

Appendix RF Test Data for BLE

FCC ID : 2BRMC-5050RGB

Company : CONG TY TNHH NGU KIM TAN UYEN

EUT : led strip

Model Number : 5050 RGB

Report No. : CTA25080600101

Reviewed By : Eric Wang

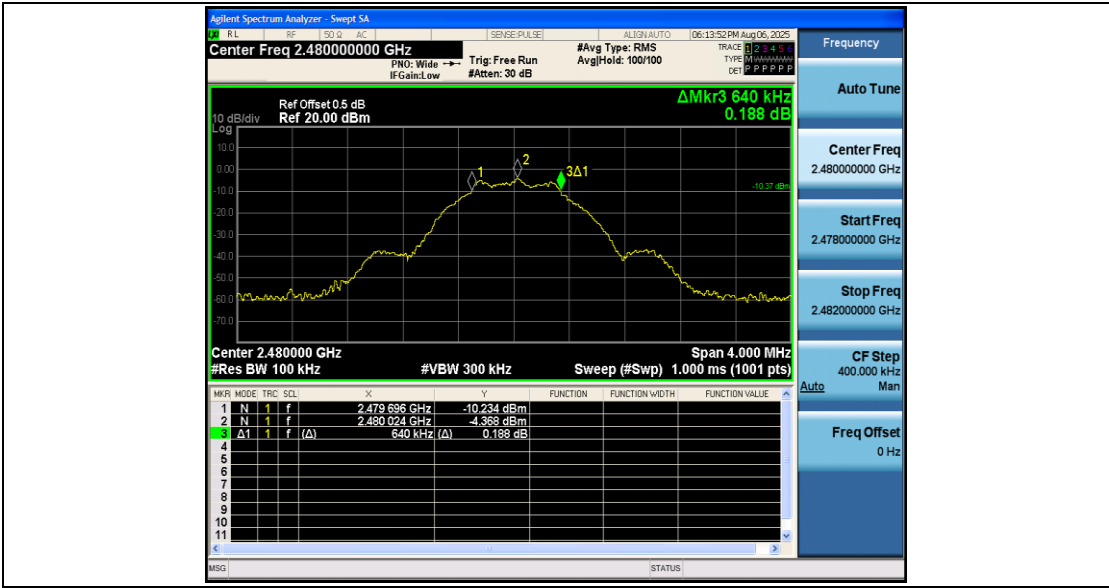
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.648	2401.692	2402.340	0.5	PASS
		2440	0.648	2439.692	2440.340	0.5	PASS
		2480	0.640	2479.696	2480.336	0.5	PASS

Test Graphs



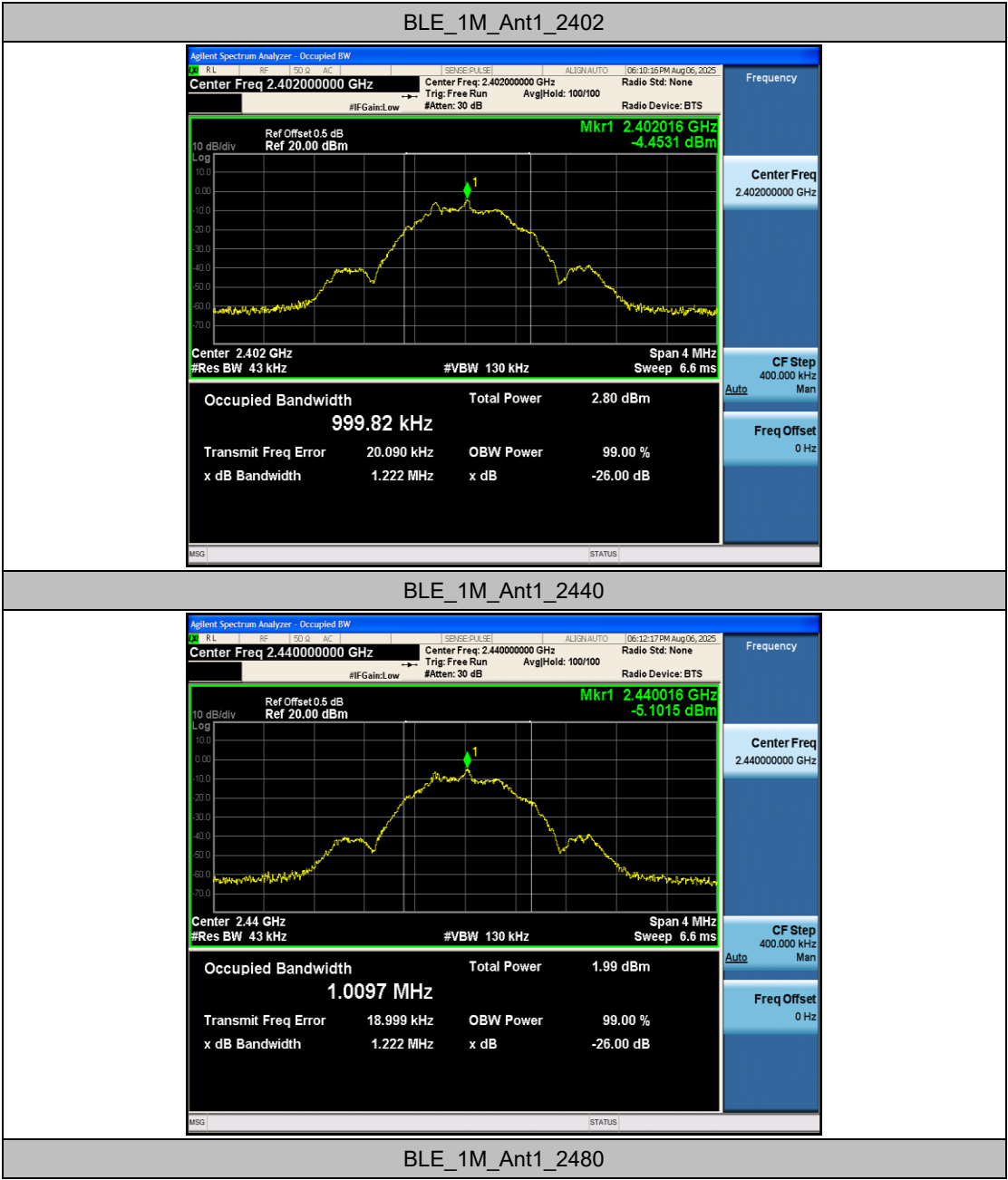


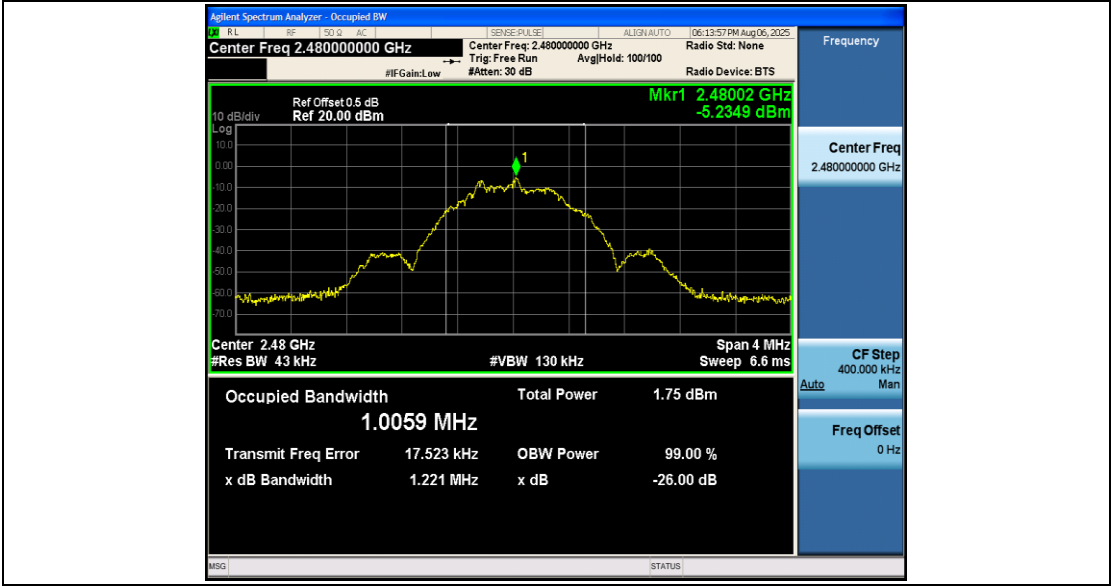
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.99982	2401.5202	2402.5200	---	---
		2440	1.0097	2439.5142	2440.5239	---	---
		2480	1.0059	2479.5146	2480.5205	---	---

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	-3.37	≤30	PASS
		2440	-3.97	≤30	PASS
		2480	-4.19	≤30	PASS

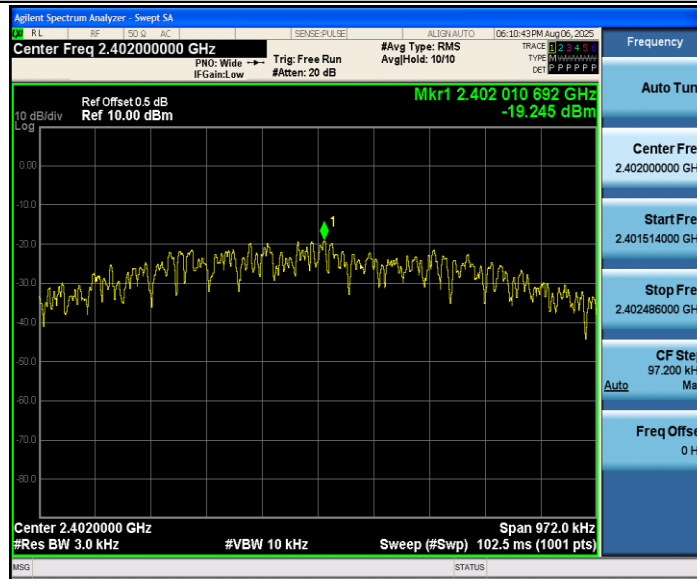
Appendix D: Maximum power spectral density

Test Result

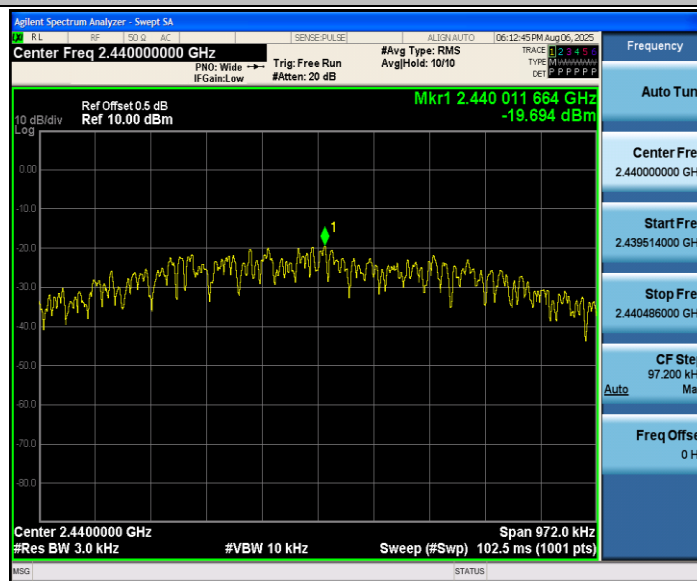
TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-19.25	≤8.00	PASS
		2440	-19.69	≤8.00	PASS
		2480	-20.08	≤8.00	PASS

Test Graphs

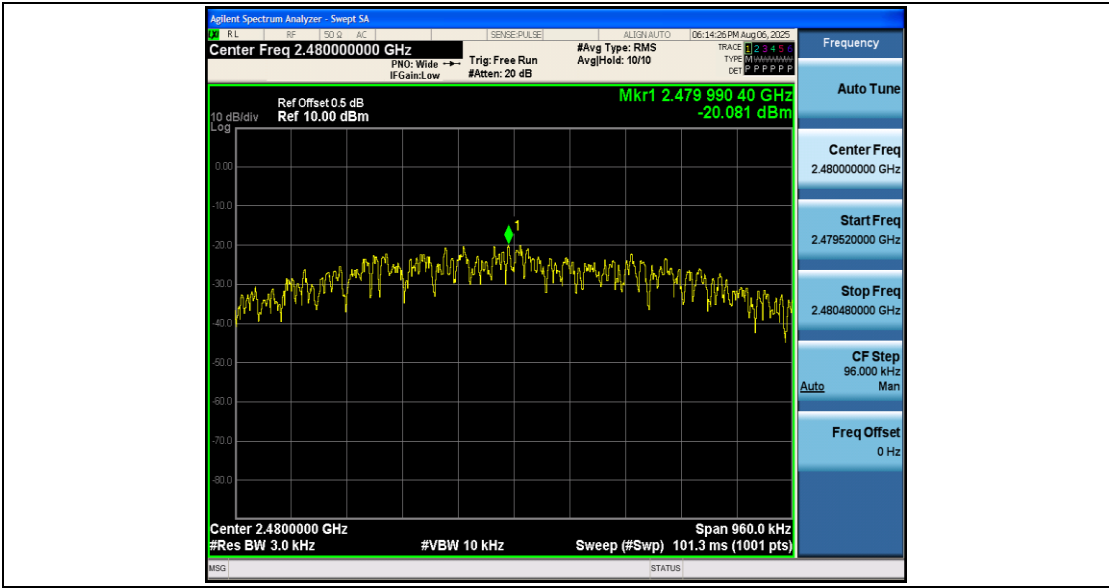
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

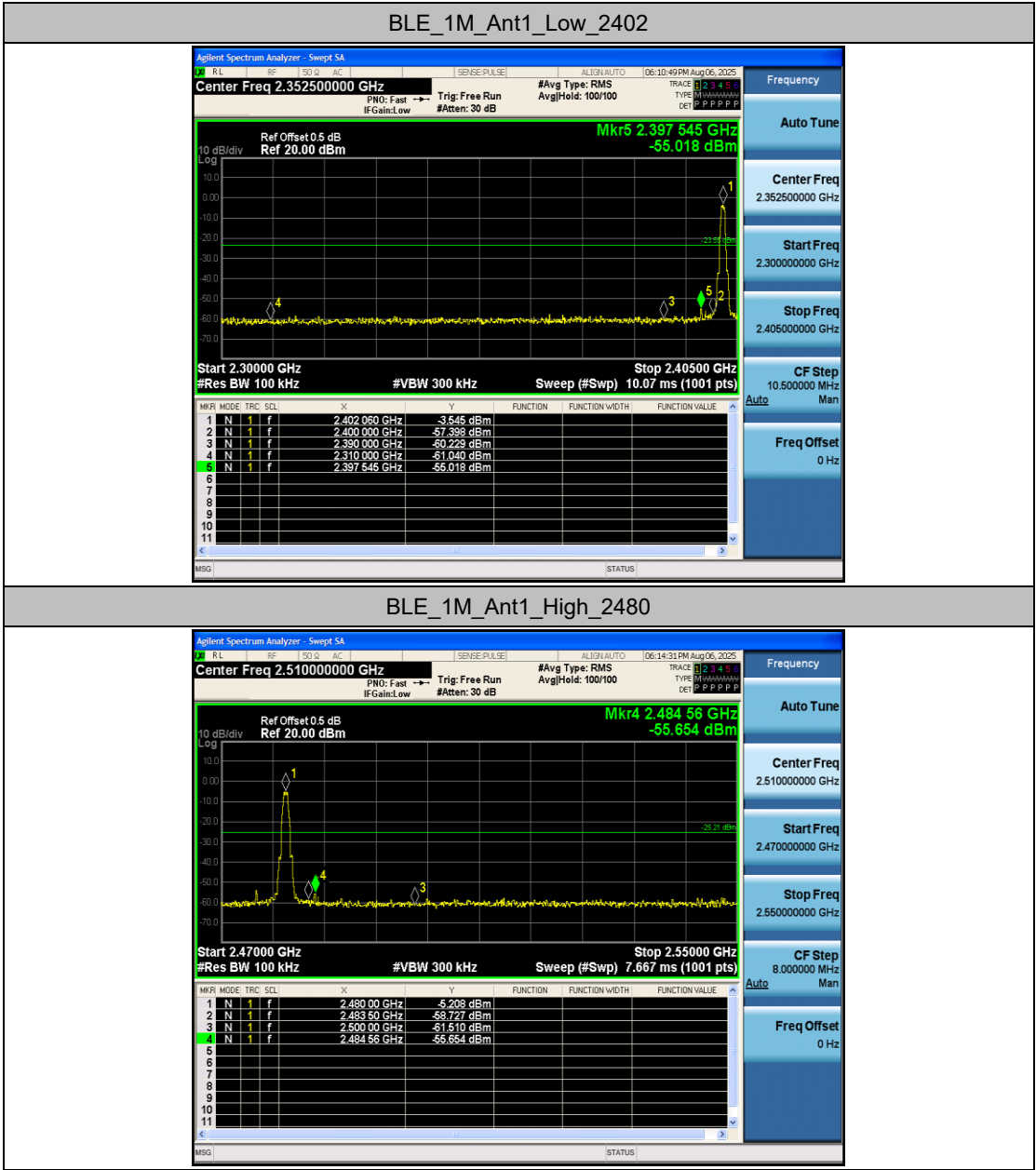


Appendix E: Band edge measurements

Test Result

TestMod e	Antenn a	ChNam e	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
BLE_1M	Ant1	Low	2402	-3.55	-55.02	≤-23.55	PASS
		High	2480	-5.21	-55.65	≤-25.21	PASS

Test Graphs

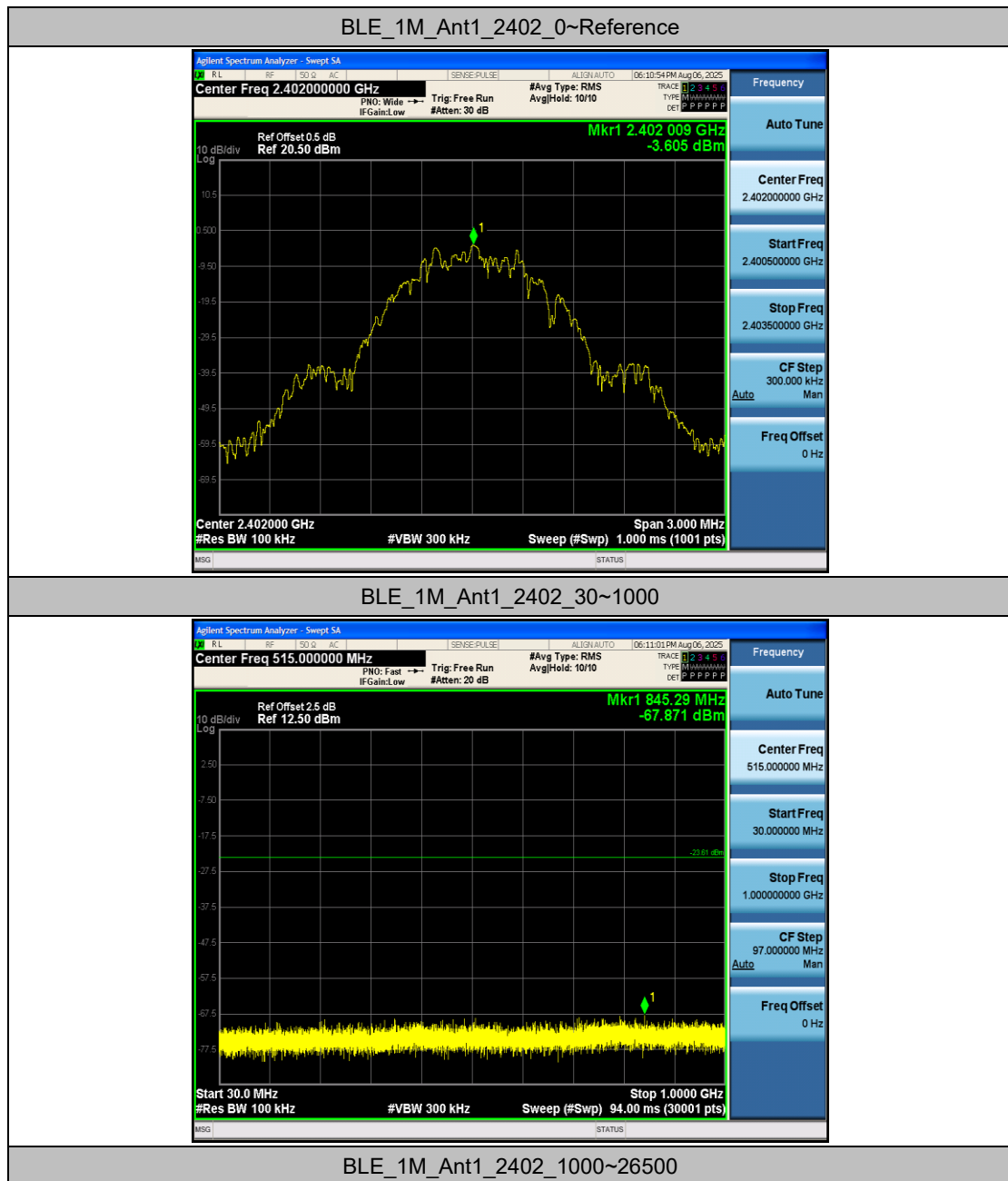


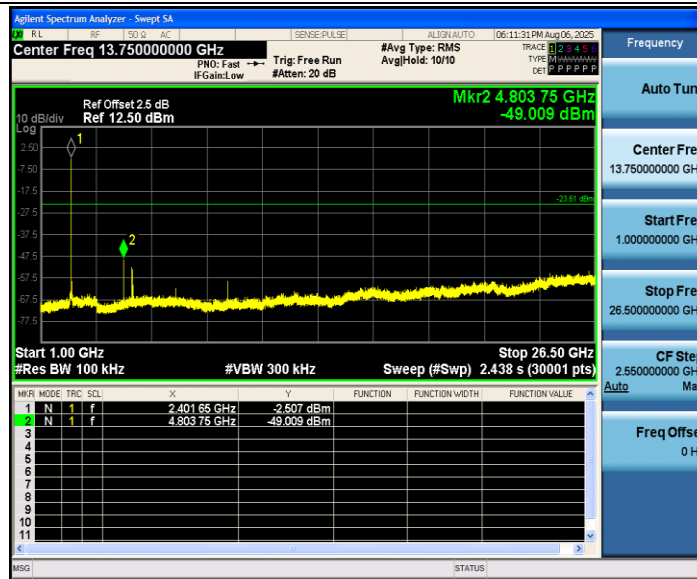
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-3.61	-3.61	---	PASS
			30~1000	-3.61	-67.87	≤-23.61	PASS
			1000~26500	-3.61	-49.01	≤-23.61	PASS
		2440	Reference	-5.40	-5.40	---	PASS
			30~1000	-5.40	-65.58	≤-25.4	PASS
			1000~26500	-5.40	-47.87	≤-25.4	PASS
		2480	Reference	-5.21	-5.21	---	PASS
			30~1000	-5.21	-67.9	≤-25.21	PASS
			1000~26500	-5.21	-50.17	≤-25.21	PASS

Test Graphs

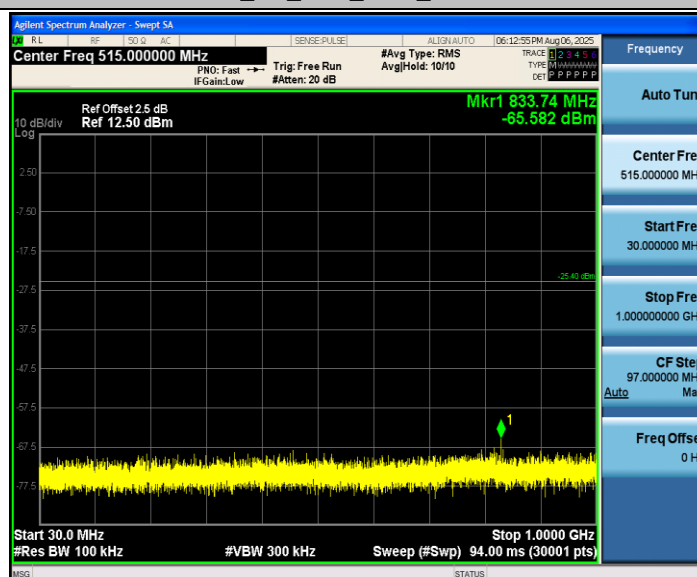




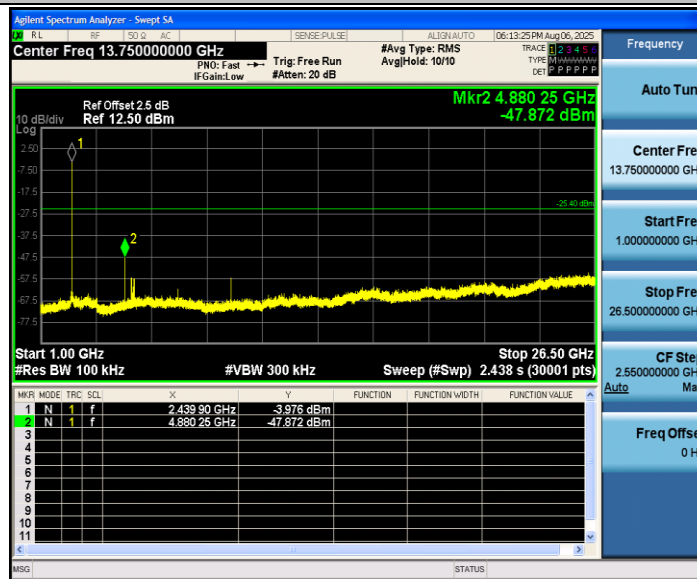
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



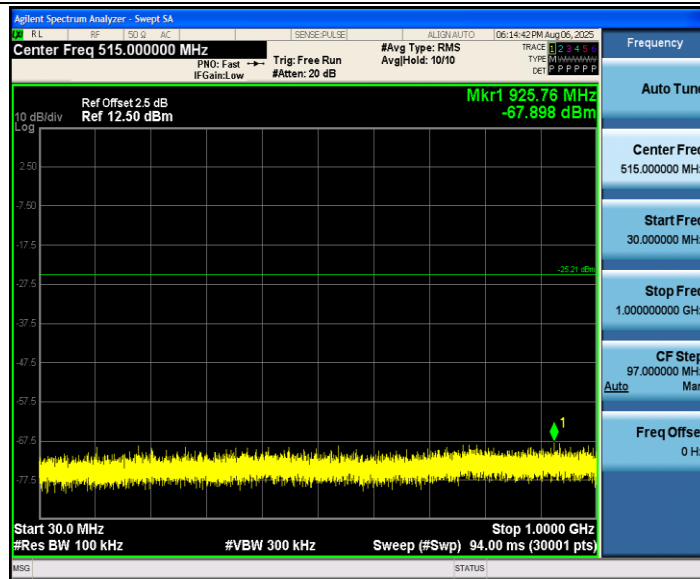
BLE_1M_Ant1_2440_1000~26500



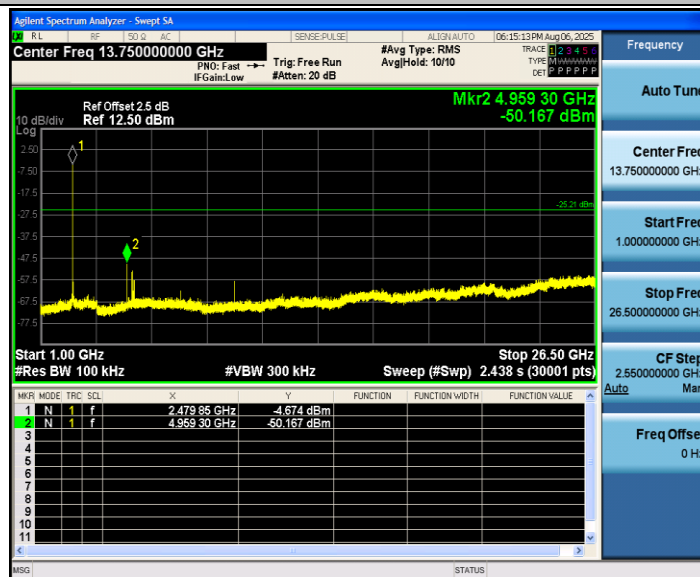
BLE_1M_Ant1_2480_0~Reference



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

