

Appendix Test Data for BLE (Conducted Measurement)

Product Name: Wireless Mechanical Keyboard

Trade Mark: Keychron

Test Model: Q15 Max

FCC ID: 2BGKB-Q15MAX

Environmental Conditions

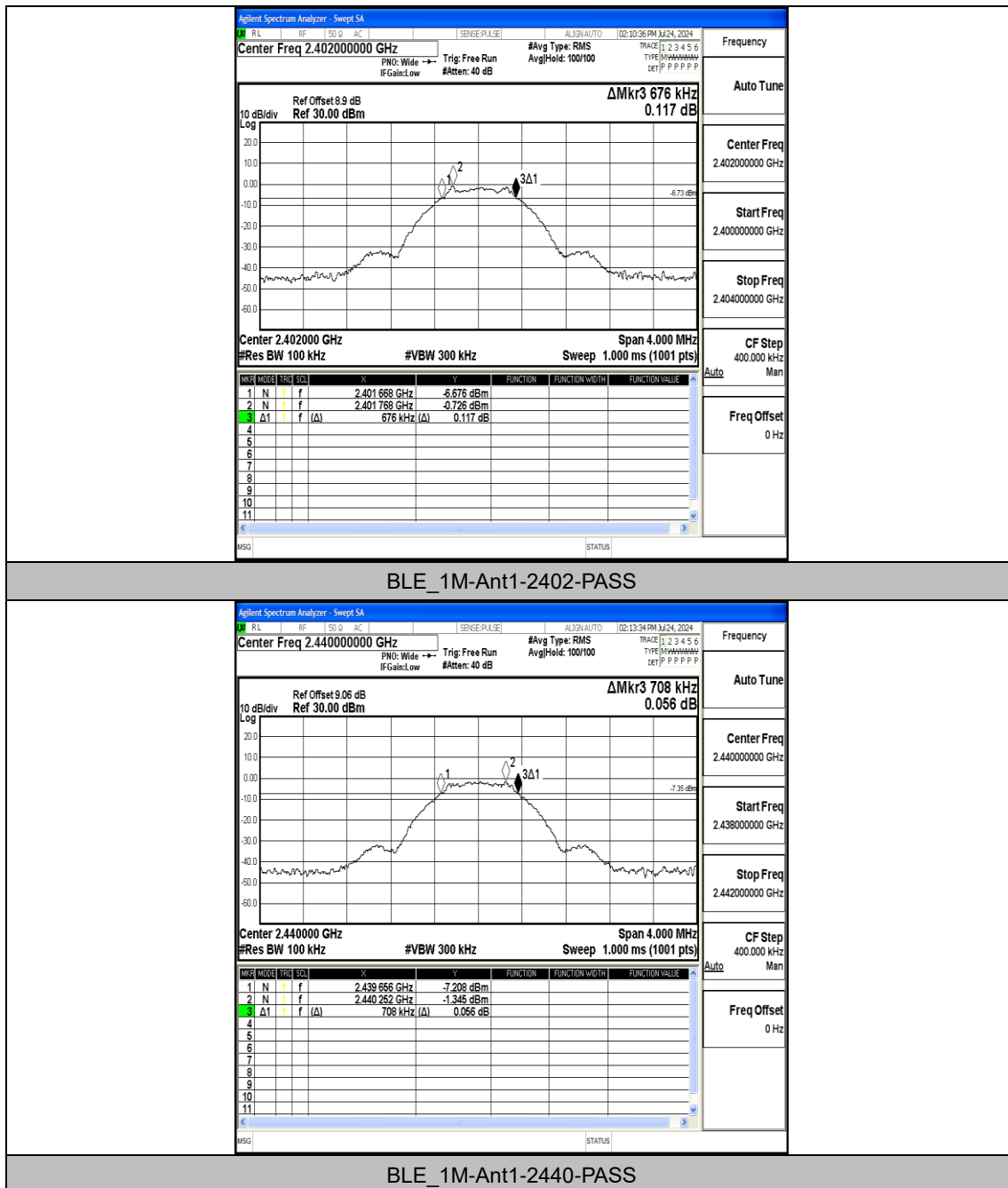
Temperature:	23.8℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

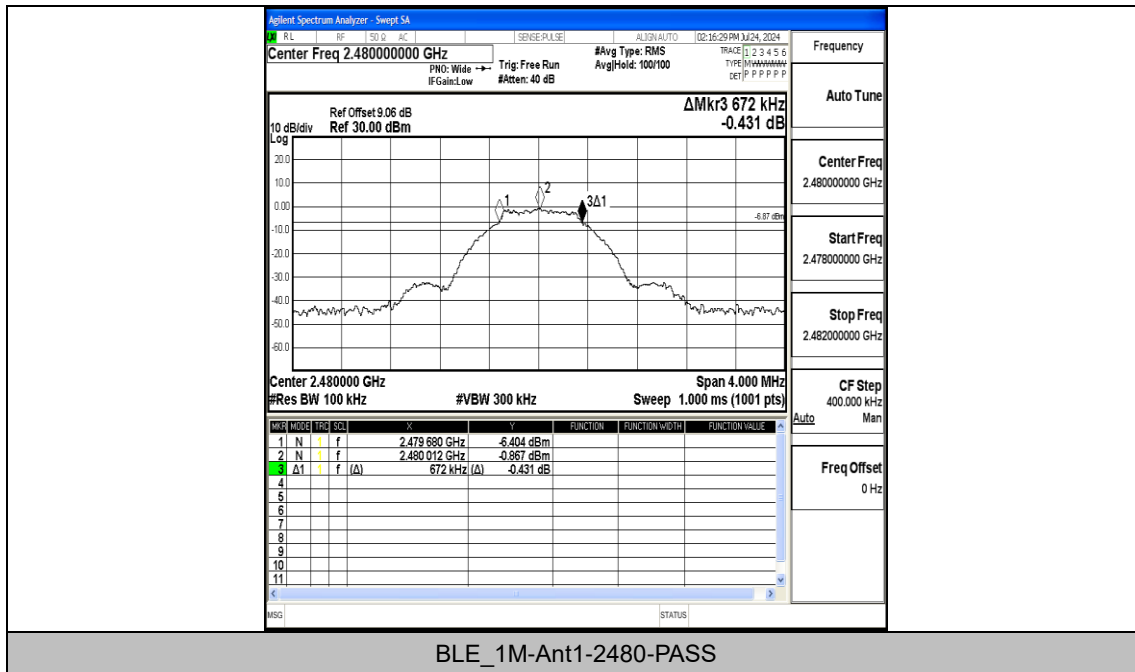
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.676	2401.668	2402.344	0.5	PASS
BLE_1M	Ant1	2440	0.708	2439.656	2440.364	0.5	PASS
BLE_1M	Ant1	2480	0.672	2479.680	2480.352	0.5	PASS

Test Graphs



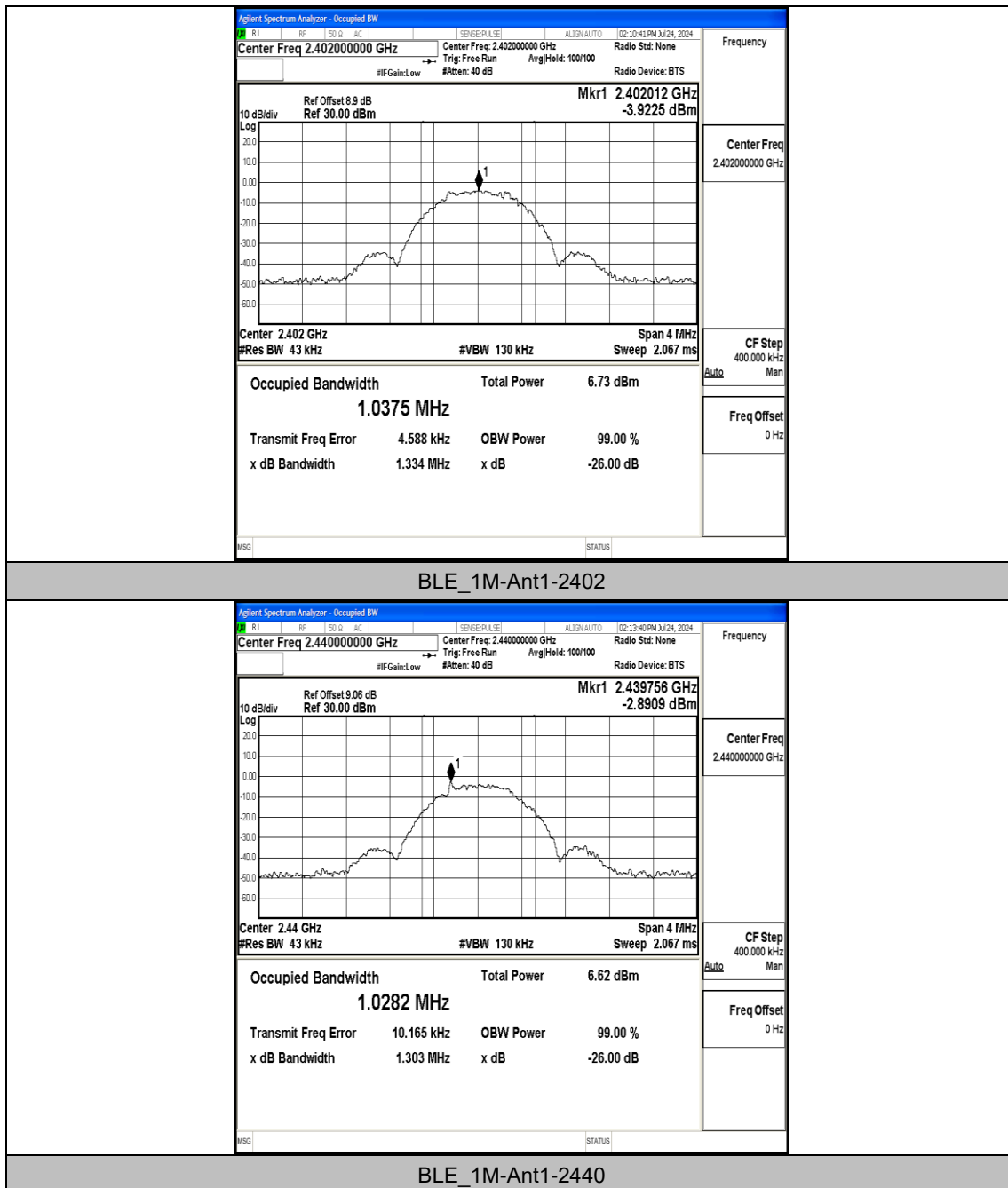


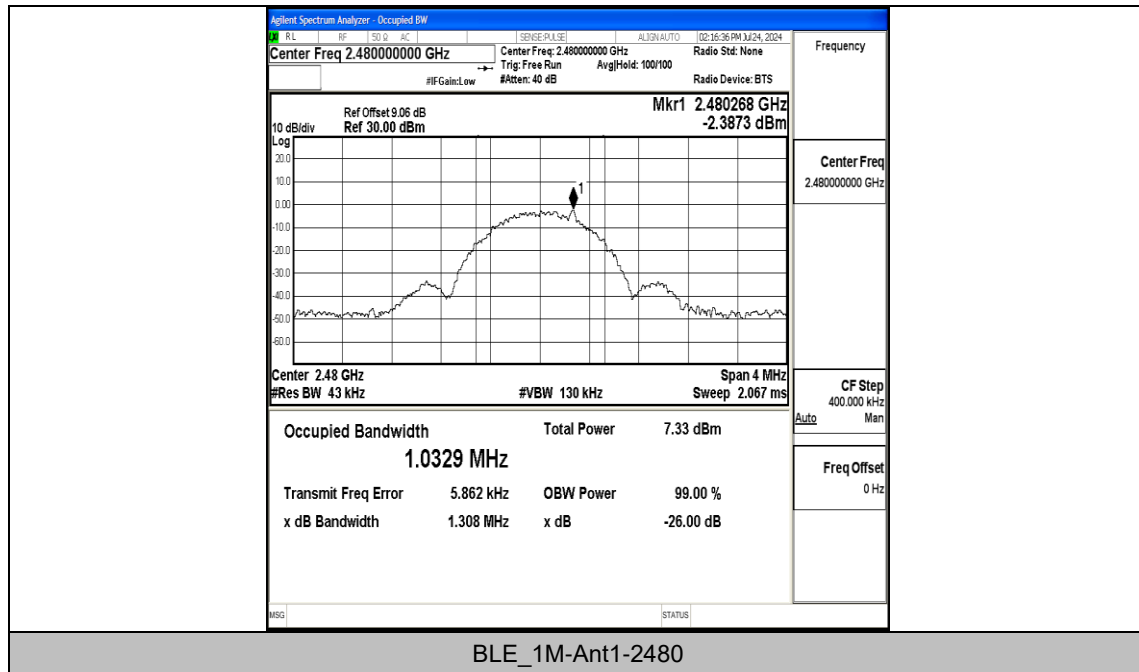
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0375	2401.4858	2402.5233	---	---
BLE_1M	Ant1	2440	1.0282	2439.4961	2440.5243	---	---
BLE_1M	Ant1	2480	1.0329	2479.4894	2480.5223	---	---

Test Graphs



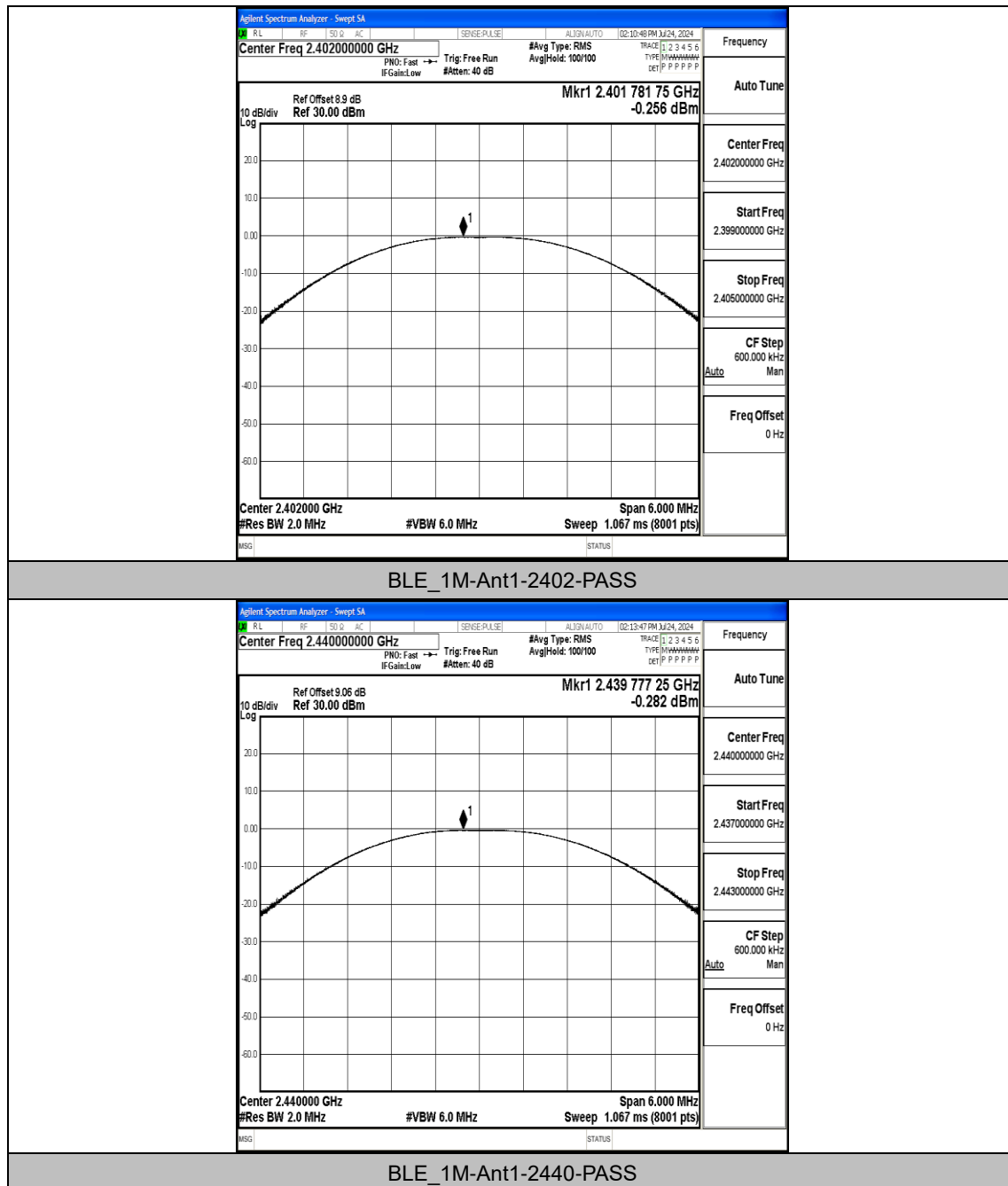


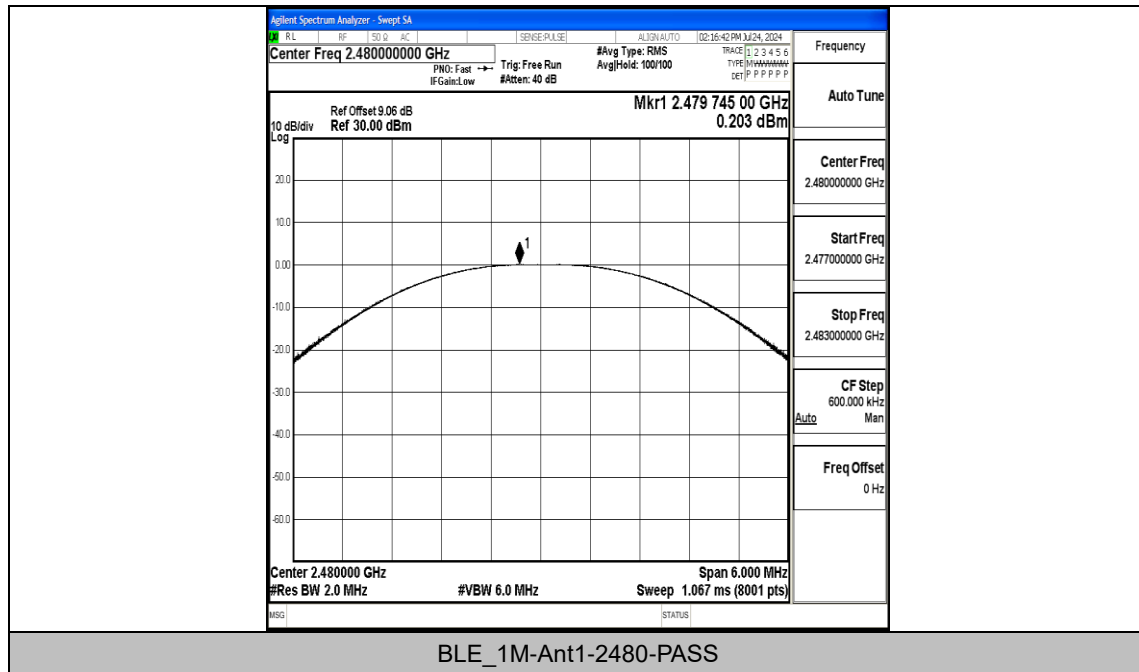
Appendix C: Maximum peak conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.26	≤30	PASS
BLE_1M	Ant1	2440	-0.28	≤30	PASS
BLE_1M	Ant1	2480	0.20	≤30	PASS

Test Graphs Peak



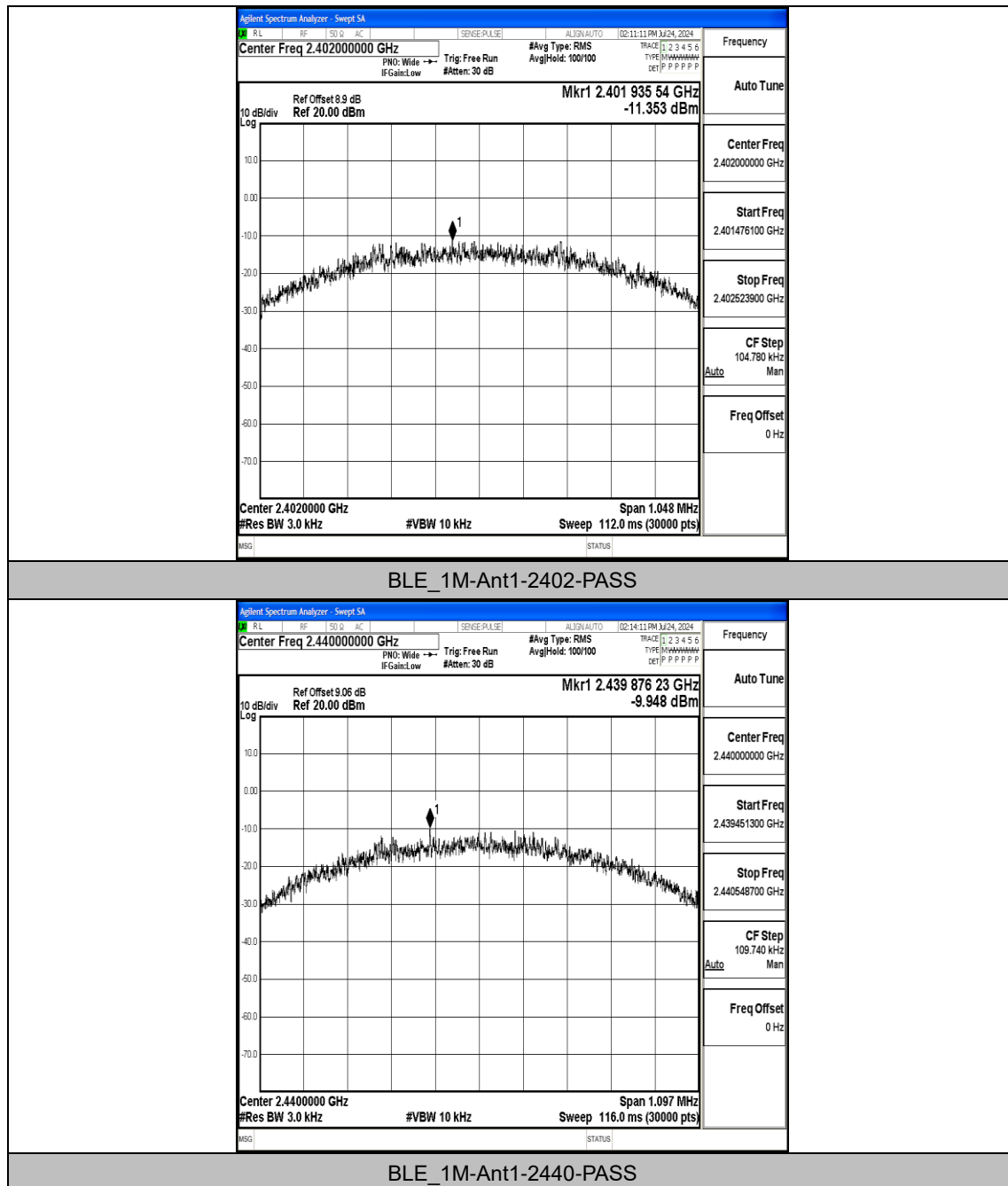


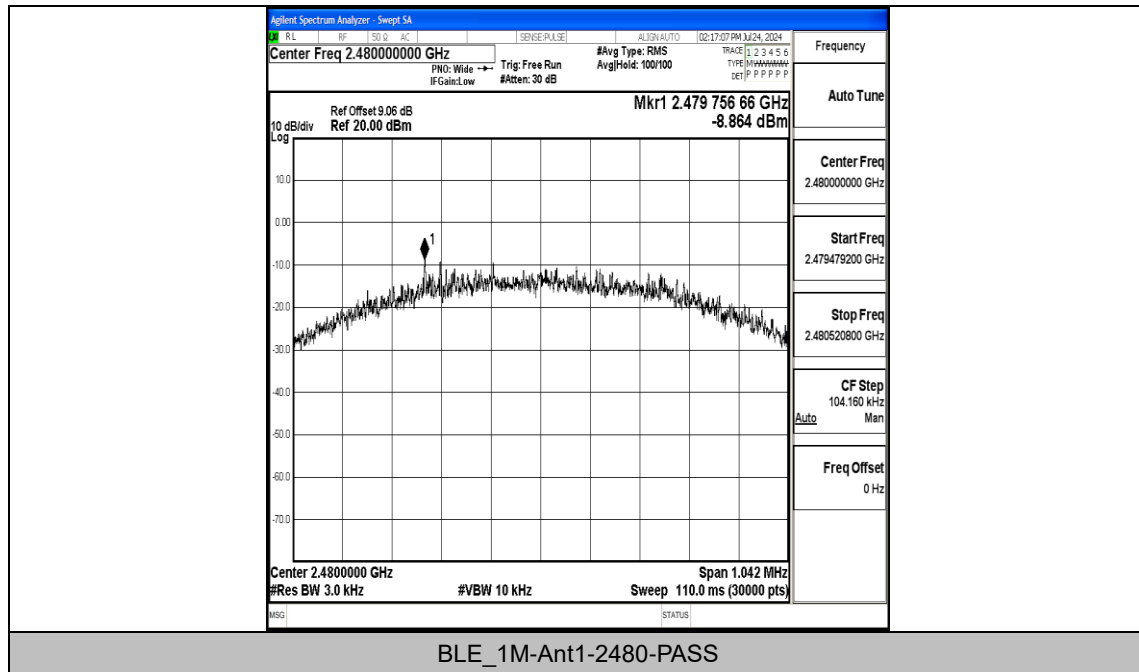
Appendix D: Maximum peak power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-11.35	≤8.00	PASS
BLE_1M	Ant1	2440	-9.95	≤8.00	PASS
BLE_1M	Ant1	2480	-8.86	≤8.00	PASS

Test Graphs



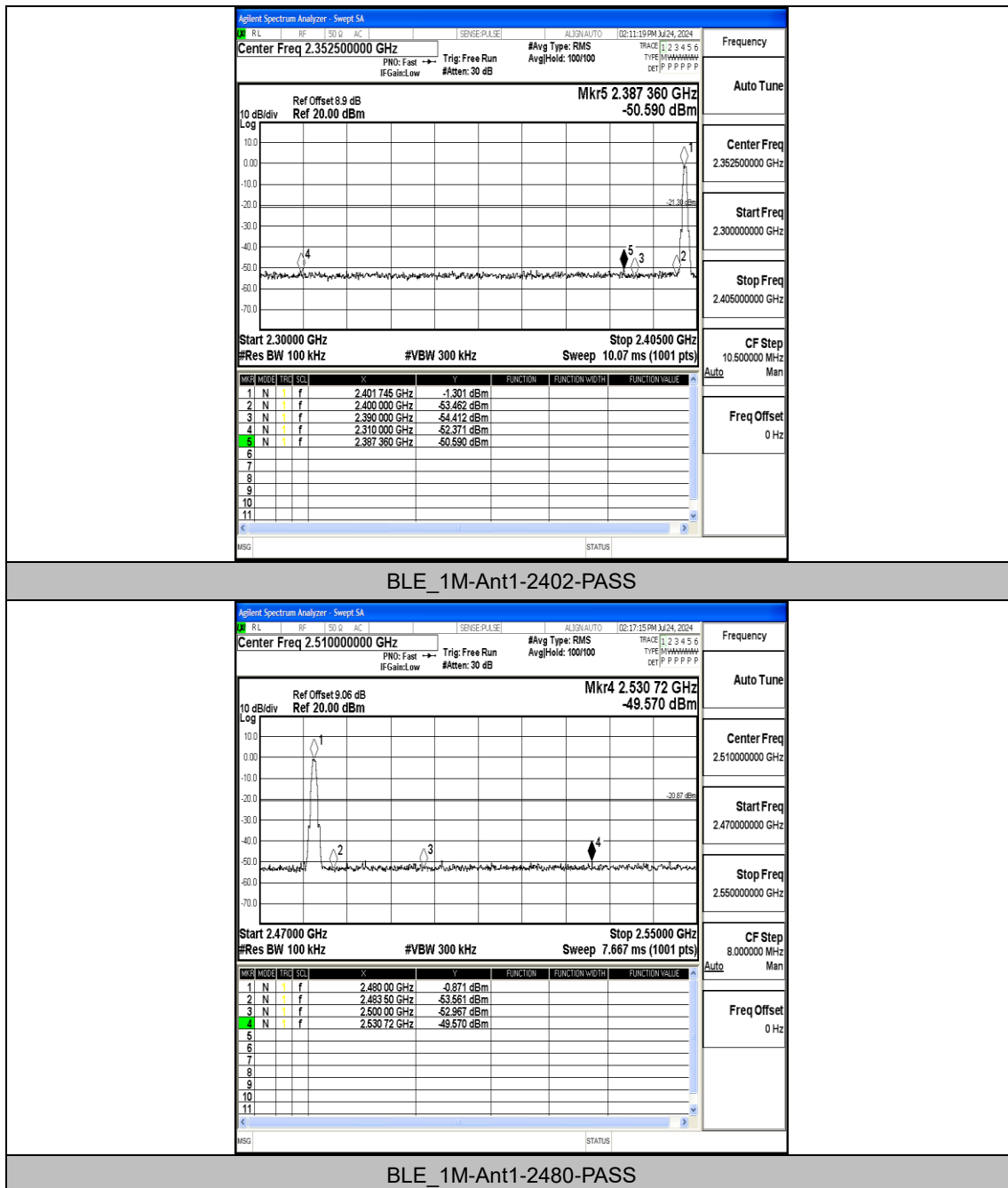


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.30	-50.59	≤-21.3	PASS
BLE_1M	Ant1	High	2480	-0.87	-49.57	≤-20.87	PASS

Test Graphs

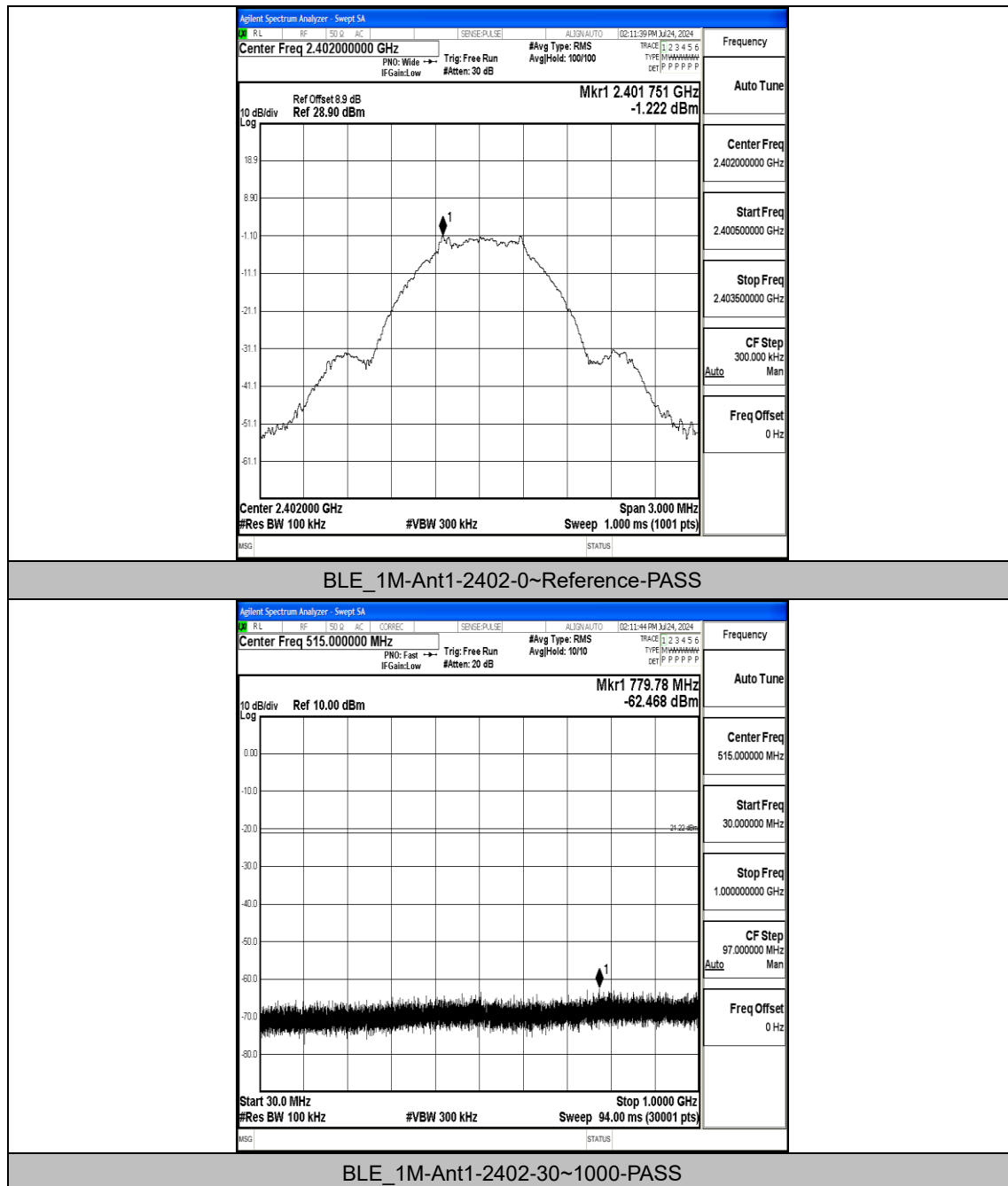


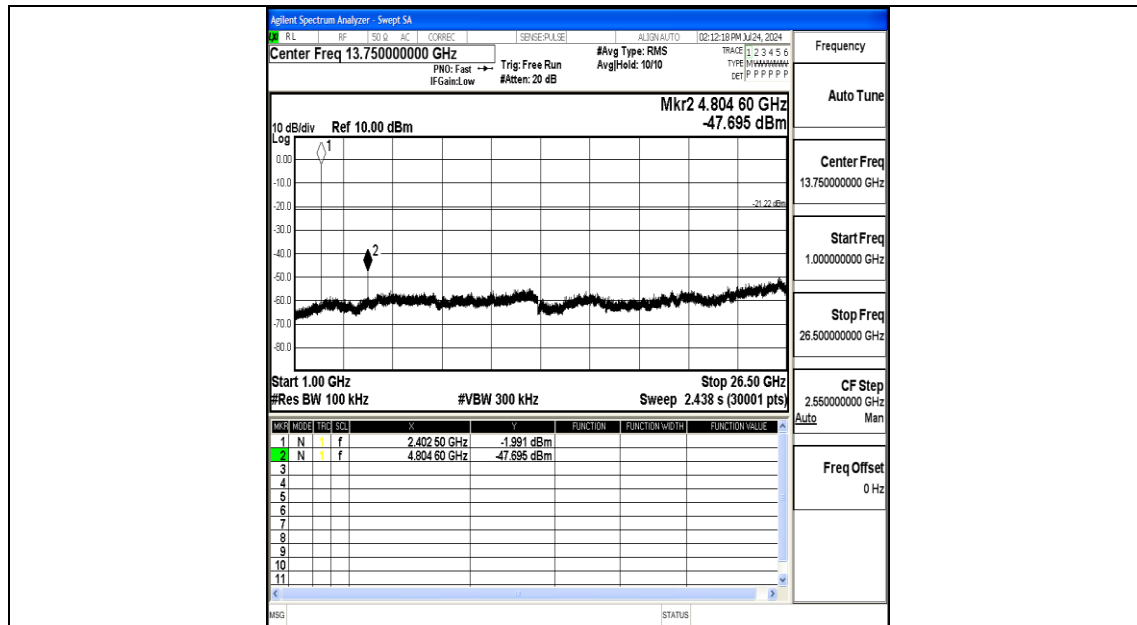
Appendix F: Conducted Spurious Emission

Test Result

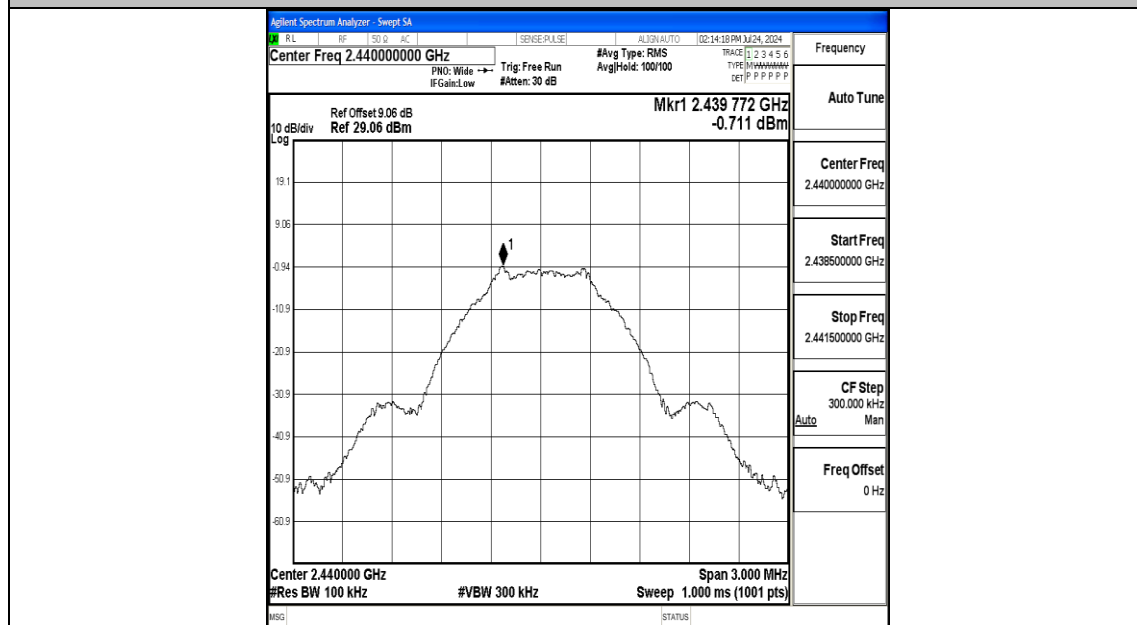
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-1.22	-1.22	---	PASS
BLE_1M	Ant1	2402	30~1000	-1.22	-62.47	≤-21.22	PASS
BLE_1M	Ant1	2402	1000~26500	-1.22	-47.7	≤-21.22	PASS
BLE_1M	Ant1	2440	0~Reference	-0.71	-0.71	---	PASS
BLE_1M	Ant1	2440	30~1000	-0.71	-62.63	≤-20.71	PASS
BLE_1M	Ant1	2440	1000~26500	-0.71	-49.11	≤-20.71	PASS
BLE_1M	Ant1	2480	0~Reference	-0.71	-0.71	---	PASS
BLE_1M	Ant1	2480	30~1000	-0.71	-62.48	≤-20.71	PASS
BLE_1M	Ant1	2480	1000~26500	-0.71	-49.05	≤-20.71	PASS

Test Graphs

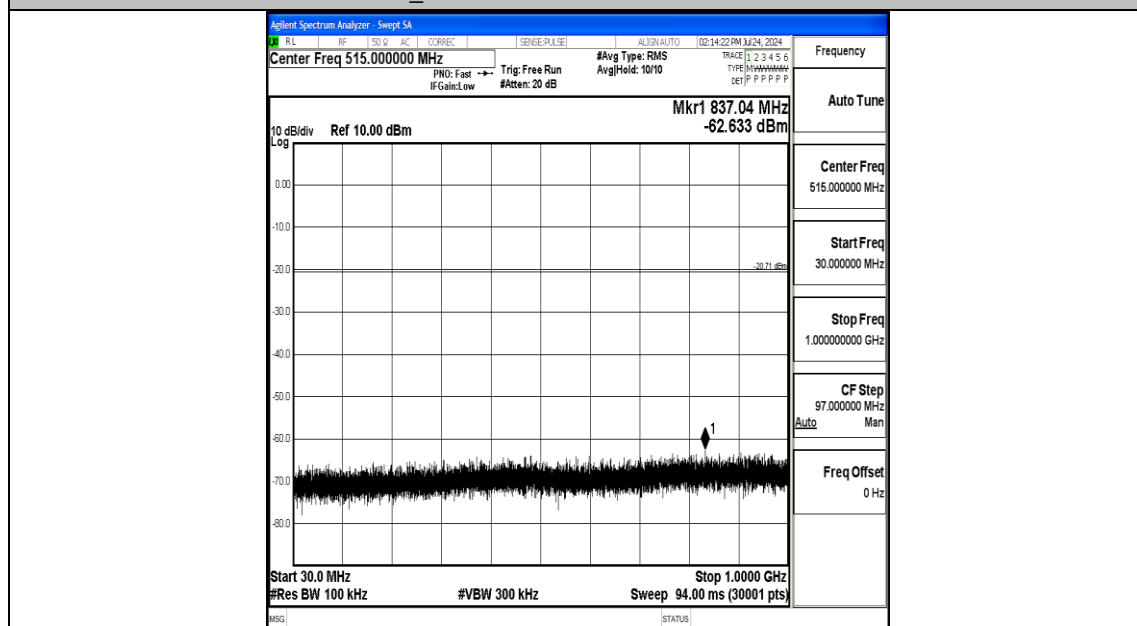




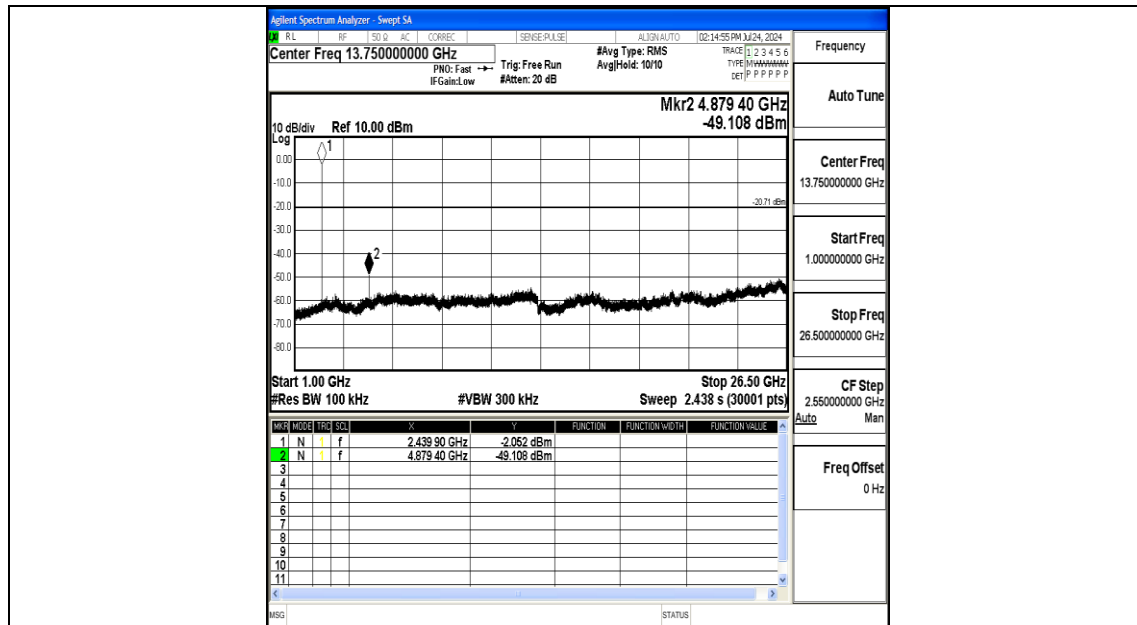
BLE_1M-Ant1-2402-1000~26500-PASS



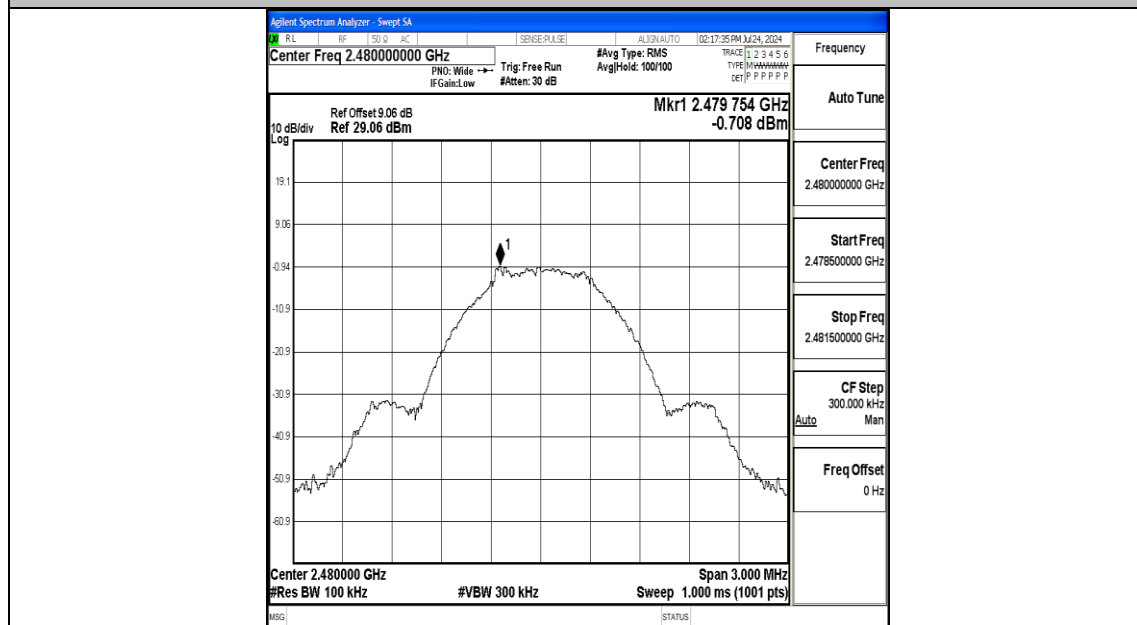
BLE_1M-Ant1-2440-0~Reference-PASS



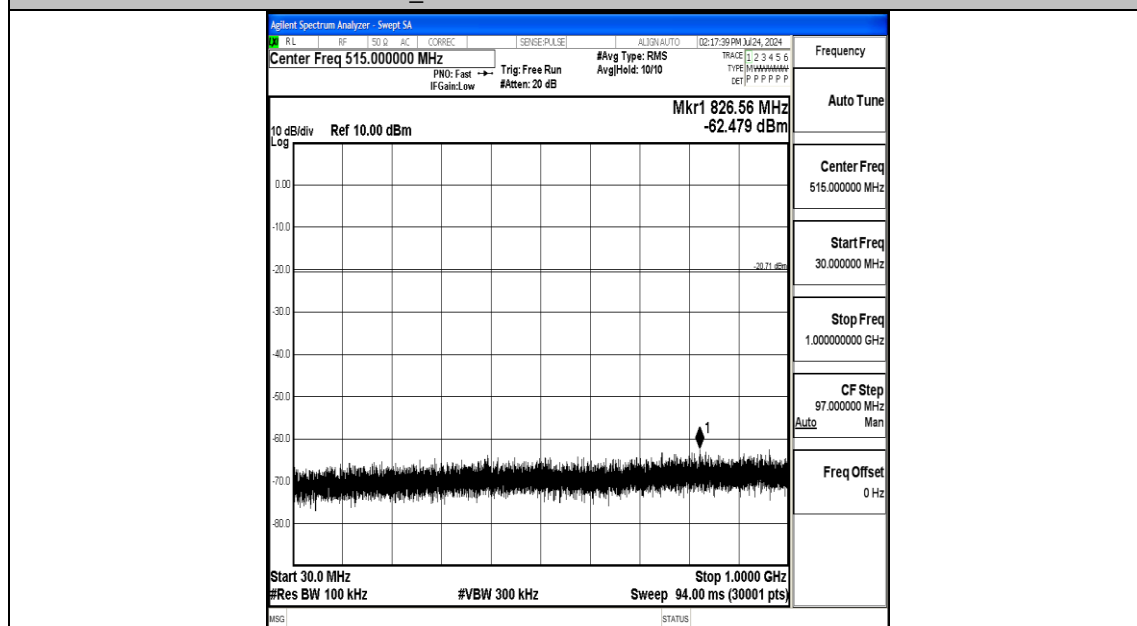
BLE_1M-Ant1-2440-30~1000-PASS



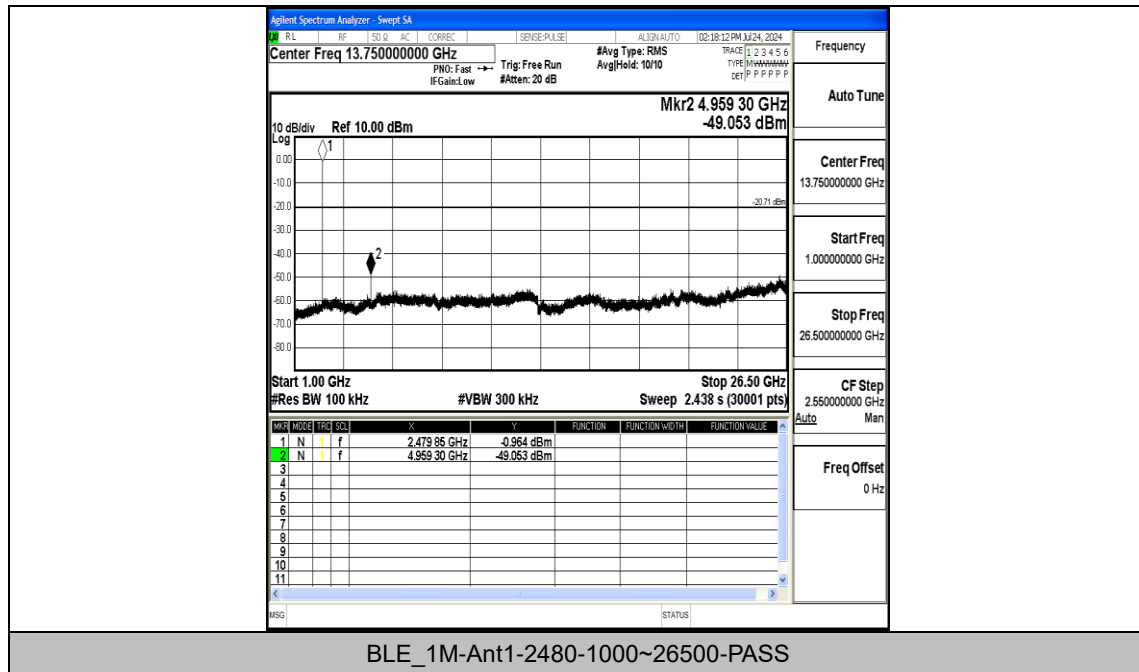
BLE_1M-Ant1-2440-1000~26500-PASS



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

