

Appendix Test Data for BLE (Conducted Measurement)

Product Name: Wireless Keyboard

Trade Mark: Keychron

Test Model: V1 Ultra

FCC ID: 2BGKB-V1ULTRA

Environmental Conditions

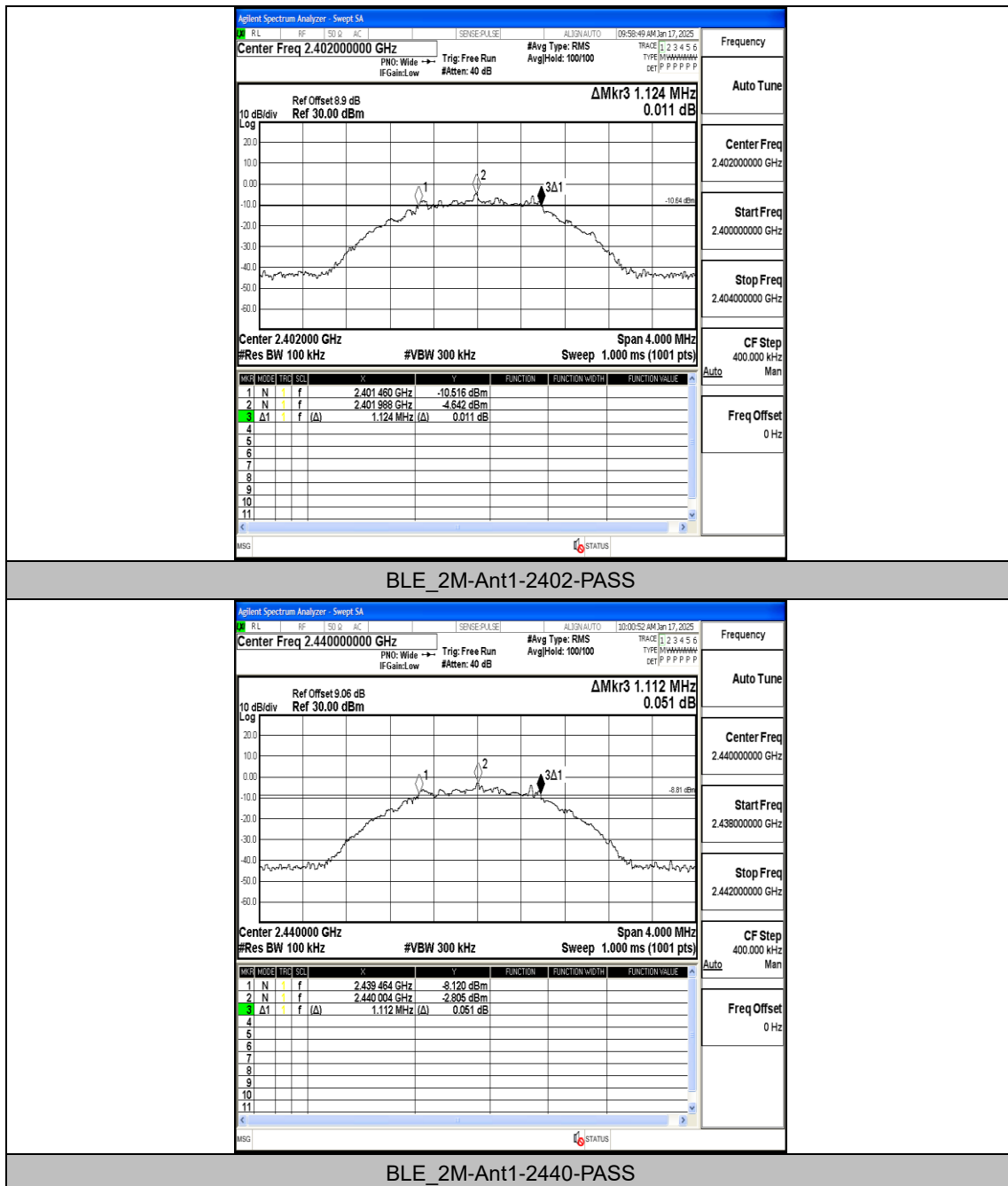
Temperature:	23.5℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

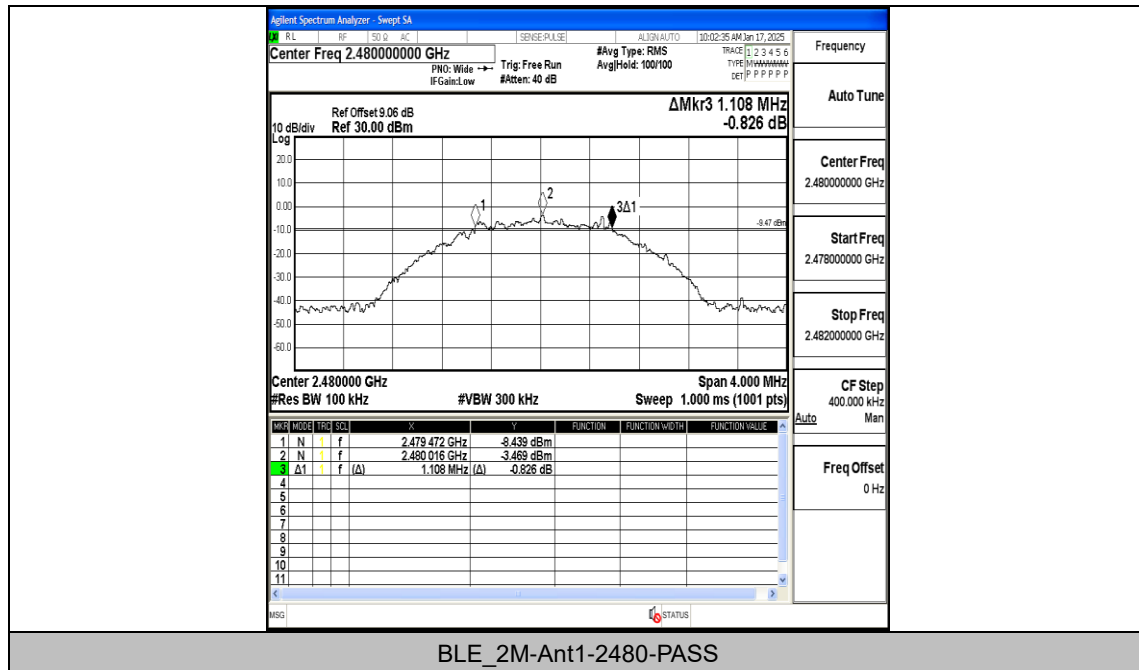
Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
BLE_2M	Ant1	2402	1.124	2401.460	2402.584	0.5	PASS
BLE_2M	Ant1	2440	1.112	2439.464	2440.576	0.5	PASS
BLE_2M	Ant1	2480	1.108	2479.472	2480.580	0.5	PASS

Test Graphs



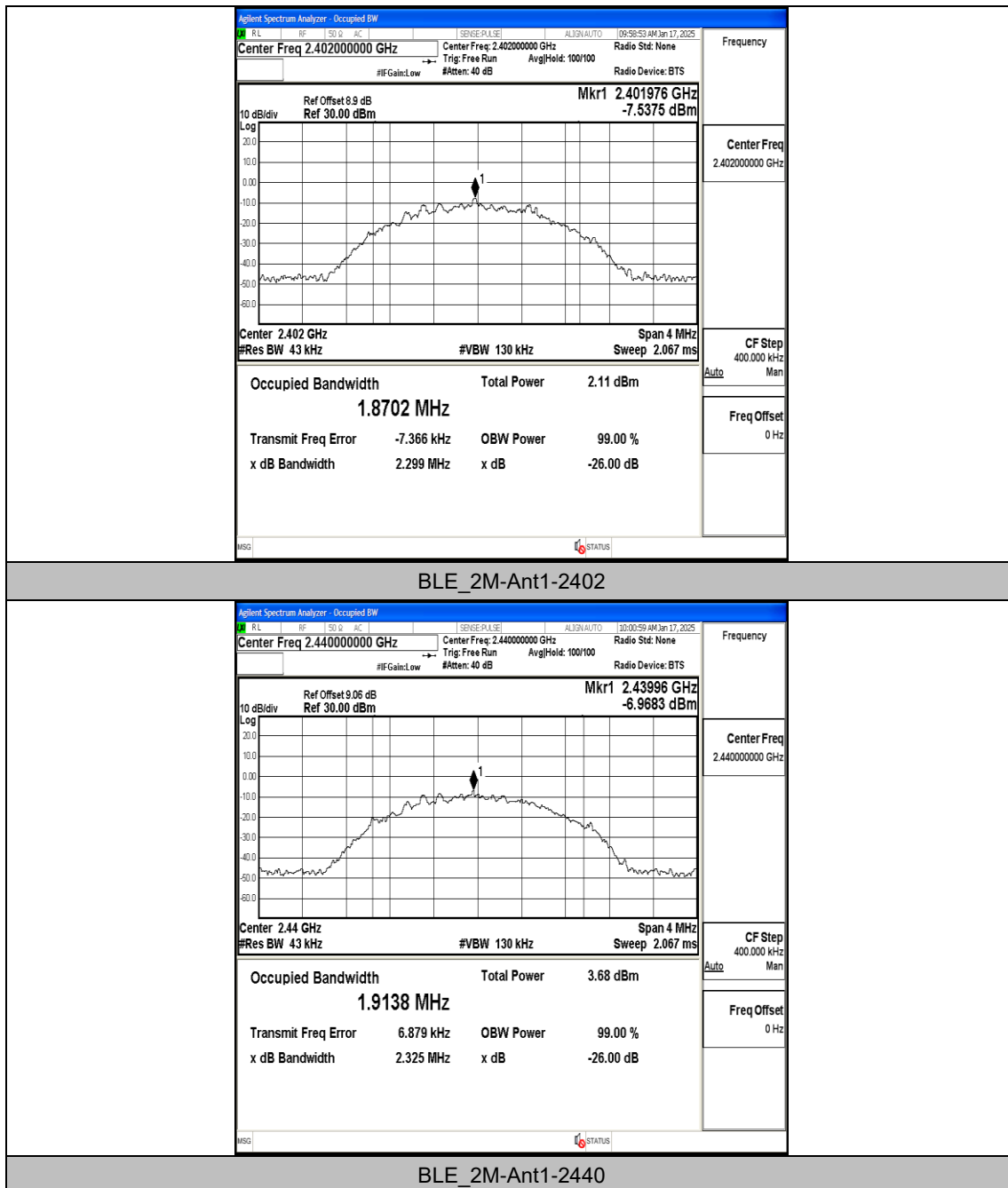


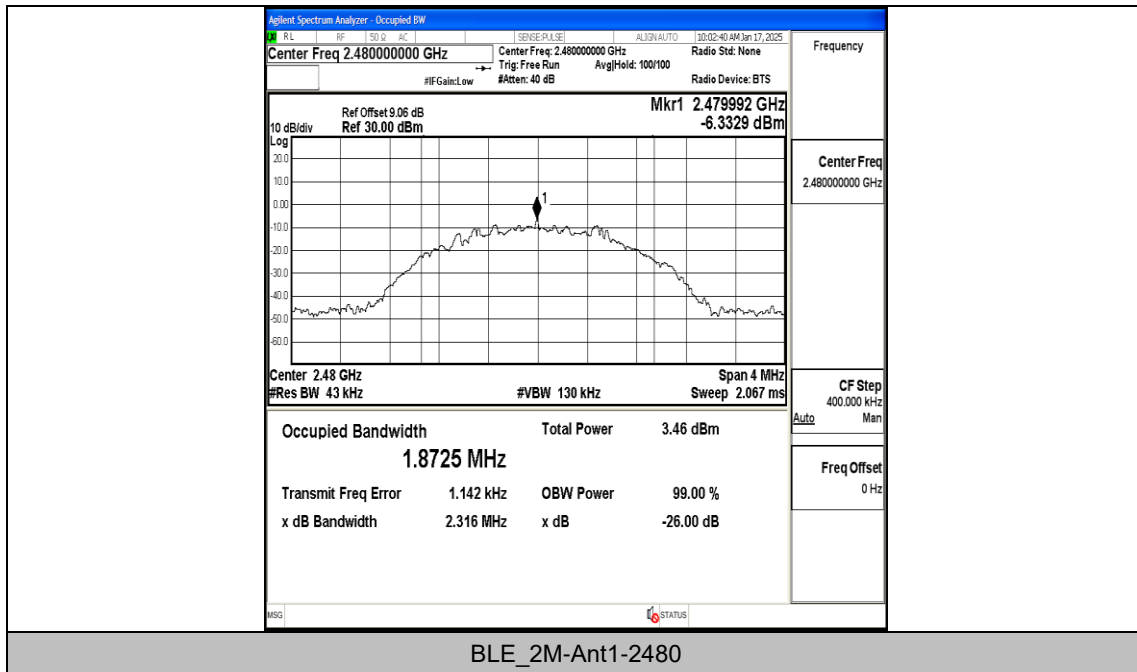
Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
BLE_2M	Ant1	2402	1.8702	2401.0575	2402.9277	---	---
BLE_2M	Ant1	2440	1.9138	2439.0500	2440.9638	---	---
BLE_2M	Ant1	2480	1.8725	2479.0649	2480.9374	---	---

Test Graphs



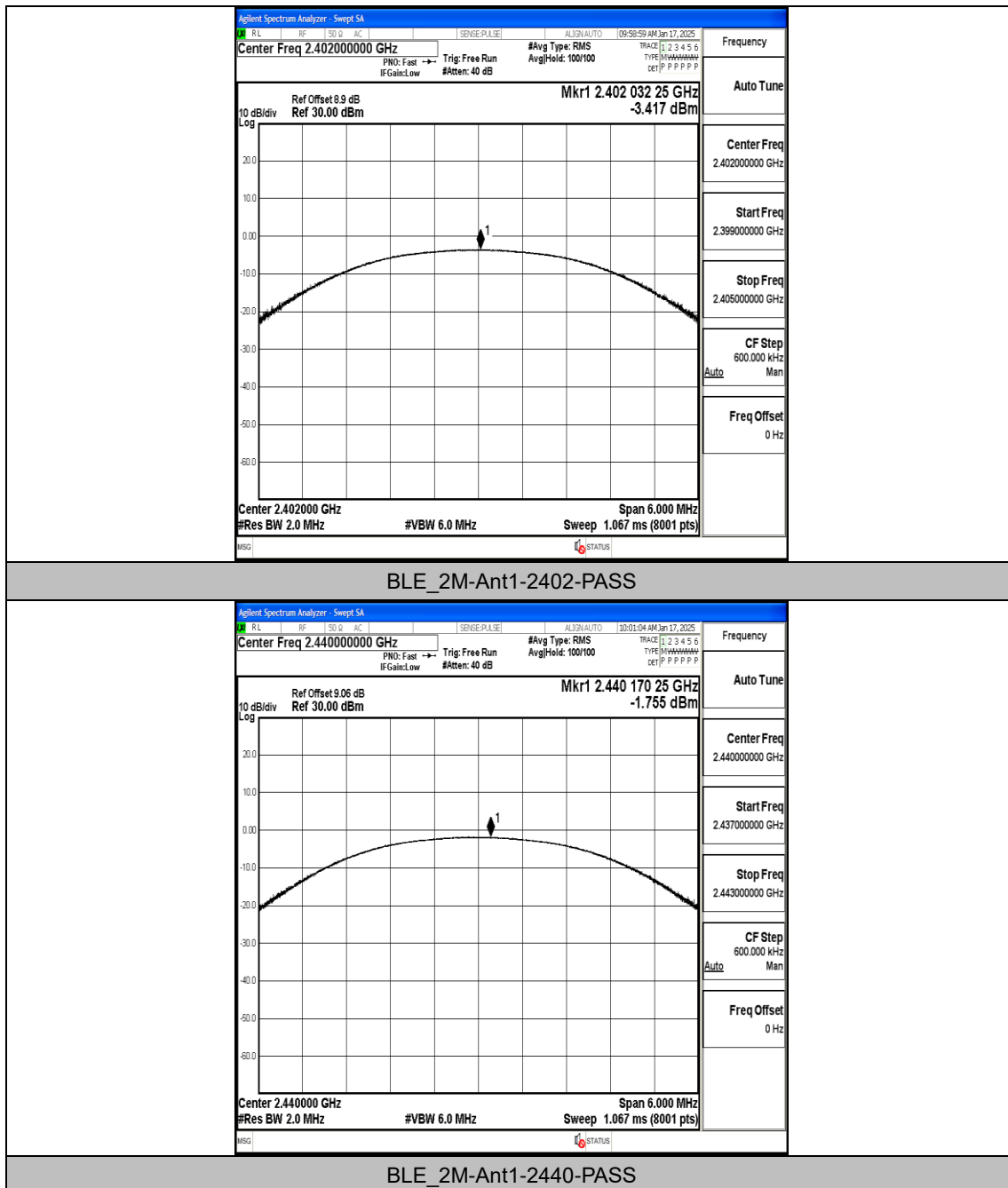


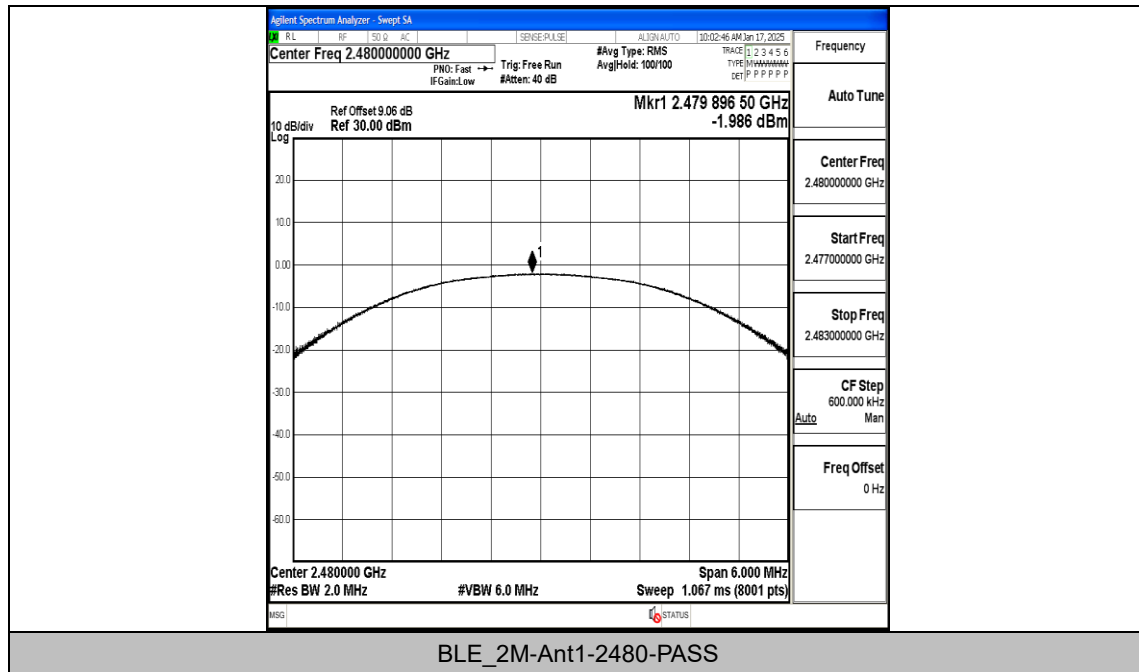
Appendix C: Maximum peak conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
BLE_2M	Ant1	2402	-3.42	≤30	PASS
BLE_2M	Ant1	2440	-1.76	≤30	PASS
BLE_2M	Ant1	2480	-1.99	≤30	PASS

Test Graphs Peak



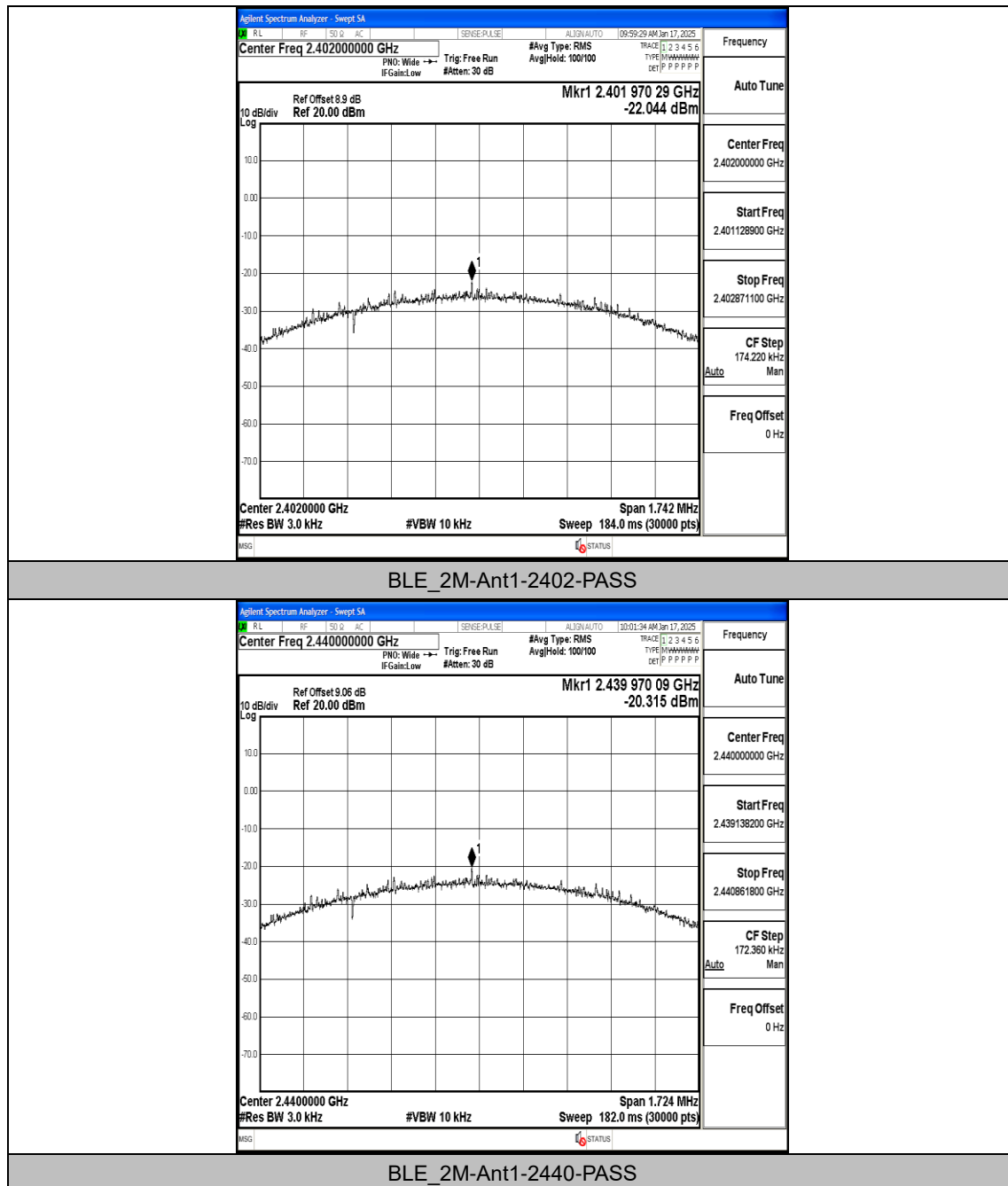


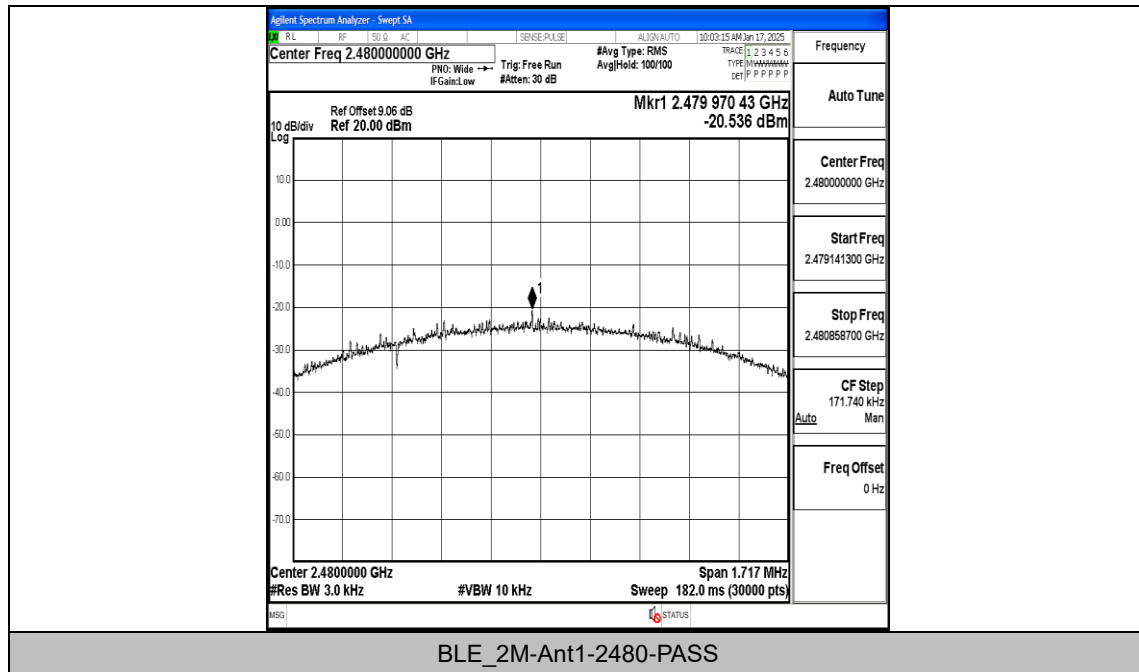
Appendix D: Maximum peak power spectral density

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
BLE_2M	Ant1	2402	-22.04	≤8.00	PASS
BLE_2M	Ant1	2440	-20.32	≤8.00	PASS
BLE_2M	Ant1	2480	-20.54	≤8.00	PASS

Test Graphs



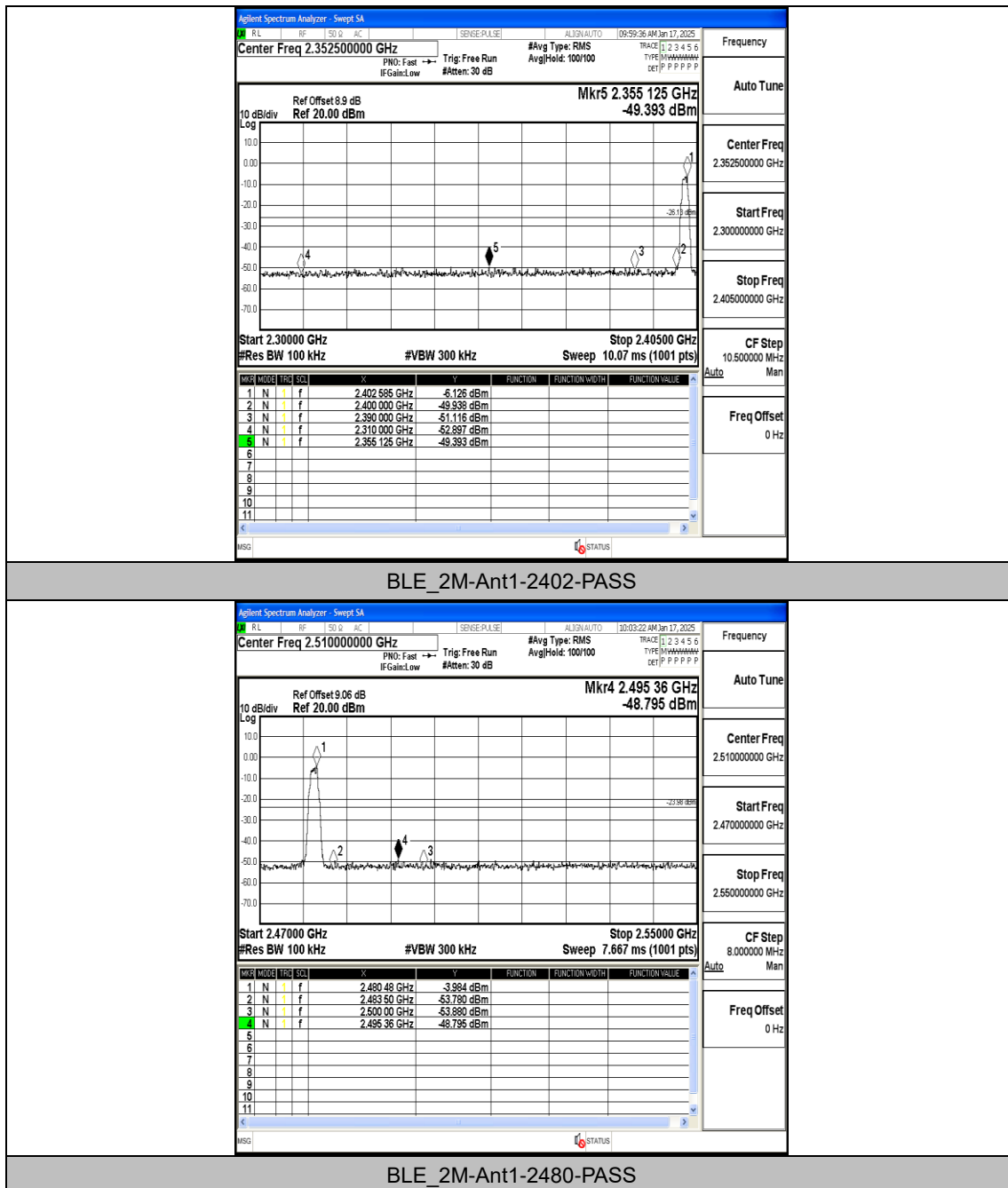


Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_2M	Ant1	Low	2402	-6.13	-49.39	≤ -26.13	PASS
BLE_2M	Ant1	High	2480	-3.98	-48.8	≤ -23.98	PASS

Test Graphs

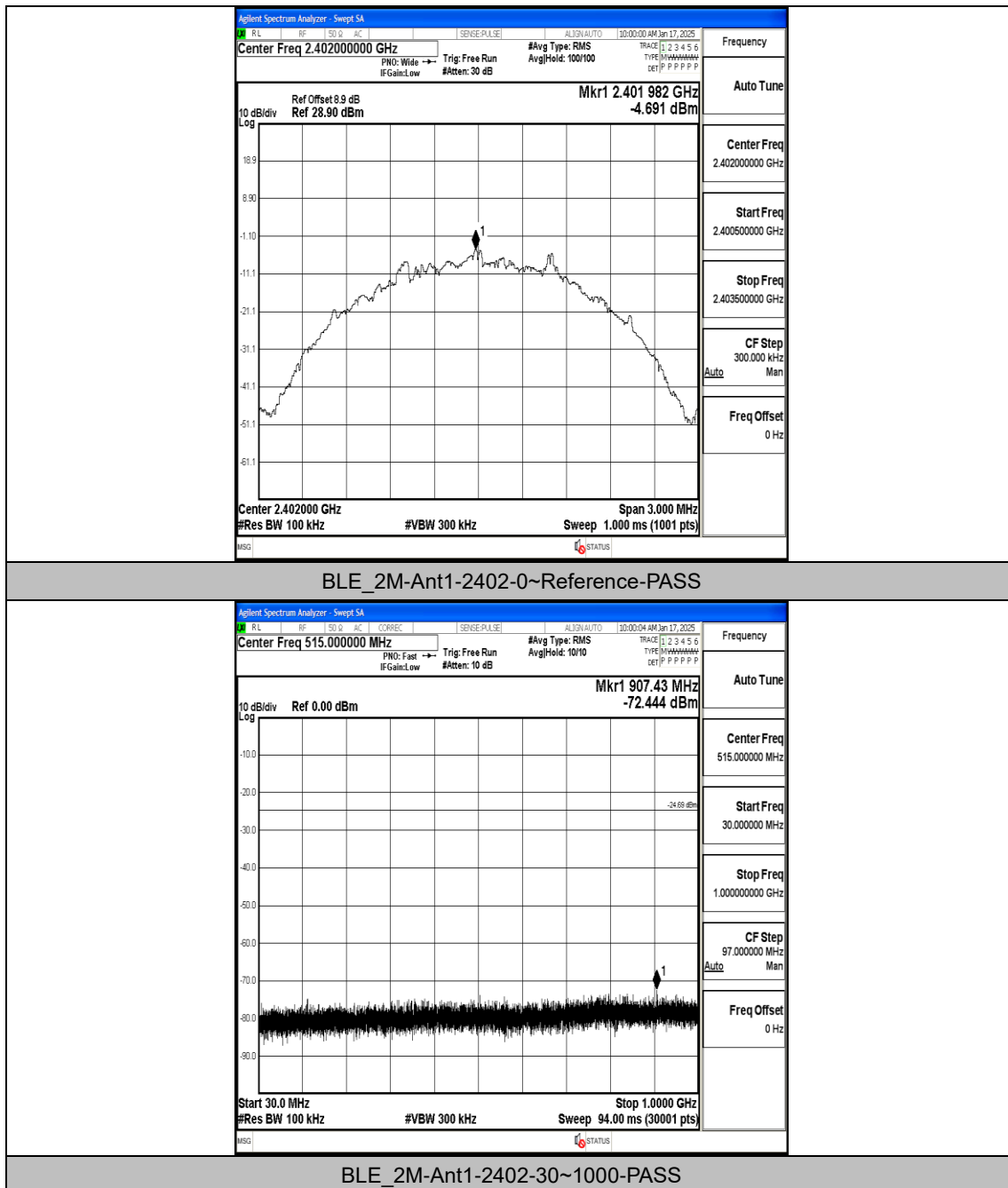


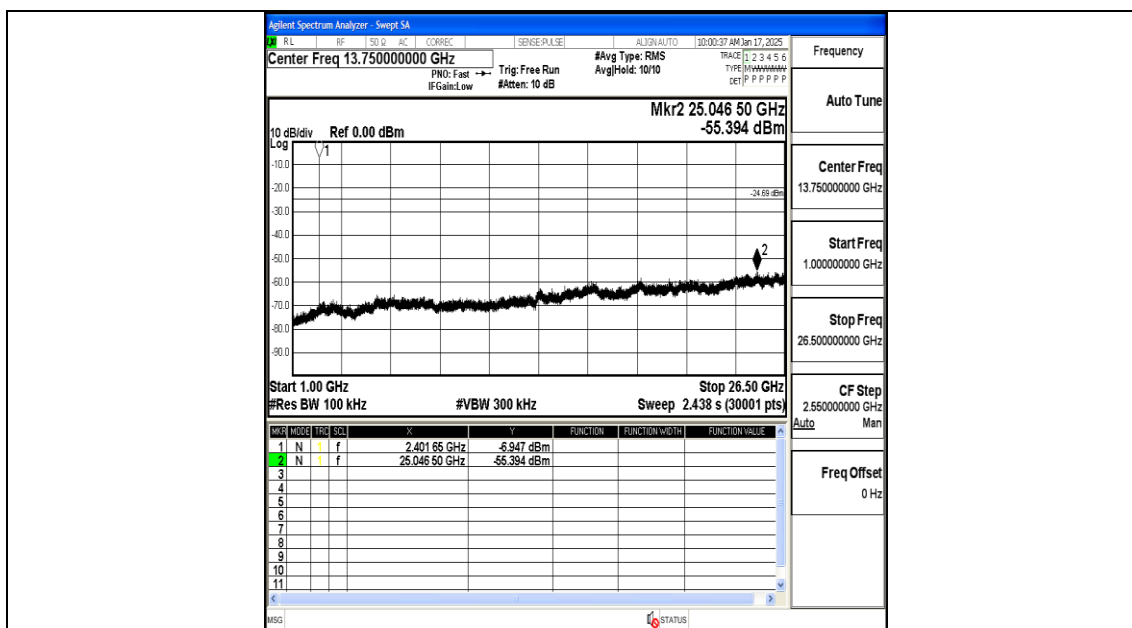
Appendix F: Conducted Spurious Emission

Test Result

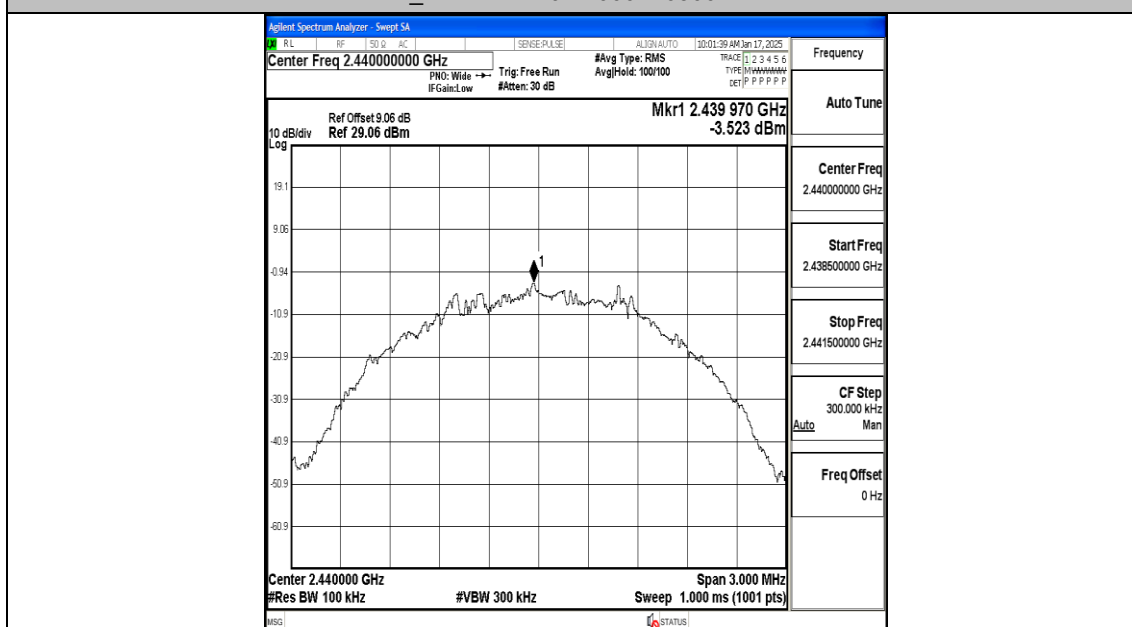
Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_2M	Ant1	2402	0~Reference	-4.69	-4.69	---	PASS
BLE_2M	Ant1	2402	30~1000	-4.69	-72.44	≤-24.69	PASS
BLE_2M	Ant1	2402	1000~26500	-4.69	-55.39	≤-24.69	PASS
BLE_2M	Ant1	2440	0~Reference	-3.52	-3.52	---	PASS
BLE_2M	Ant1	2440	30~1000	-3.52	-72.56	≤-23.52	PASS
BLE_2M	Ant1	2440	1000~26500	-3.52	-55.53	≤-23.52	PASS
BLE_2M	Ant1	2480	0~Reference	-3.25	-3.25	---	PASS
BLE_2M	Ant1	2480	30~1000	-3.25	-73.09	≤-23.25	PASS
BLE_2M	Ant1	2480	1000~26500	-3.25	-56.04	≤-23.25	PASS

Test Graphs

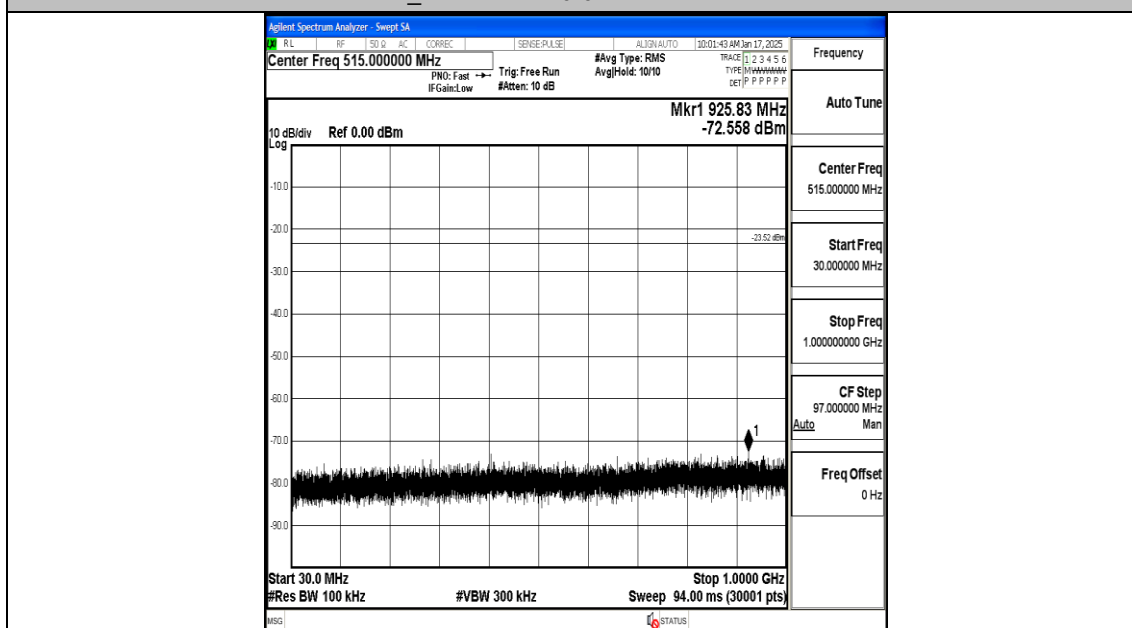




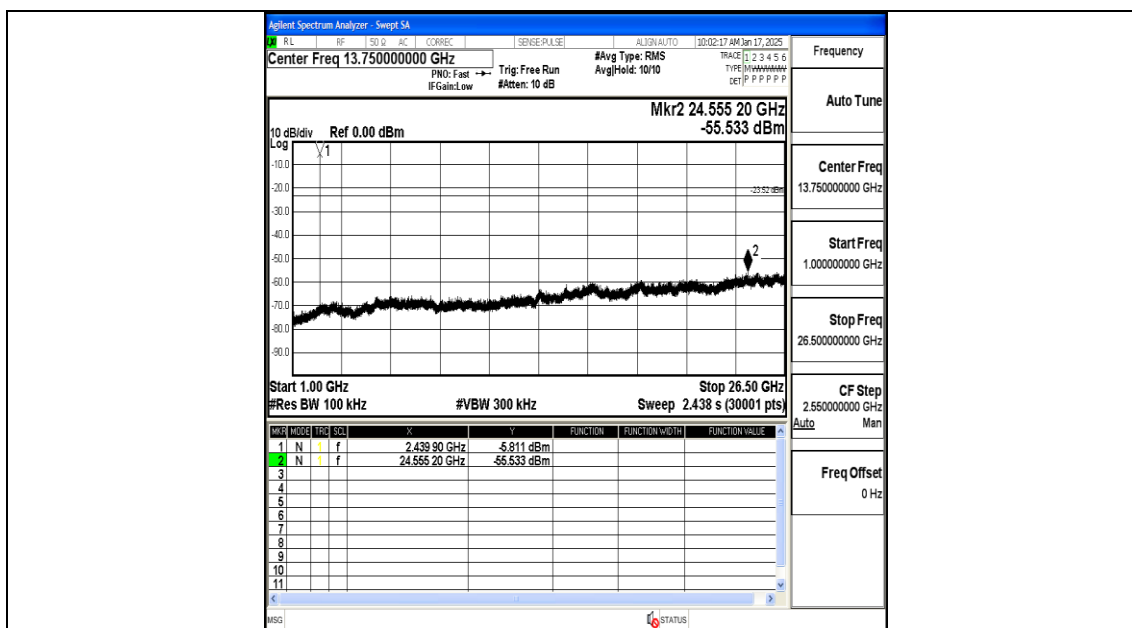
BLE_2M-Ant1-2402-1000~26500-PASS



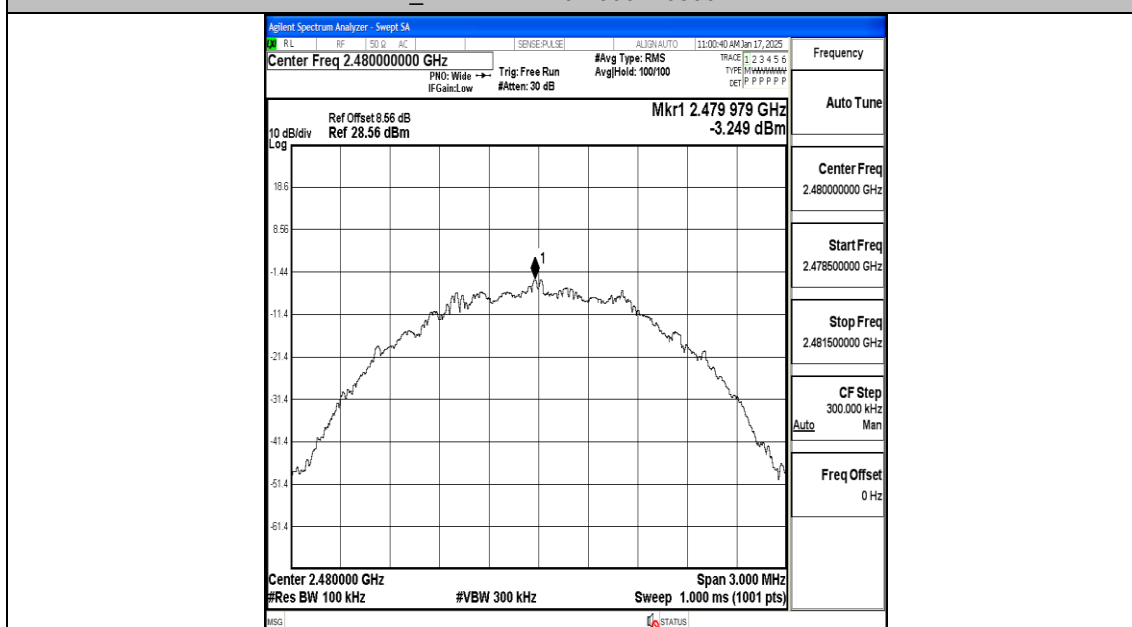
BLE_2M-Ant1-2440-0~Reference-PASS



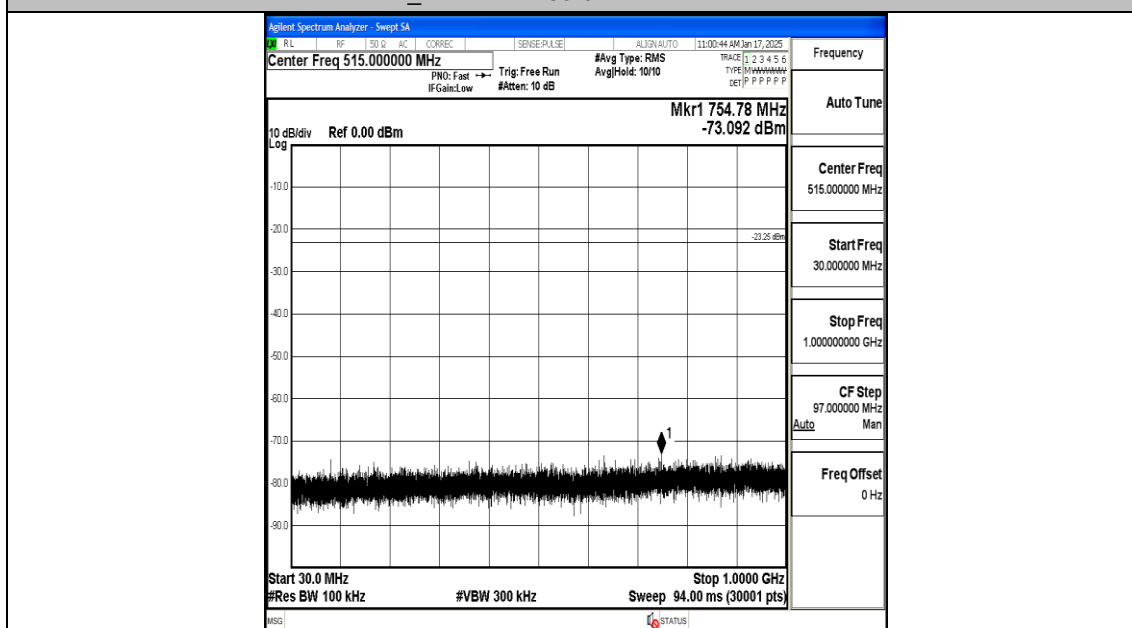
BLE_2M-Ant1-2440-30~1000-PASS



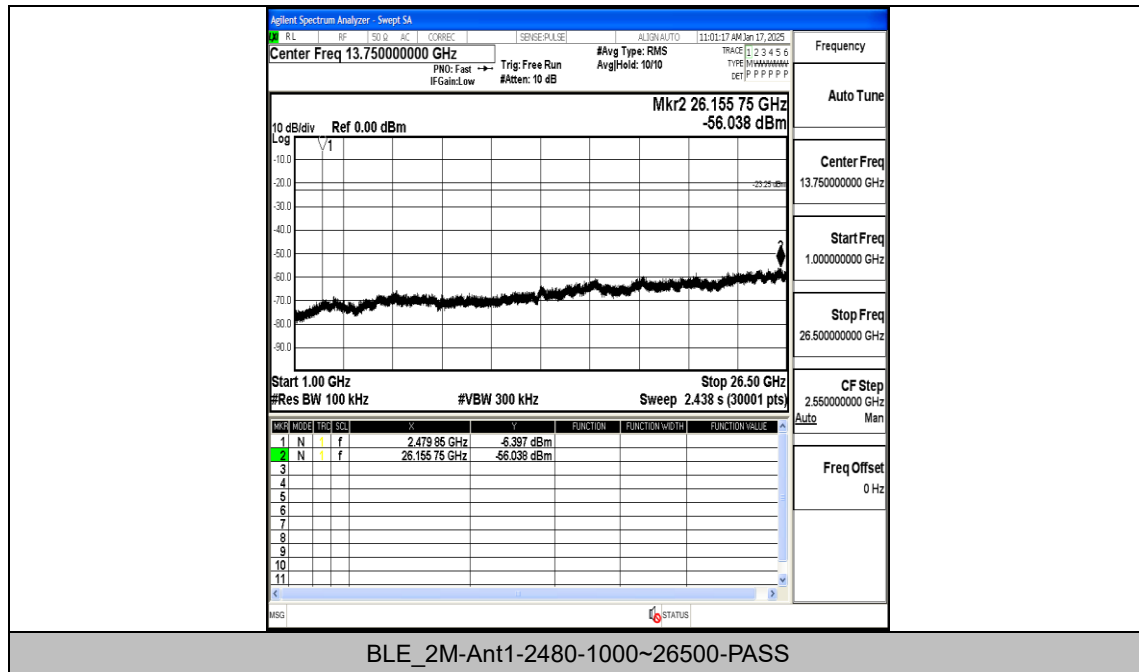
BLE_2M-Ant1-2440-1000~26500-PASS



BLE_2M-Ant1-2480-0~Reference-PASS



BLE_2M-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_2M	Ant1	2402	10.00	10.00	100.00	0.00
BLE_2M	Ant1	2440	10.00	10.00	100.00	0.00
BLE_2M	Ant1	2480	10.00	10.00	100.00	0.00

Test Graphs

