

Appendix Test Data for BLE (Conducted Measurement)

Product Name: Wireless Keyboard

Trade Mark: Keychron

Test Model: V1 Ultra

FCC ID: 2BGKB-V1ULTRA

Environmental Conditions

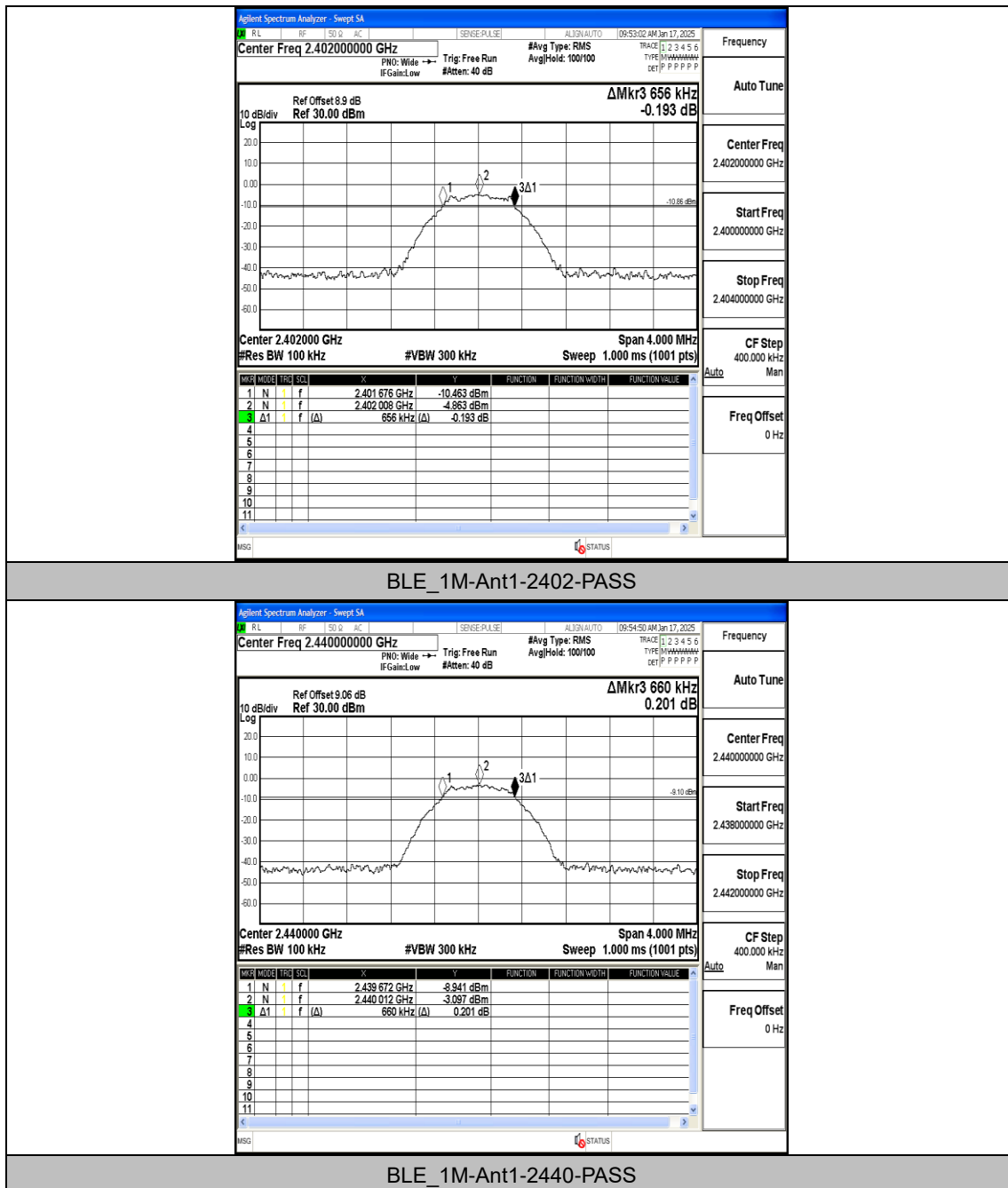
Temperature:	23.5℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

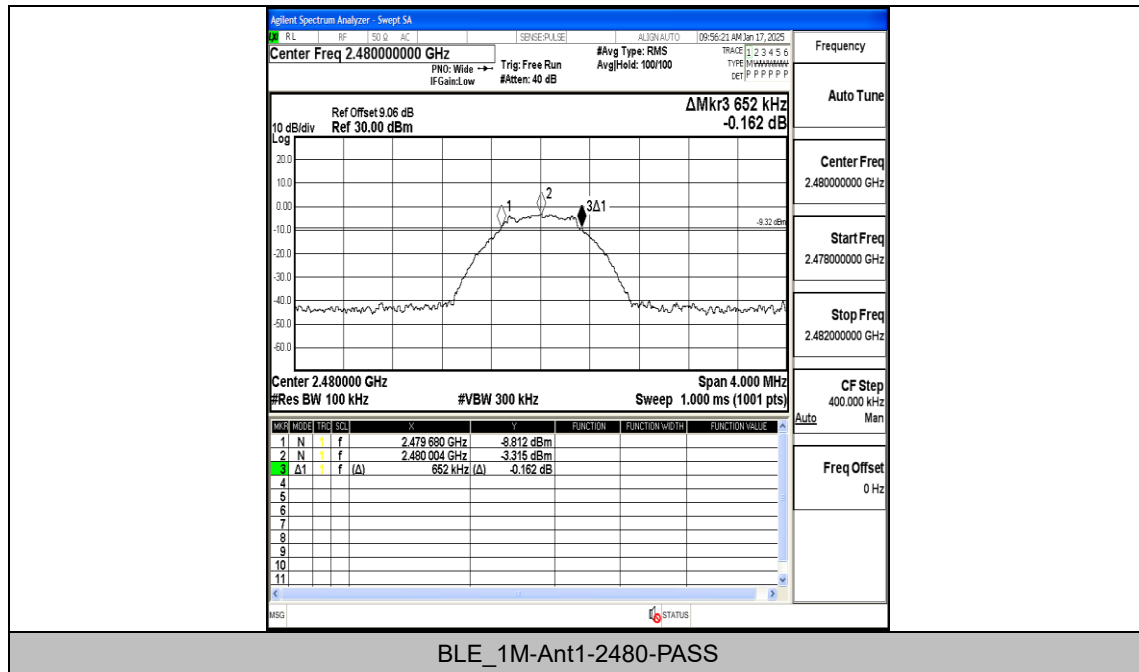
Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	0.656	2401.676	2402.332	0.5	PASS
BLE_1M	Ant1	2440	0.660	2439.672	2440.332	0.5	PASS
BLE_1M	Ant1	2480	0.652	2479.680	2480.332	0.5	PASS

Test Graphs



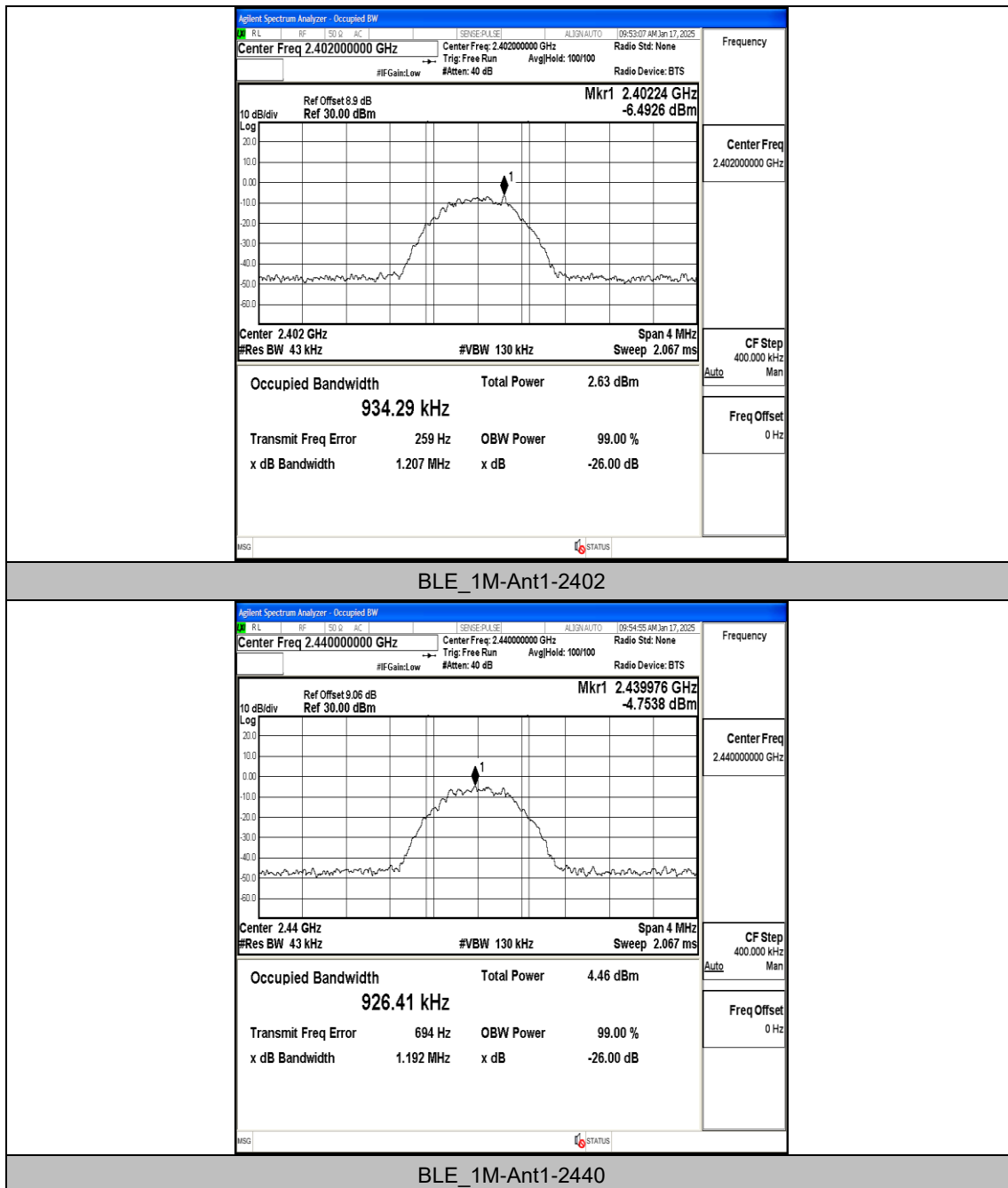


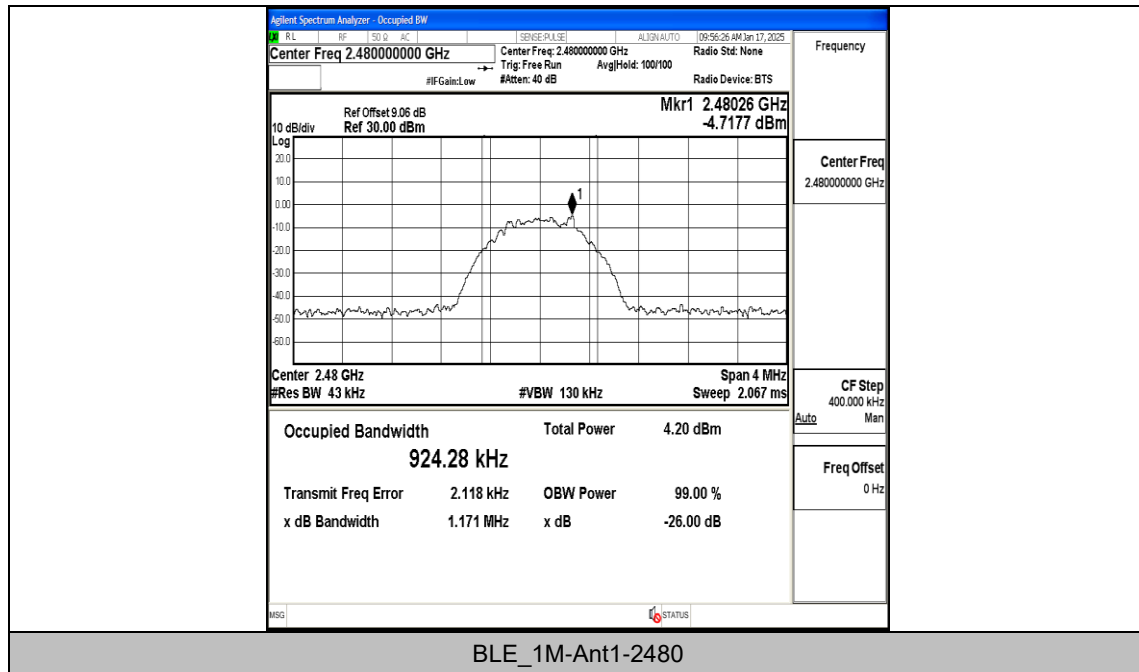
Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	0.93429	2401.5331	2402.4674	---	---
BLE_1M	Ant1	2440	0.92641	2439.5375	2440.4639	---	---
BLE_1M	Ant1	2480	0.92428	2479.5400	2480.4643	---	---

Test Graphs



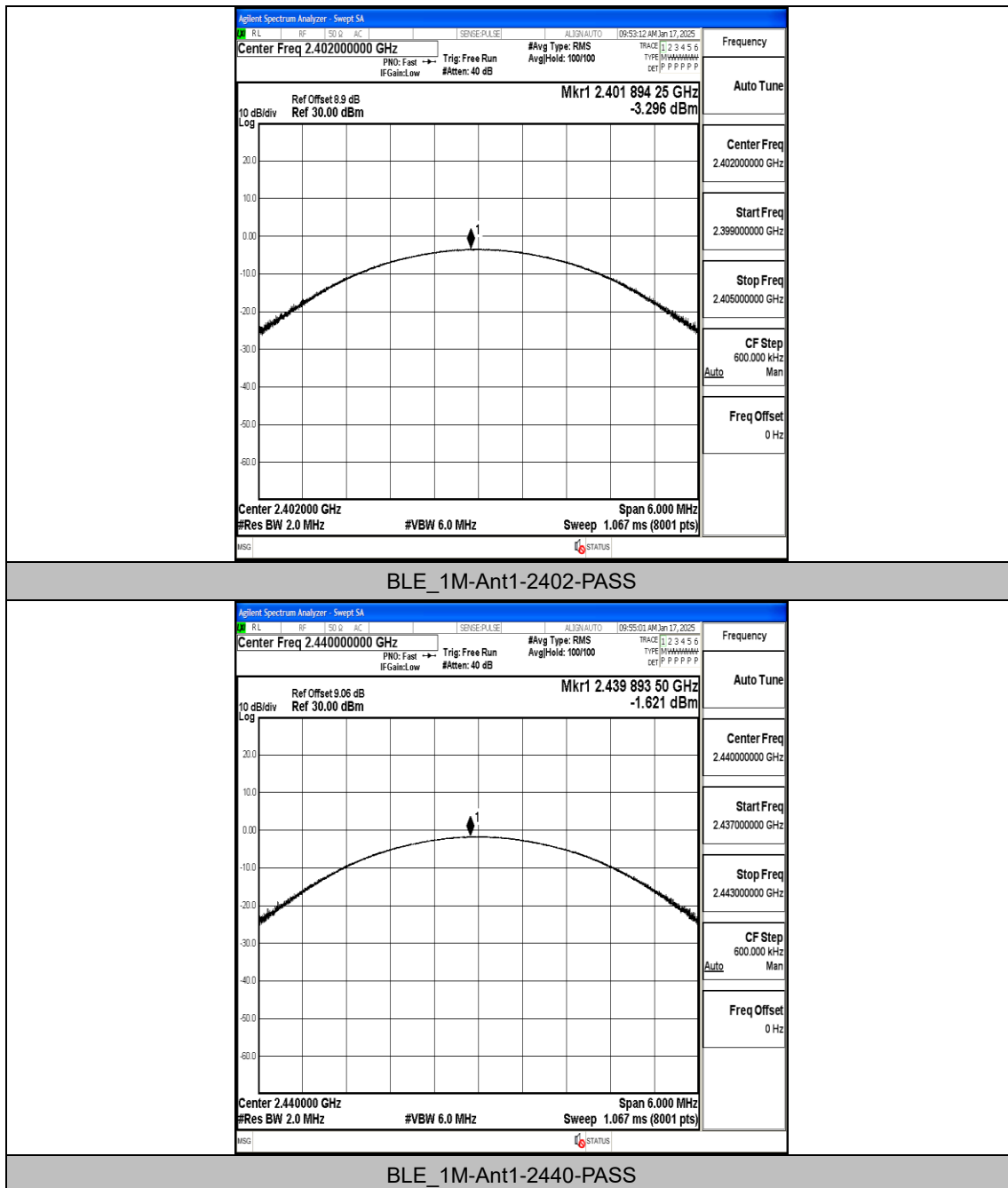


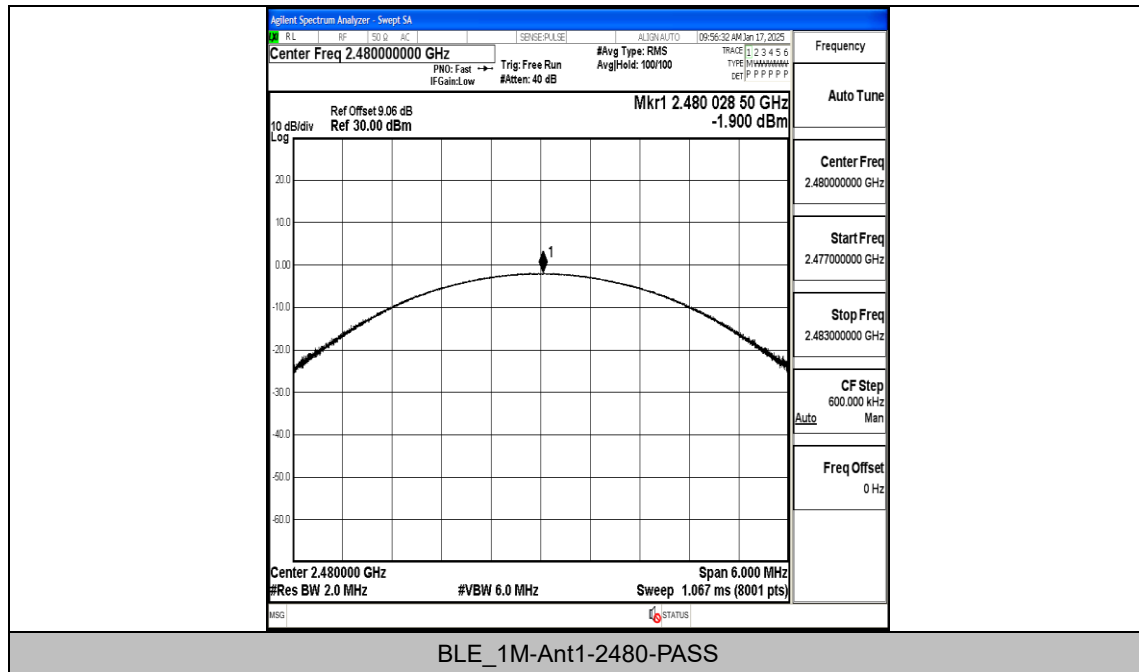
Appendix C: Maximum peak conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
BLE_1M	Ant1	2402	-3.30	≤30	PASS
BLE_1M	Ant1	2440	-1.62	≤30	PASS
BLE_1M	Ant1	2480	-1.90	≤30	PASS

Test Graphs Peak



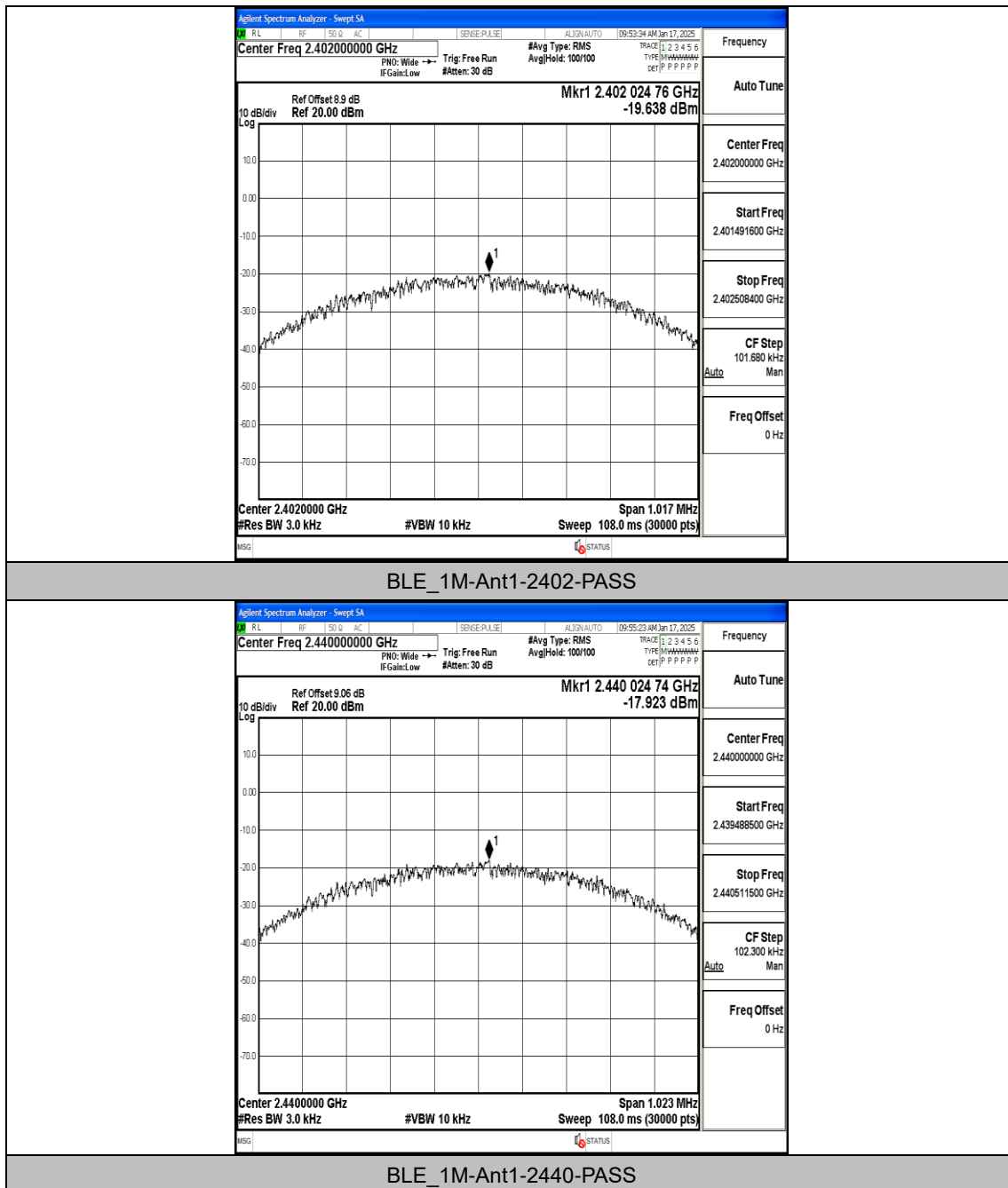


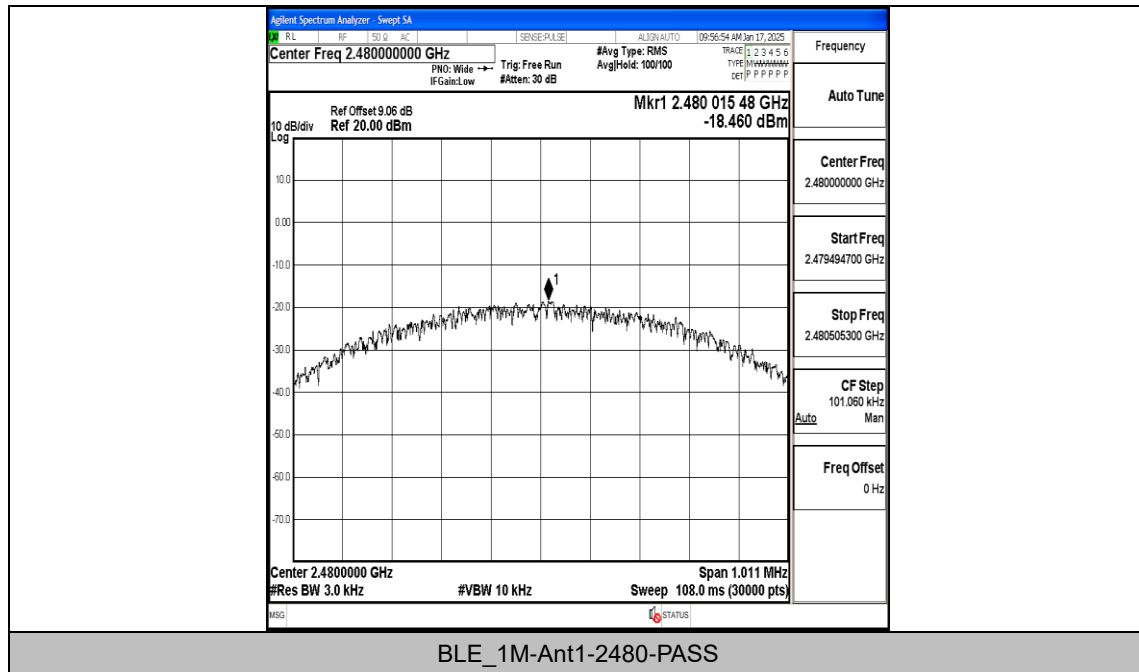
Appendix D: Maximum peak power spectral density

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-19.64	≤8.00	PASS
BLE_1M	Ant1	2440	-17.92	≤8.00	PASS
BLE_1M	Ant1	2480	-18.46	≤8.00	PASS

Test Graphs



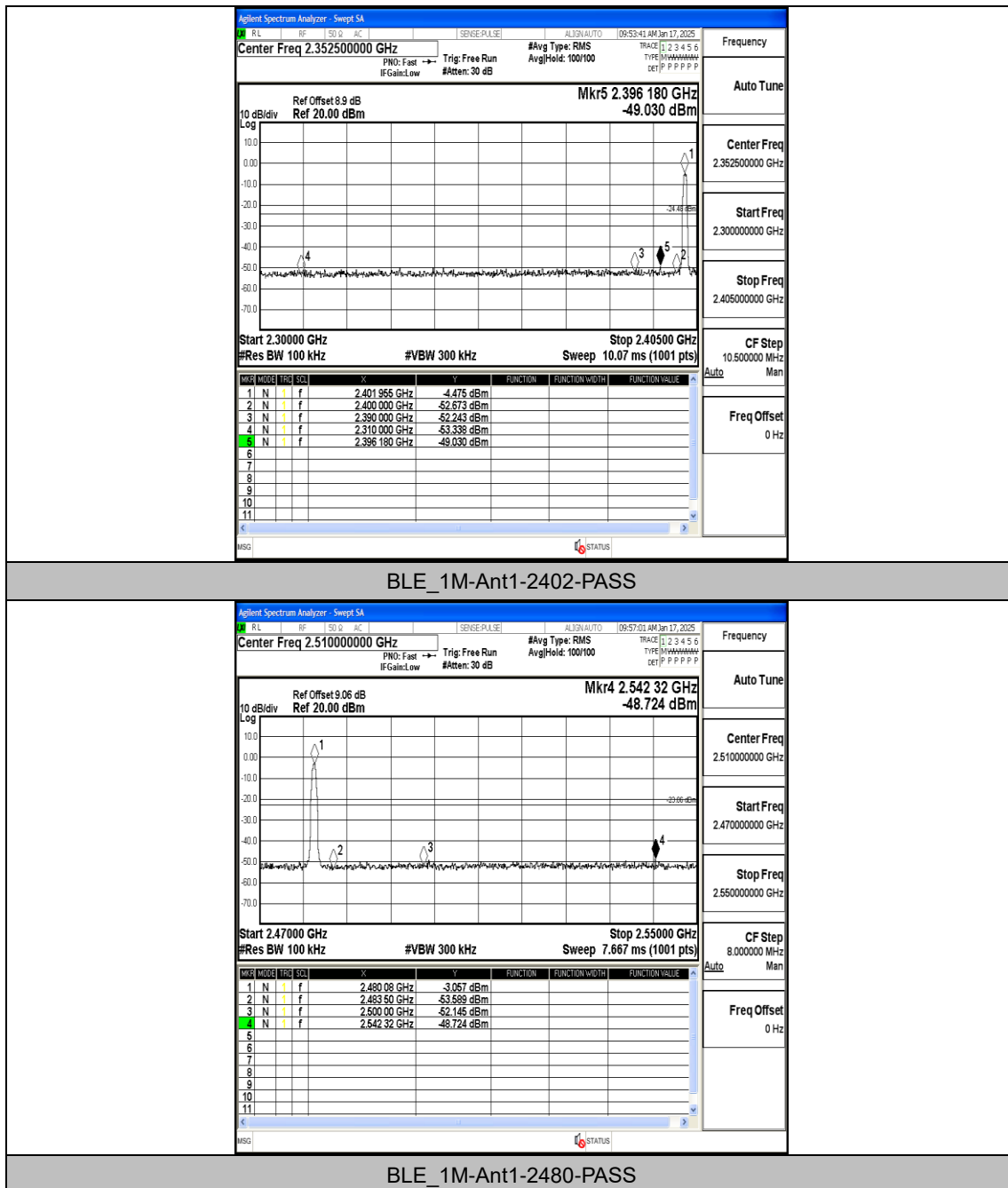


Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-4.48	-49.03	≤-24.48	PASS
BLE_1M	Ant1	High	2480	-3.06	-48.72	≤-23.06	PASS

Test Graphs

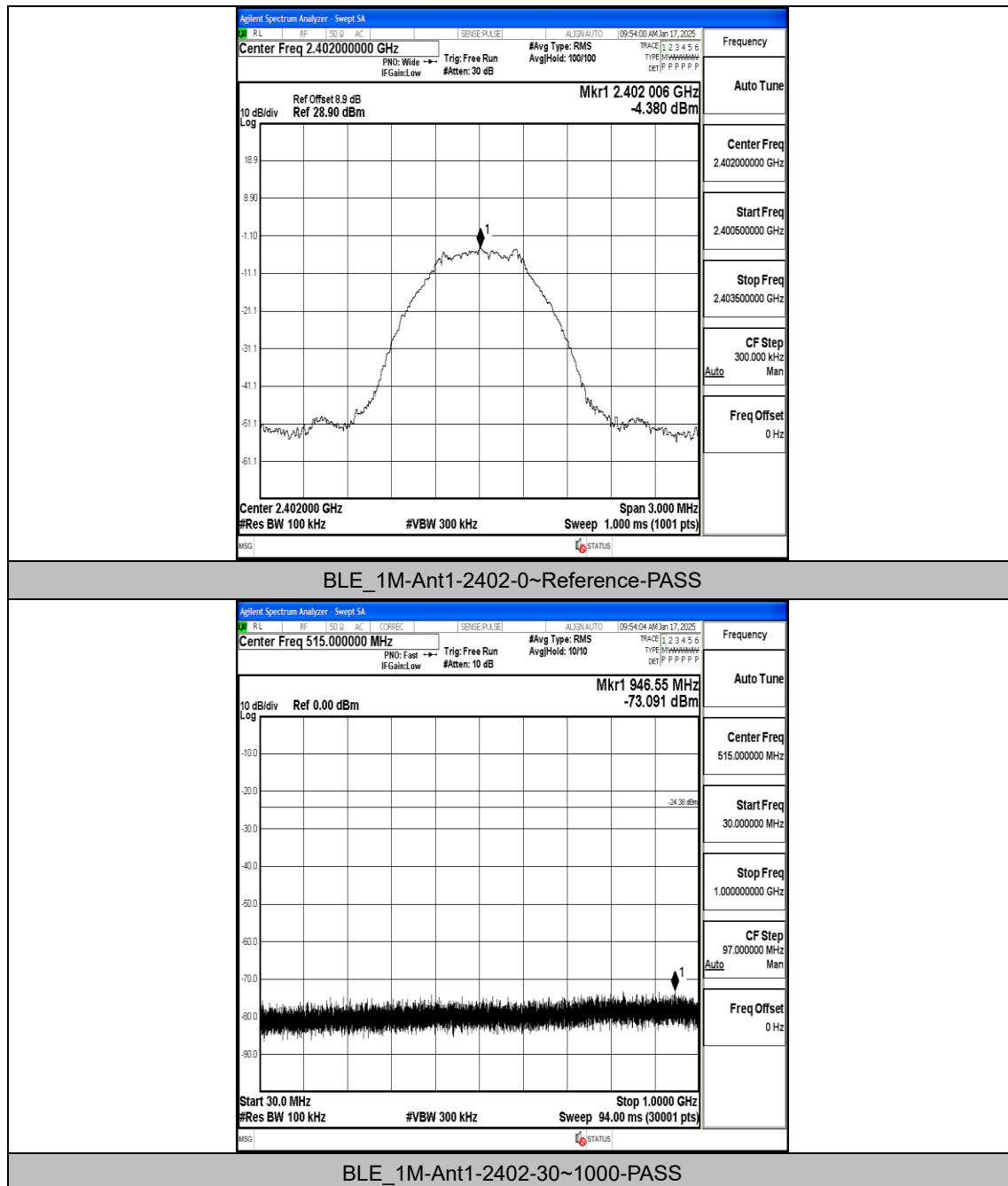


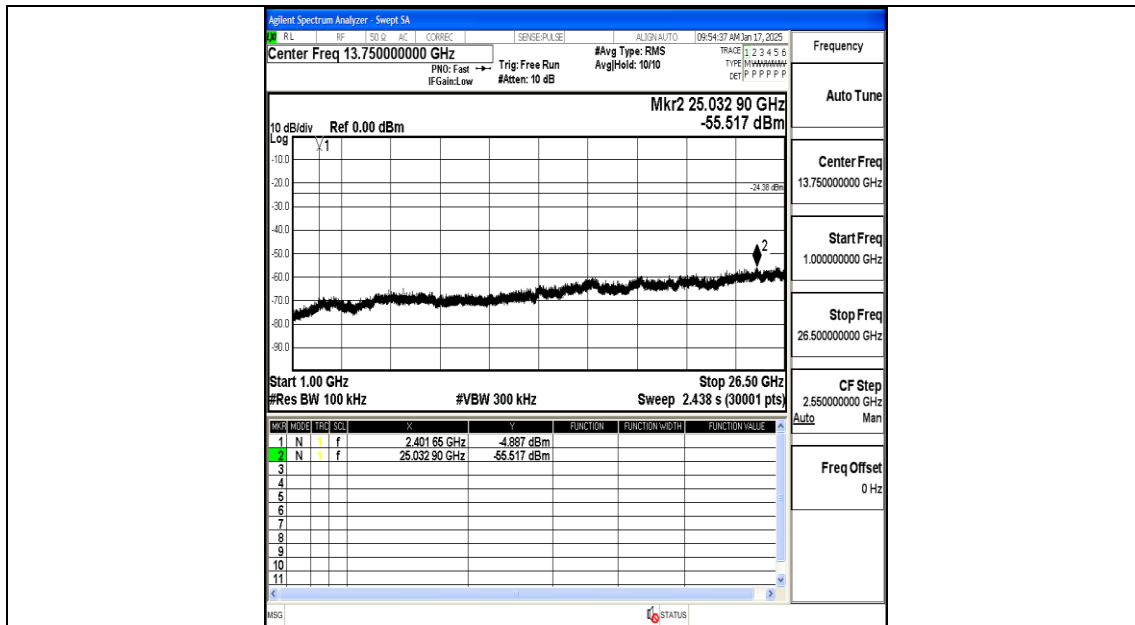
Appendix F: Conducted Spurious Emission

Test Result

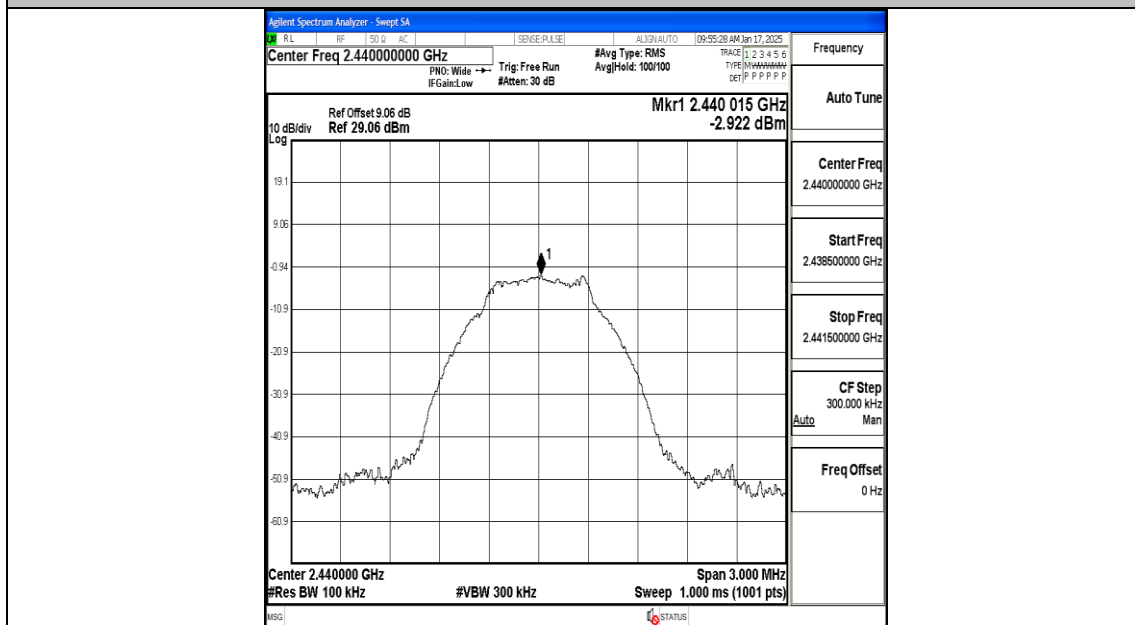
Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-4.38	-4.38	---	PASS
BLE_1M	Ant1	2402	30~1000	-4.38	-73.09	≤-24.38	PASS
BLE_1M	Ant1	2402	1000~26500	-4.38	-55.52	≤-24.38	PASS
BLE_1M	Ant1	2440	0~Reference	-2.92	-2.92	---	PASS
BLE_1M	Ant1	2440	30~1000	-2.92	-71.83	≤-22.92	PASS
BLE_1M	Ant1	2440	1000~26500	-2.92	-54.85	≤-22.92	PASS
BLE_1M	Ant1	2480	0~Reference	-2.93	-2.93	---	PASS
BLE_1M	Ant1	2480	30~1000	-2.93	-70.21	≤-22.93	PASS
BLE_1M	Ant1	2480	1000~26500	-2.93	-55.39	≤-22.93	PASS

Test Graphs

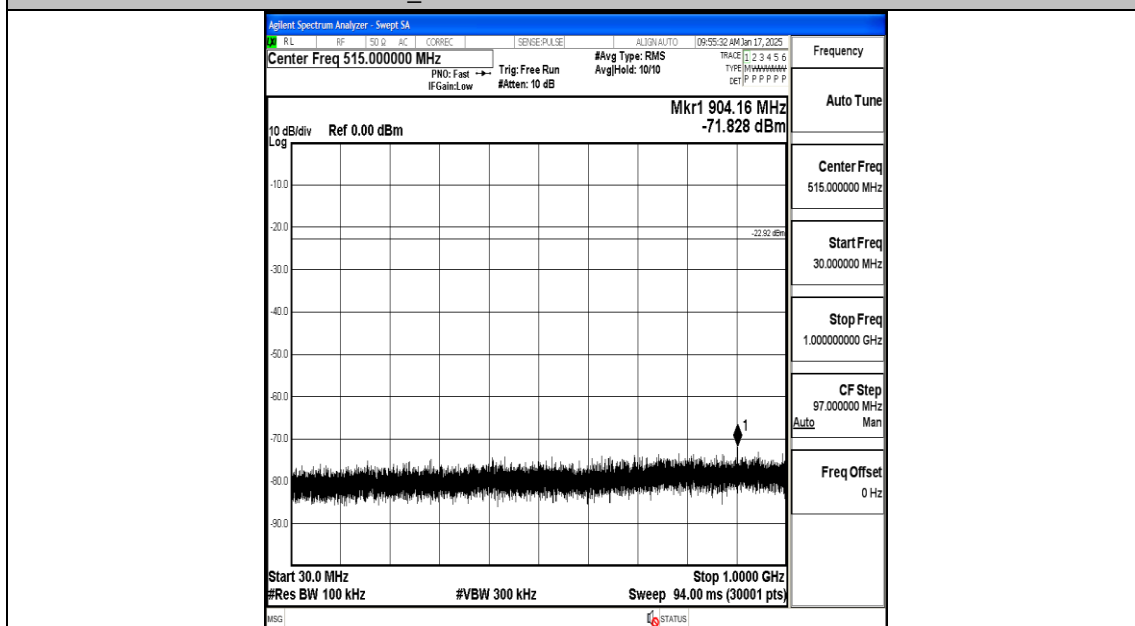




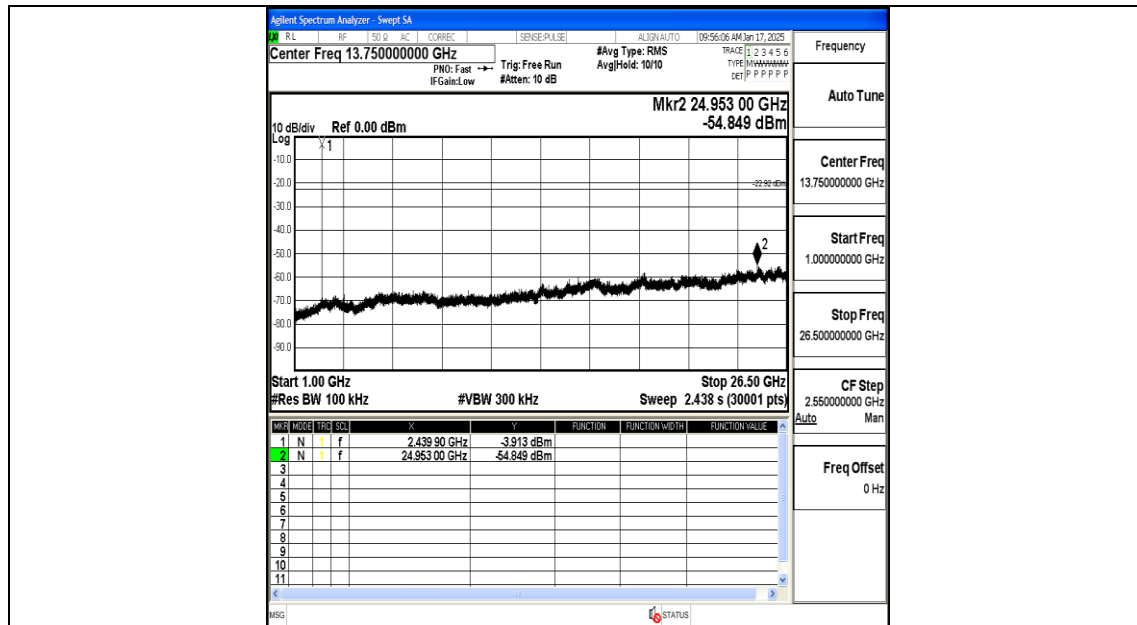
BLE_1M-Ant1-2402-1000~26500-PASS



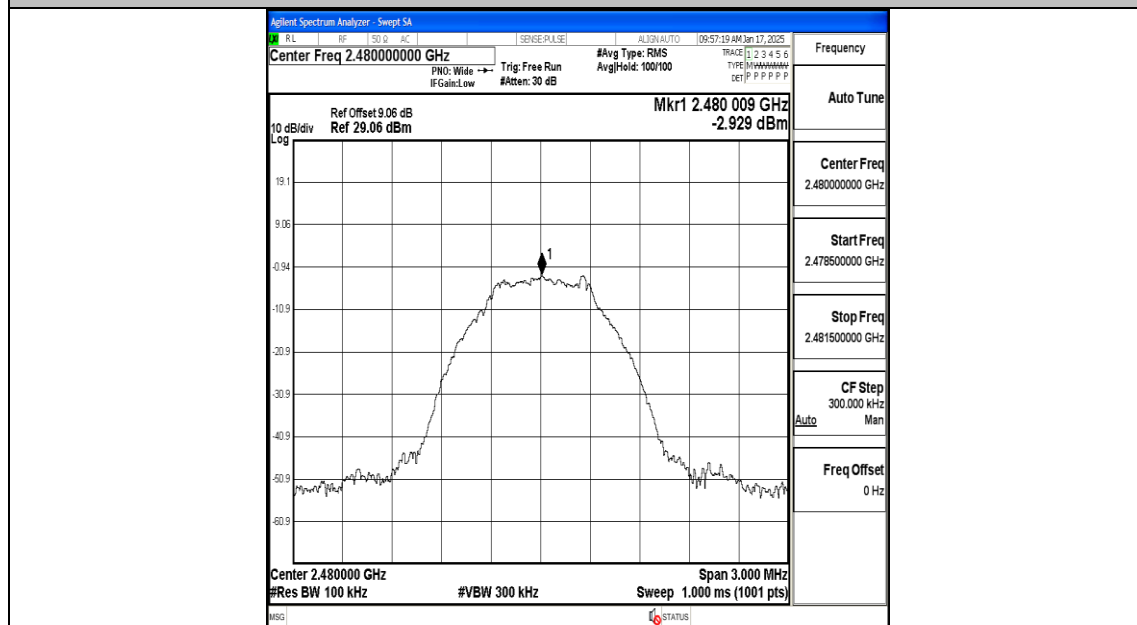
BLE_1M-Ant1-2440-0~Reference-PASS



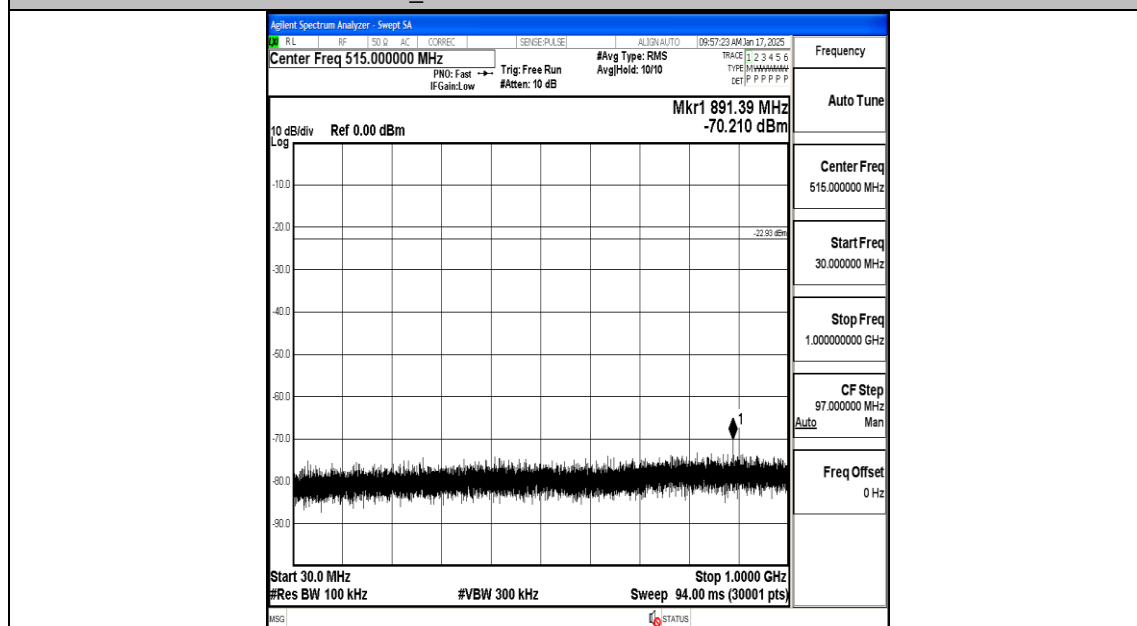
BLE_1M-Ant1-2440-30~1000-PASS



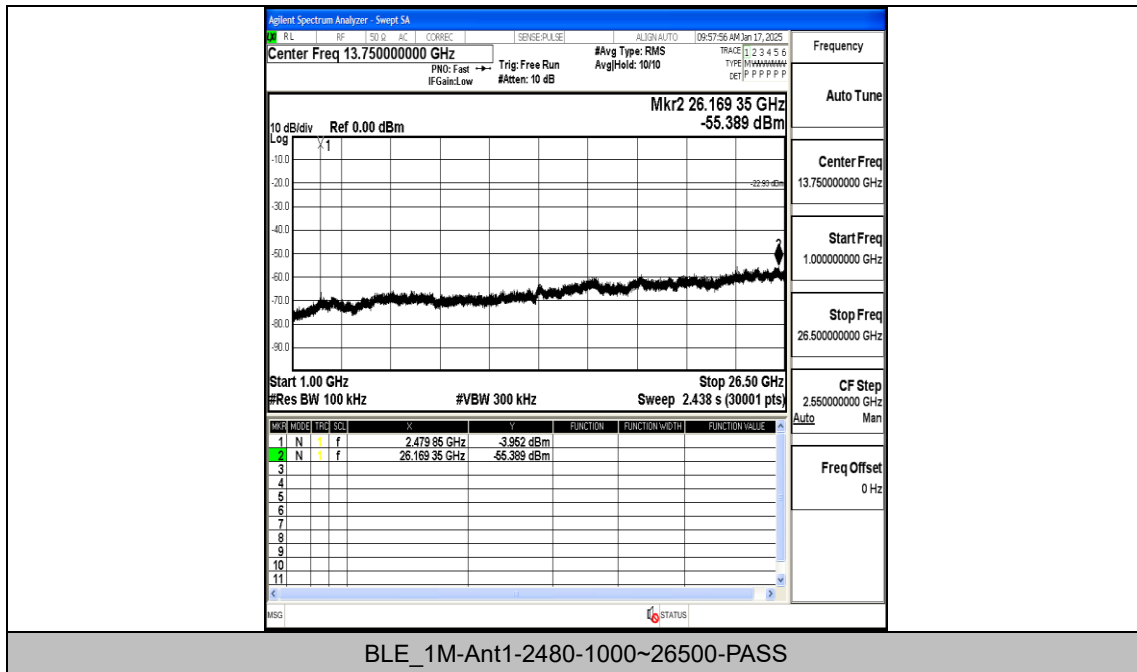
BLE_1M-Ant1-2440-1000~26500-PASS



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

