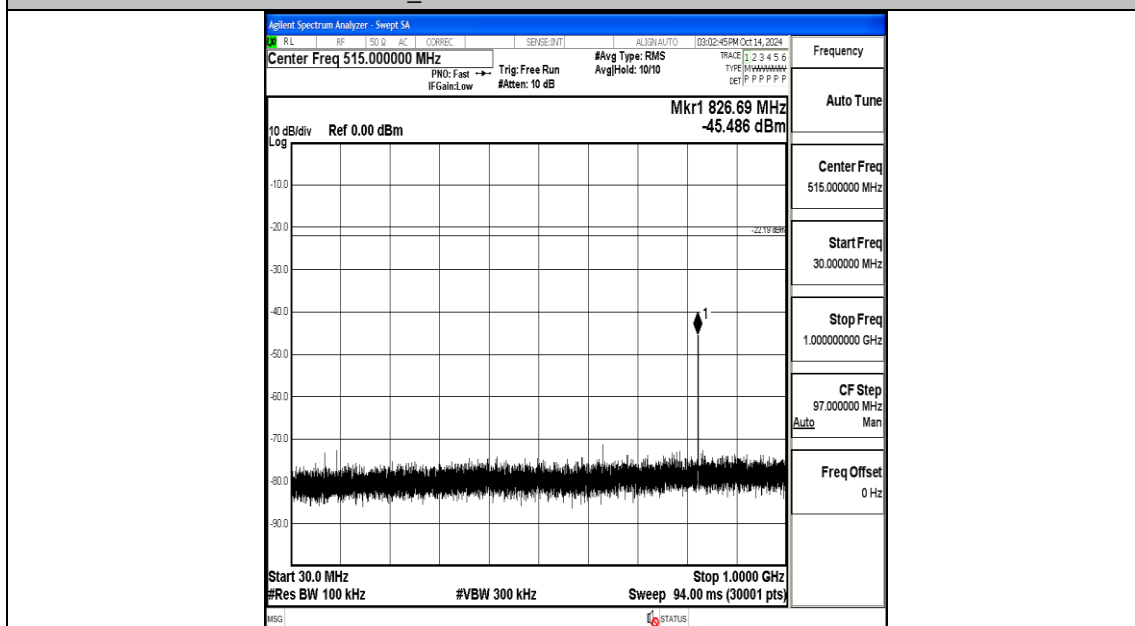
BLE_1M-Ant1-2440-30~1000-PASS



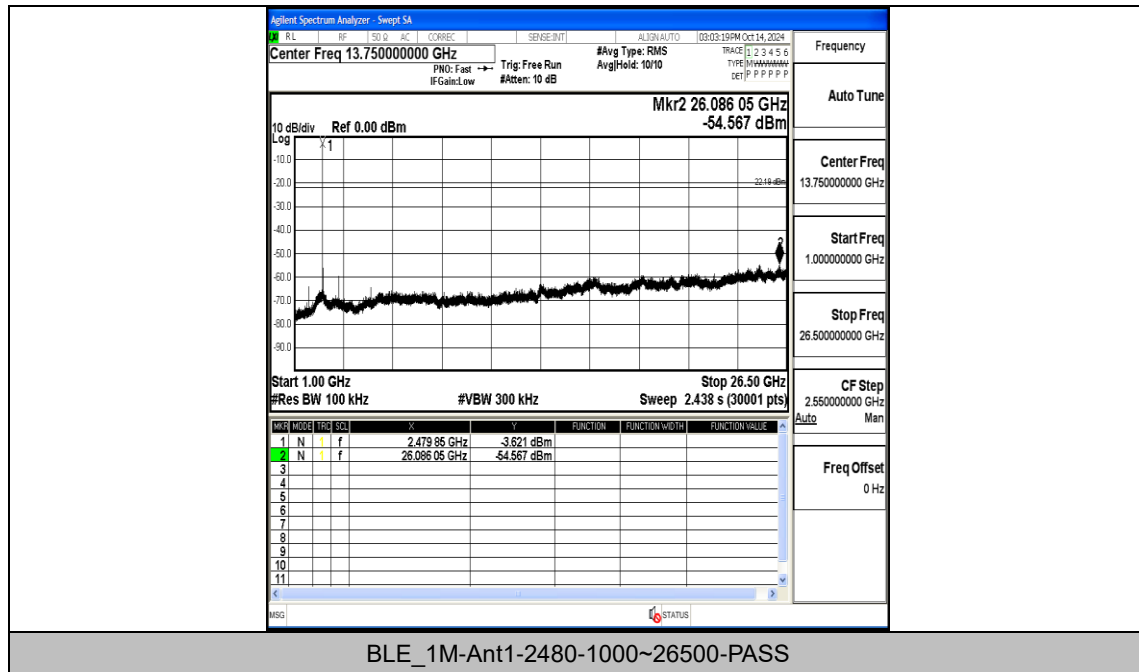
BLE_1M-Ant1-2440-1000~26500-PASS



BLE_1M-Ant1-2480-0~Reference-PASS



BLE_1M-Ant1-2480-30~1000-PASS



Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor [dB]
BLE_1M	Ant1	2402	2.10	2.50	84.00	0.76
BLE_1M	Ant1	2440	2.09	2.50	83.60	0.78
BLE_1M	Ant1	2480	2.10	2.50	84.00	0.76

Test Graphs

