

Appendix Test Data for BLE (Conducted Measurement)

Product Name: Wireless Mechanical Keyboard

Trade Mark: Keychron

Test Model: B6 Pro

FCC ID: 2BGKB-B6PRO

Environmental Conditions

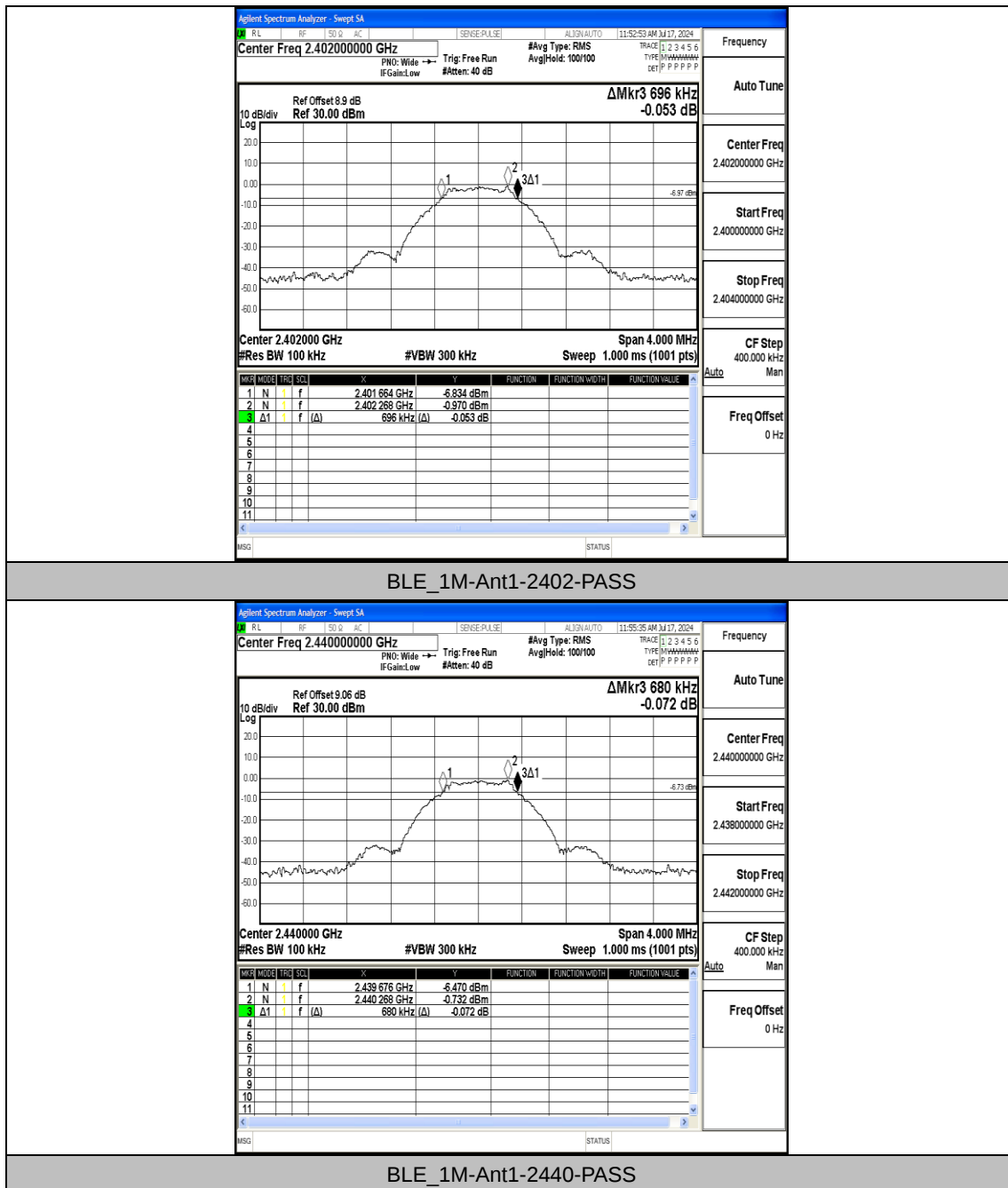
Temperature:	23.8℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

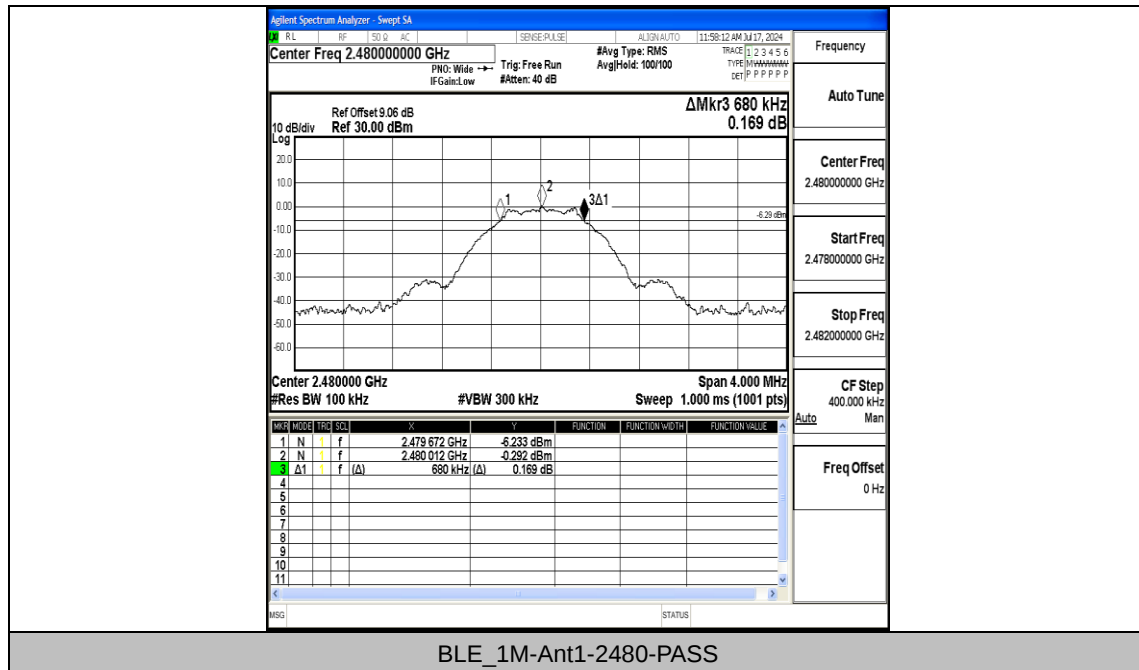
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.696	2401.664	2402.360	0.5	PASS
BLE_1M	Ant1	2440	0.680	2439.676	2440.356	0.5	PASS
BLE_1M	Ant1	2480	0.680	2479.672	2480.352	0.5	PASS

Test Graphs



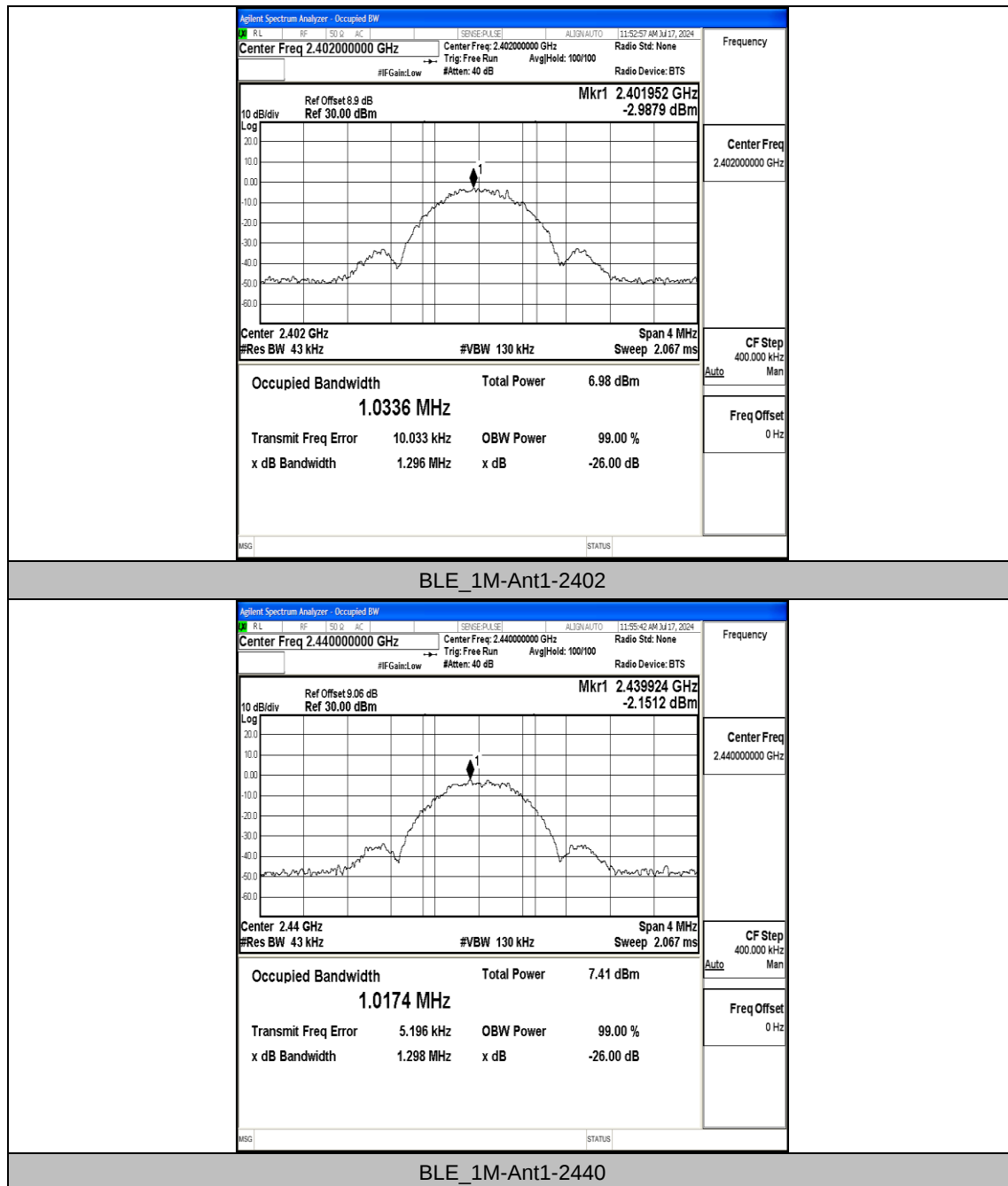


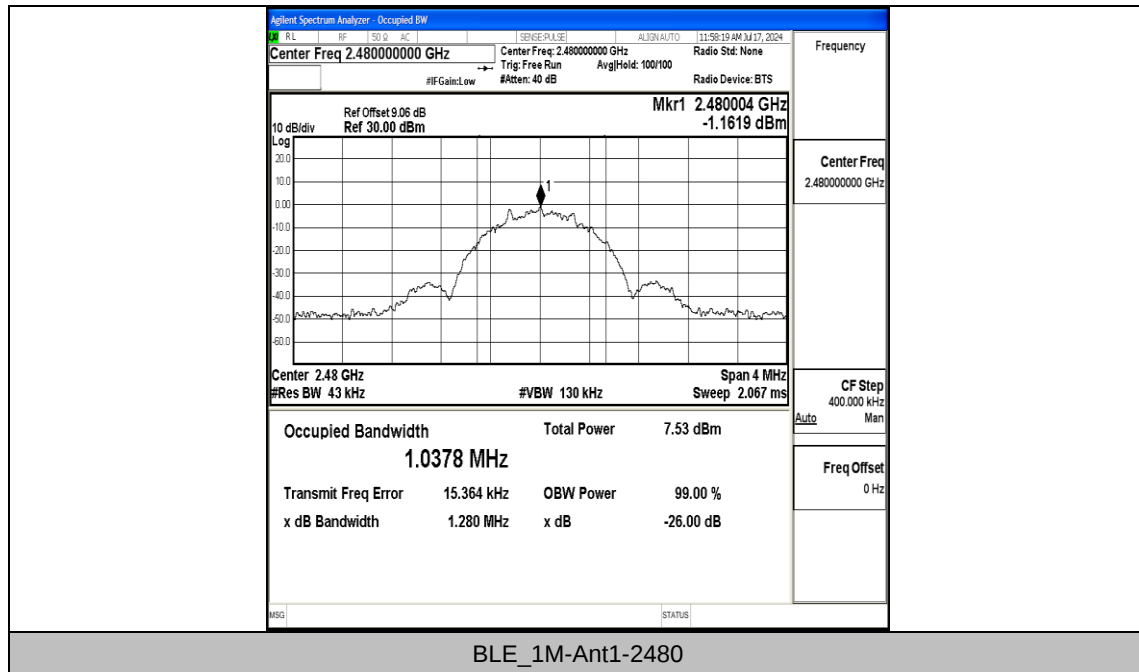
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0336	2401.4932	2402.5268	---	---
BLE_1M	Ant1	2440	1.0174	2439.4965	2440.5139	---	---
BLE_1M	Ant1	2480	1.0378	2479.4965	2480.5343	---	---

Test Graphs



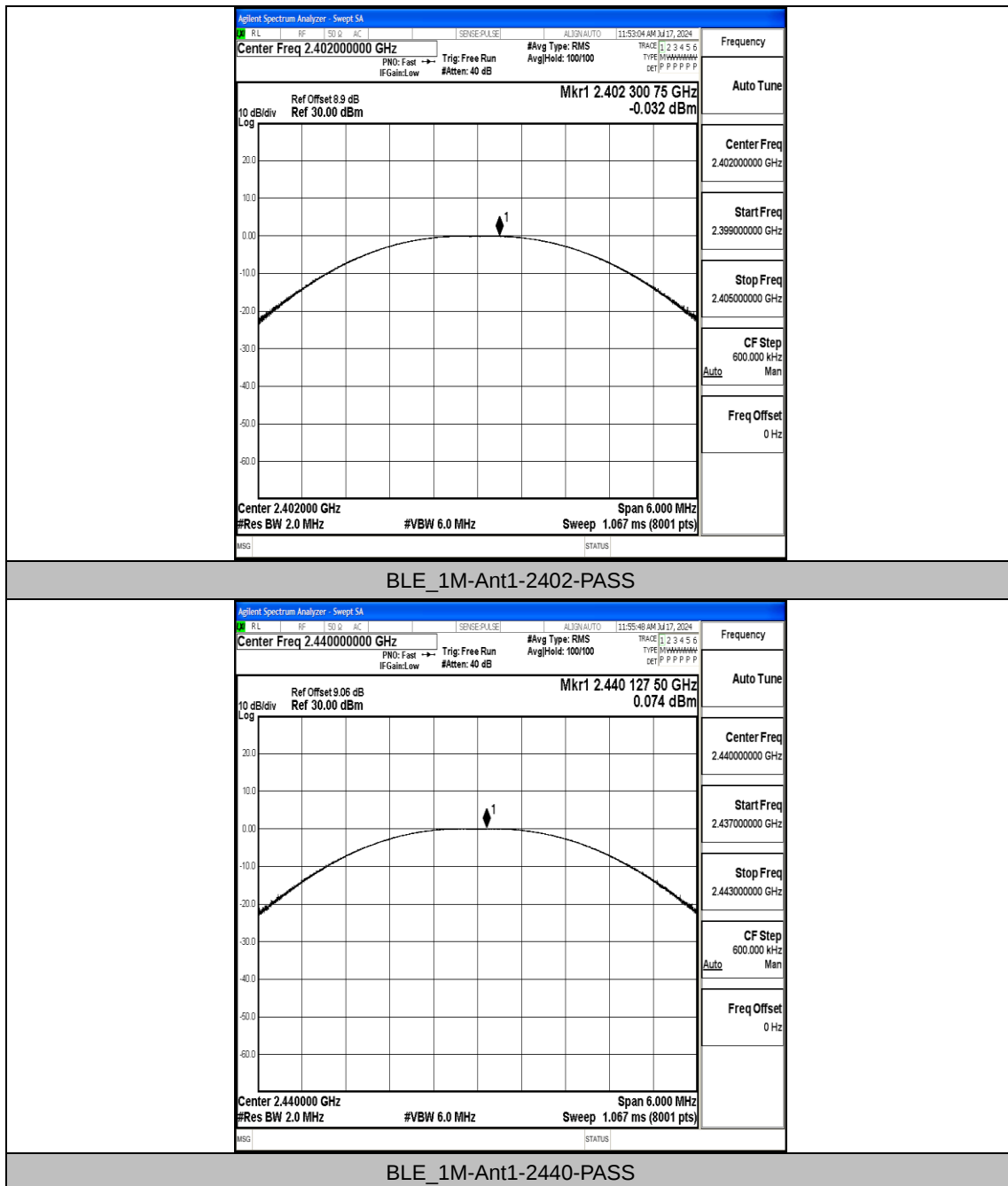


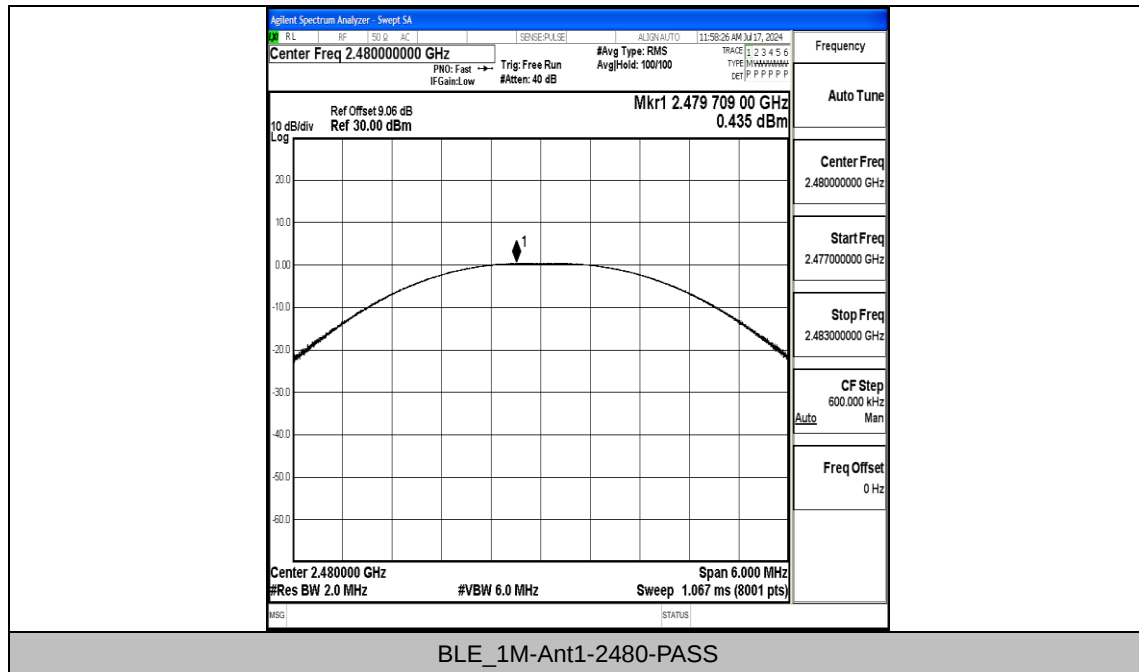
Appendix C: Maximum peak conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.03	≤30	PASS
BLE_1M	Ant1	2440	0.07	≤30	PASS
BLE_1M	Ant1	2480	0.44	≤30	PASS

Test Graphs Peak



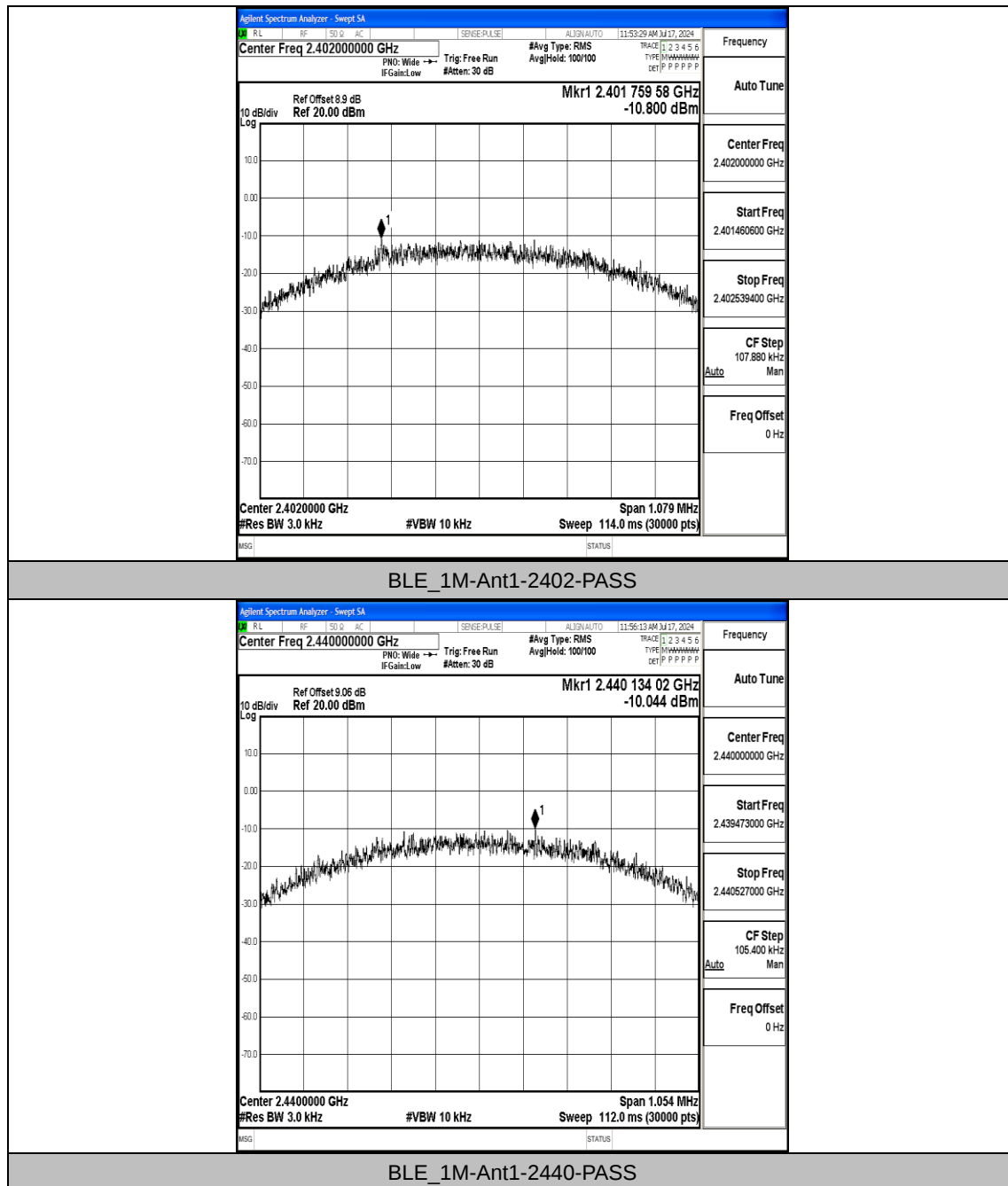


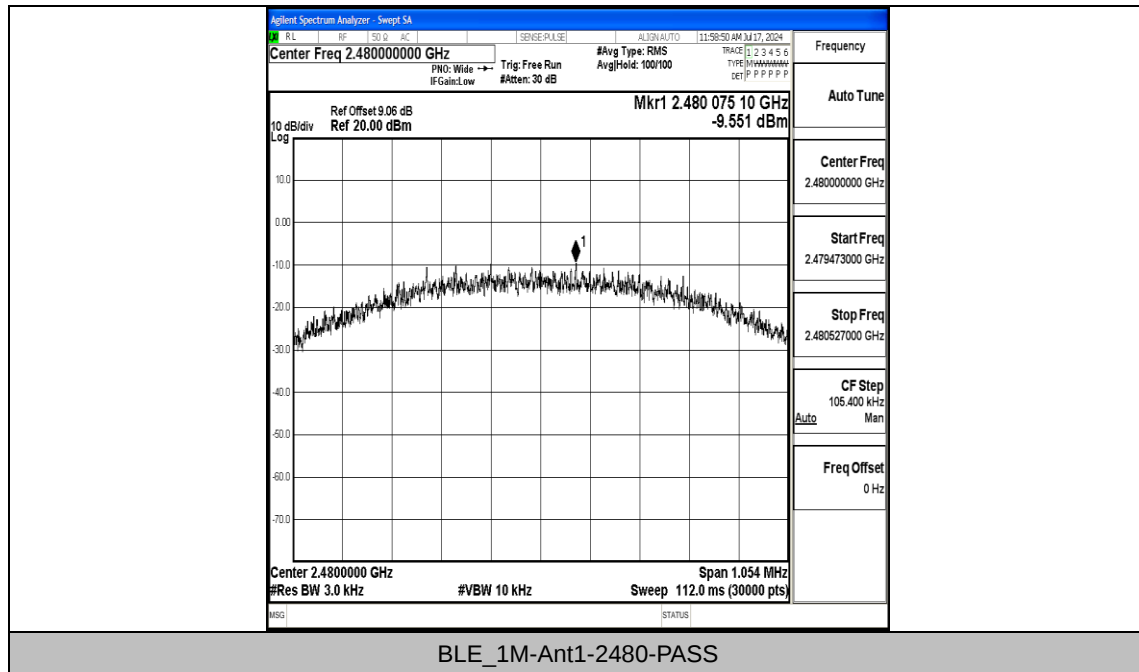
Appendix D: Maximum peak power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-10.80	≤8.00	PASS
BLE_1M	Ant1	2440	-10.04	≤8.00	PASS
BLE_1M	Ant1	2480	-9.55	≤8.00	PASS

Test Graphs



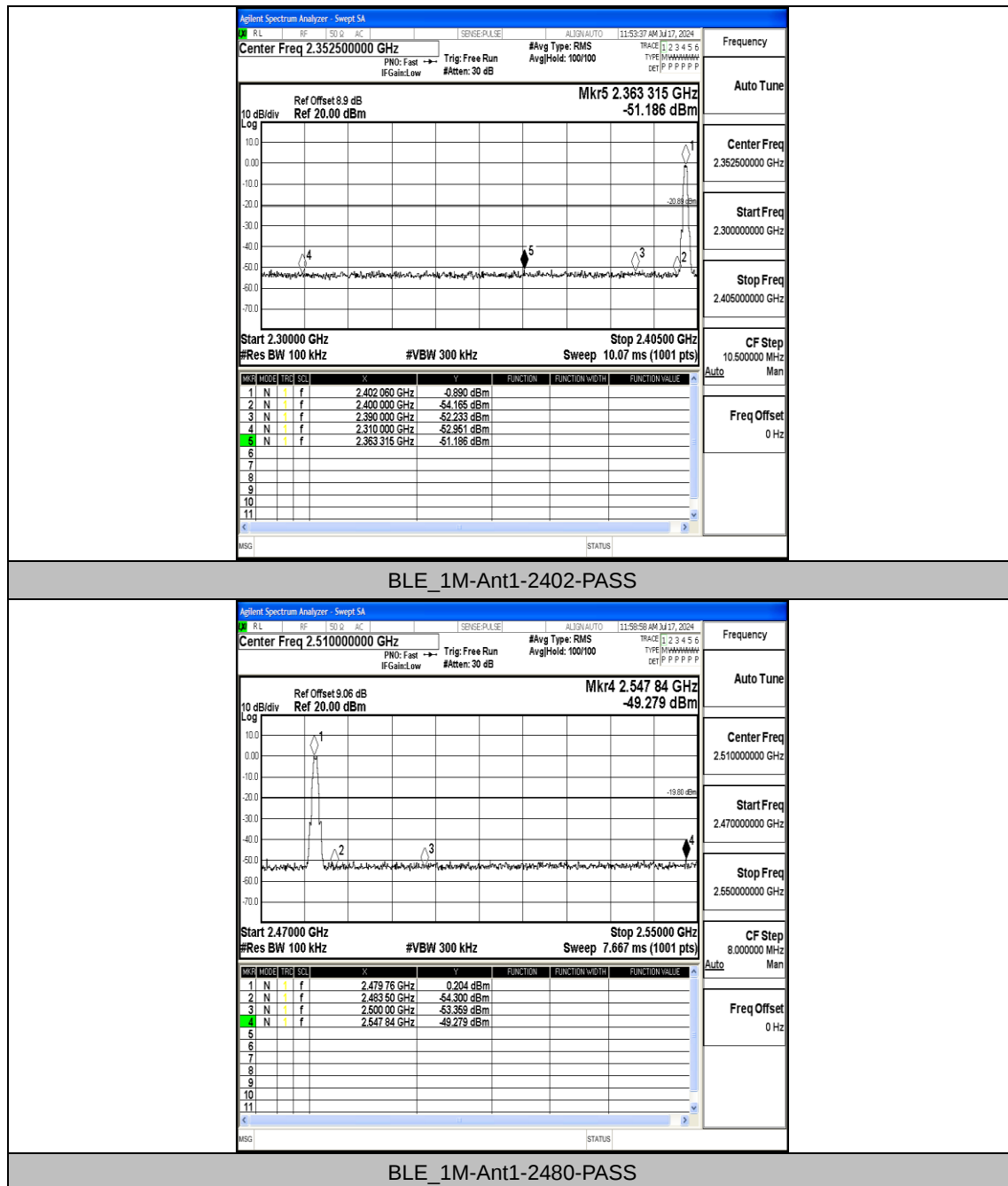


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.89	-51.19	≤-20.89	PASS
BLE_1M	Ant1	High	2480	0.20	-49.28	≤-19.8	PASS

Test Graphs

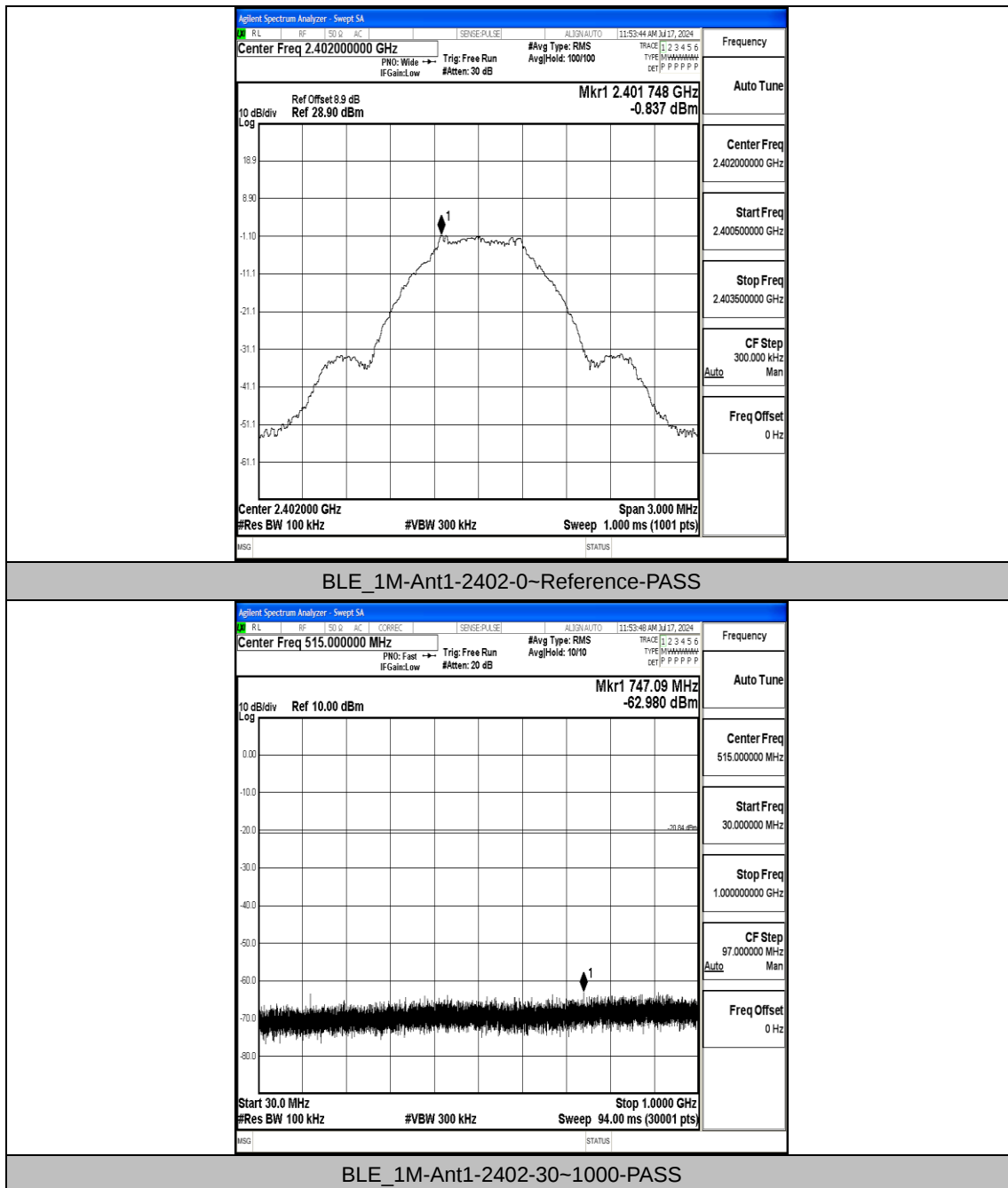


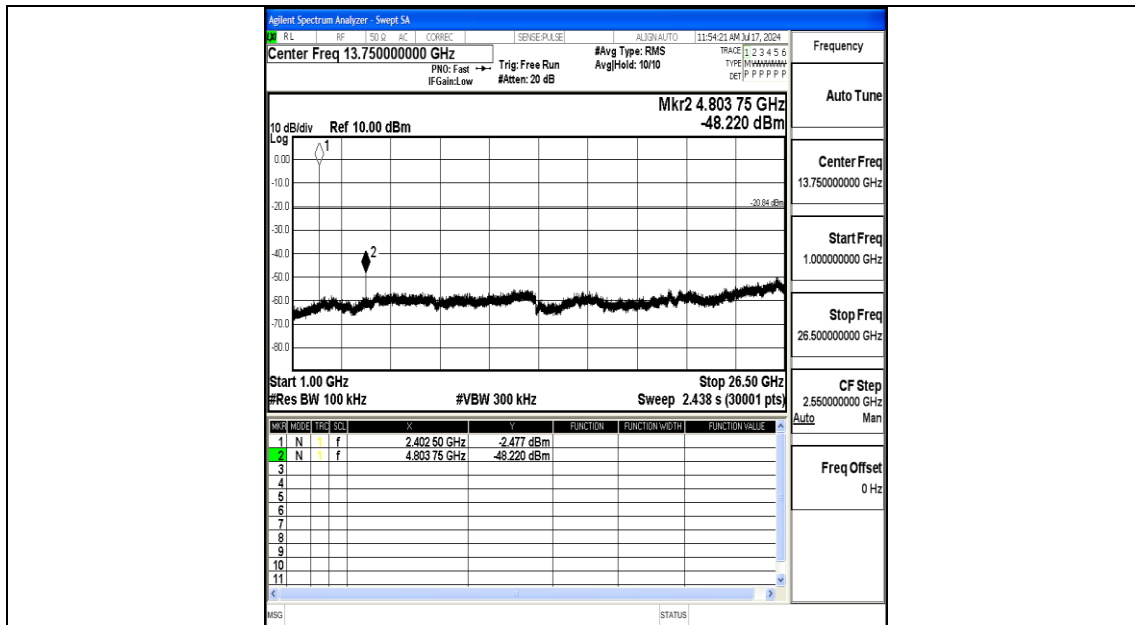
Appendix F: Conducted Spurious Emission

Test Result

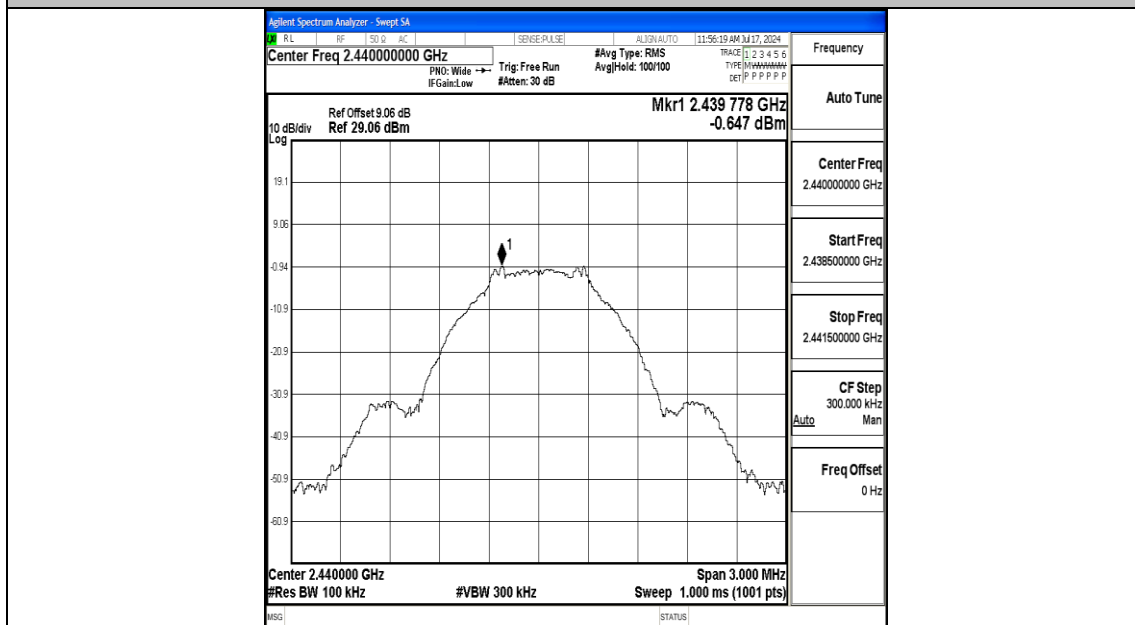
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-0.84	-0.84	---	PASS
BLE_1M	Ant1	2402	30~1000	-0.84	-62.98	≤-20.84	PASS
BLE_1M	Ant1	2402	1000~26500	-0.84	-48.22	≤-20.84	PASS
BLE_1M	Ant1	2440	0~Reference	-0.65	-0.65	---	PASS
BLE_1M	Ant1	2440	30~1000	-0.65	-62.59	≤-20.65	PASS
BLE_1M	Ant1	2440	1000~26500	-0.65	-49.16	≤-20.65	PASS
BLE_1M	Ant1	2480	0~Reference	0.09	0.09	---	PASS
BLE_1M	Ant1	2480	30~1000	0.09	-63.04	≤-19.91	PASS
BLE_1M	Ant1	2480	1000~26500	0.09	-50.2	≤-19.91	PASS

Test Graphs

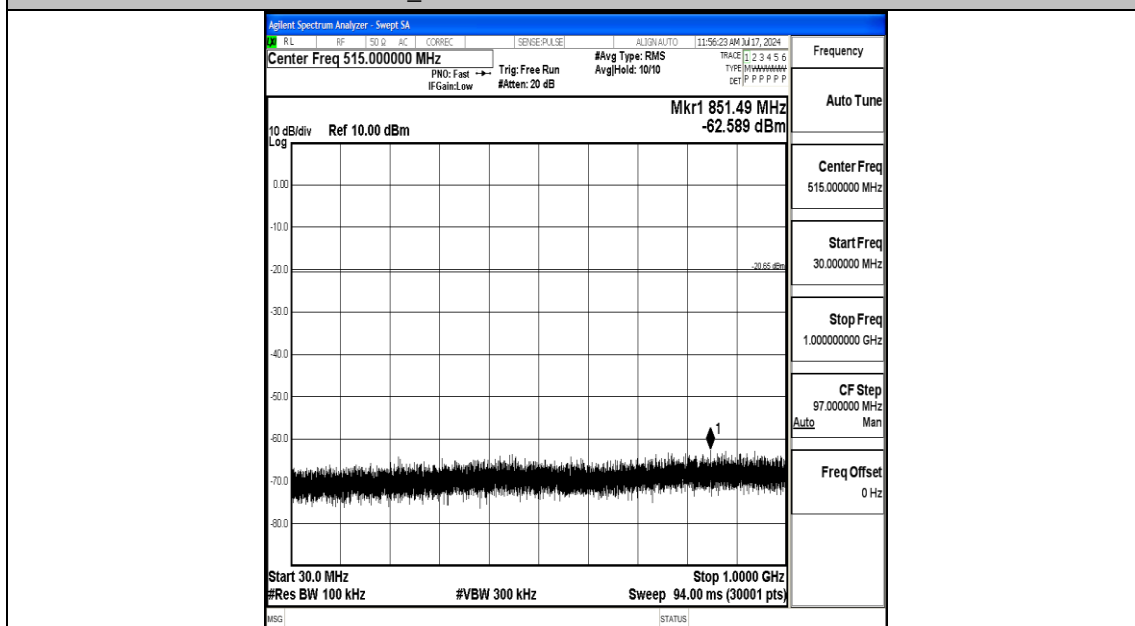




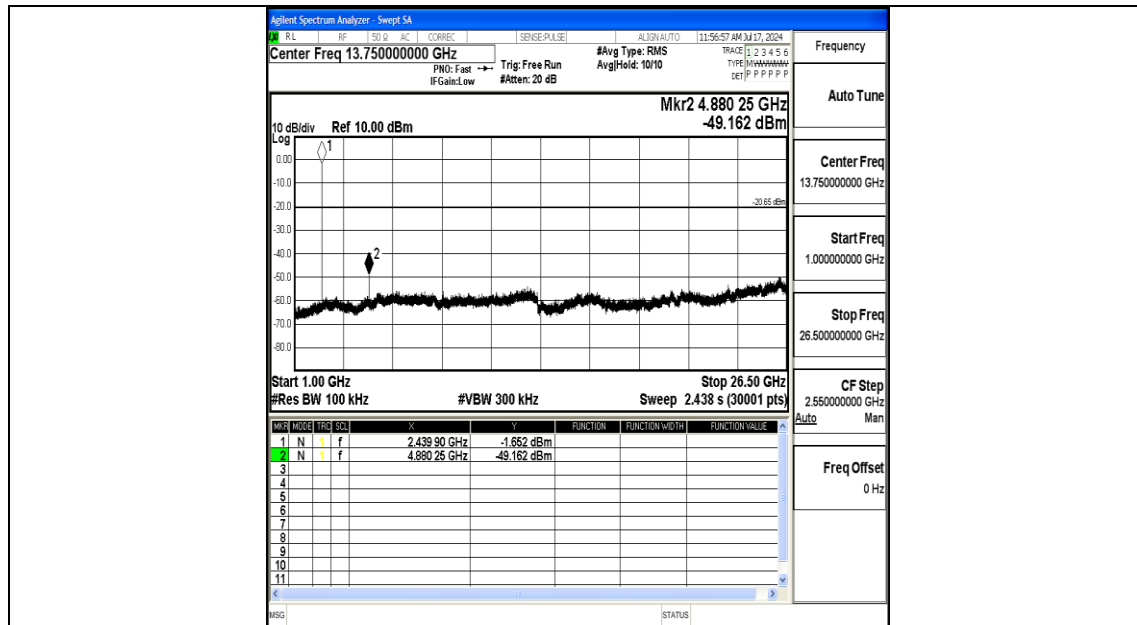
BLE_1M-Ant1-2402-1000~26500-PASS



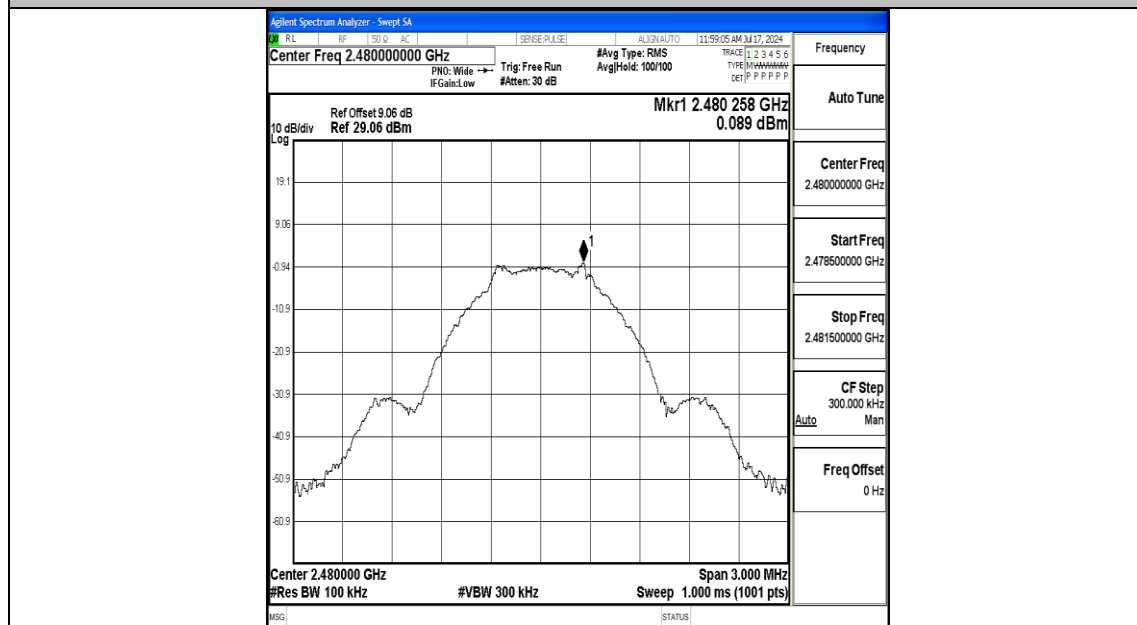
BLE_1M-Ant1-2440-0~Reference-PASS



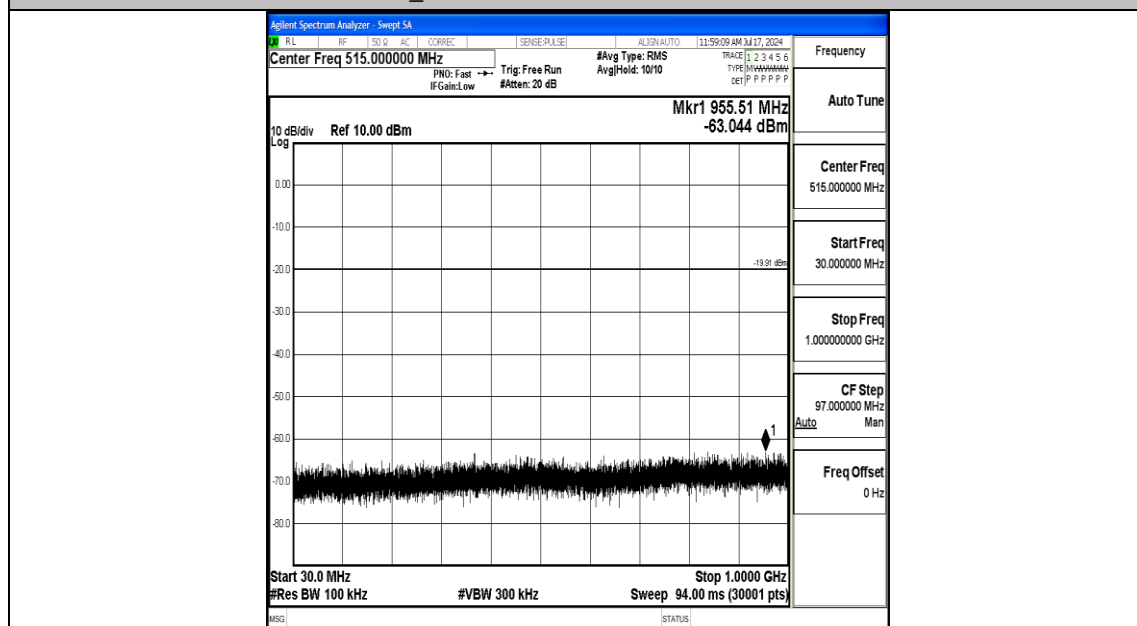
BLE_1M-Ant1-2440-30~1000-PASS



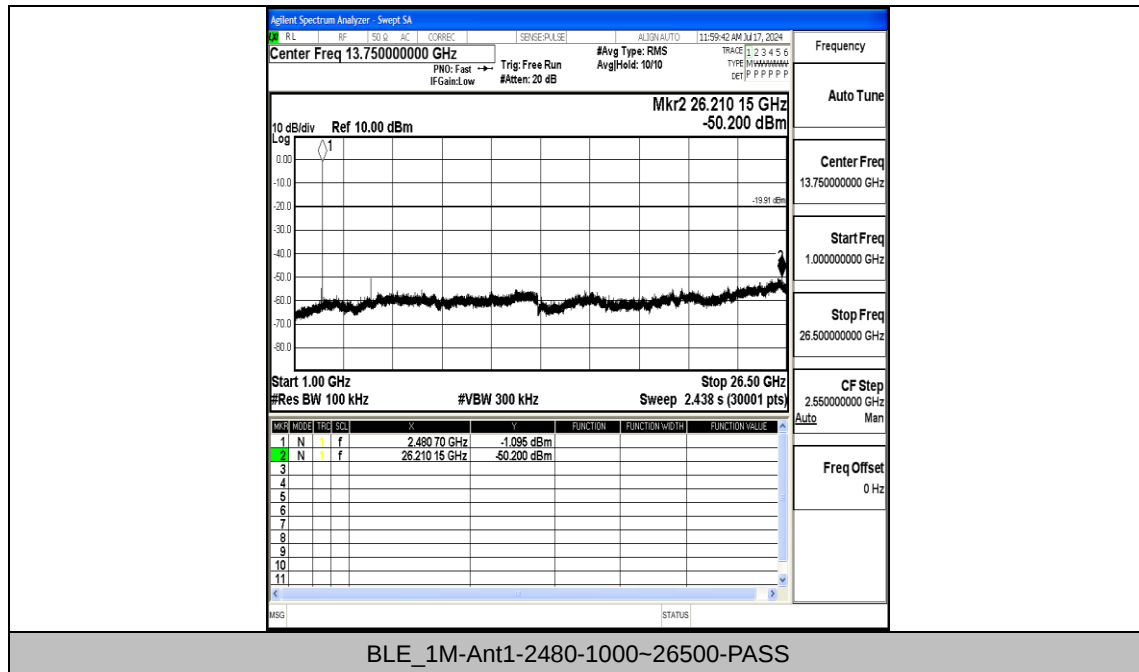
BLE_1M-Ant1-2440-1000~26500-PASS



BLE_1M-Ant1-2480-0~Reference-PASS



BLE_1M-Ant1-2480-30~1000-PASS



Appendix G: Duty Cycle

Test Result

TestMode	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

