

Appendix Test Data for BLE (Conducted Measurement)

Product Name: Wireless Keyboard

Trade Mark: Keychron

Test Model: K4 Max

FCC ID: 2BGKB-K4MAX

Environmental Conditions

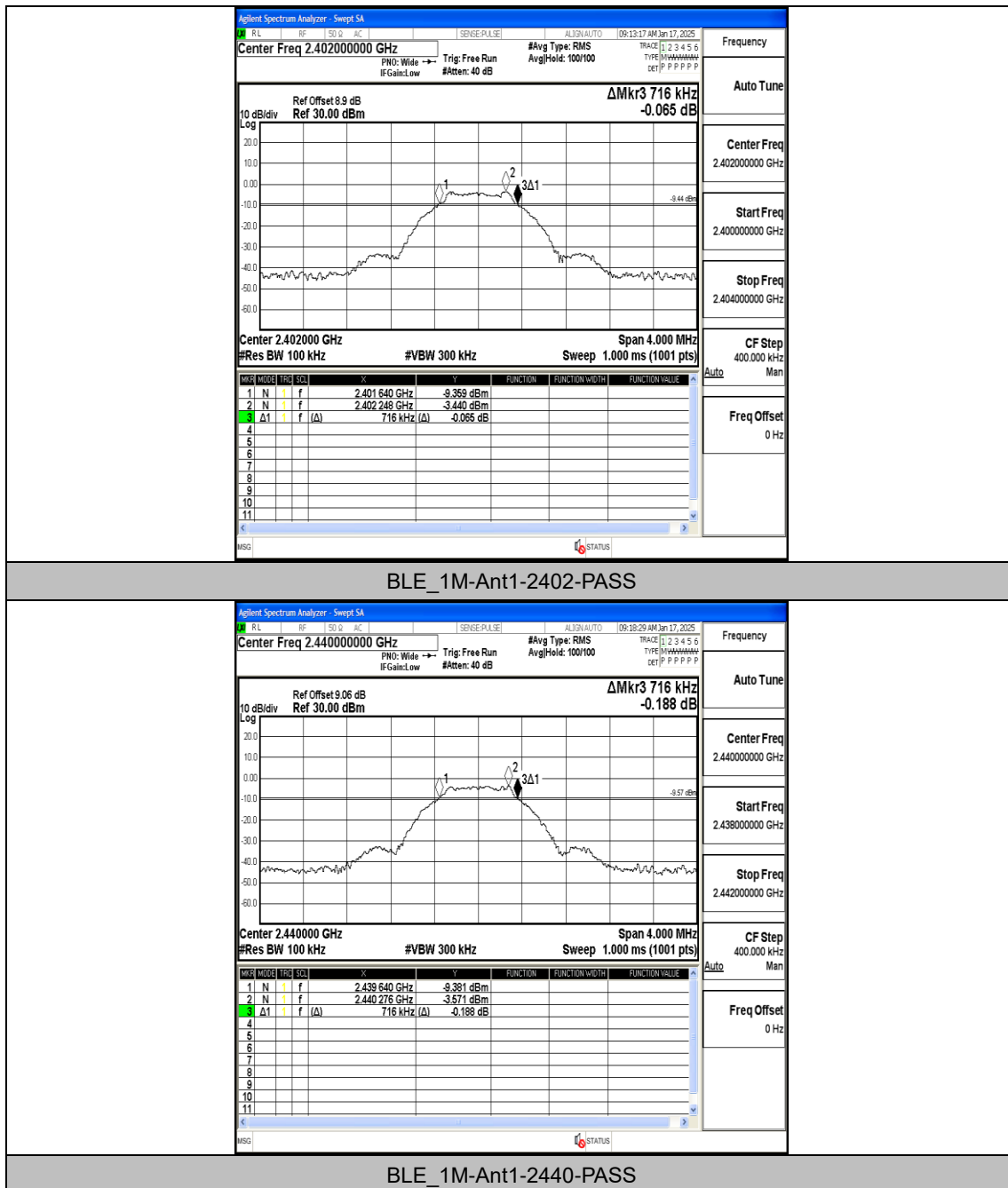
Temperature:	23.5℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

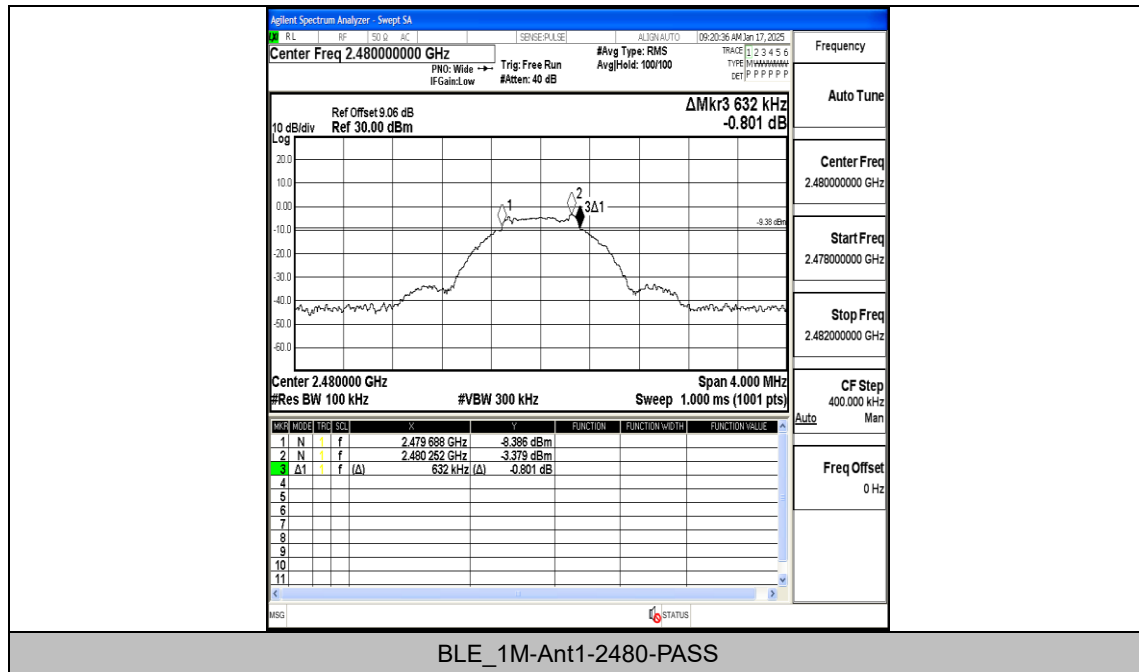
Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	0.716	2401.640	2402.356	0.5	PASS
BLE_1M	Ant1	2440	0.716	2439.640	2440.356	0.5	PASS
BLE_1M	Ant1	2480	0.632	2479.688	2480.320	0.5	PASS

Test Graphs



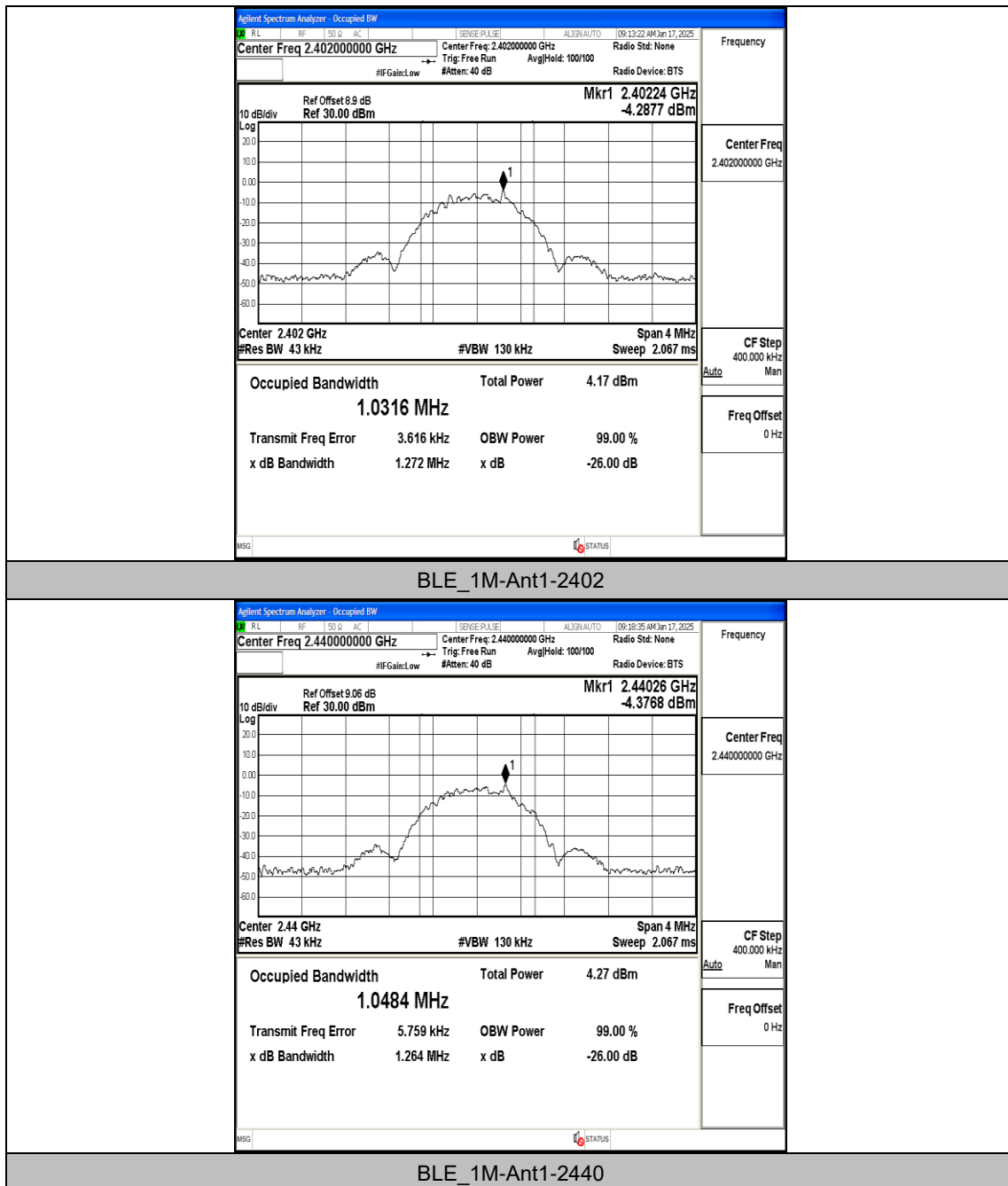


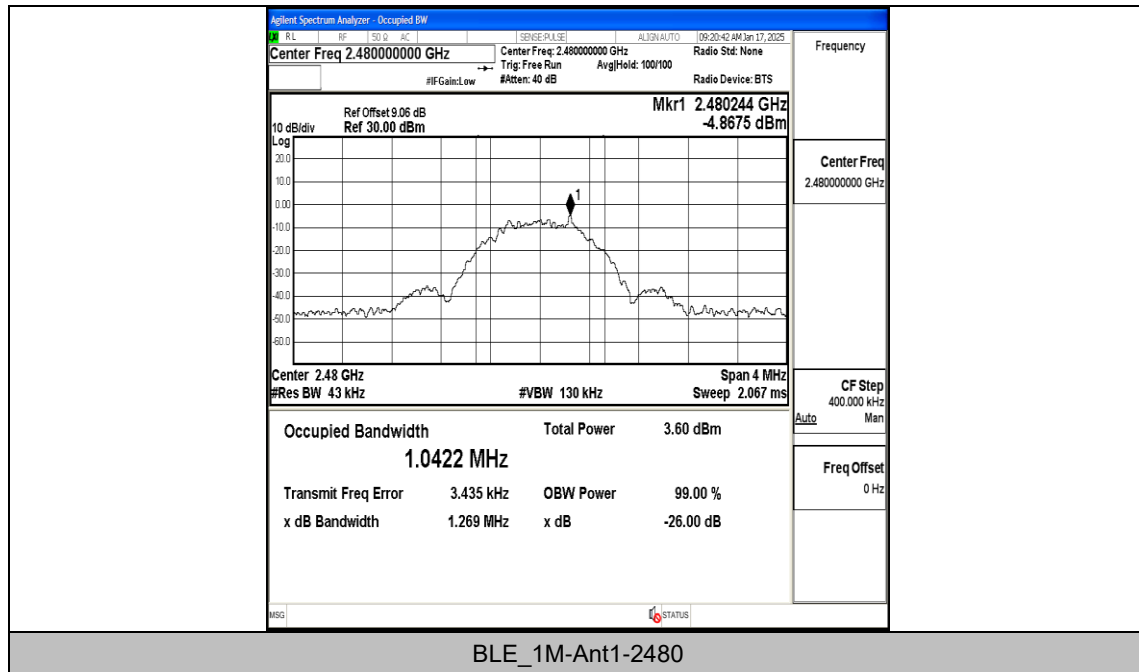
Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	1.0316	2401.4878	2402.5194	---	---
BLE_1M	Ant1	2440	1.0484	2439.4816	2440.5300	---	---
BLE_1M	Ant1	2480	1.0422	2479.4823	2480.5245	---	---

Test Graphs



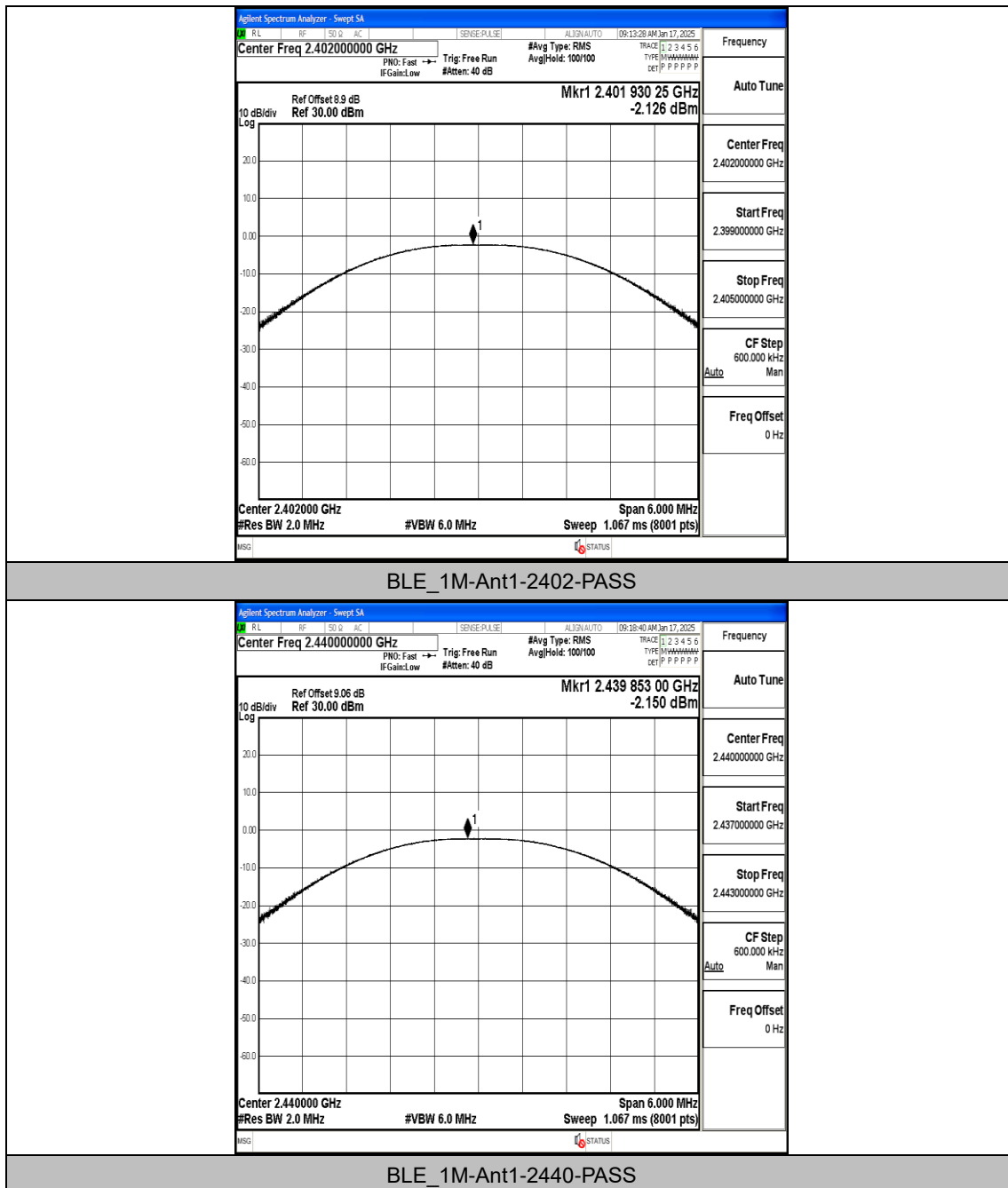


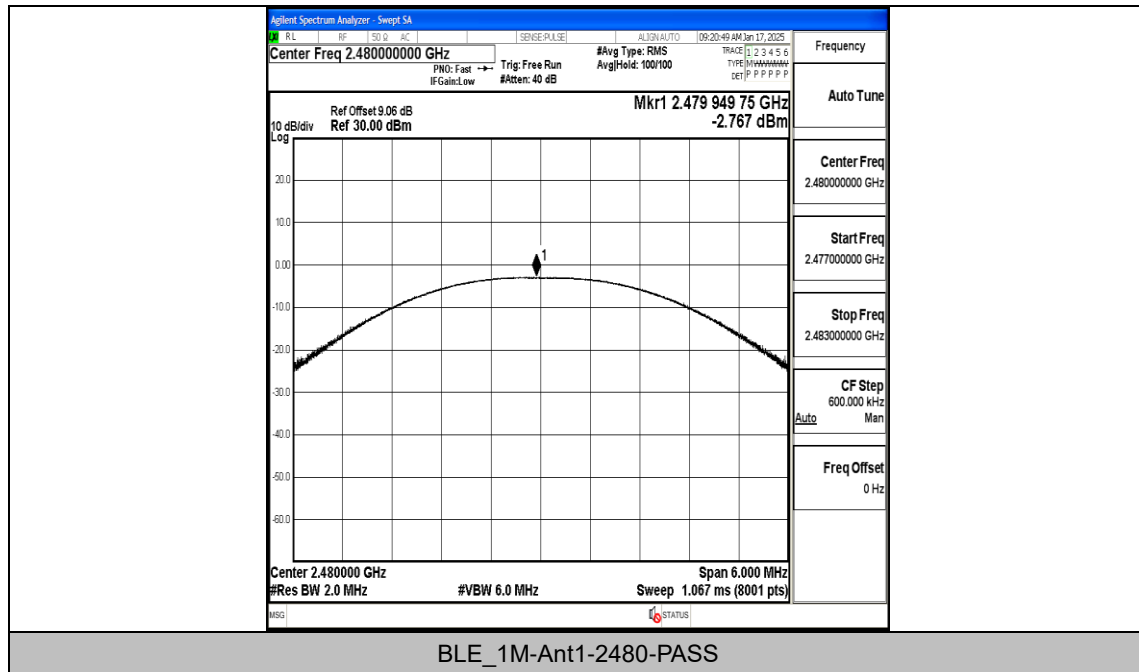
Appendix C: Maximum peak conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
BLE_1M	Ant1	2402	-2.13	≤30	PASS
BLE_1M	Ant1	2440	-2.15	≤30	PASS
BLE_1M	Ant1	2480	-2.77	≤30	PASS

Test Graphs Peak



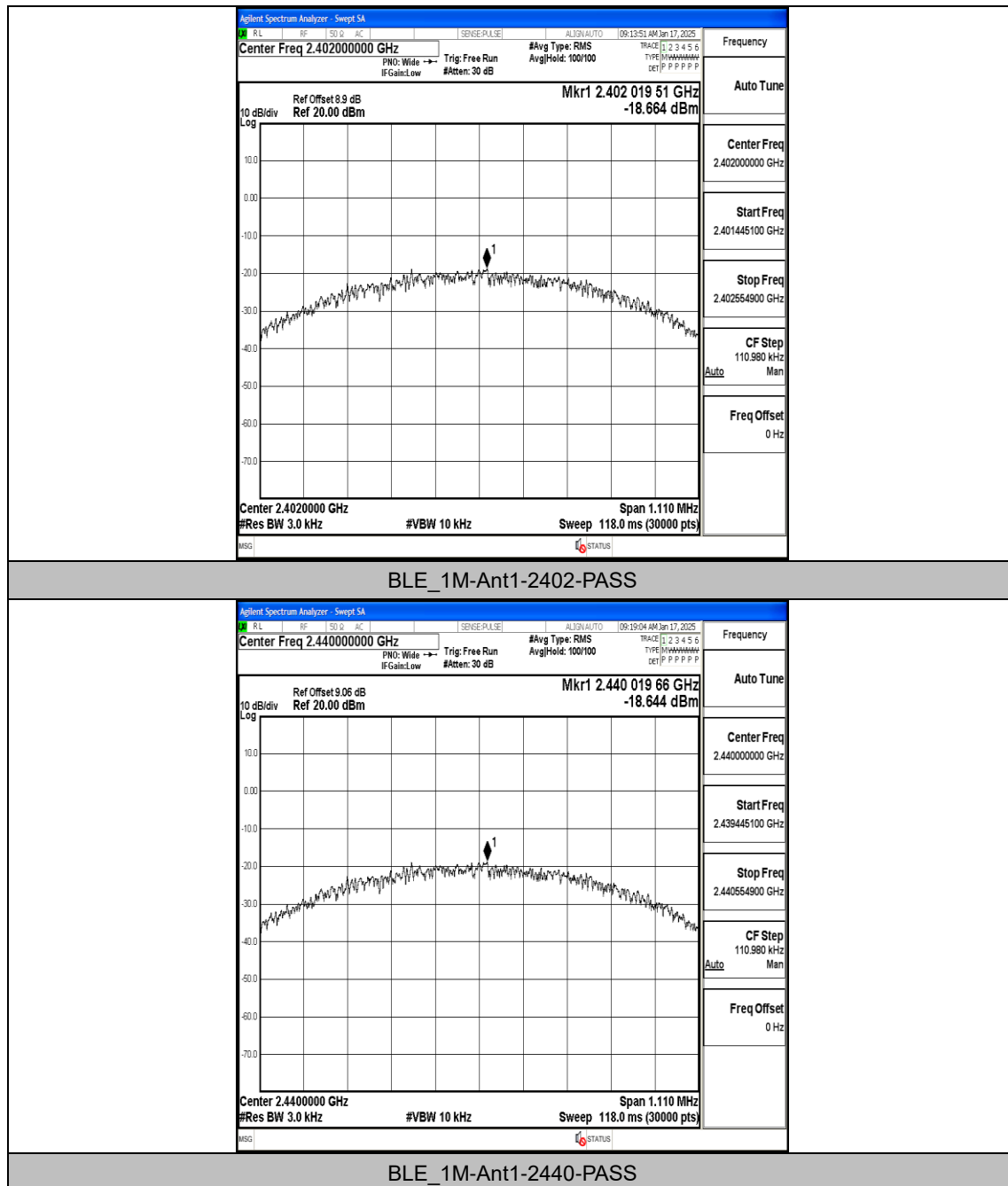


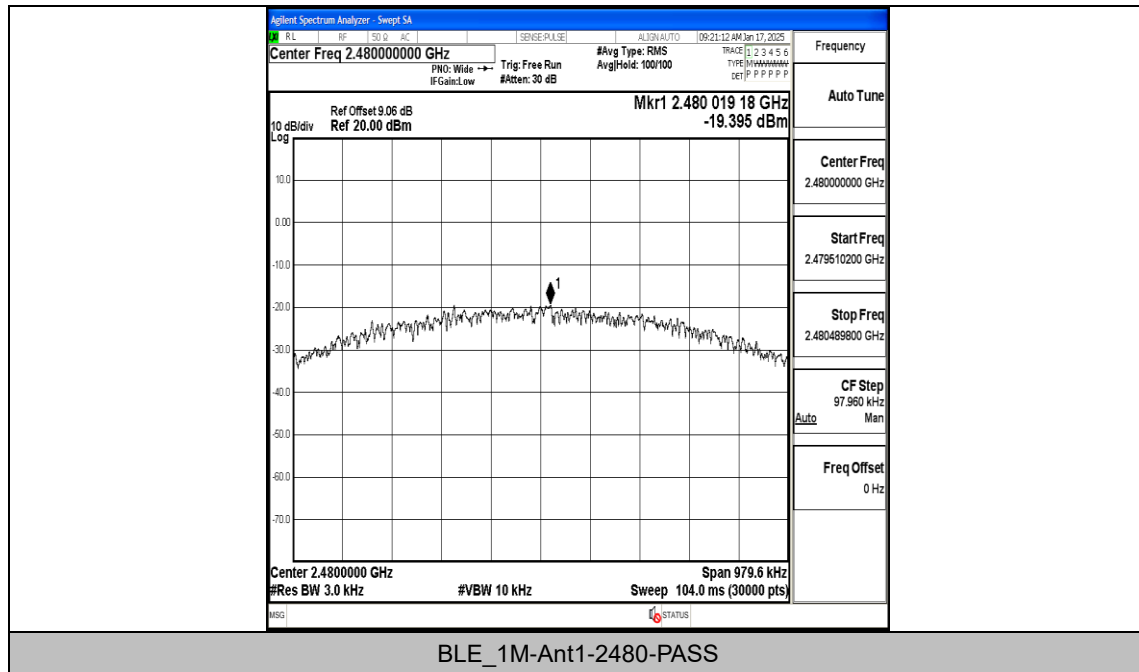
Appendix D: Maximum peak power spectral density

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-18.66	≤8.00	PASS
BLE_1M	Ant1	2440	-18.64	≤8.00	PASS
BLE_1M	Ant1	2480	-19.40	≤8.00	PASS

Test Graphs



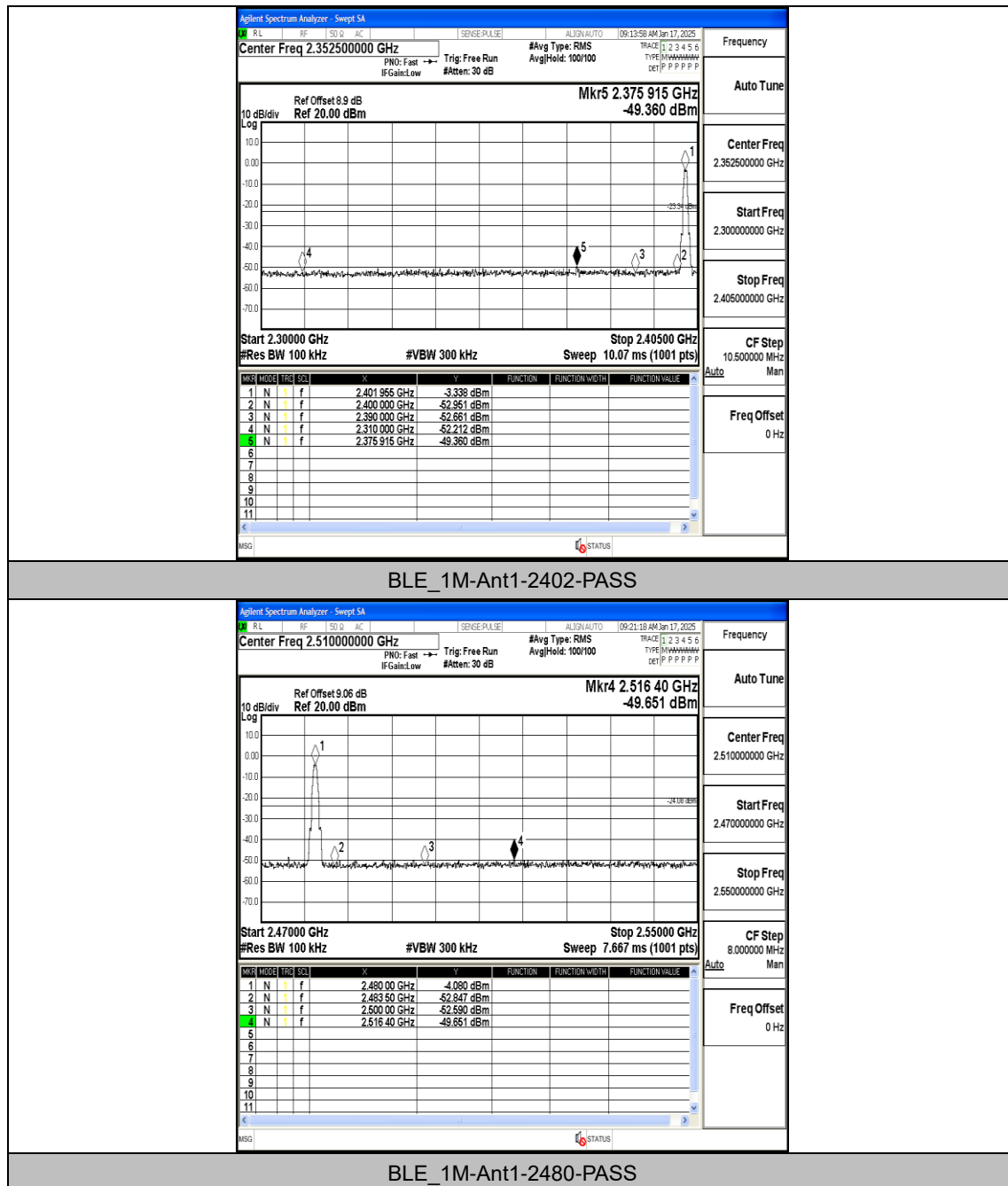


Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-3.34	-49.36	≤ -23.34	PASS
BLE_1M	Ant1	High	2480	-4.08	-49.65	≤ -24.08	PASS

Test Graphs

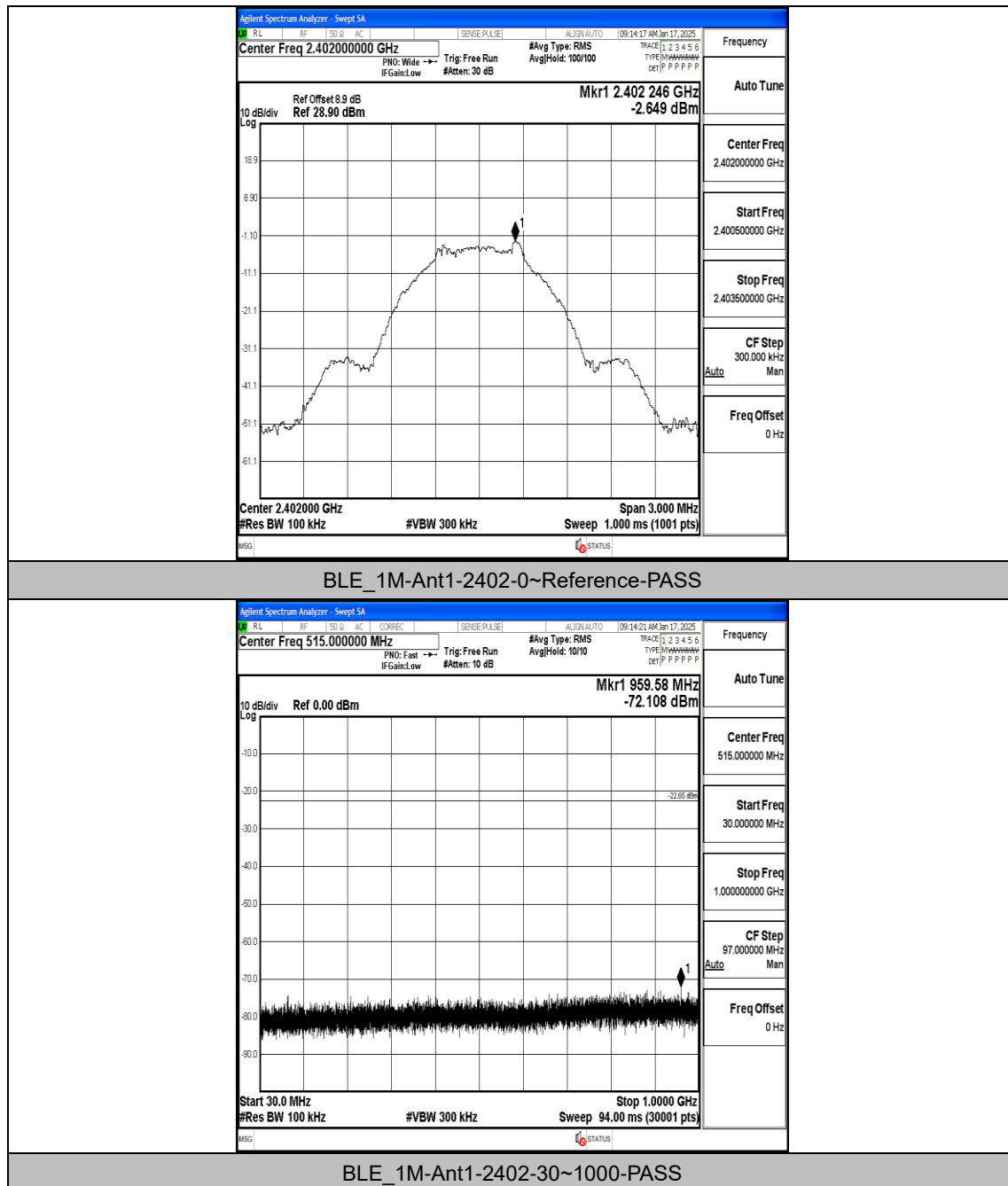


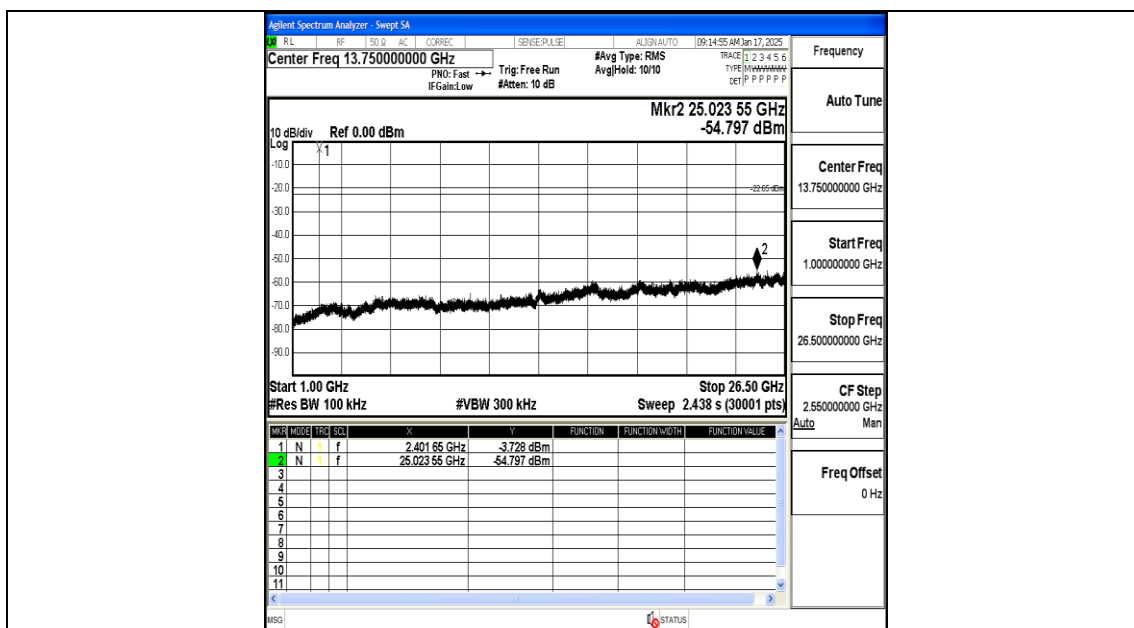
Appendix F: Conducted Spurious Emission

Test Result

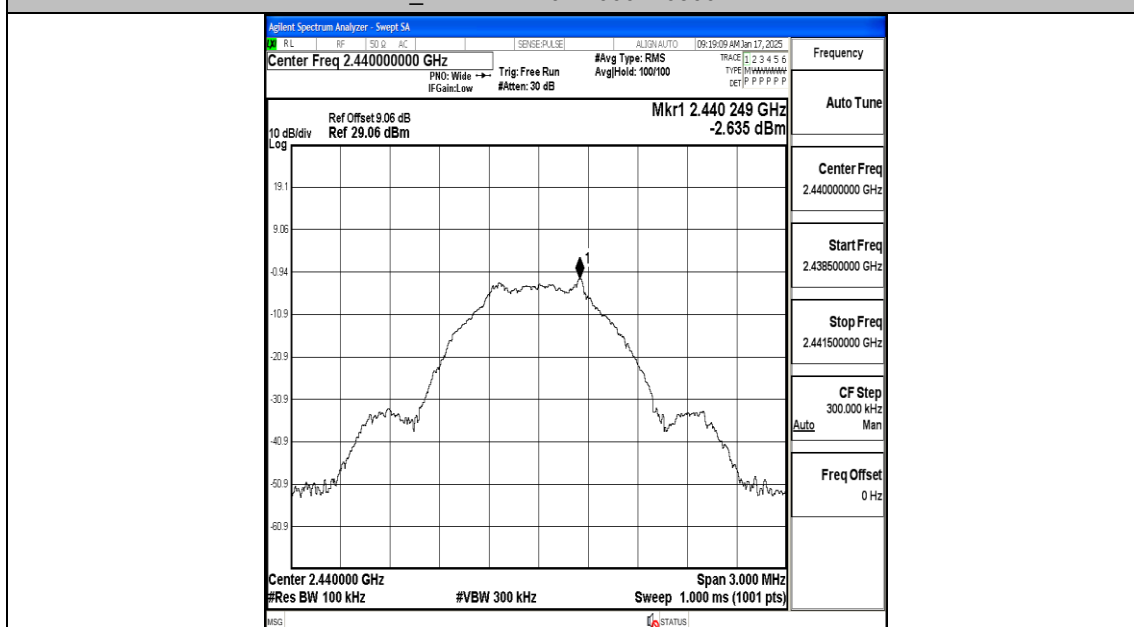
Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-2.65	-2.65	---	PASS
BLE_1M	Ant1	2402	30~1000	-2.65	-72.11	≤-22.65	PASS
BLE_1M	Ant1	2402	1000~26500	-2.65	-54.8	≤-22.65	PASS
BLE_1M	Ant1	2440	0~Reference	-2.64	-2.64	---	PASS
BLE_1M	Ant1	2440	30~1000	-2.64	-72.57	≤-22.64	PASS
BLE_1M	Ant1	2440	1000~26500	-2.64	-56.02	≤-22.64	PASS
BLE_1M	Ant1	2480	0~Reference	-4.05	-4.05	---	PASS
BLE_1M	Ant1	2480	30~1000	-4.05	-72.35	≤-24.05	PASS
BLE_1M	Ant1	2480	1000~26500	-4.05	-55.76	≤-24.05	PASS

Test Graphs

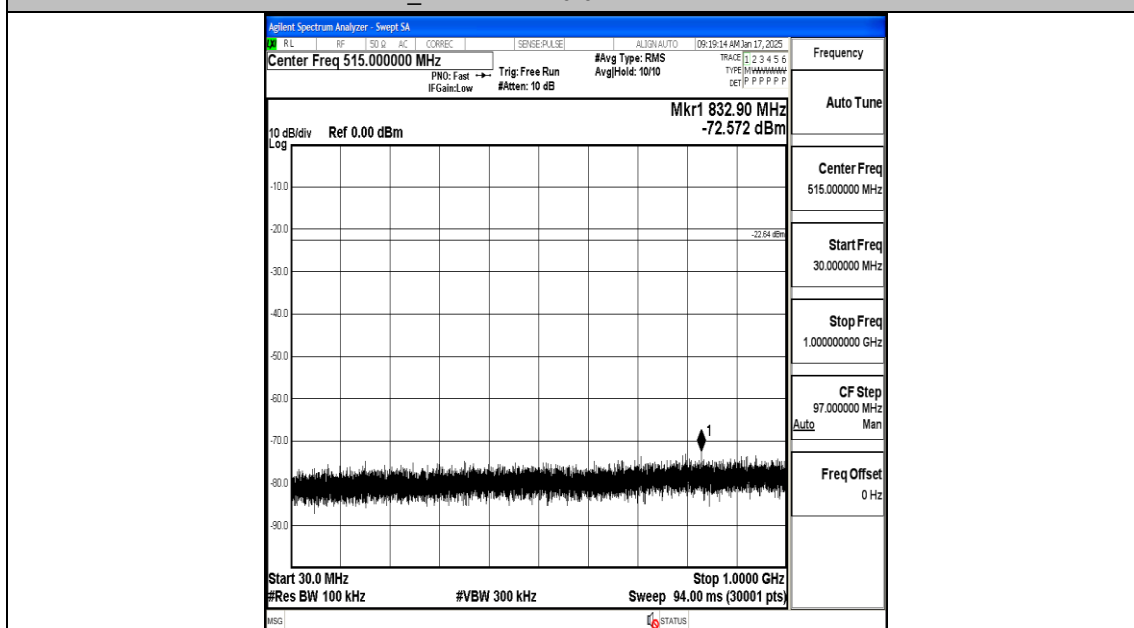




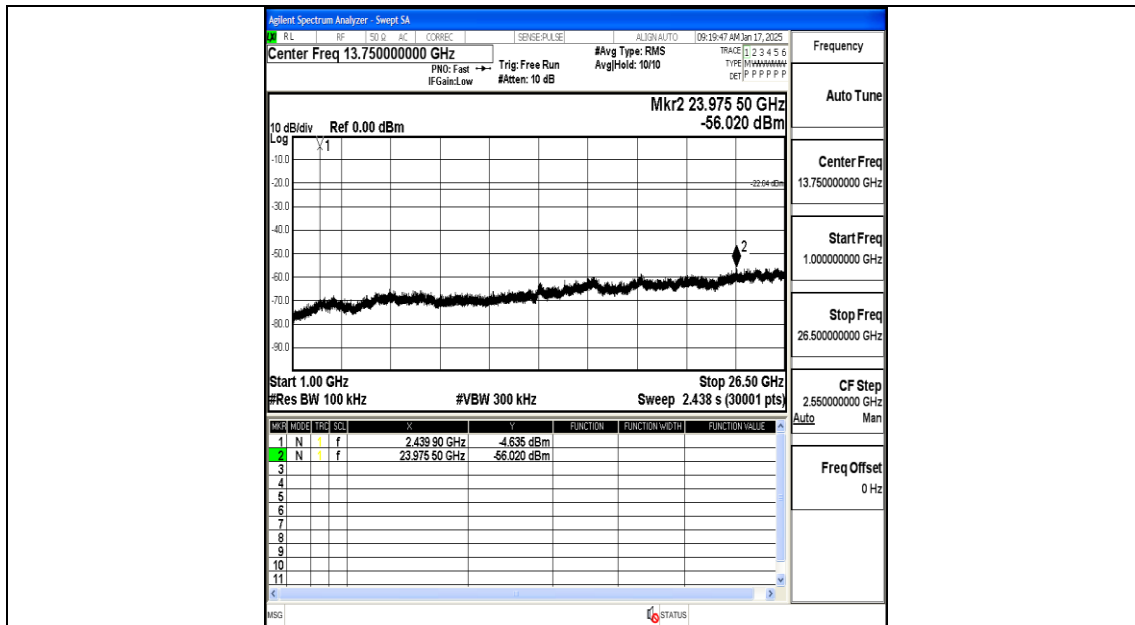
BLE_1M-Ant1-2402-1000~26500-PASS



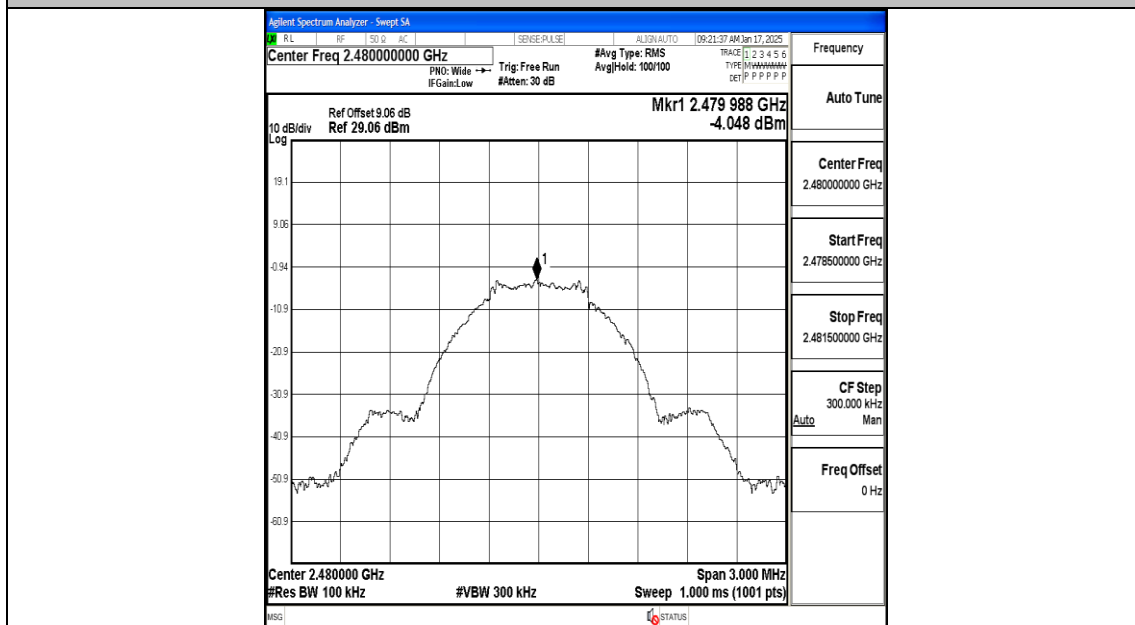
BLE_1M-Ant1-2440-0~Reference-PASS



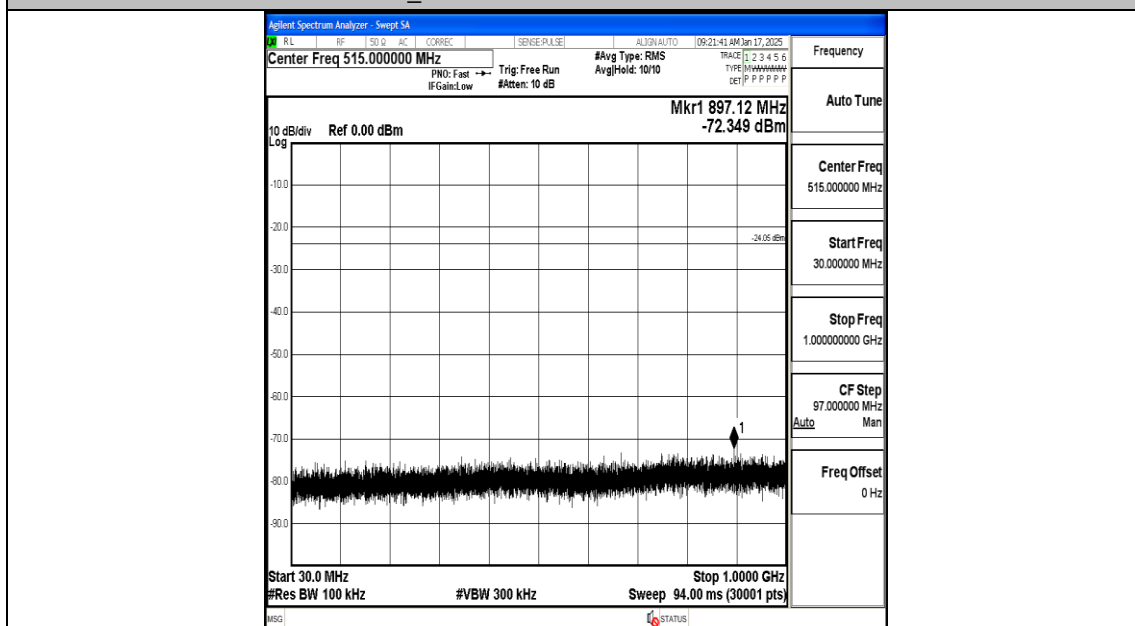
BLE_1M-Ant1-2440-30~1000-PASS



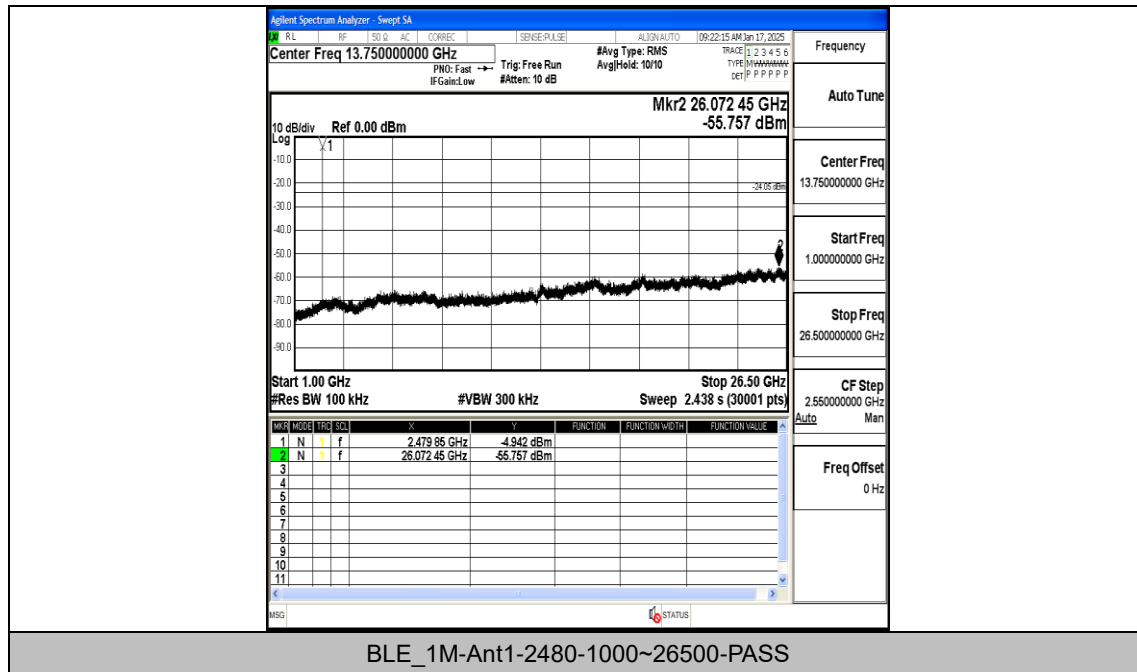
BLE_1M-Ant1-2440-1000~26500-PASS



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

