

Appendix Test Data for BLE (Conducted Measurement)

Product Name: Wireless Keyboard

Trade Mark: Keychron

Test Model: K2 HE

FCC ID: 2BGKB-K2HE

Environmental Conditions

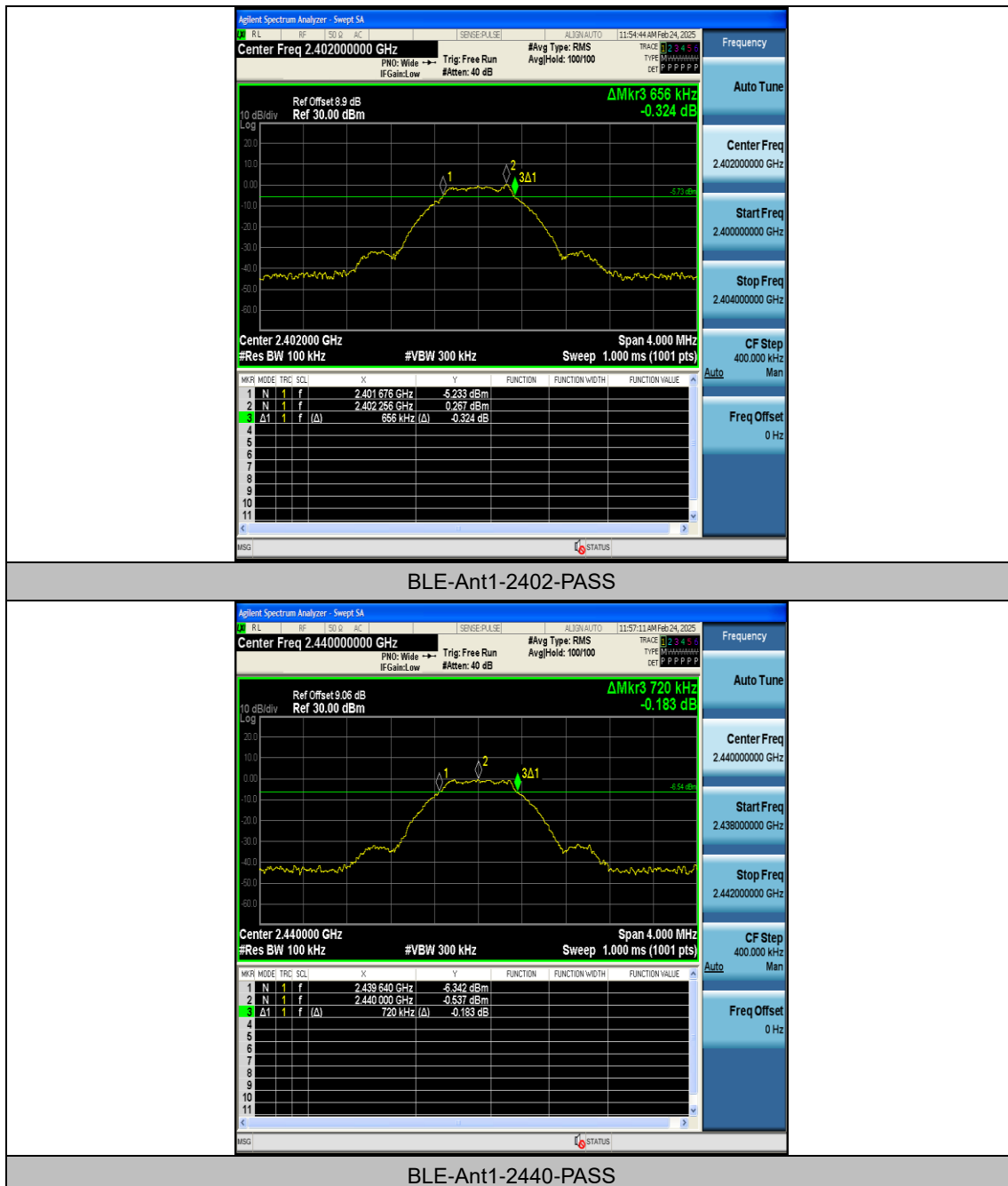
Temperature:	23.5℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

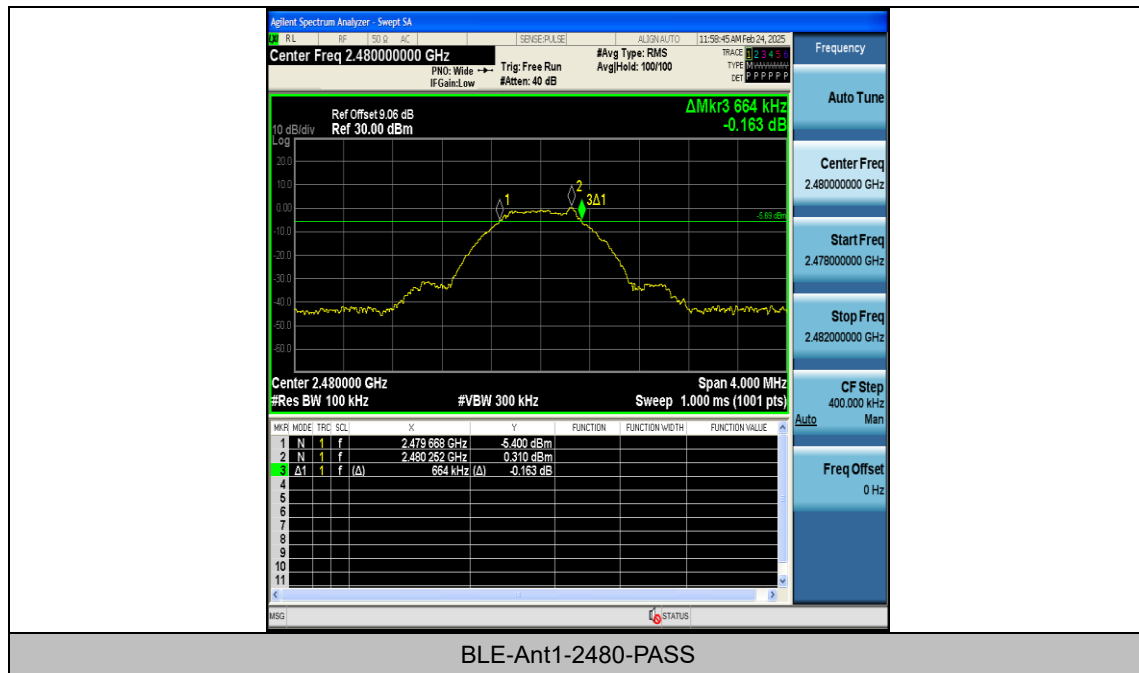
Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
BLE	Ant1	2402	0.656	2401.676	2402.332	0.5	PASS
BLE	Ant1	2440	0.720	2439.640	2440.360	0.5	PASS
BLE	Ant1	2480	0.664	2479.668	2480.332	0.5	PASS

Test Graphs



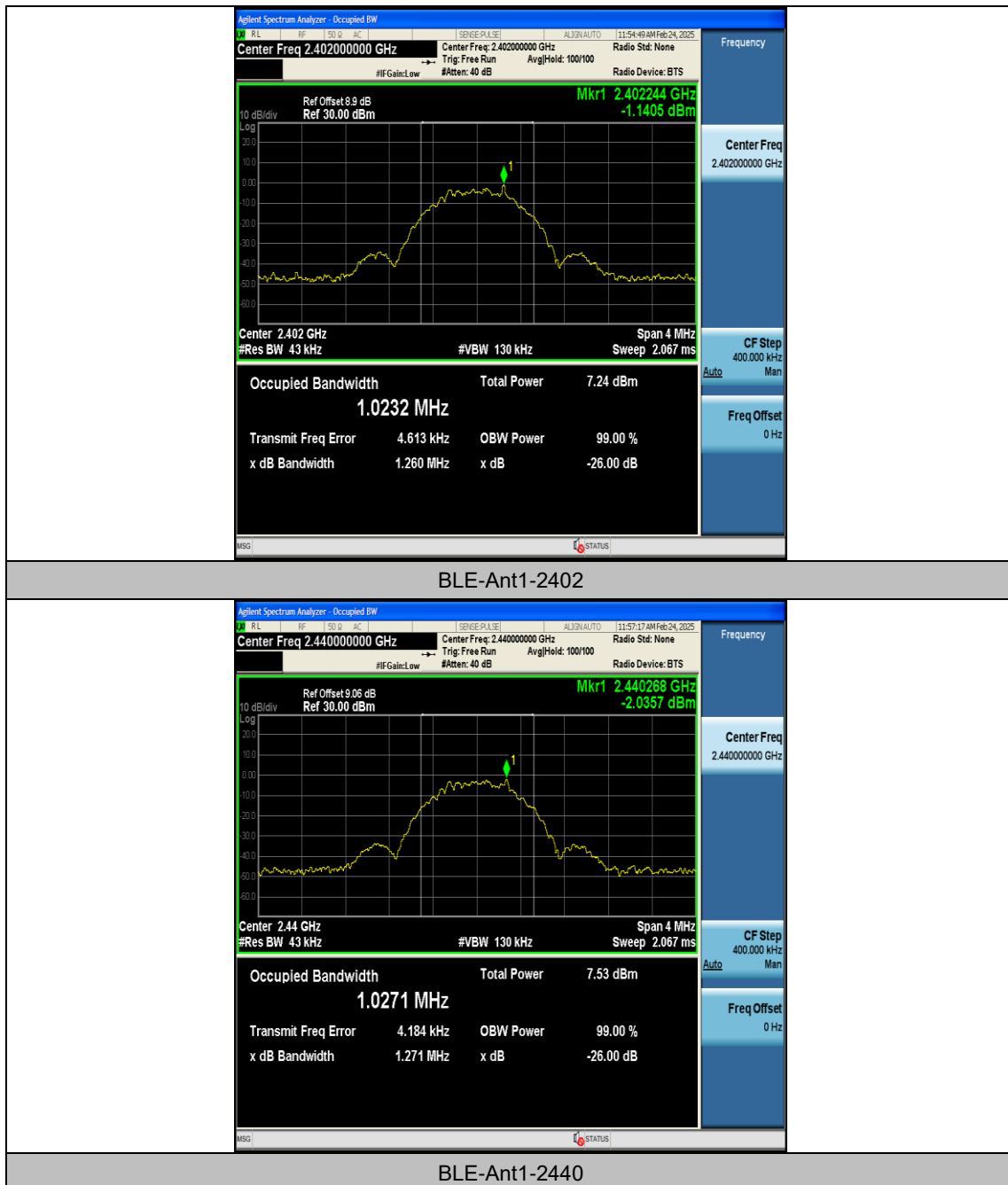


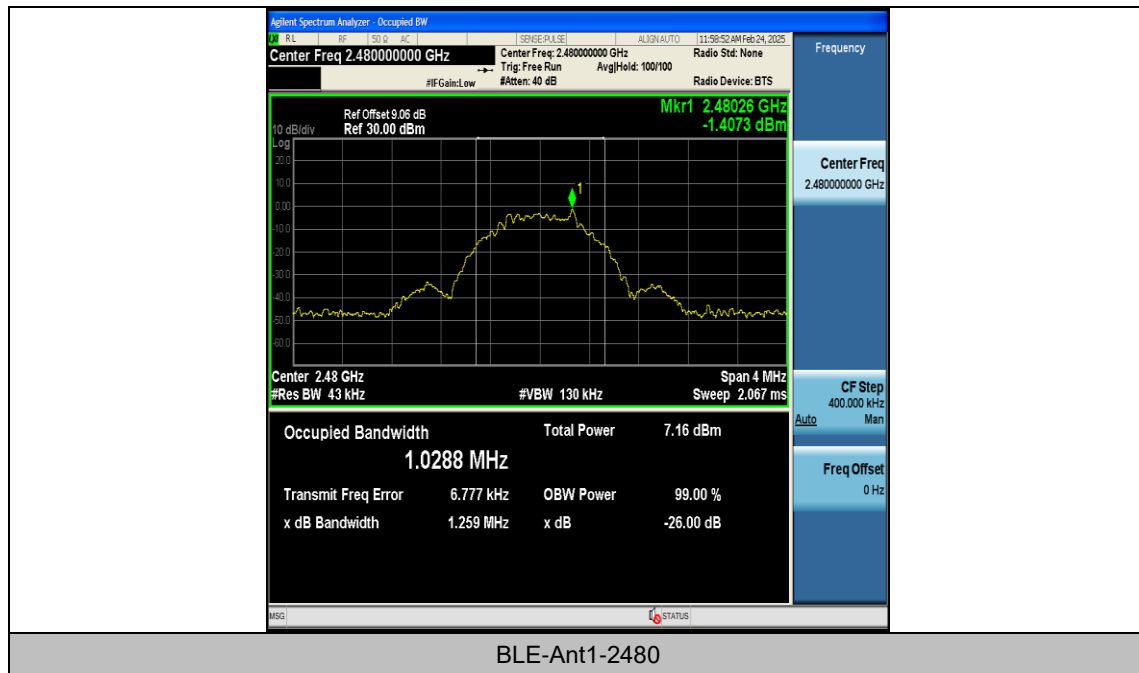
Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
BLE	Ant1	2402	1.0232	2401.4930	2402.5162	---	---
BLE	Ant1	2440	1.0271	2439.4906	2440.5177	---	---
BLE	Ant1	2480	1.0288	2479.4924	2480.5212	---	---

Test Graphs



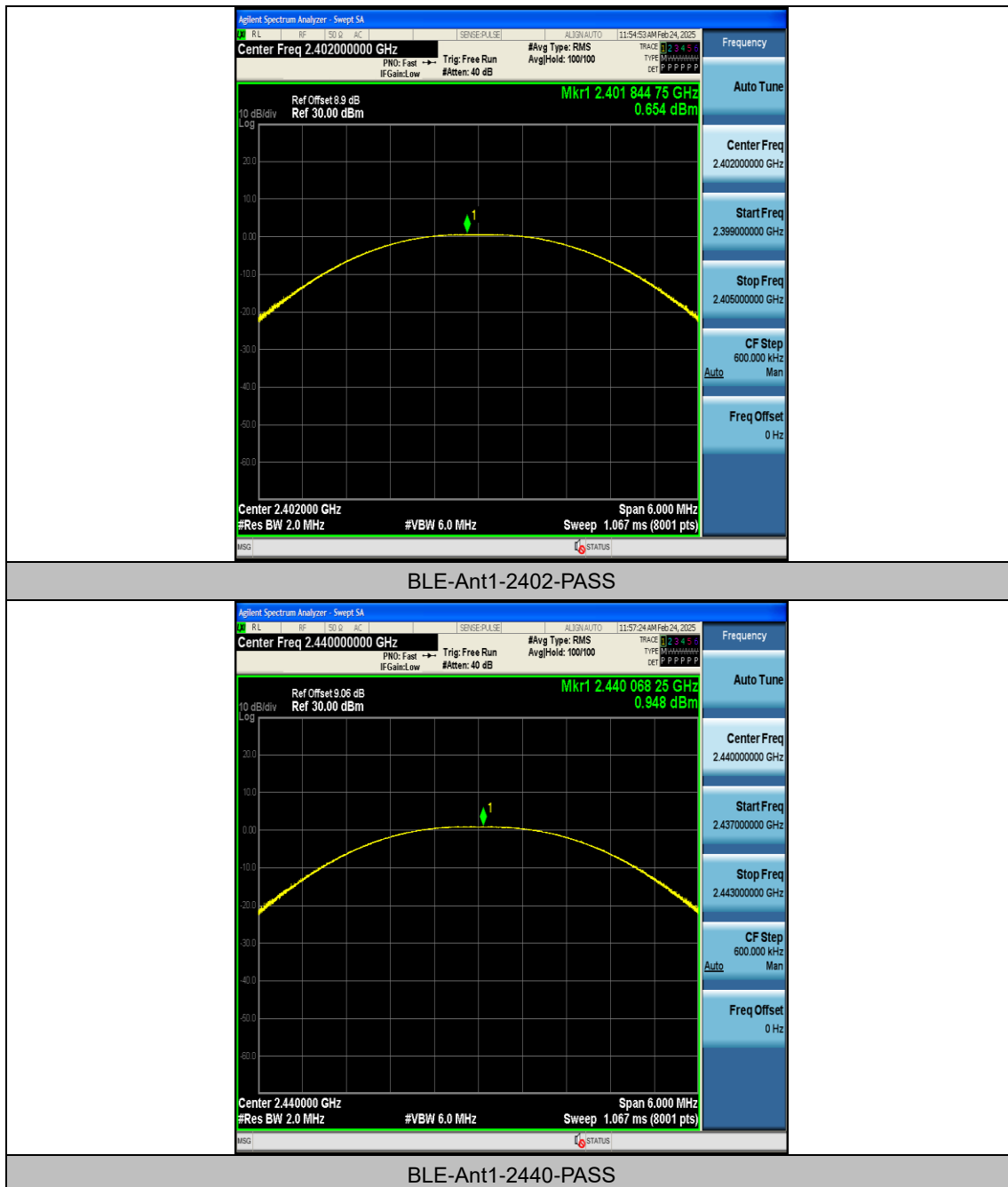


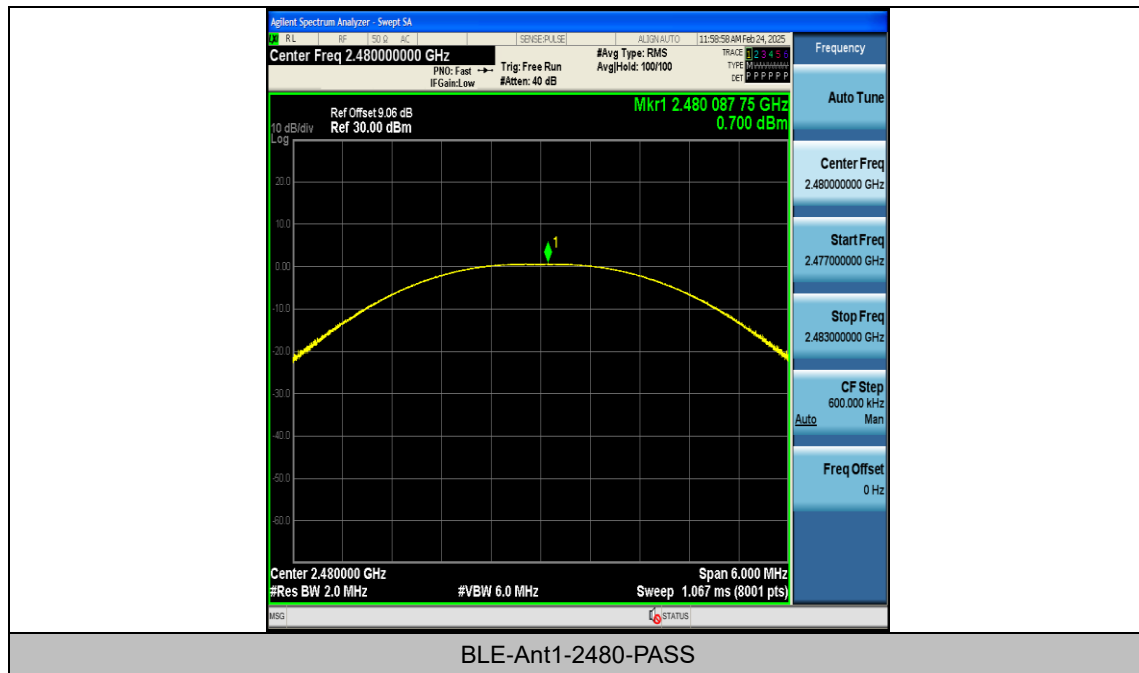
Appendix C: Maximum peak conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
BLE	Ant1	2402	0.65	≤30	PASS
BLE	Ant1	2440	0.95	≤30	PASS
BLE	Ant1	2480	0.70	≤30	PASS

Test Graphs Peak



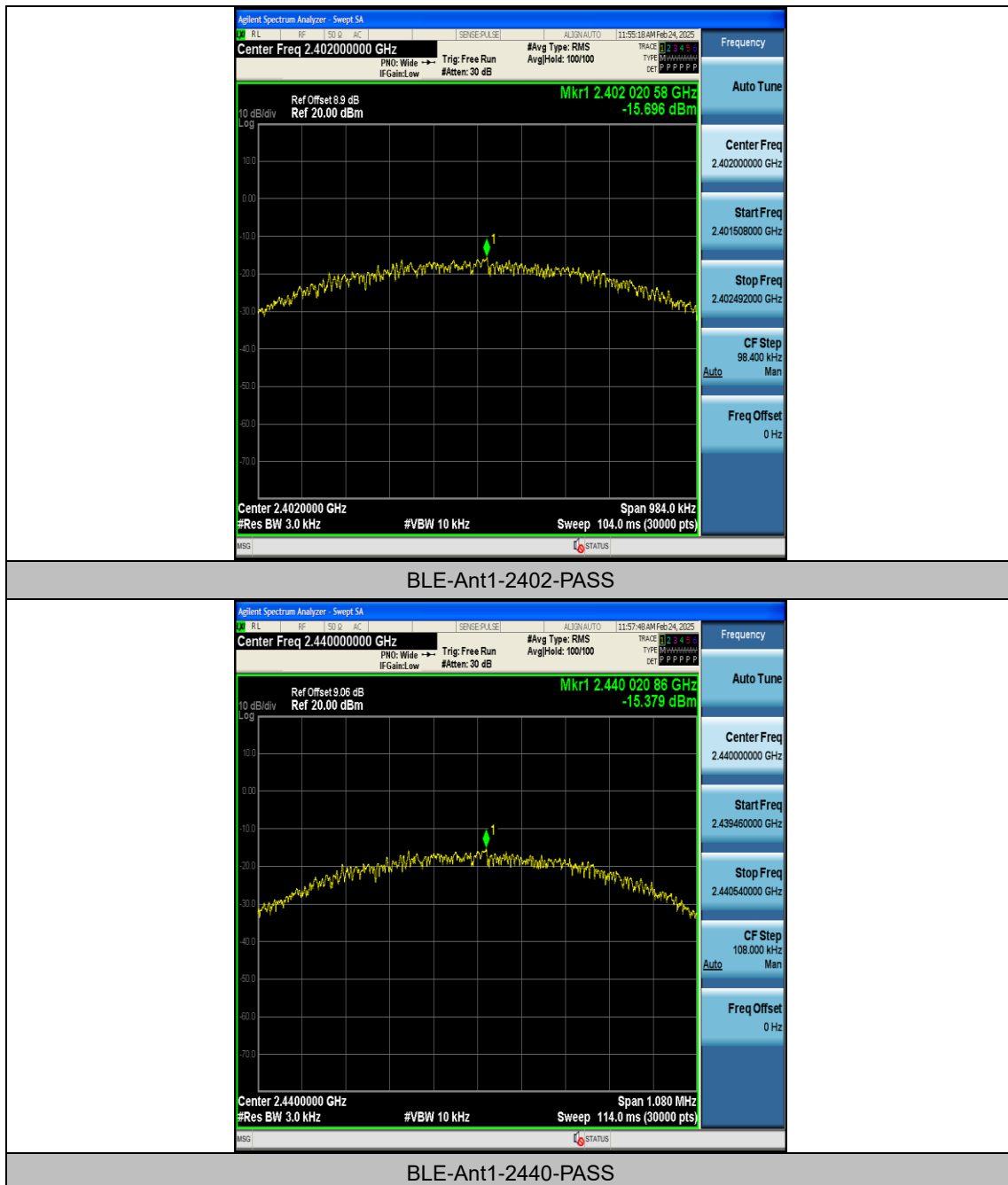


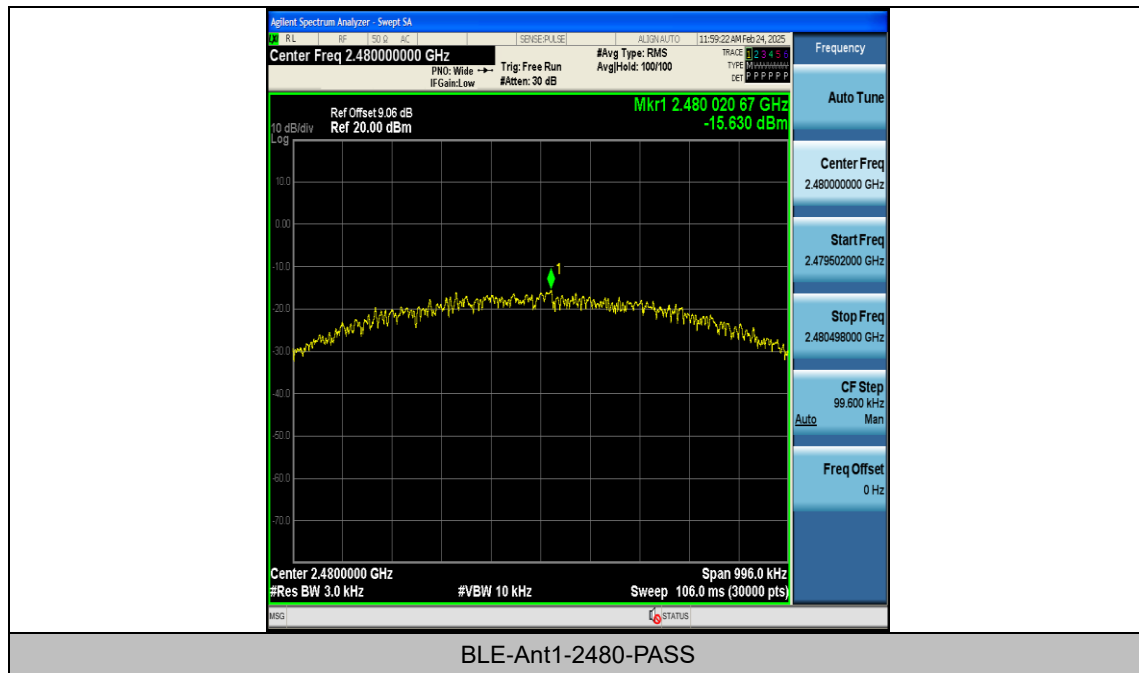
Appendix D: Maximum peak power spectral density

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
BLE	Ant1	2402	-15.70	≤8.00	PASS
BLE	Ant1	2440	-15.38	≤8.00	PASS
BLE	Ant1	2480	-15.63	≤8.00	PASS

Test Graphs



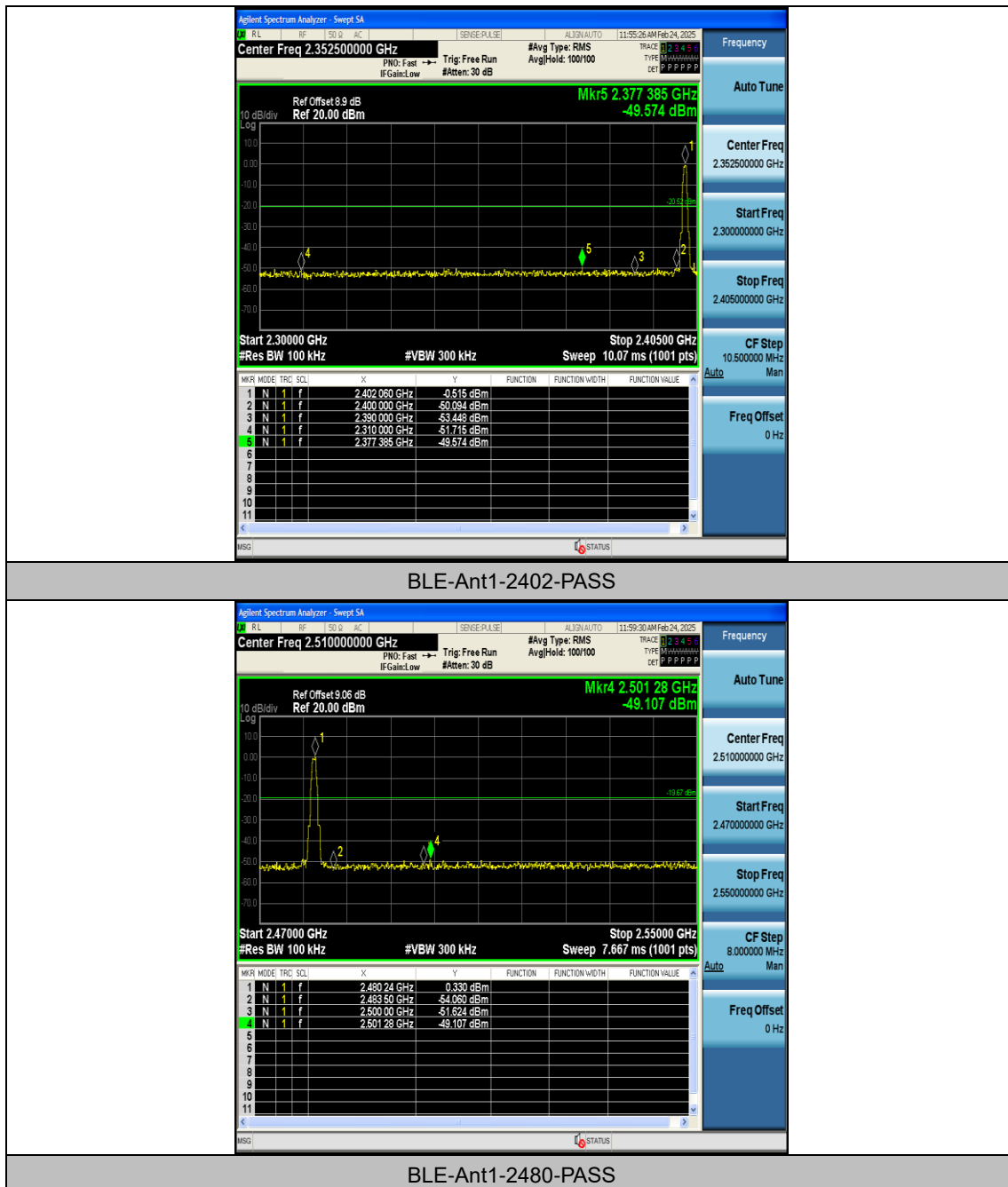


Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE	Ant1	Low	2402	-0.52	-49.57	≤ -20.52	PASS
BLE	Ant1	High	2480	0.33	-49.11	≤ -19.67	PASS

Test Graphs

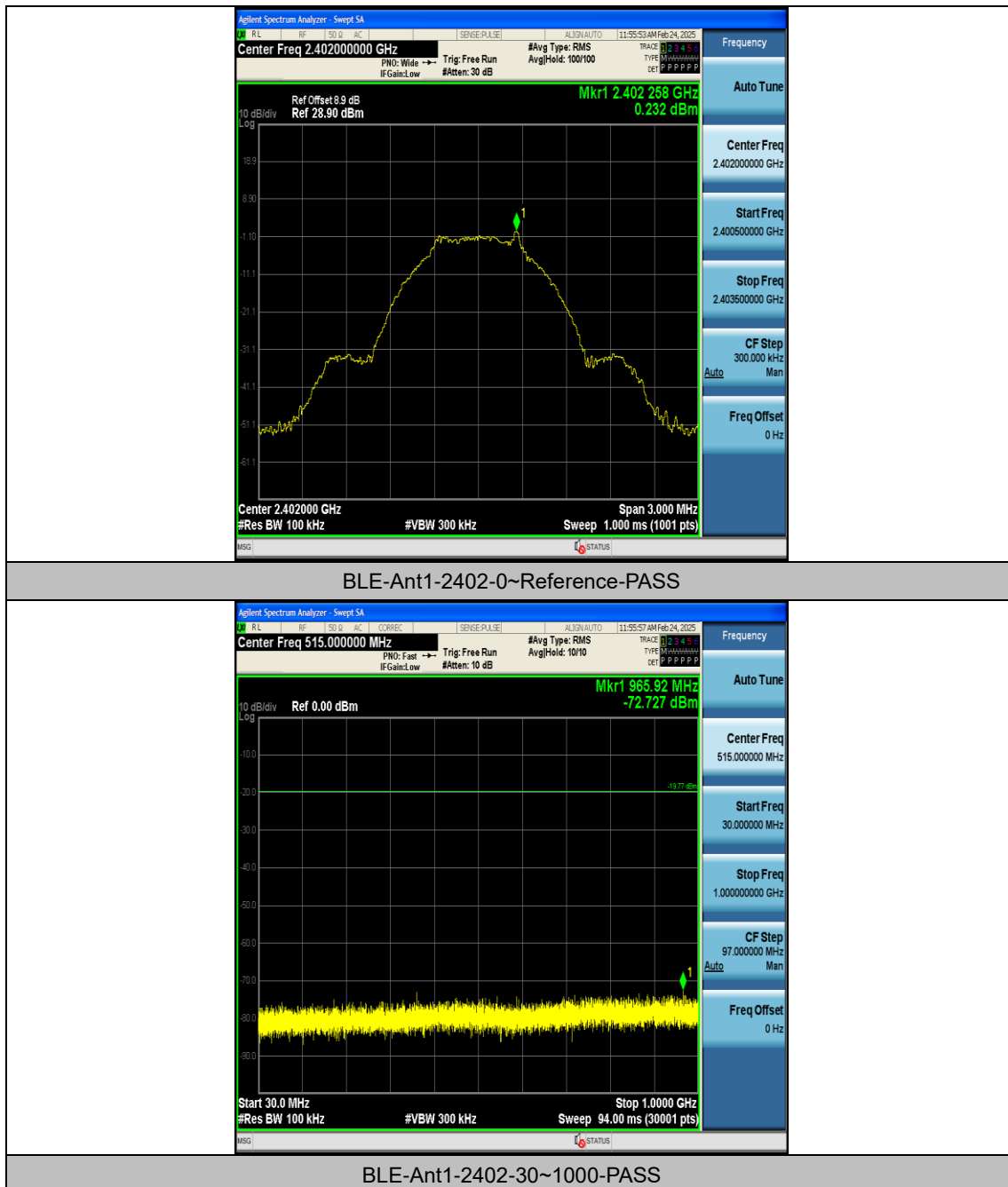


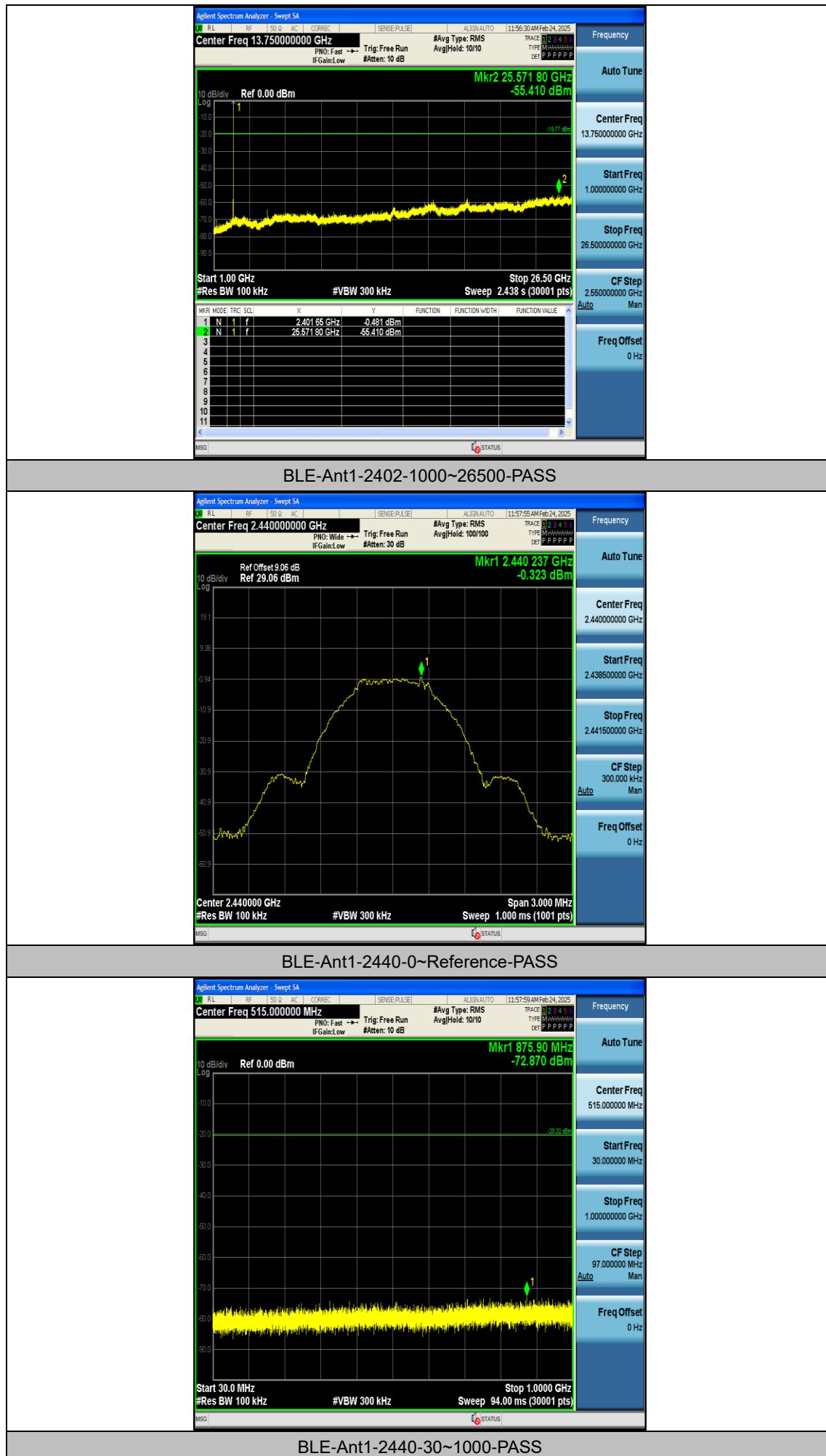
Appendix F: Conducted Spurious Emission

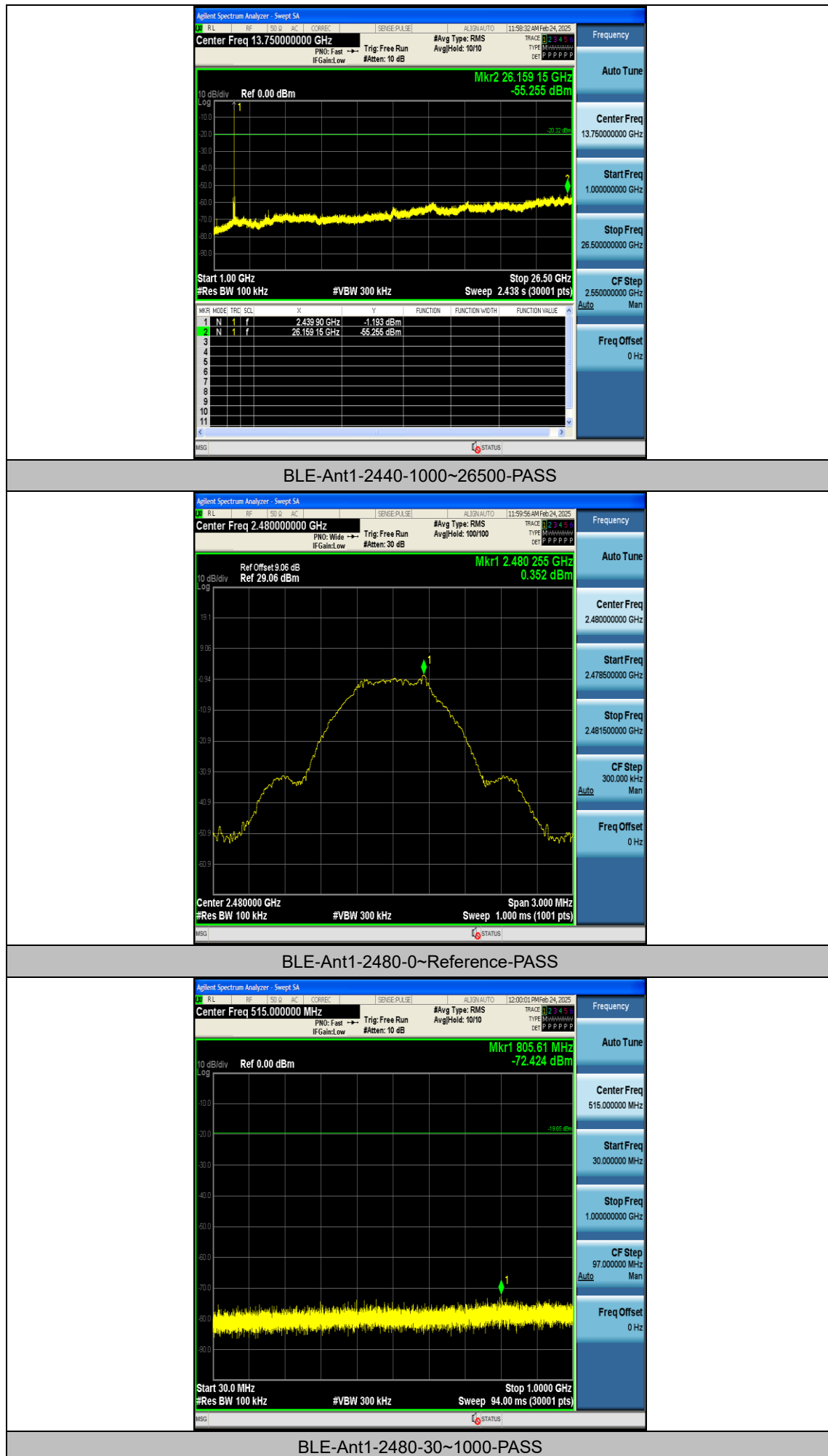
Test Result

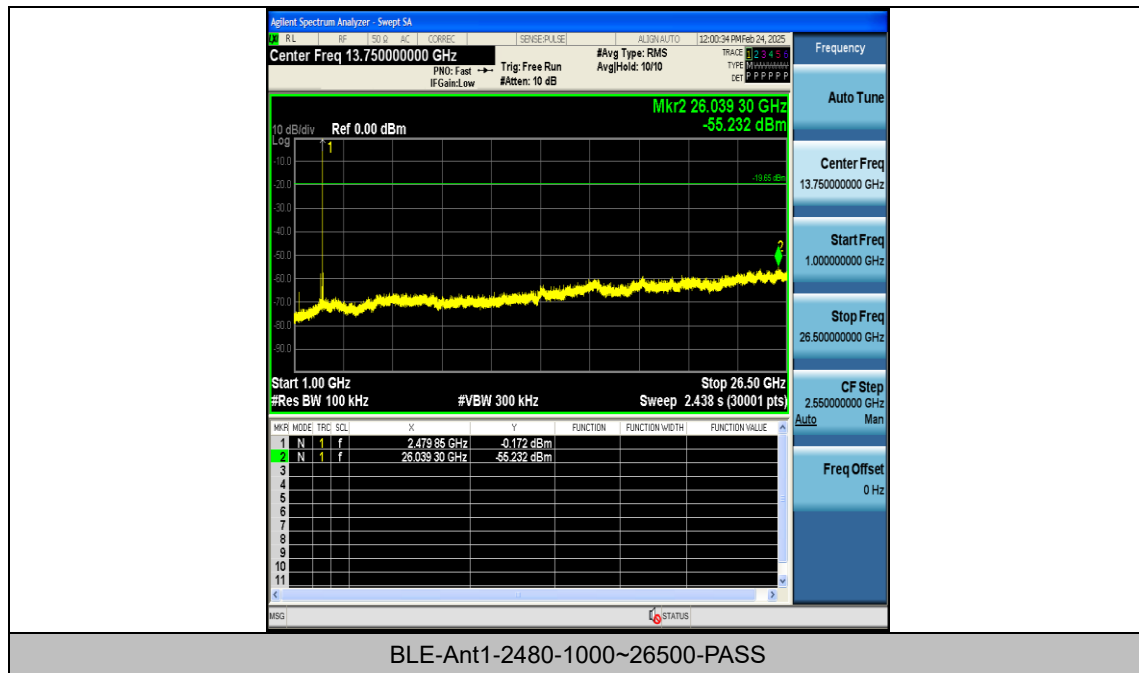
Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE	Ant1	2402	0~Reference	0.23	0.23	---	PASS
BLE	Ant1	2402	30~1000	0.23	-72.73	≤-19.77	PASS
BLE	Ant1	2402	1000~26500	0.23	-55.41	≤-19.77	PASS
BLE	Ant1	2440	0~Reference	-0.32	-0.32	---	PASS
BLE	Ant1	2440	30~1000	-0.32	-72.87	≤-20.32	PASS
BLE	Ant1	2440	1000~26500	-0.32	-55.26	≤-20.32	PASS
BLE	Ant1	2480	0~Reference	0.35	0.35	---	PASS
BLE	Ant1	2480	30~1000	0.35	-72.42	≤-19.65	PASS
BLE	Ant1	2480	1000~26500	0.35	-55.23	≤-19.65	PASS

Test Graphs









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

