

FCC Appendix RF Test Data for BLE

Company: : **Promaster Electronic LLC**

EUT : **Wireless CP&AA adaptor**

FCC ID : **2A6P9-KPWCA01**

Model Number : **KPWCA-101**

Report No. : **CTA25052700502**

Reviewed By : **Eric Wang**

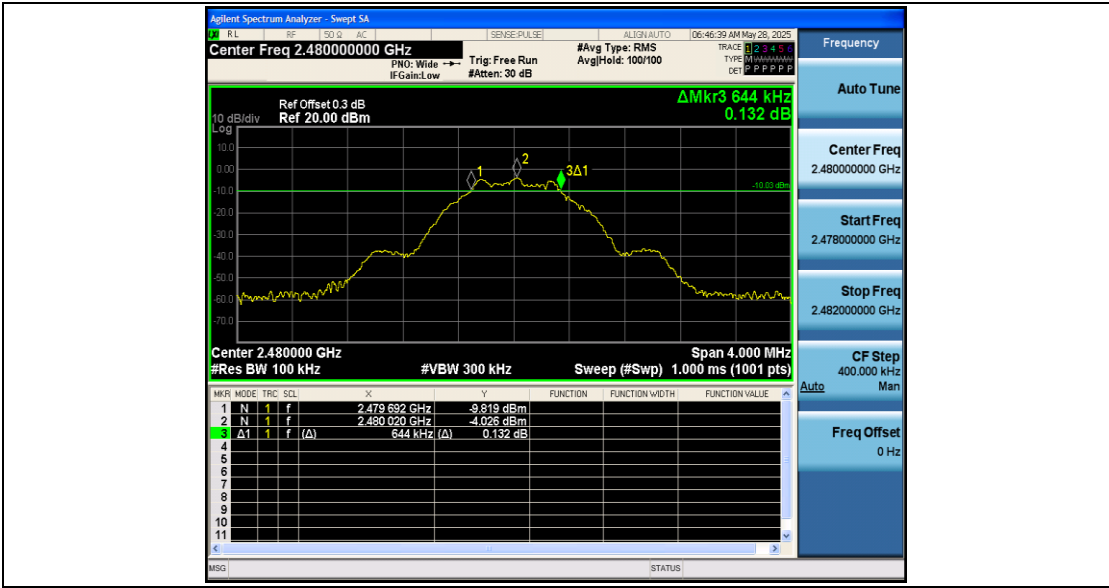
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.644	2401.696	2402.340	0.5	PASS
		2440	0.636	2439.696	2440.332	0.5	PASS
		2480	0.644	2479.692	2480.336	0.5	PASS

Test Graphs



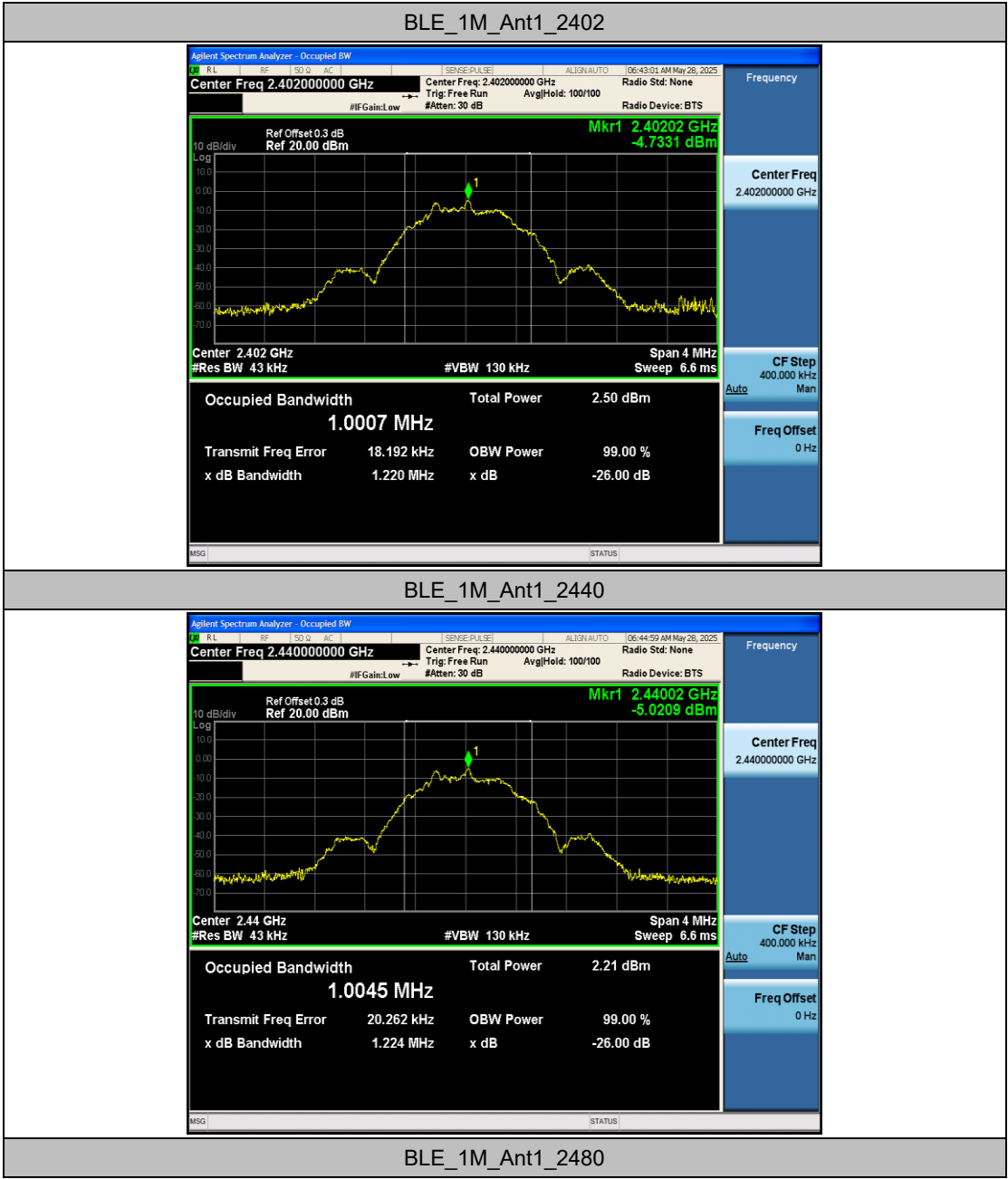


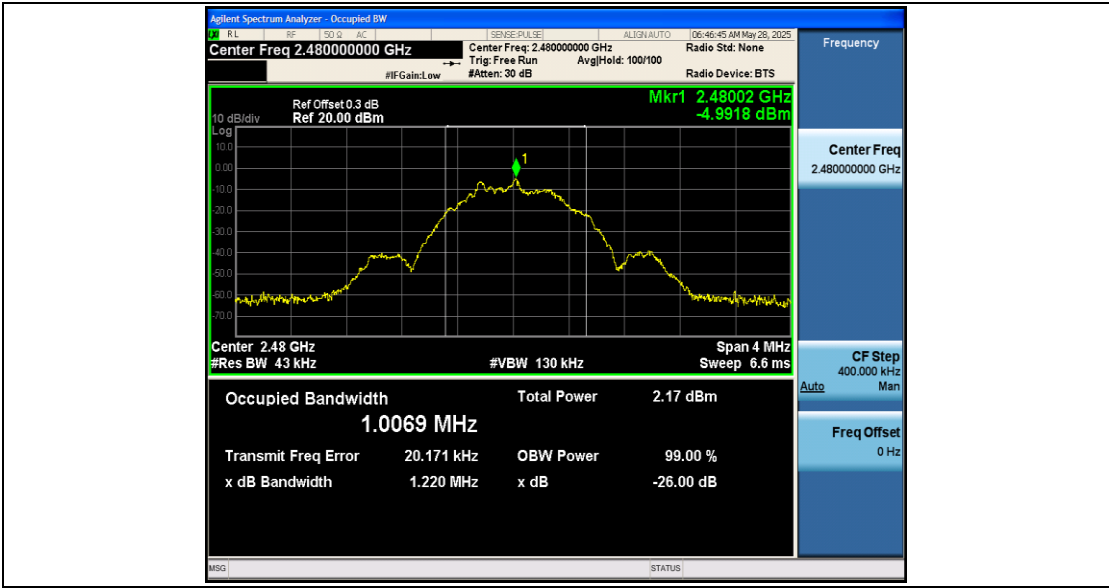
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0007	2401.5178	2402.5185	---	---
		2440	1.0045	2439.5180	2440.5225	---	---
		2480	1.0069	2479.5167	2480.5236	---	---

Test Graphs





Appendix C: Maximum conducted output power

Test Result Peak

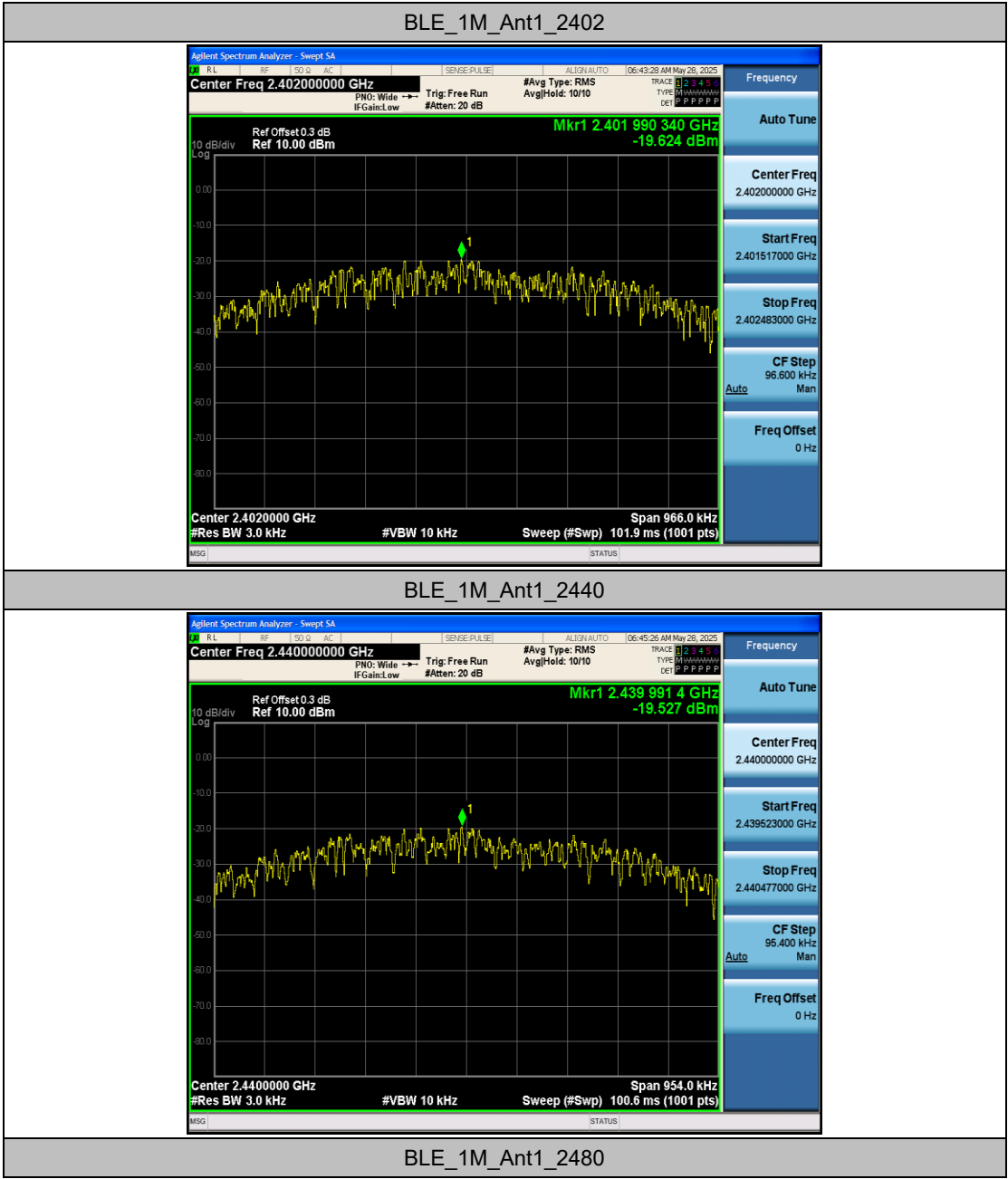
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-3.61	≤30	PASS
		2440	-3.93	≤30	PASS
		2480	-3.94	≤30	PASS

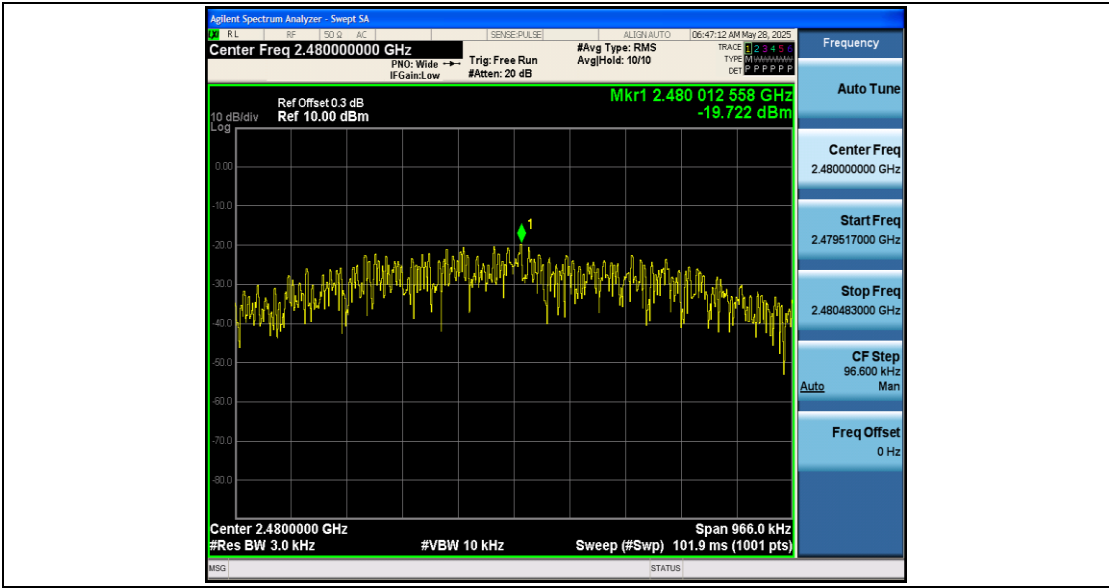
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-19.62	≤8.00	PASS
		2440	-19.53	≤8.00	PASS
		2480	-19.72	≤8.00	PASS

Test Graphs



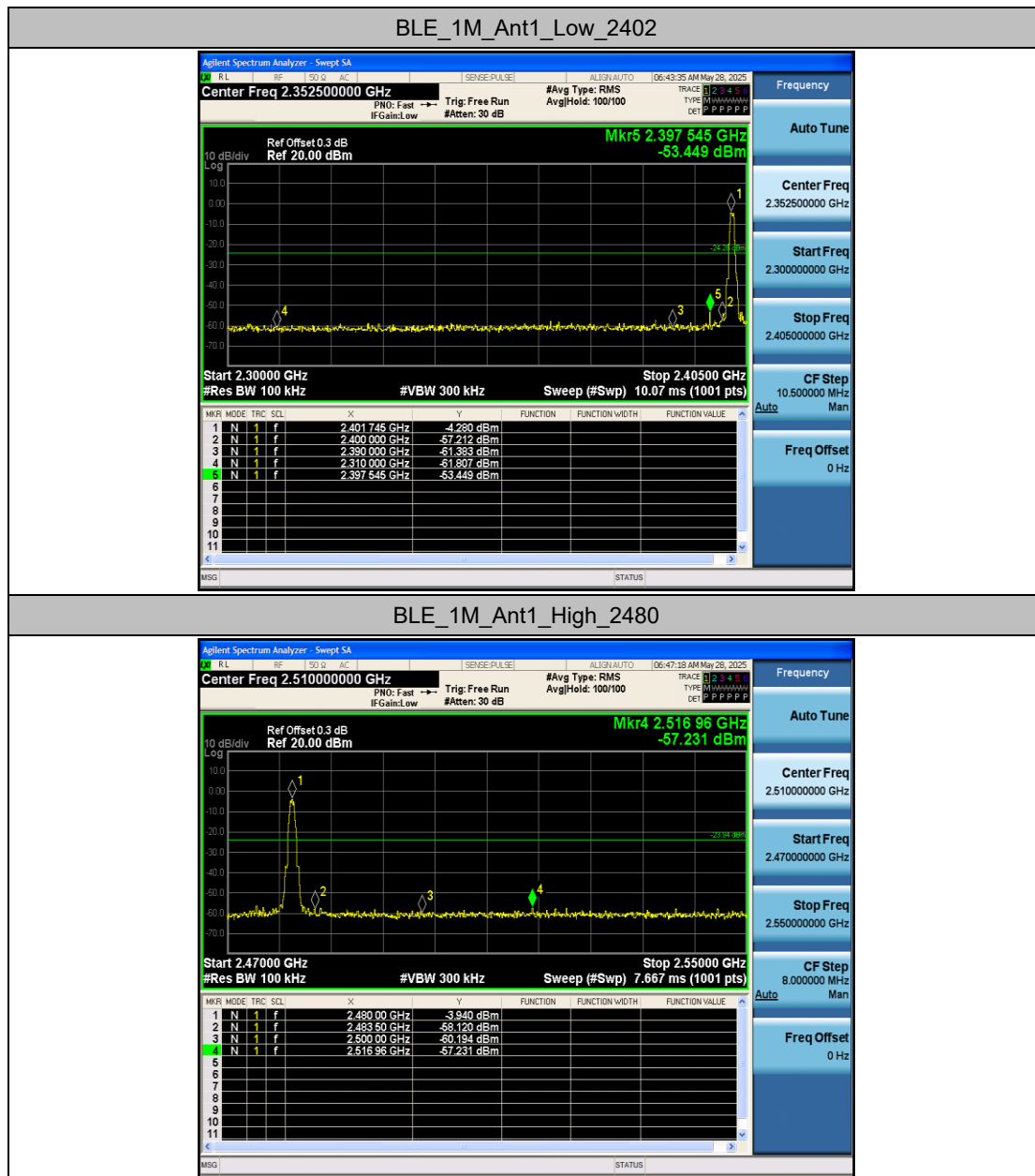


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-4.28	-53.45	≤-24.28	PASS
		High	2480	-3.94	-57.23	≤-23.94	PASS

Test Graphs

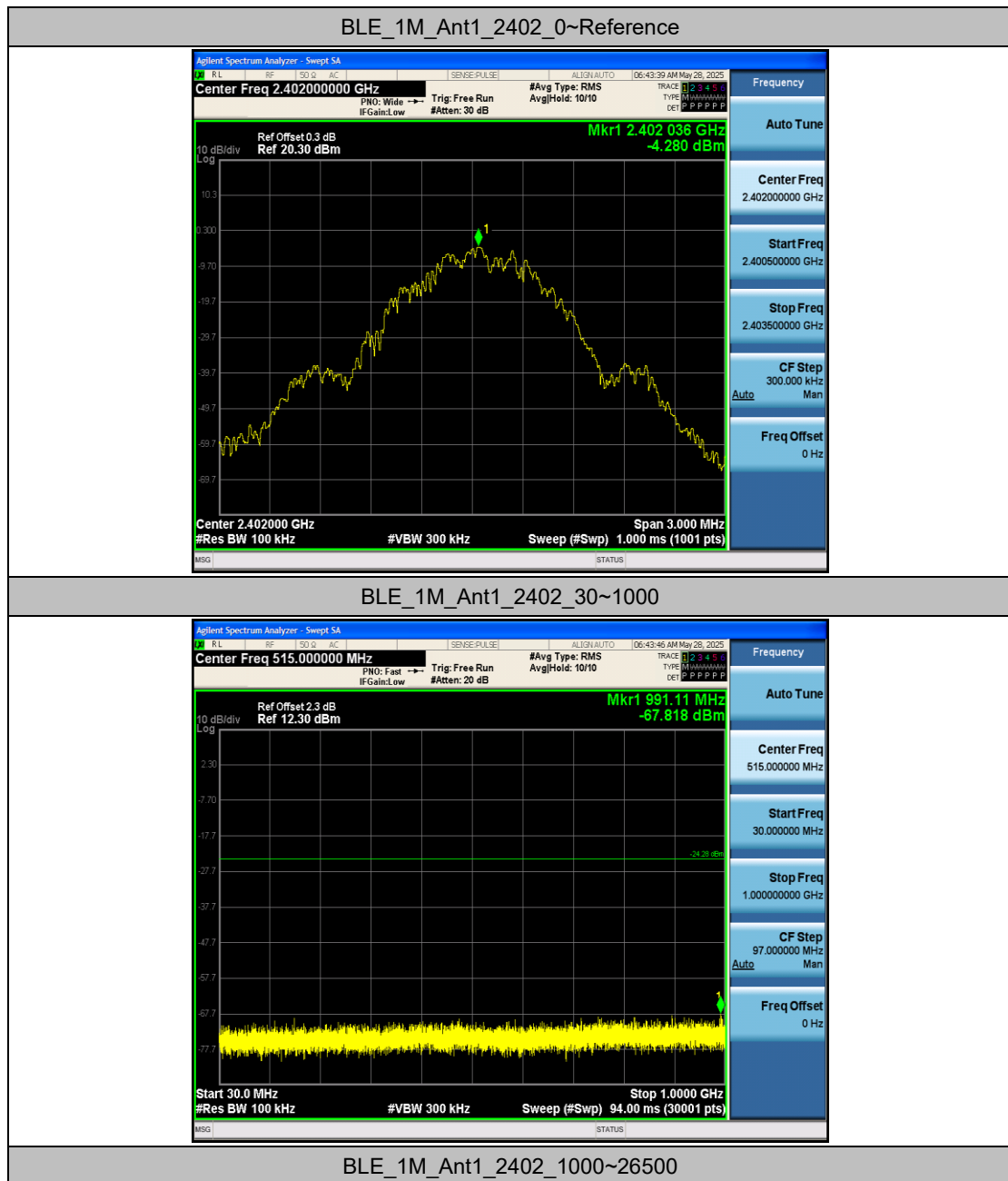


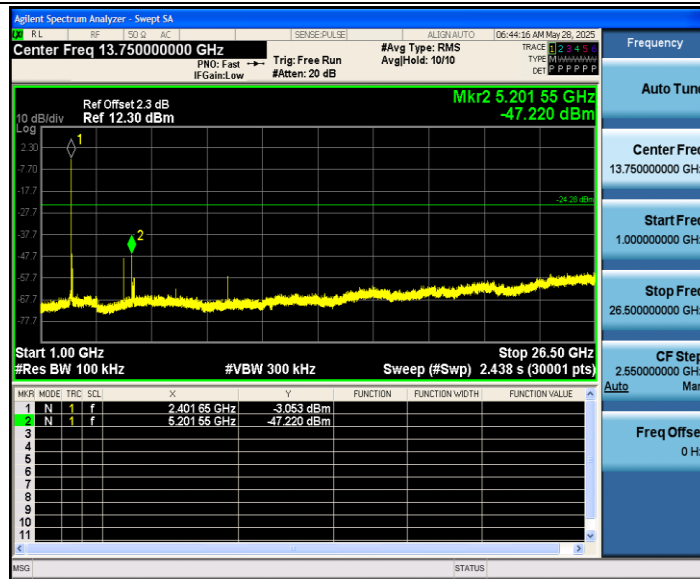
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-4.28	-4.28	---	PASS
			30~1000	-4.28	-67.82	≤-24.28	PASS
			1000~26500	-4.28	-47.22	≤-24.28	PASS
		2440	Reference	-5.30	-5.30	---	PASS
			30~1000	-5.30	-68.18	≤-25.3	PASS
			1000~26500	-5.30	-49.58	≤-25.3	PASS
		2480	Reference	-6.46	-6.46	---	PASS
			30~1000	-6.46	-67.77	≤-26.46	PASS
			1000~26500	-6.46	-48.07	≤-26.46	PASS

Test Graphs

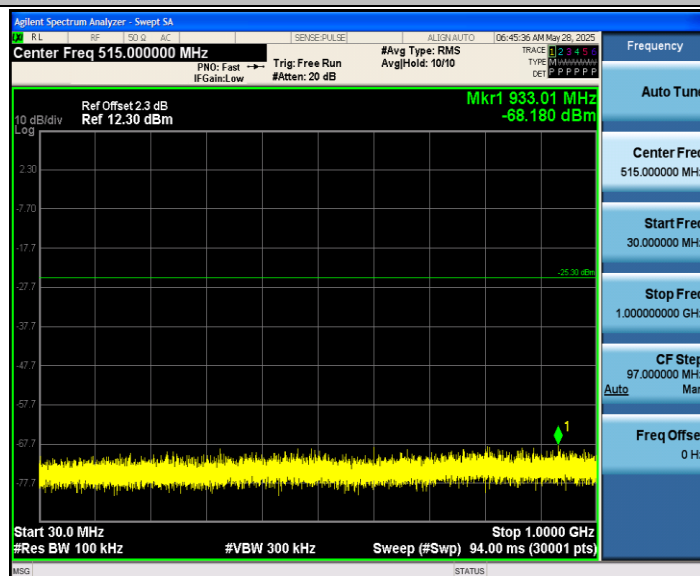




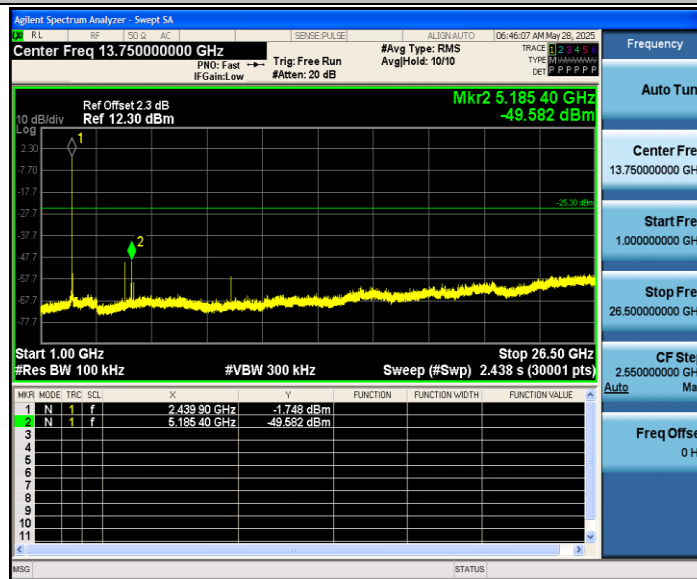
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



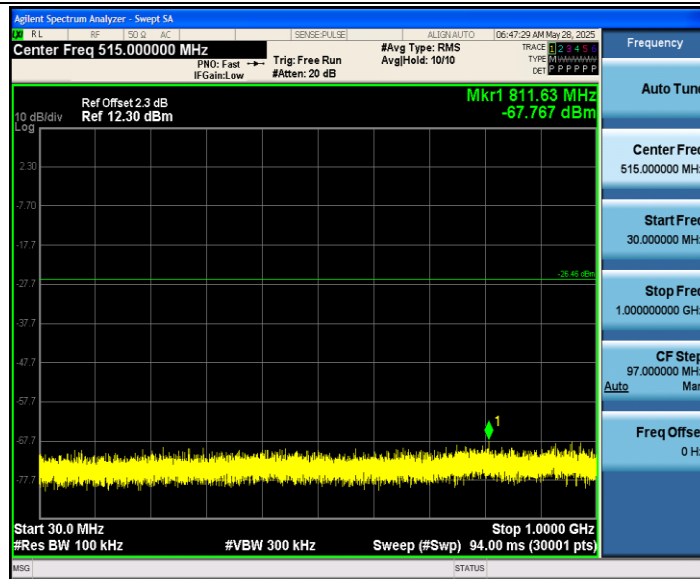
BLE_1M_Ant1_2440_1000~26500



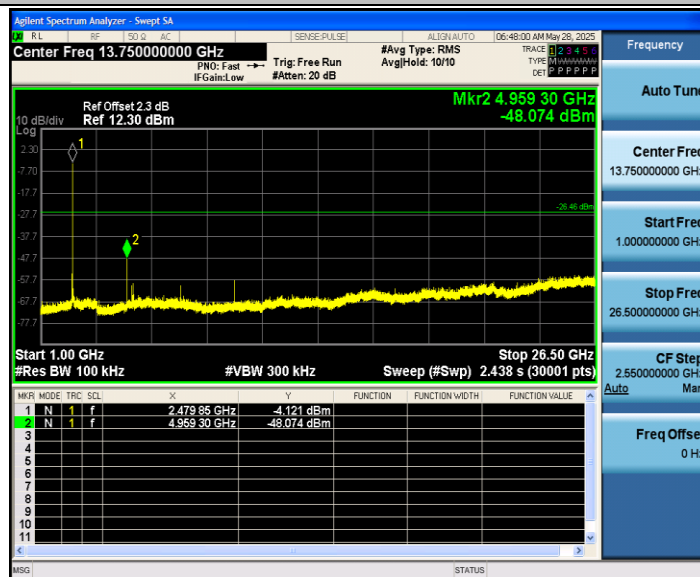
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500



Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	0.41	0.63	0.6508	65.08	1.87	---	---
		2440	0.41	0.63	0.6508	65.08	1.87	---	---
		2480	0.41	0.63	0.6508	65.08	1.87	---	---

Test Graphs

