

Appendix Test Data for BLE (Conducted Measurement)

Product Name: Wireless Keyboard

Trade Mark: Keychron

Test Model: K1

FCC ID: 2BGKB-K1

Environmental Conditions

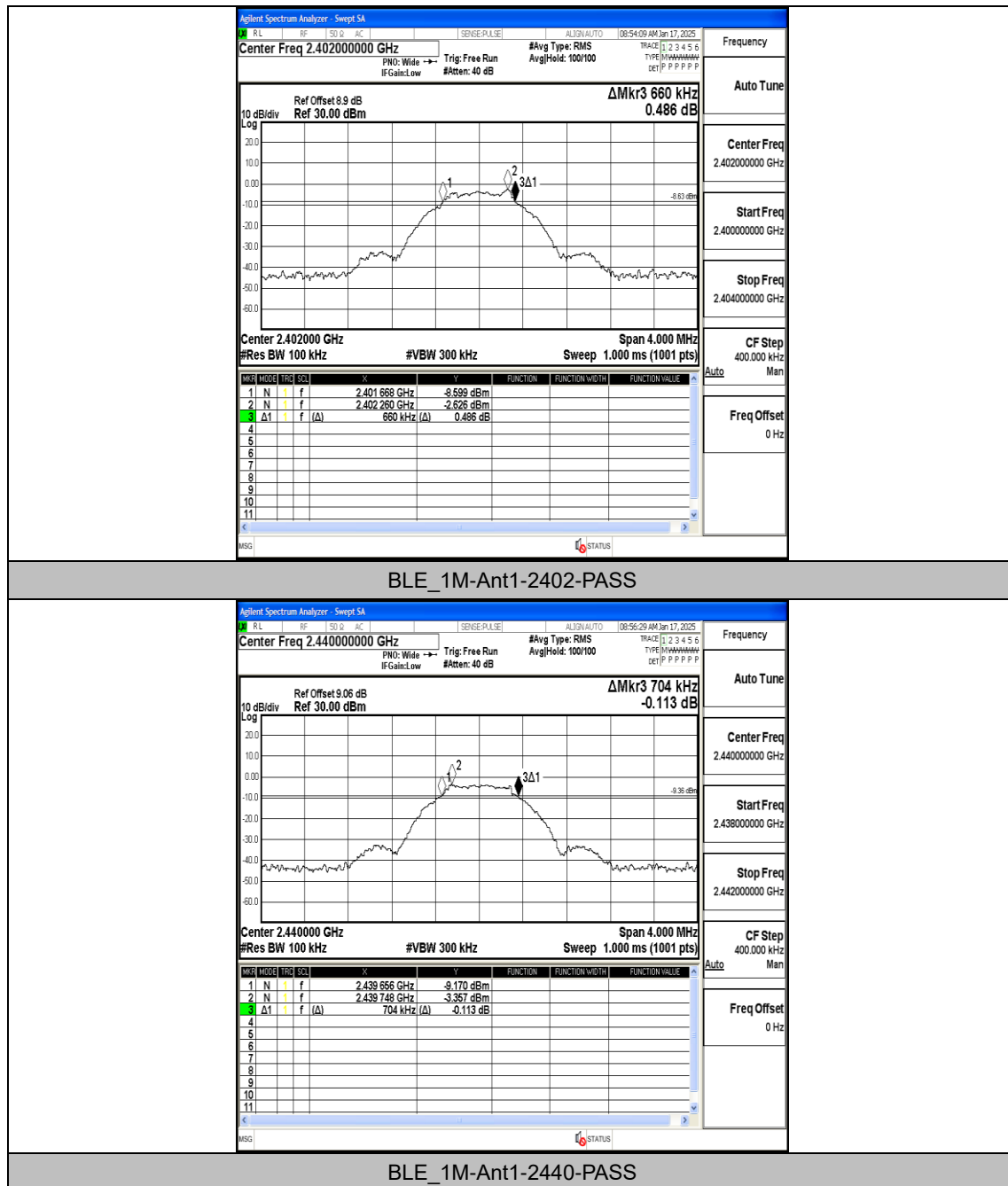
Temperature:	23.5℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

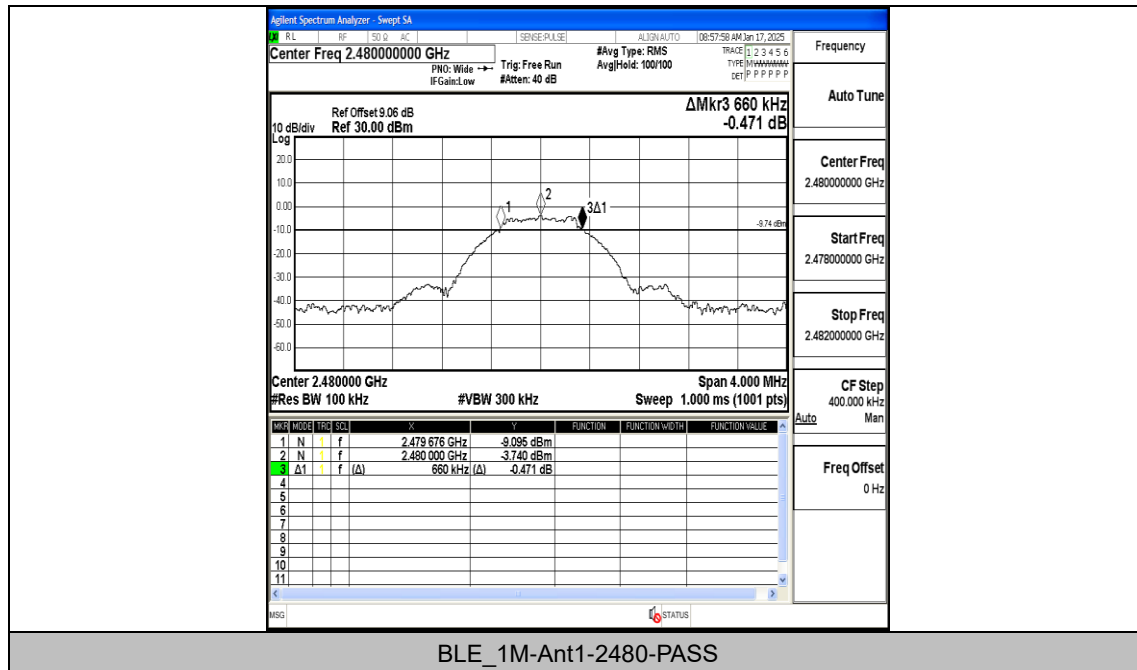
Appendix A: DTS Bandwidth

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	0.704	2439.656	2440.360	0.5	PASS
BLE_1M	Ant1	2480	0.660	2479.676	2480.336	0.5	PASS

Test Graphs



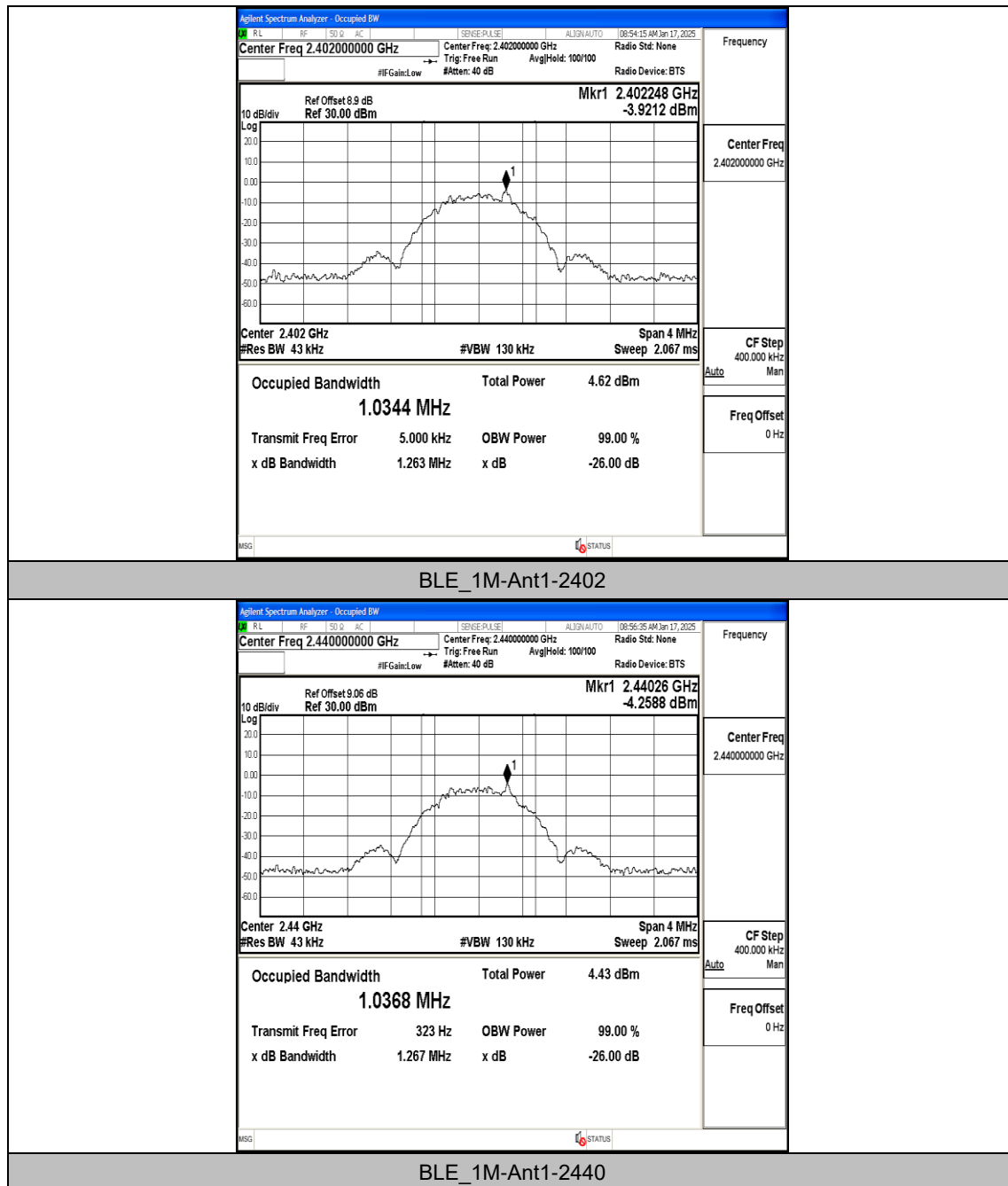


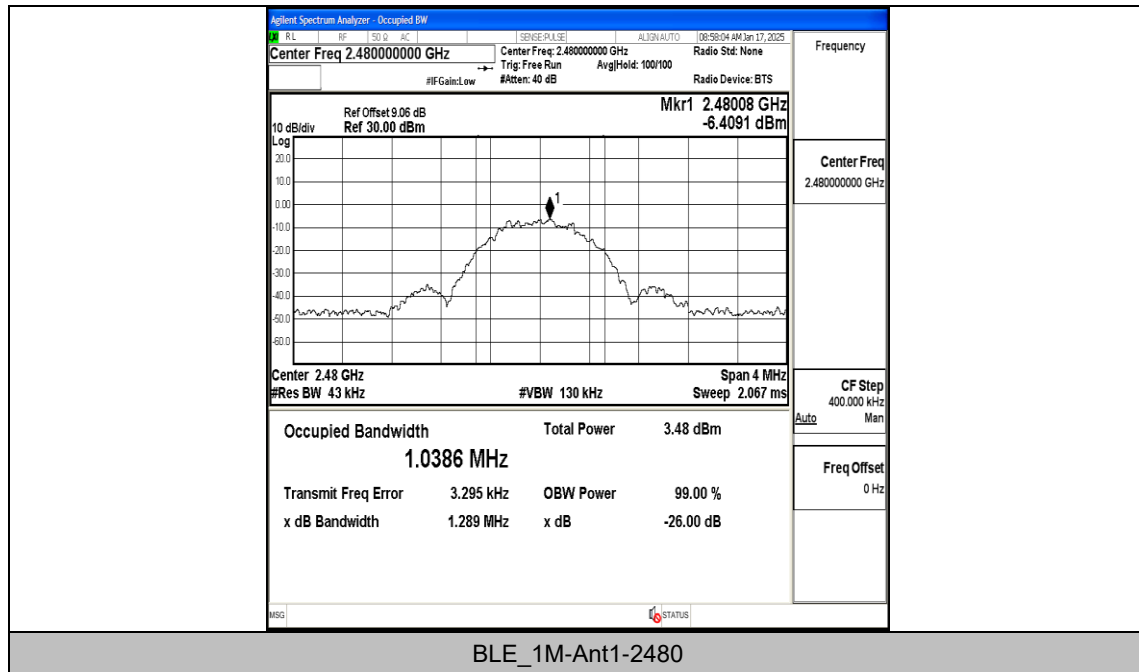
Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	1.0344	2401.4878	2402.5222	---	---
BLE_1M	Ant1	2440	1.0368	2439.4819	2440.5187	---	---
BLE_1M	Ant1	2480	1.0386	2479.4840	2480.5226	---	---

Test Graphs



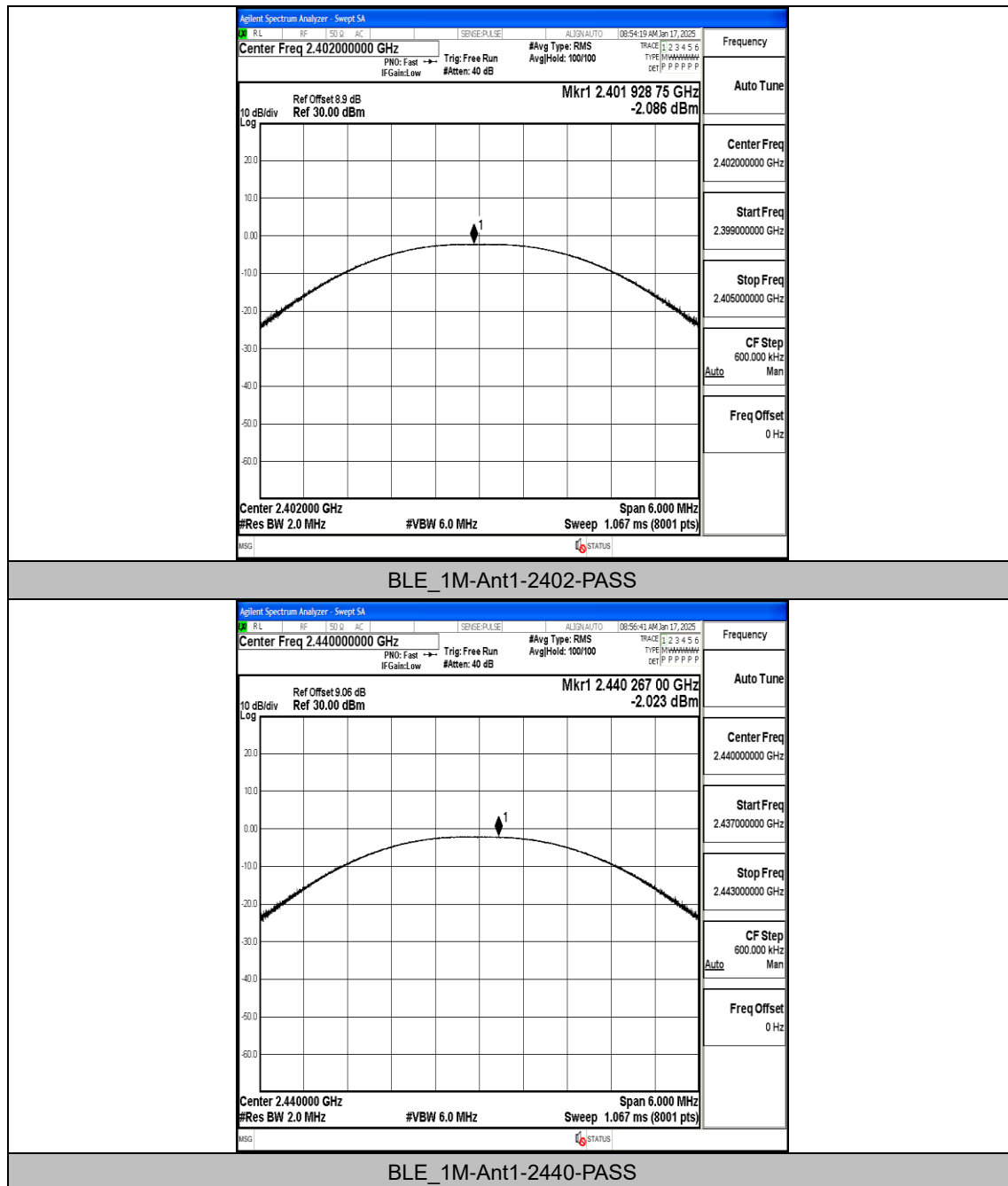


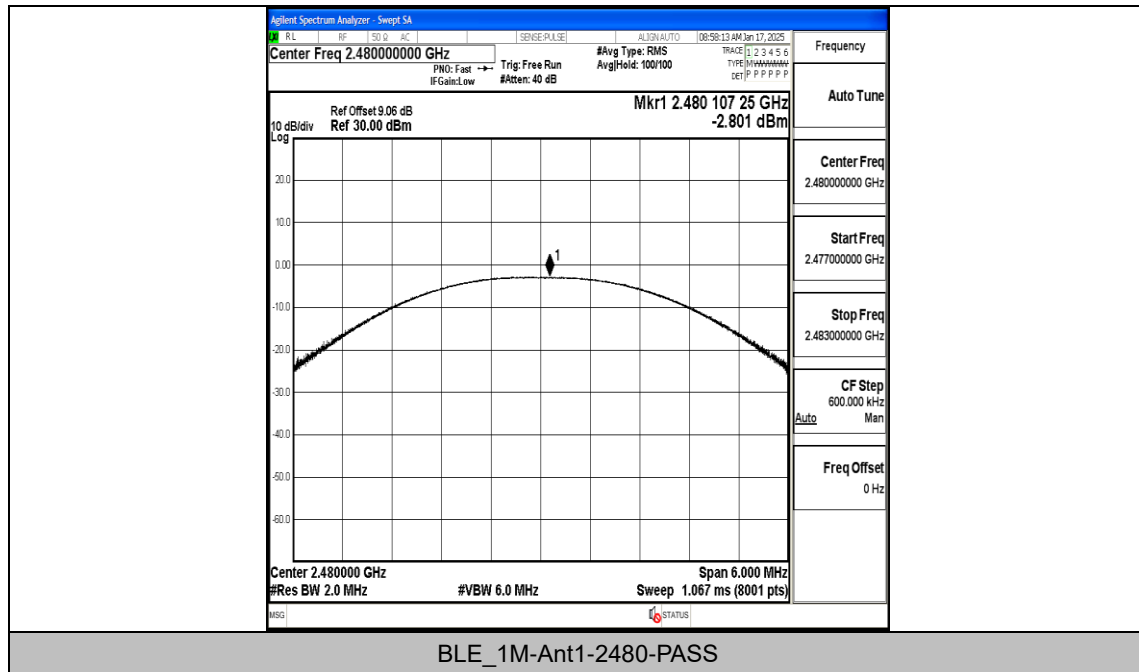
Appendix C: Maximum peak conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
BLE_1M	Ant1	2402	-2.09	≤30	PASS
BLE_1M	Ant1	2440	-2.02	≤30	PASS
BLE_1M	Ant1	2480	-2.80	≤30	PASS

Test Graphs Peak



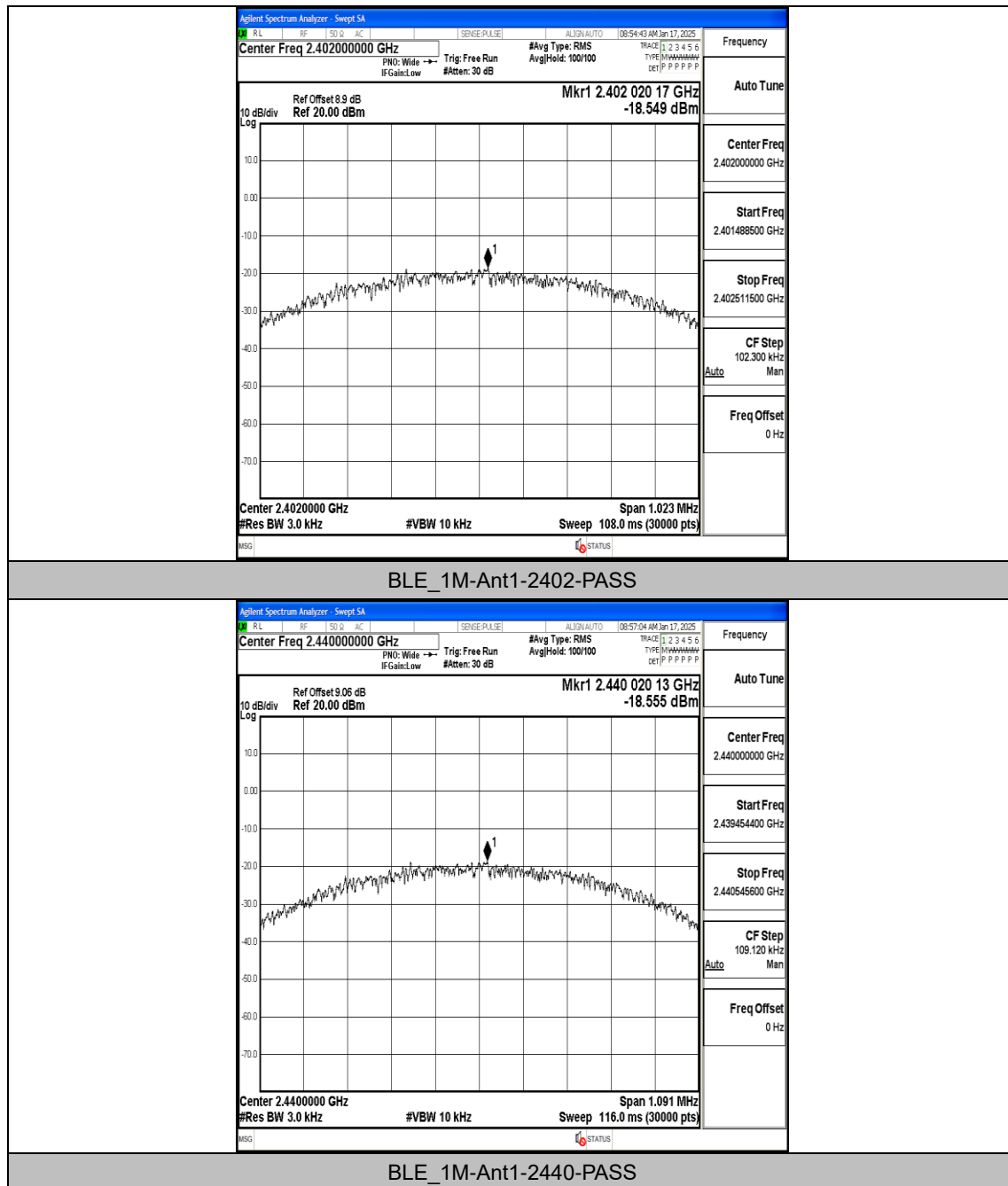


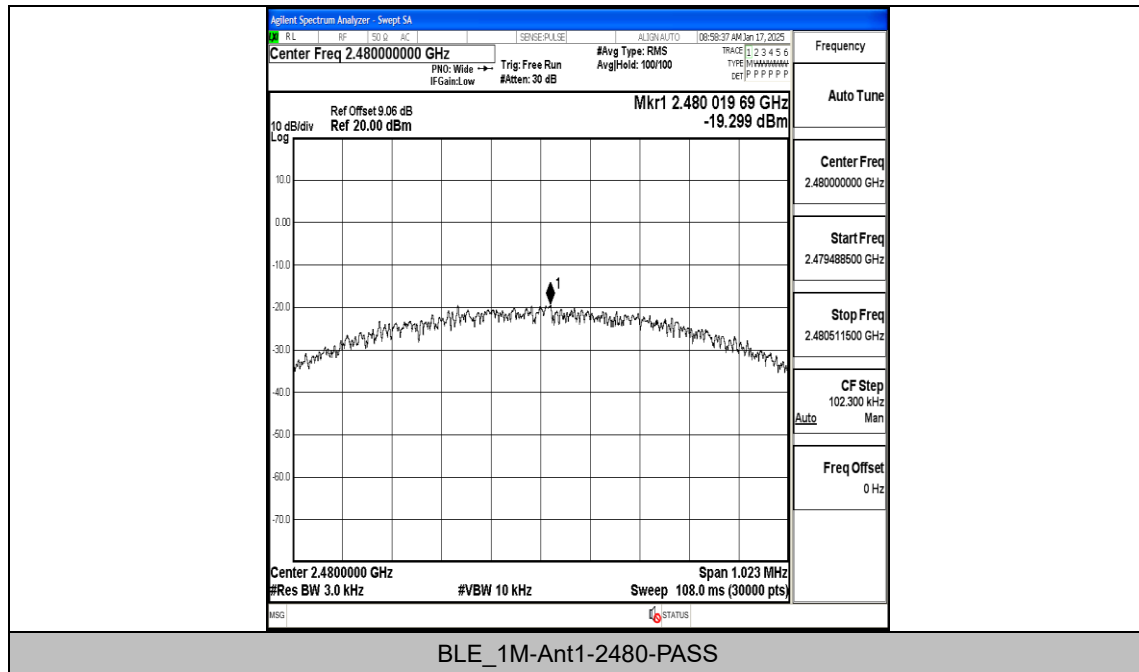
Appendix D: Maximum peak power spectral density

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-18.55	≤8.00	PASS
BLE_1M	Ant1	2440	-18.56	≤8.00	PASS
BLE_1M	Ant1	2480	-19.30	≤8.00	PASS

Test Graphs



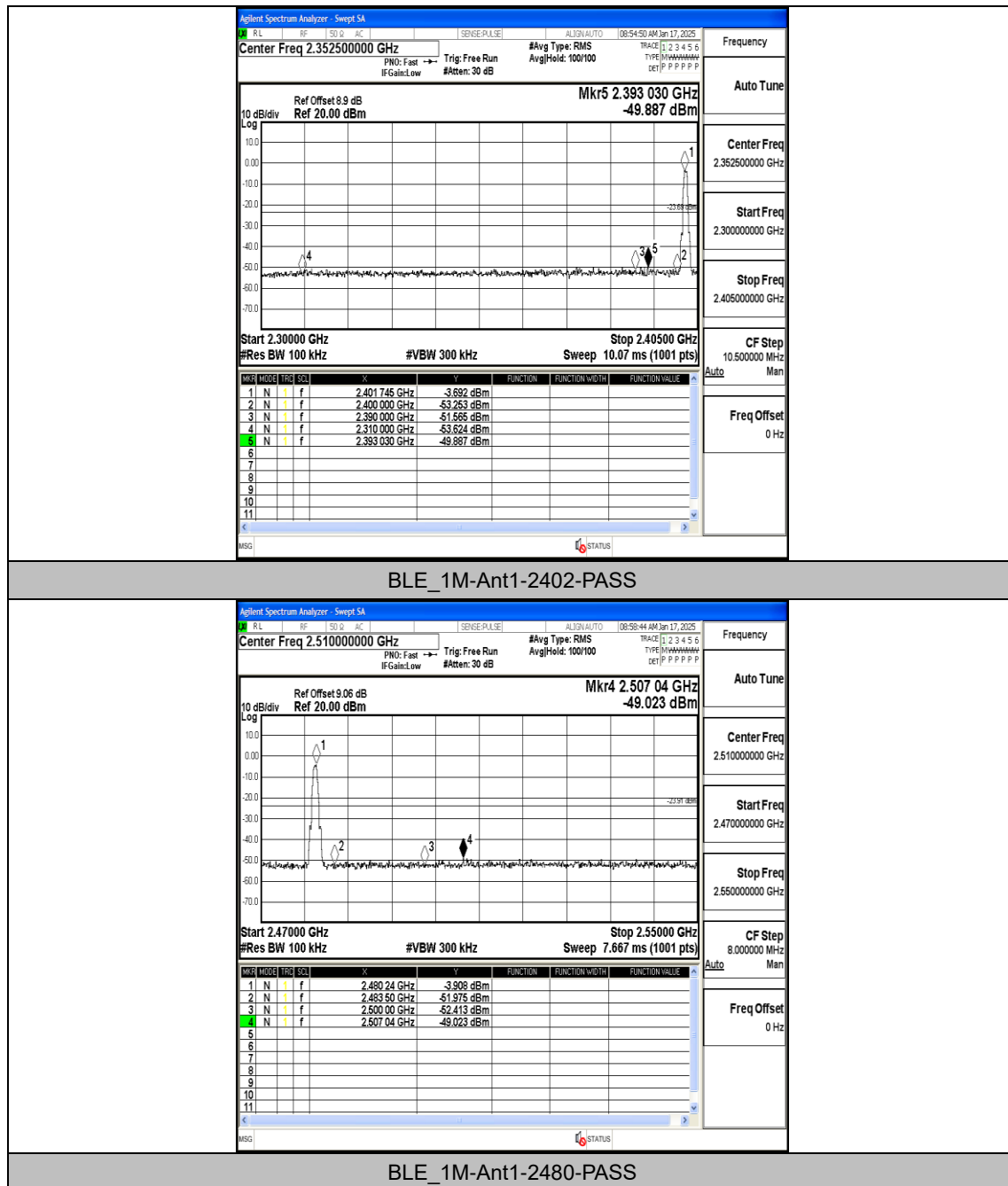


Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-3.69	-49.89	≤ -23.69	PASS
BLE_1M	Ant1	High	2480	-3.91	-49.02	≤ -23.91	PASS

Test Graphs

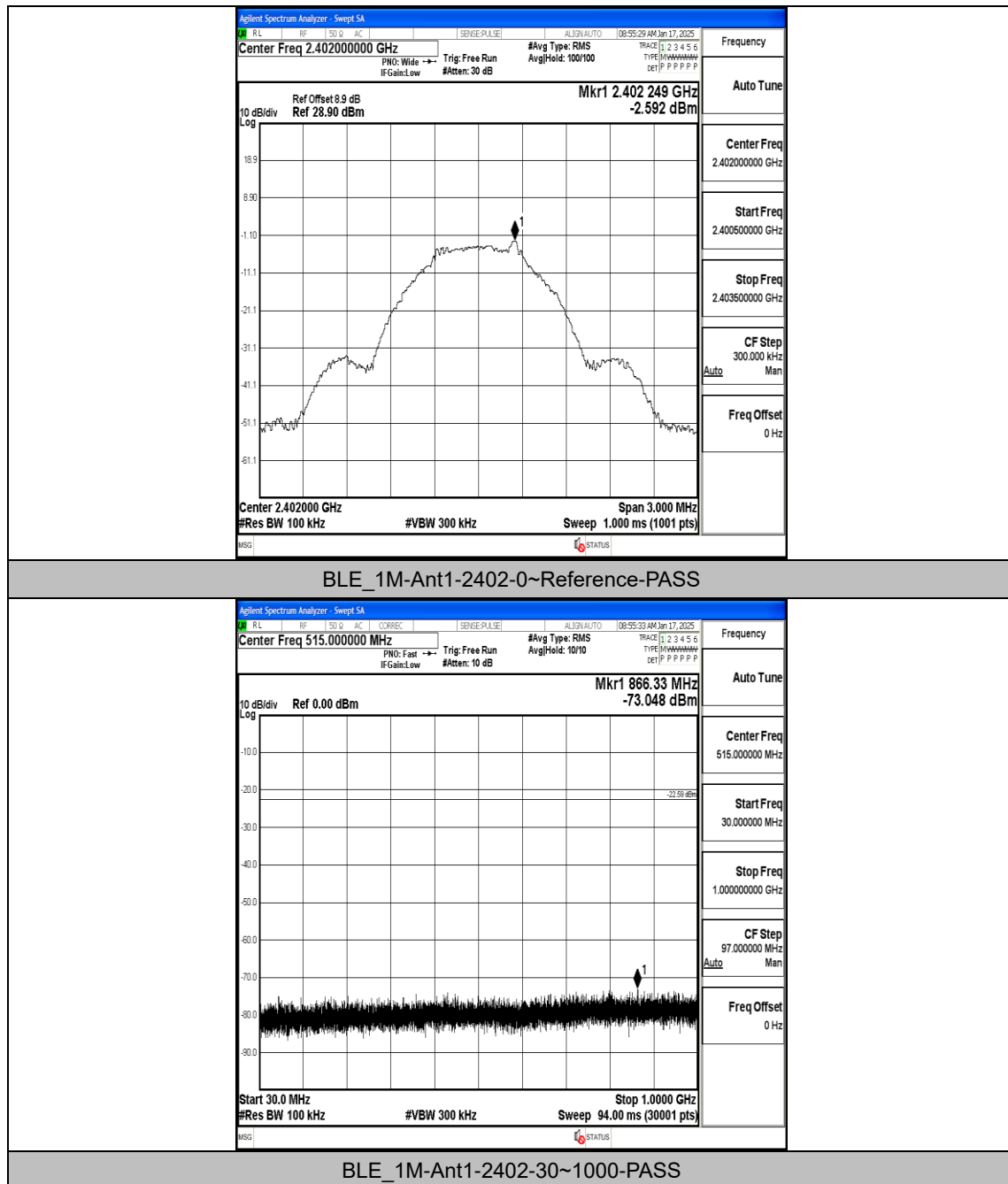


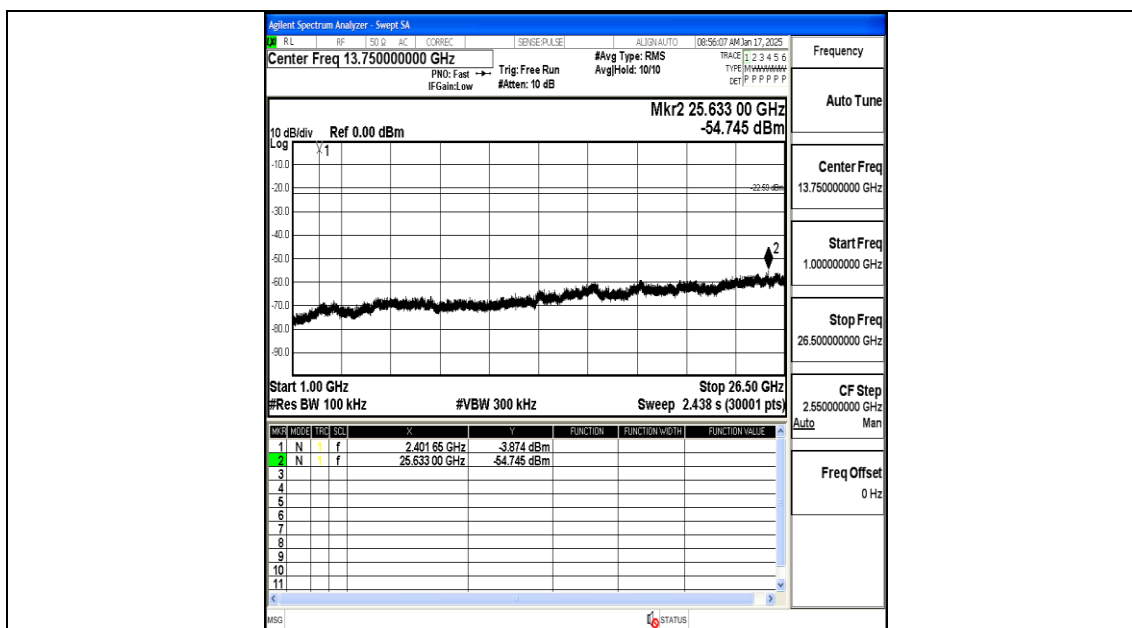
Appendix F: Conducted Spurious Emission

Test Result

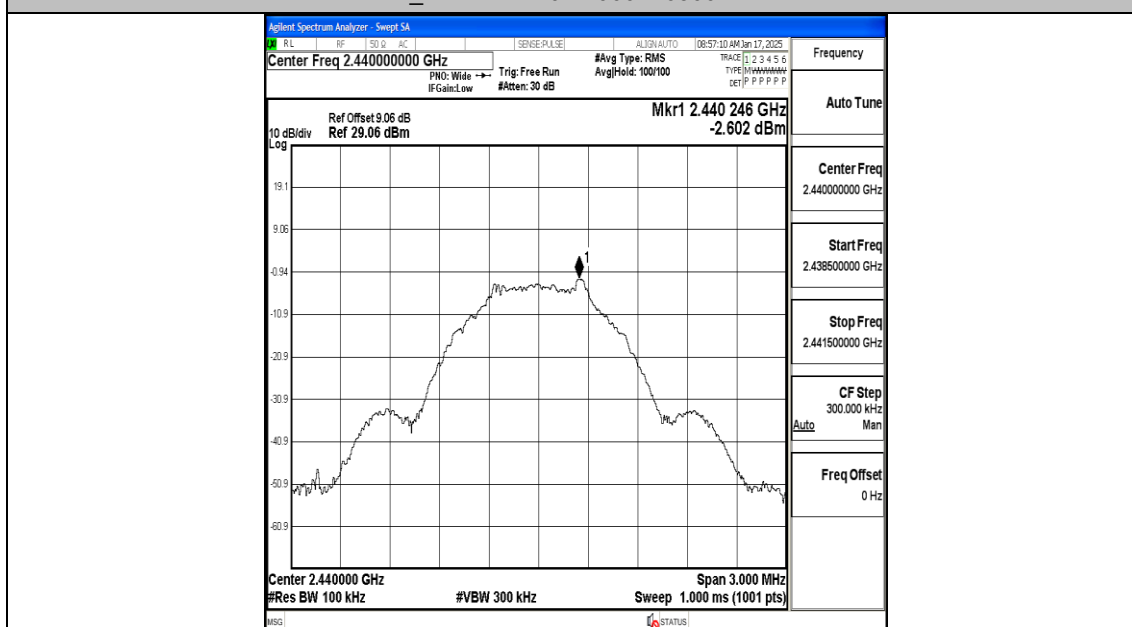
Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-2.59	-2.59	---	PASS
BLE_1M	Ant1	2402	30~1000	-2.59	-73.05	≤ -22.59	PASS
BLE_1M	Ant1	2402	1000~26500	-2.59	-54.75	≤ -22.59	PASS
BLE_1M	Ant1	2440	0~Reference	-2.60	-2.60	---	PASS
BLE_1M	Ant1	2440	30~1000	-2.60	-71.96	≤ -22.6	PASS
BLE_1M	Ant1	2440	1000~26500	-2.60	-54.86	≤ -22.6	PASS
BLE_1M	Ant1	2480	0~Reference	-3.77	-3.77	---	PASS
BLE_1M	Ant1	2480	30~1000	-3.77	-71.77	≤ -23.77	PASS
BLE_1M	Ant1	2480	1000~26500	-3.77	-55.78	≤ -23.77	PASS

Test Graphs

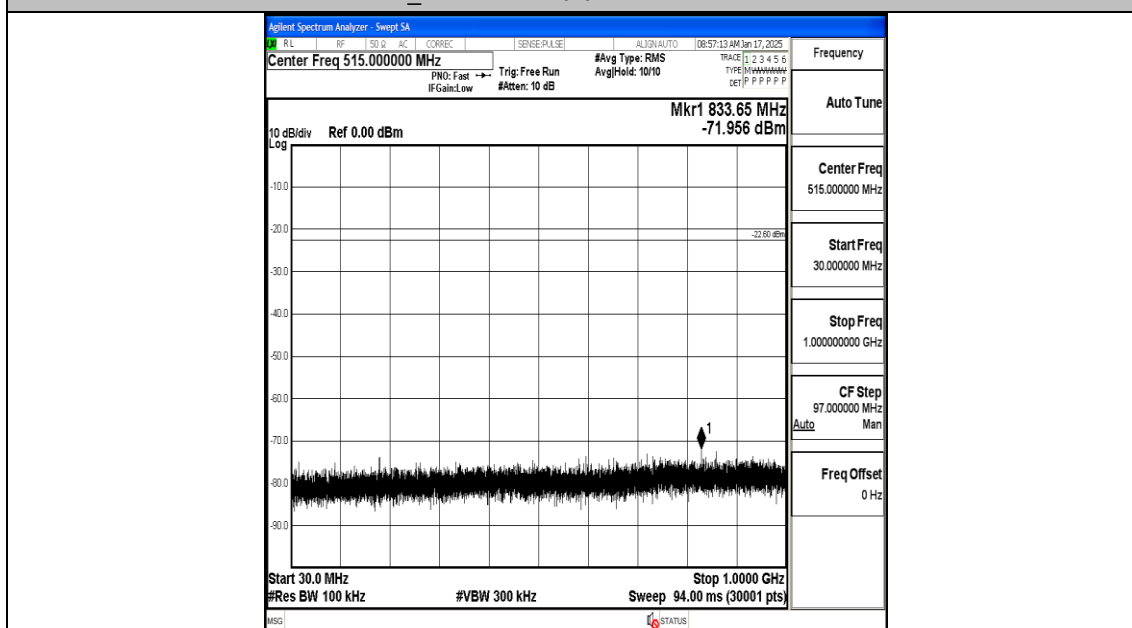




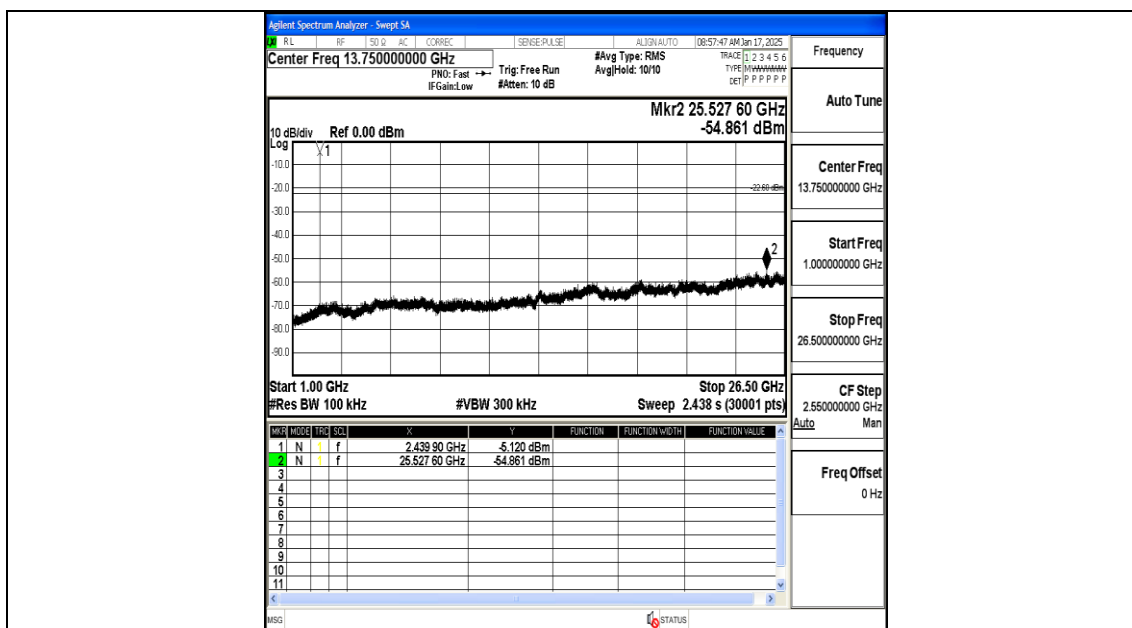
BLE_1M-Ant1-2402-1000~26500-PASS



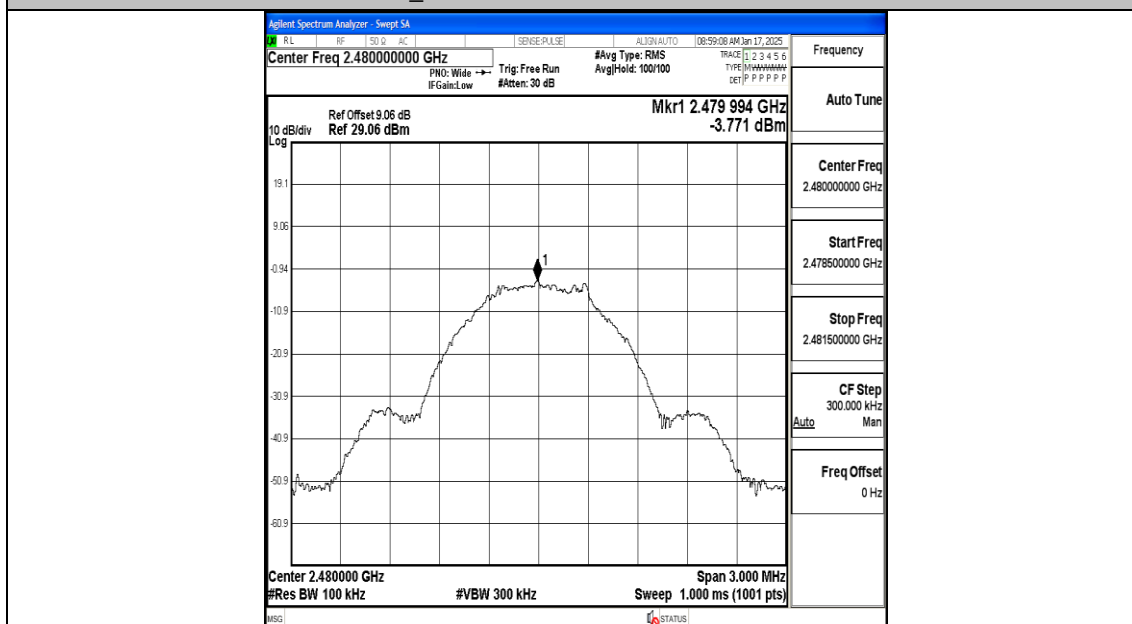
BLE_1M-Ant1-2440-0~Reference-PASS



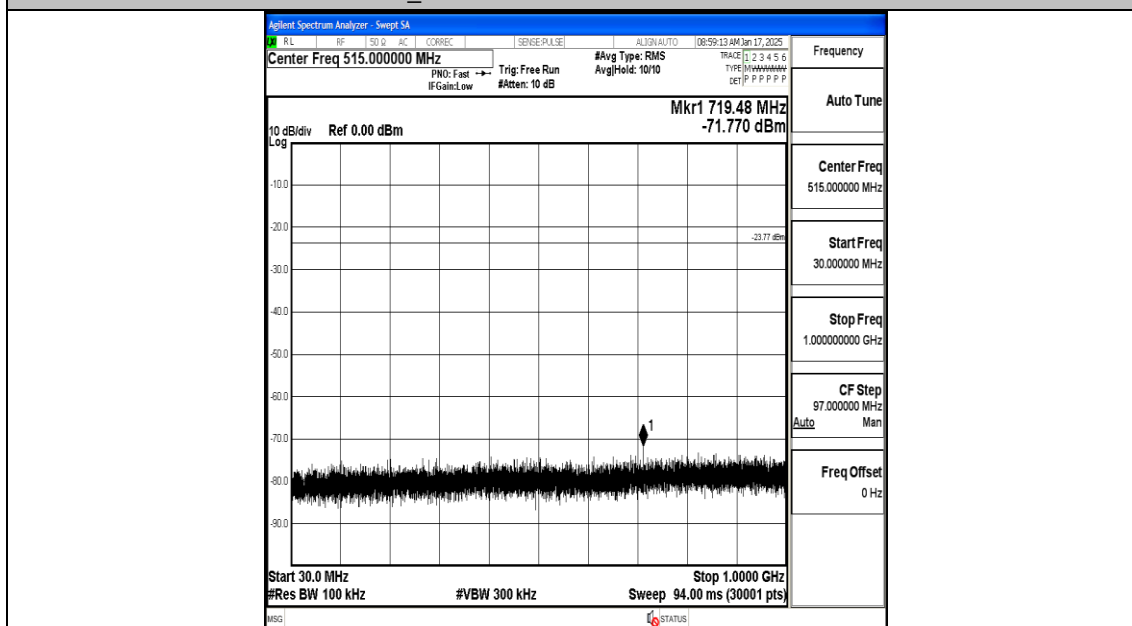
BLE_1M-Ant1-2440-30~1000-PASS



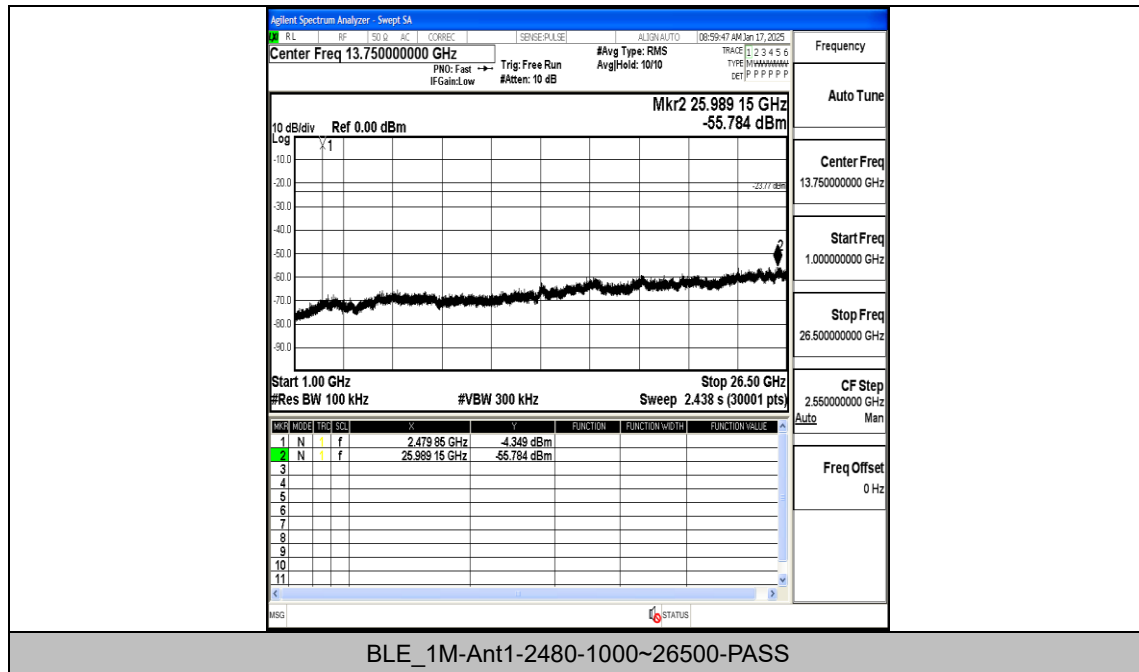
BLE_1M-Ant1-2440-1000~26500-PASS



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	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

