

Appendix Test Data for BLE (Conducted Measurement)

Product Name: Wireless Keyboard

Trade Mark: Keychron

Test Model: K17 Max

FCC ID: 2BGKB-K17MAX

Environmental Conditions

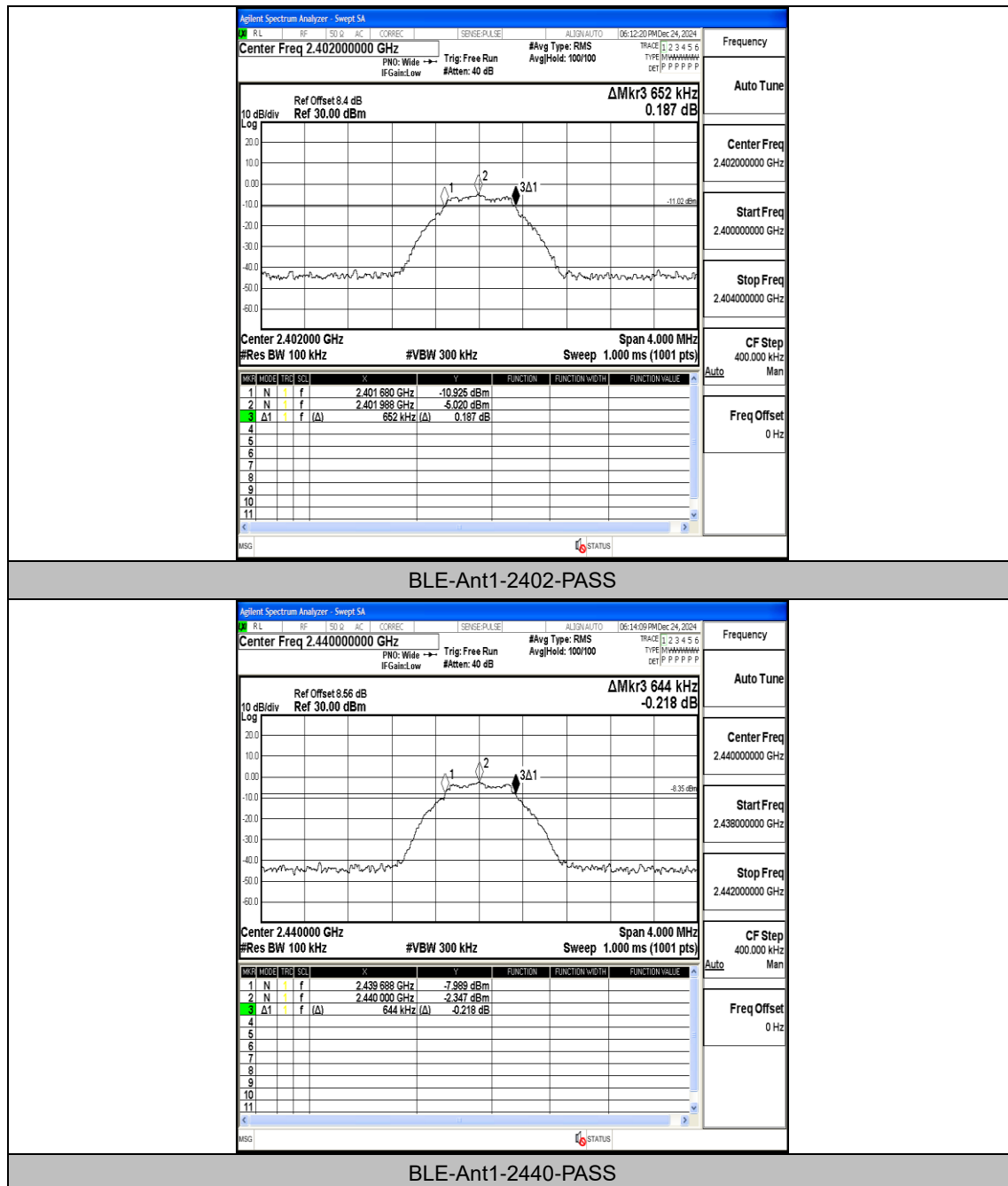
Temperature:	23.5℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

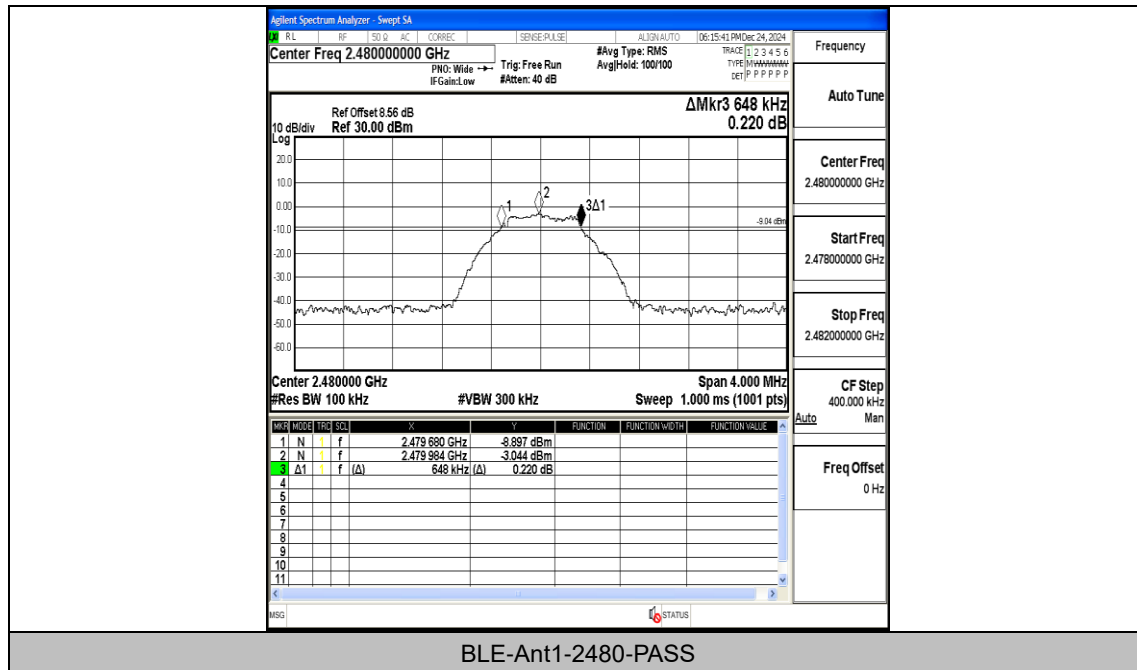
Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
BLE	Ant1	2402	0.652	2401.680	2402.332	0.5	PASS
BLE	Ant1	2440	0.644	2439.688	2440.332	0.5	PASS
BLE	Ant1	2480	0.648	2479.680	2480.328	0.5	PASS

Test Graphs



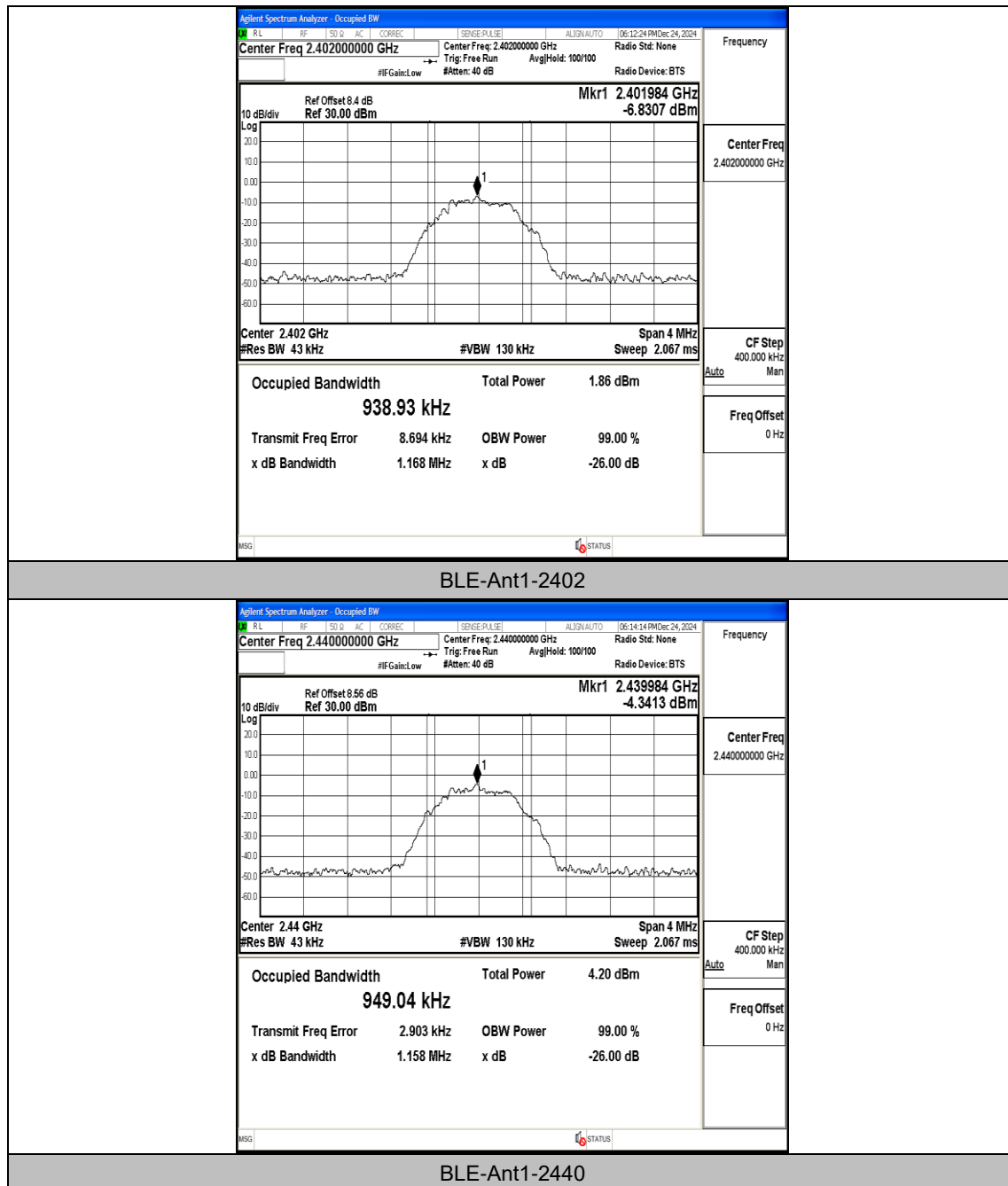


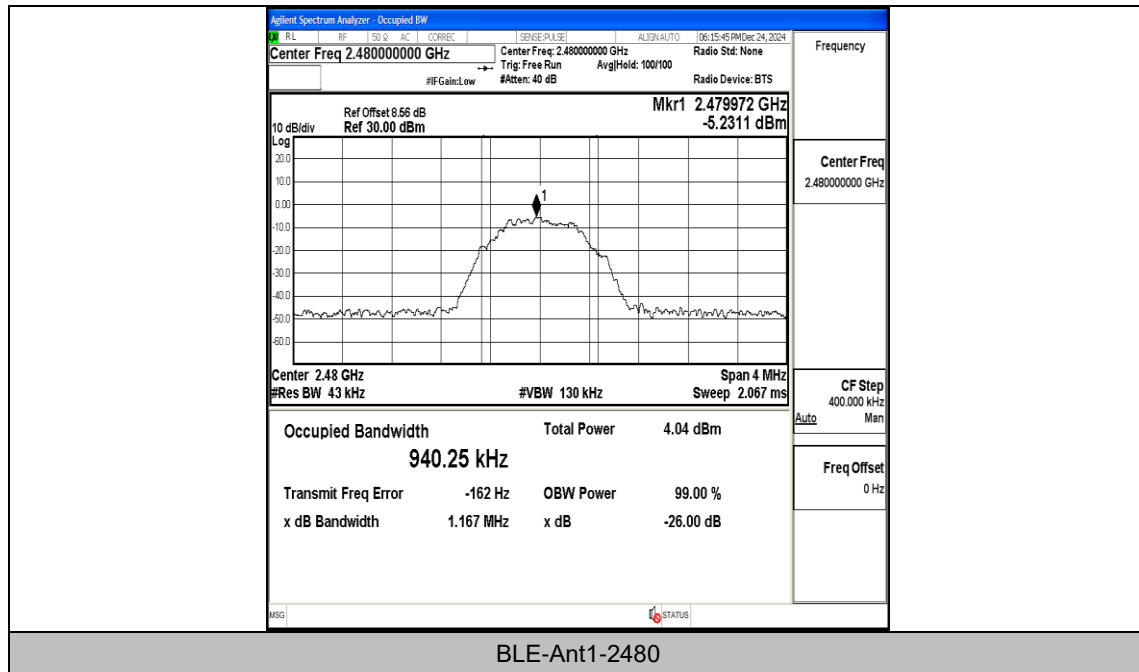
Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
BLE	Ant1	2402	0.93893	2401.5392	2402.4782	---	---
BLE	Ant1	2440	0.94904	2439.5284	2440.4774	---	---
BLE	Ant1	2480	0.94025	2479.5297	2480.4700	---	---

Test Graphs



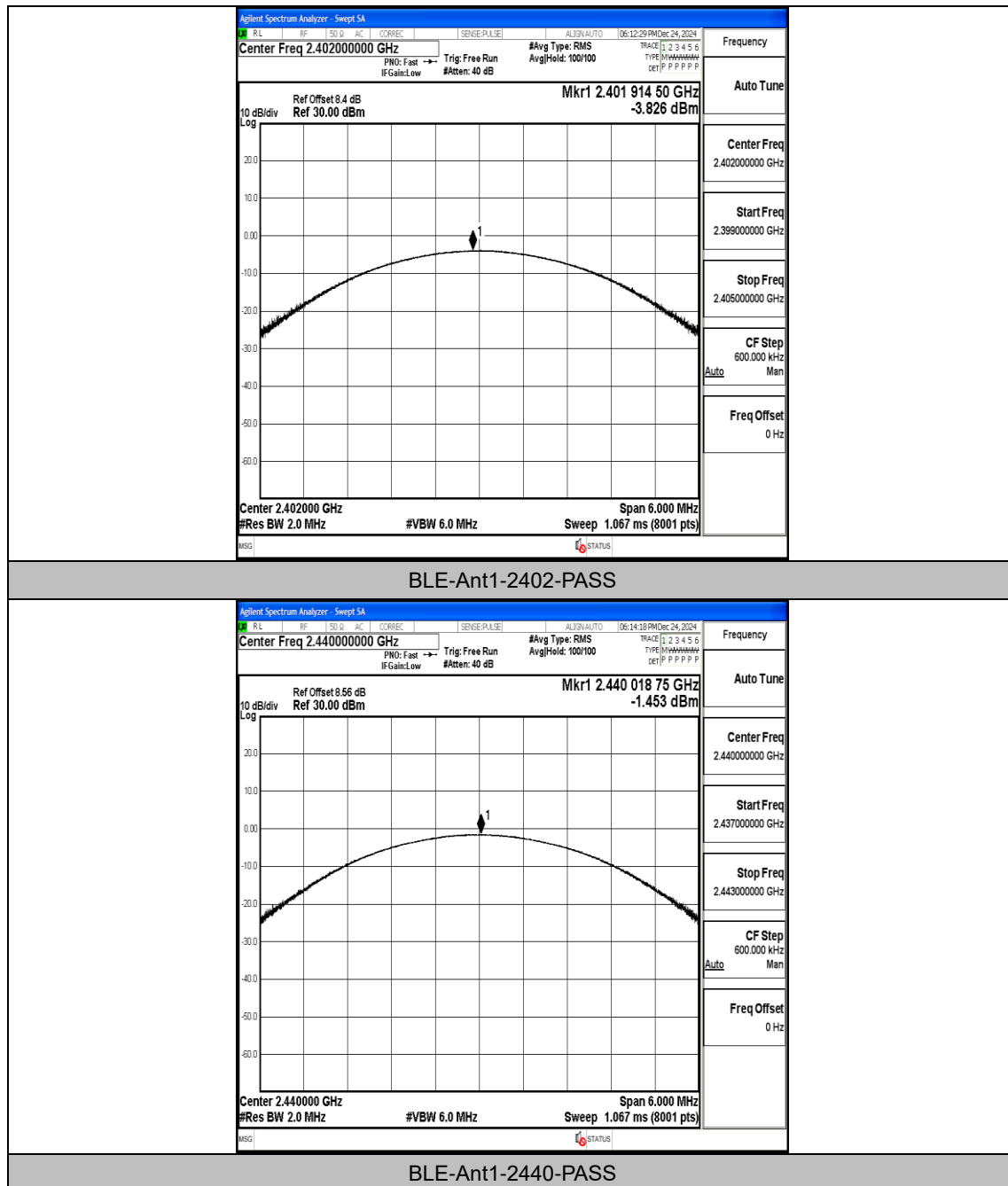


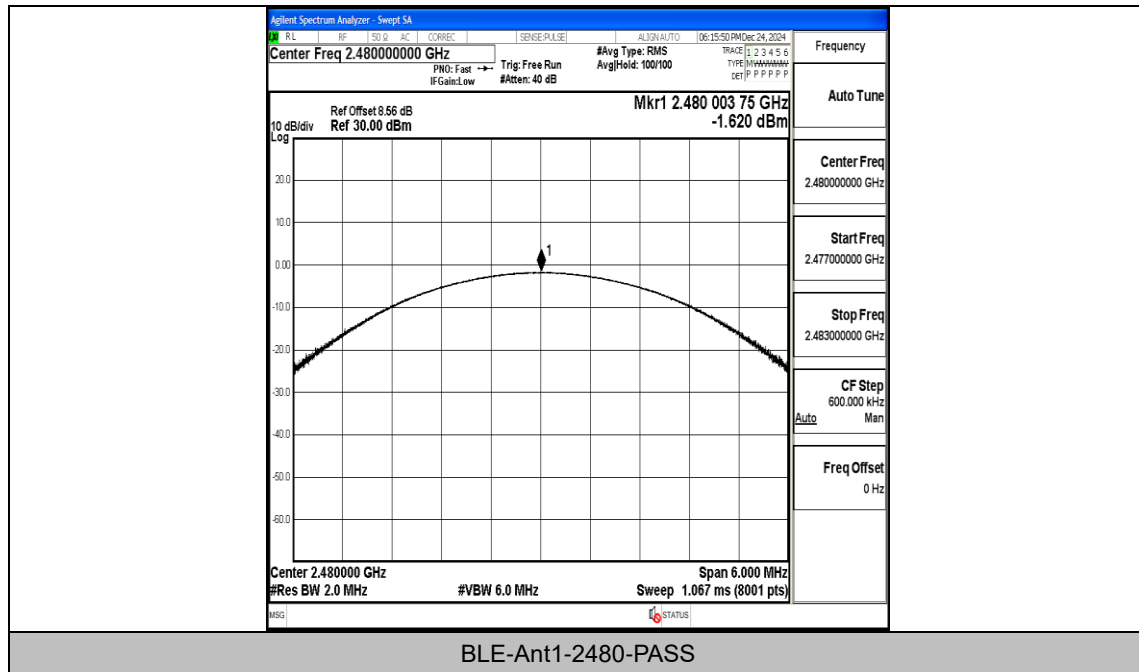
Appendix C: Maximum peak conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
BLE	Ant1	2402	-3.83	≤30	PASS
BLE	Ant1	2440	-1.45	≤30	PASS
BLE	Ant1	2480	-1.62	≤30	PASS

Test Graphs Peak



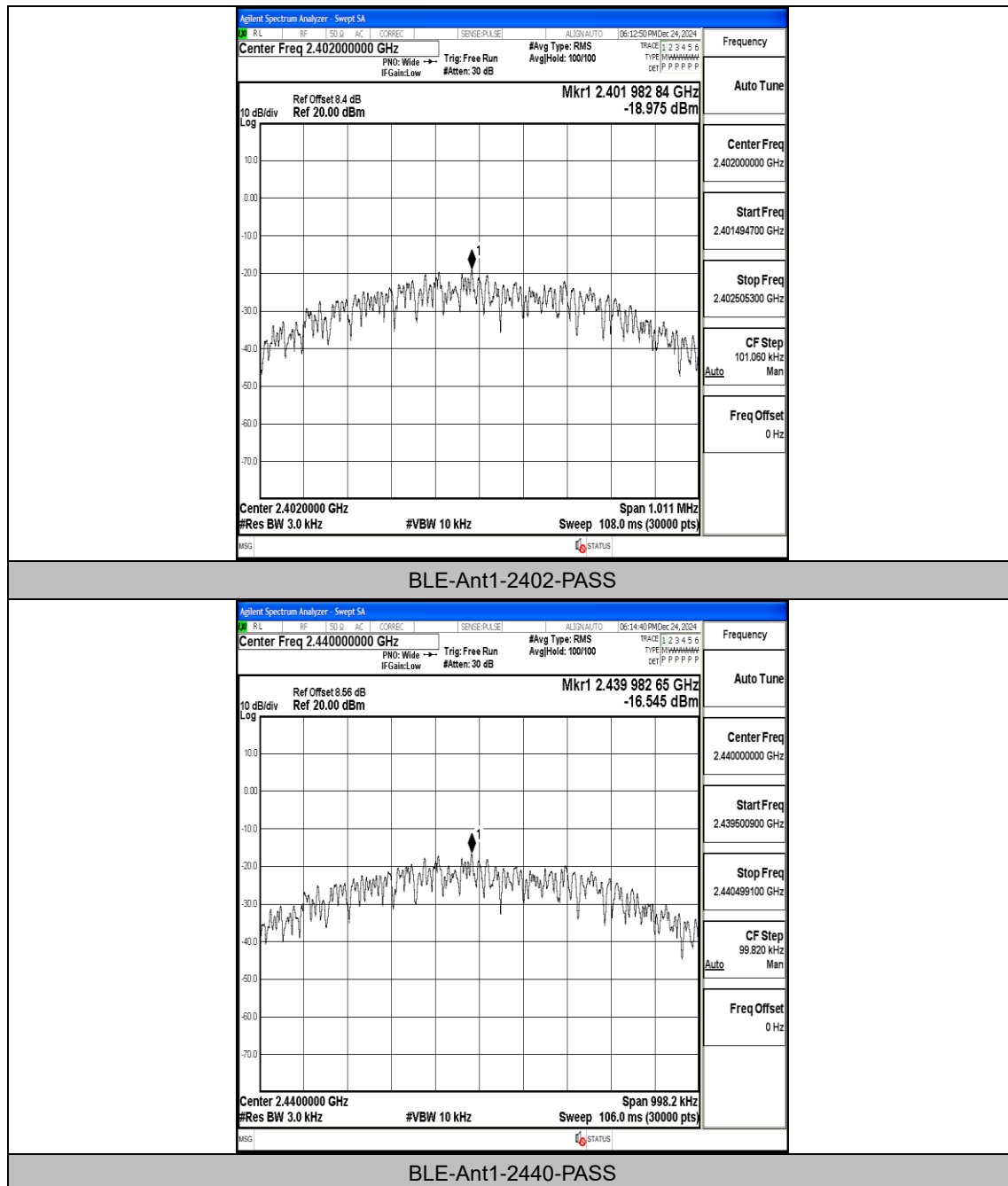


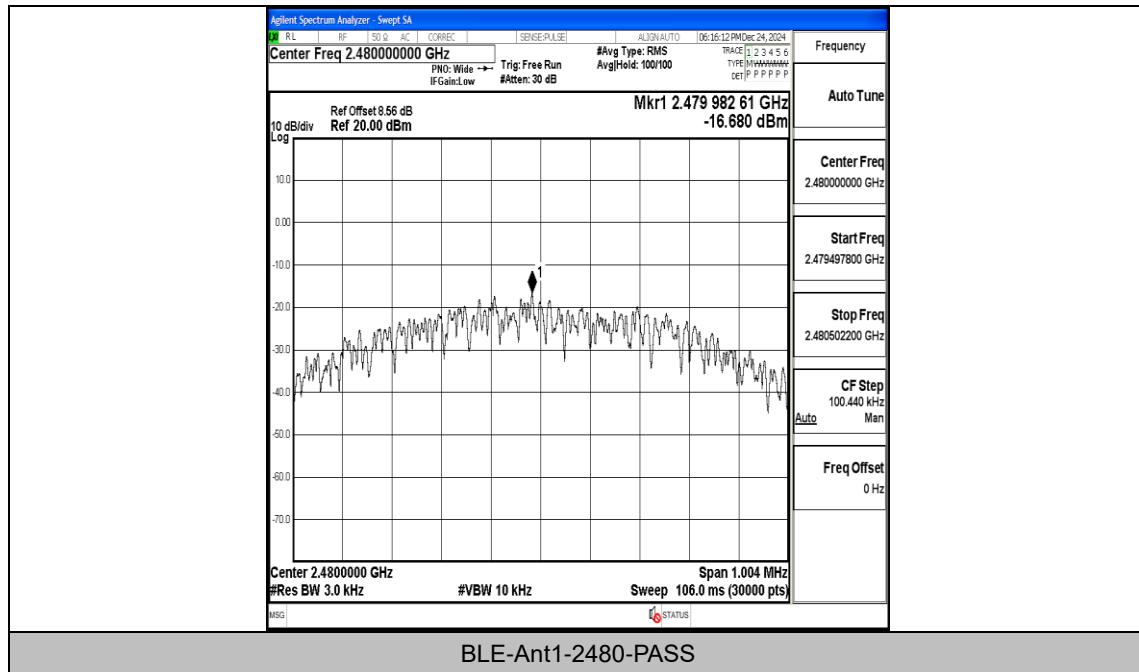
Appendix D: Maximum peak power spectral density

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
BLE	Ant1	2402	-18.98	≤8.00	PASS
BLE	Ant1	2440	-16.55	≤8.00	PASS
BLE	Ant1	2480	-16.68	≤8.00	PASS

Test Graphs



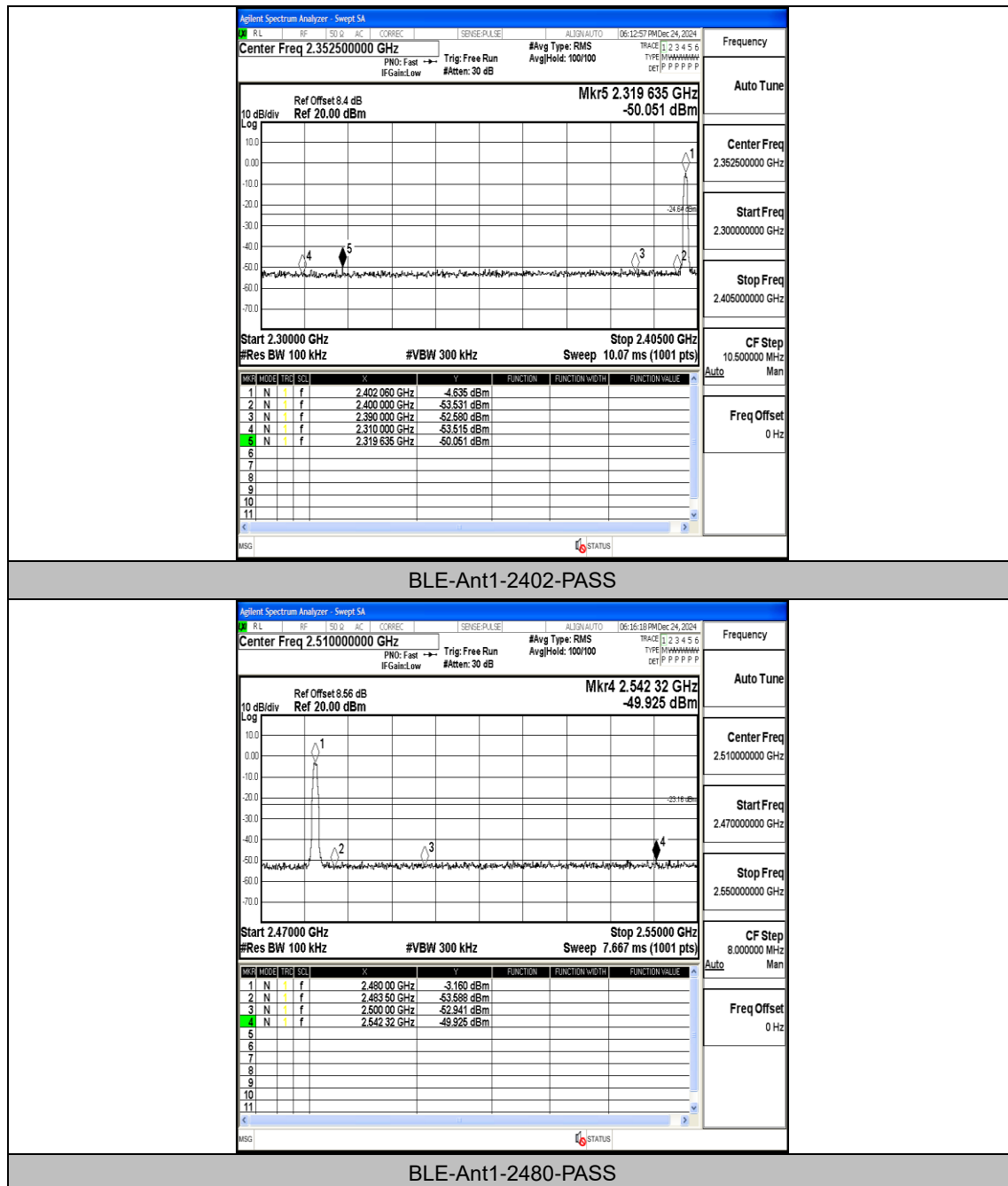


Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE	Ant1	Low	2402	-4.64	-50.05	≤ -24.64	PASS
BLE	Ant1	High	2480	-3.16	-49.93	≤ -23.16	PASS

Test Graphs

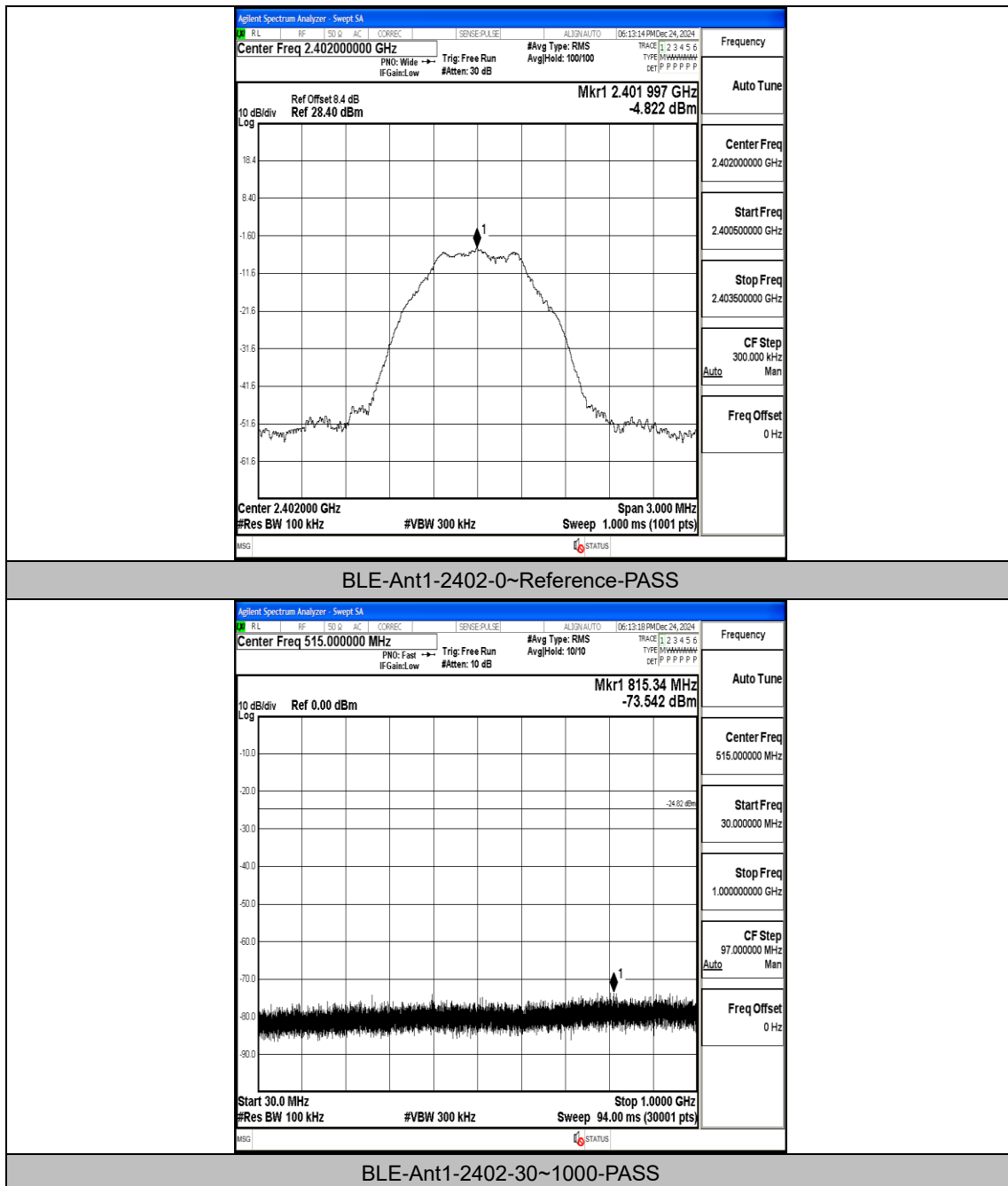


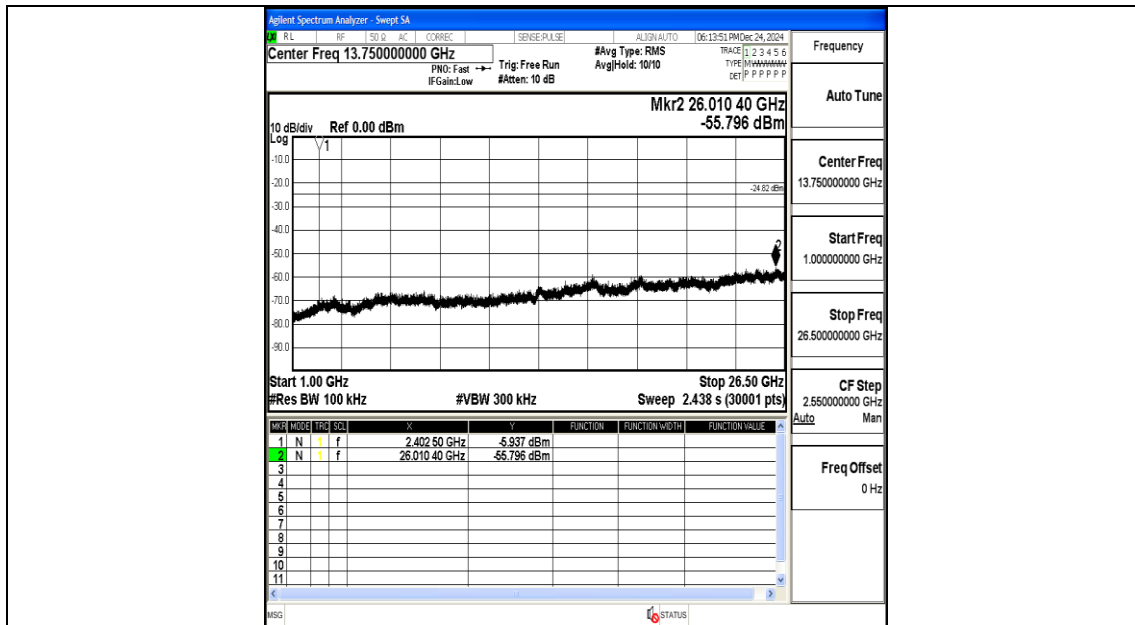
Appendix F: Conducted Spurious Emission

Test Result

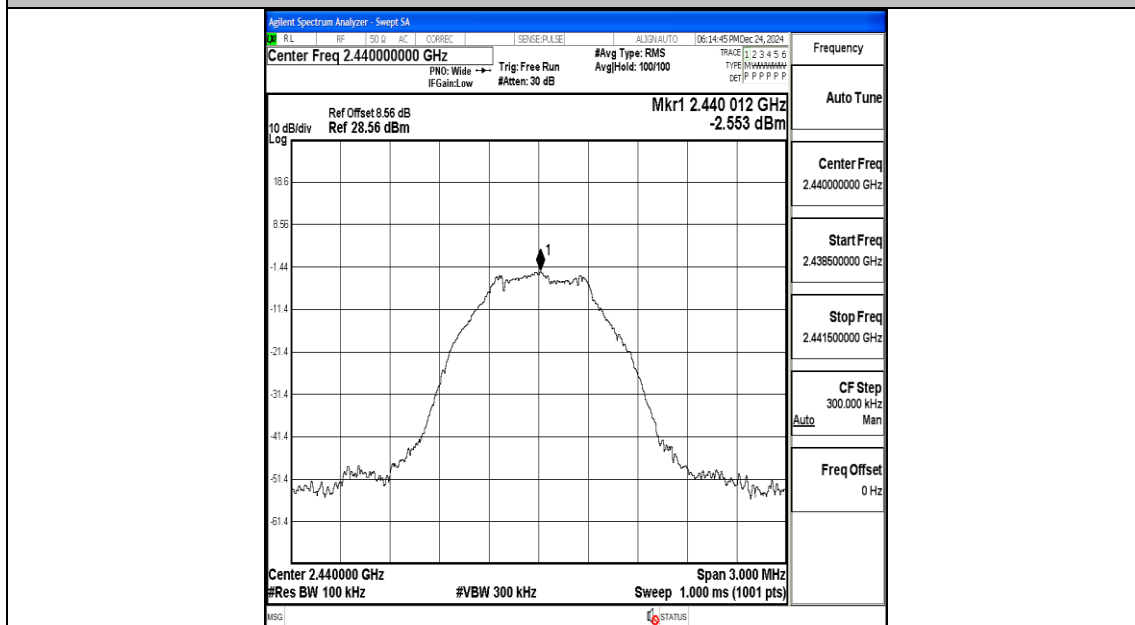
Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE	Ant1	2402	0~Reference	-4.82	-4.82	---	PASS
BLE	Ant1	2402	30~1000	-4.82	-73.54	≤-24.82	PASS
BLE	Ant1	2402	1000~26500	-4.82	-55.8	≤-24.82	PASS
BLE	Ant1	2440	0~Reference	-2.55	-2.55	---	PASS
BLE	Ant1	2440	30~1000	-2.55	-72.85	≤-22.55	PASS
BLE	Ant1	2440	1000~26500	-2.55	-54.52	≤-22.55	PASS
BLE	Ant1	2480	0~Reference	-2.54	-2.54	---	PASS
BLE	Ant1	2480	30~1000	-2.54	-72.67	≤-22.54	PASS
BLE	Ant1	2480	1000~26500	-2.54	-56.24	≤-22.54	PASS

Test Graphs

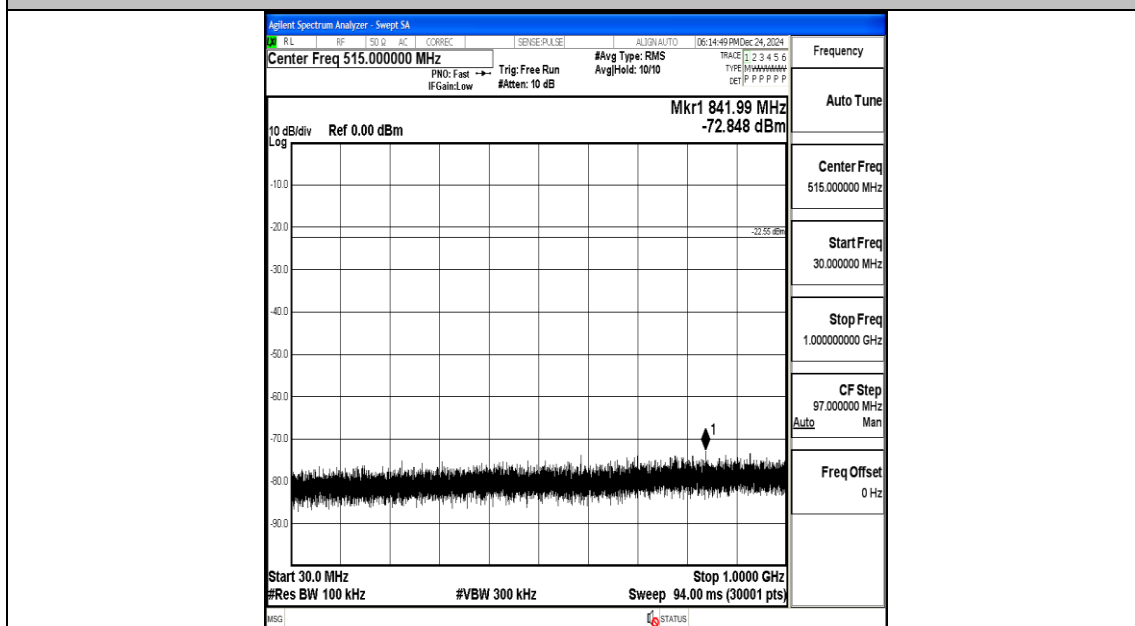




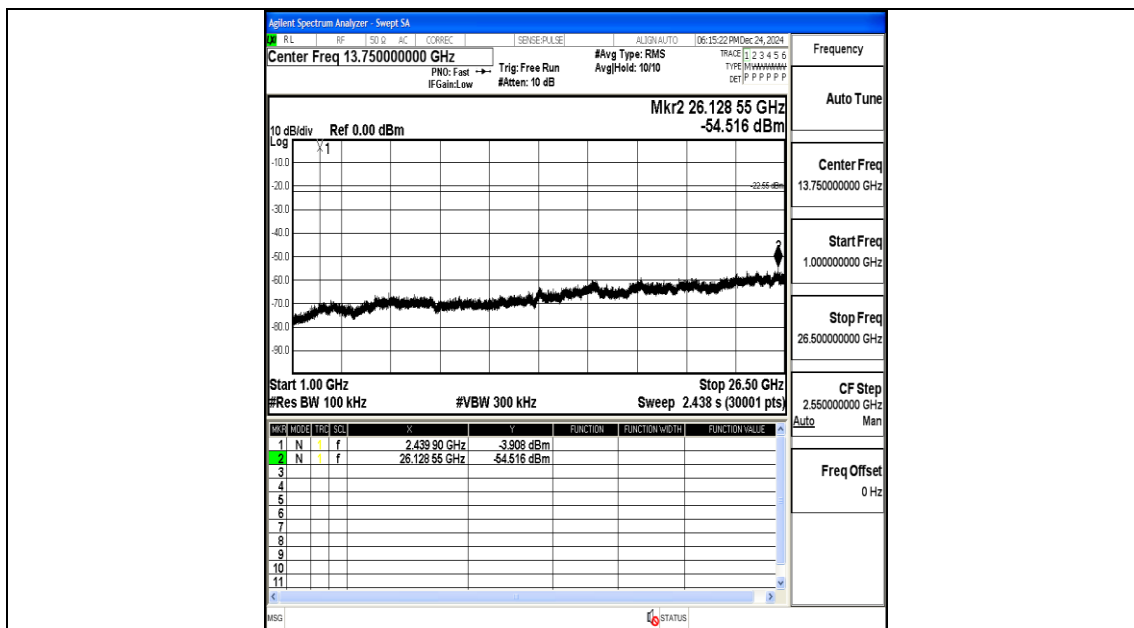
BLE-Ant1-2402-1000~26500-PASS



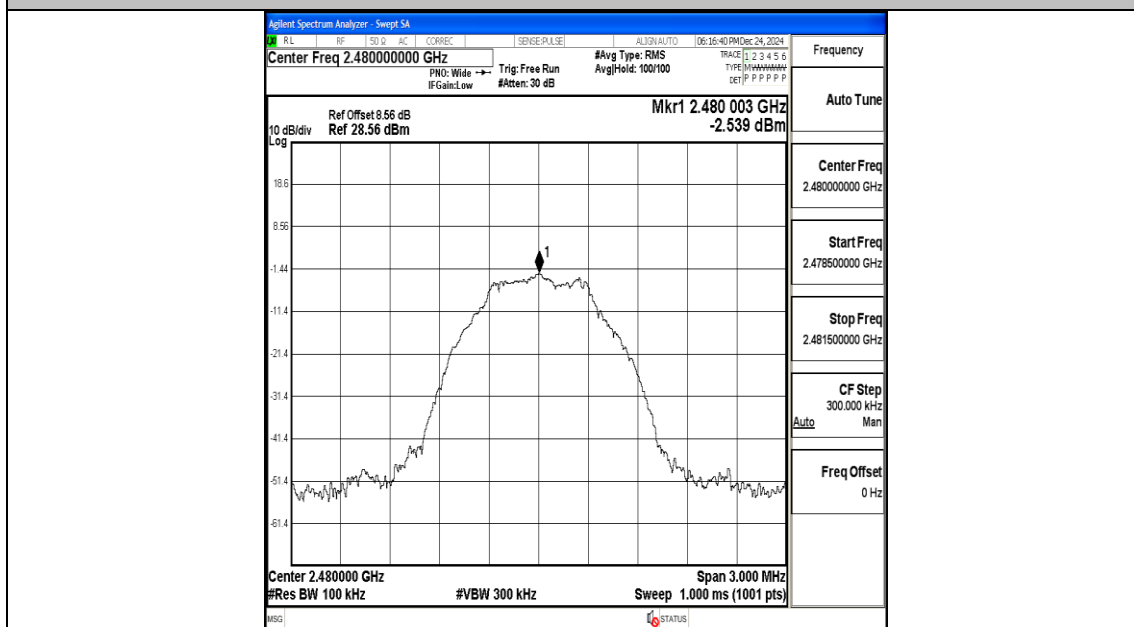
BLE-Ant1-2440-0~Reference-PASS



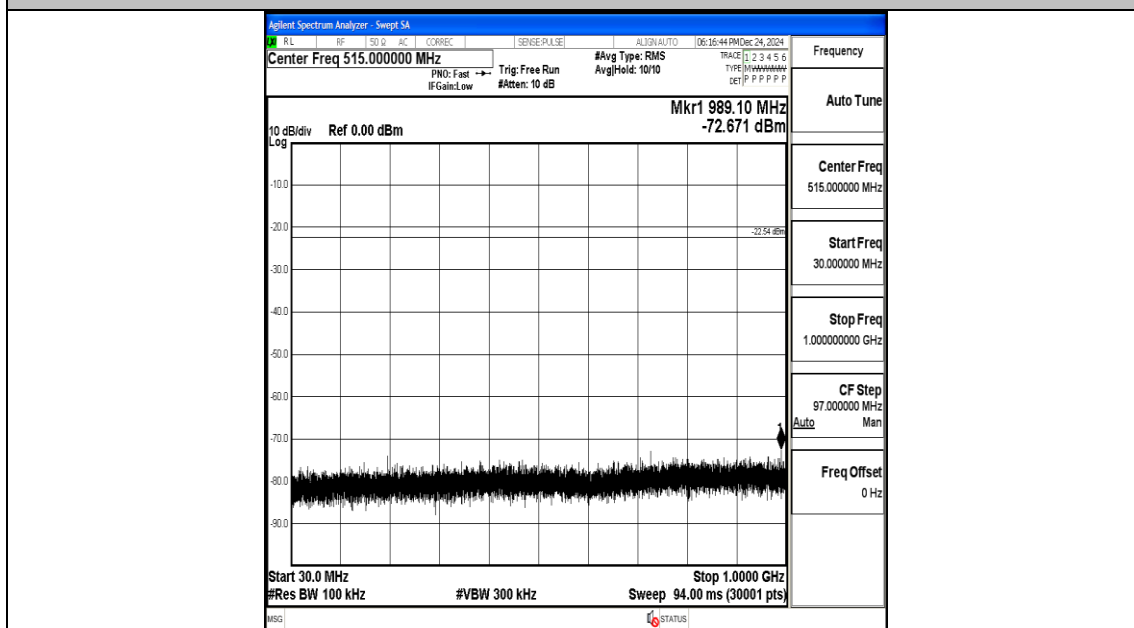
BLE-Ant1-2440-30~1000-PASS



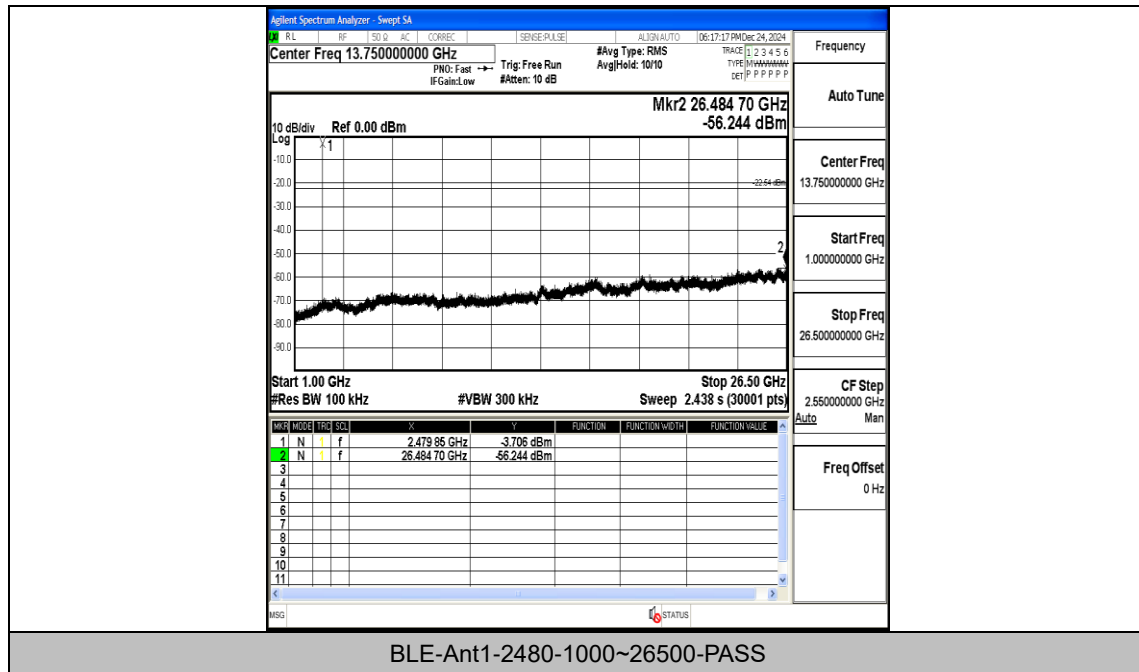
BLE-Ant1-2440-1000~26500-PASS



BLE-Ant1-2480-0~Reference-PASS



BLE-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	Ant1	2402	19.00	19.00	100.00	0.00
BLE	Ant1	2440	19.00	19.00	100.00	0.00
BLE	Ant1	2480	19.00	19.00	100.00	0.00

Test Graphs

