

Appendix RF Test Data for BLE

FCC ID : 2BRT3-LC-CP86

Company : Huizhou LcLink tech Co.,Ltd.

EUT : USB Converter

Model Number : LC-CP86

Report No. : CTA25081200201

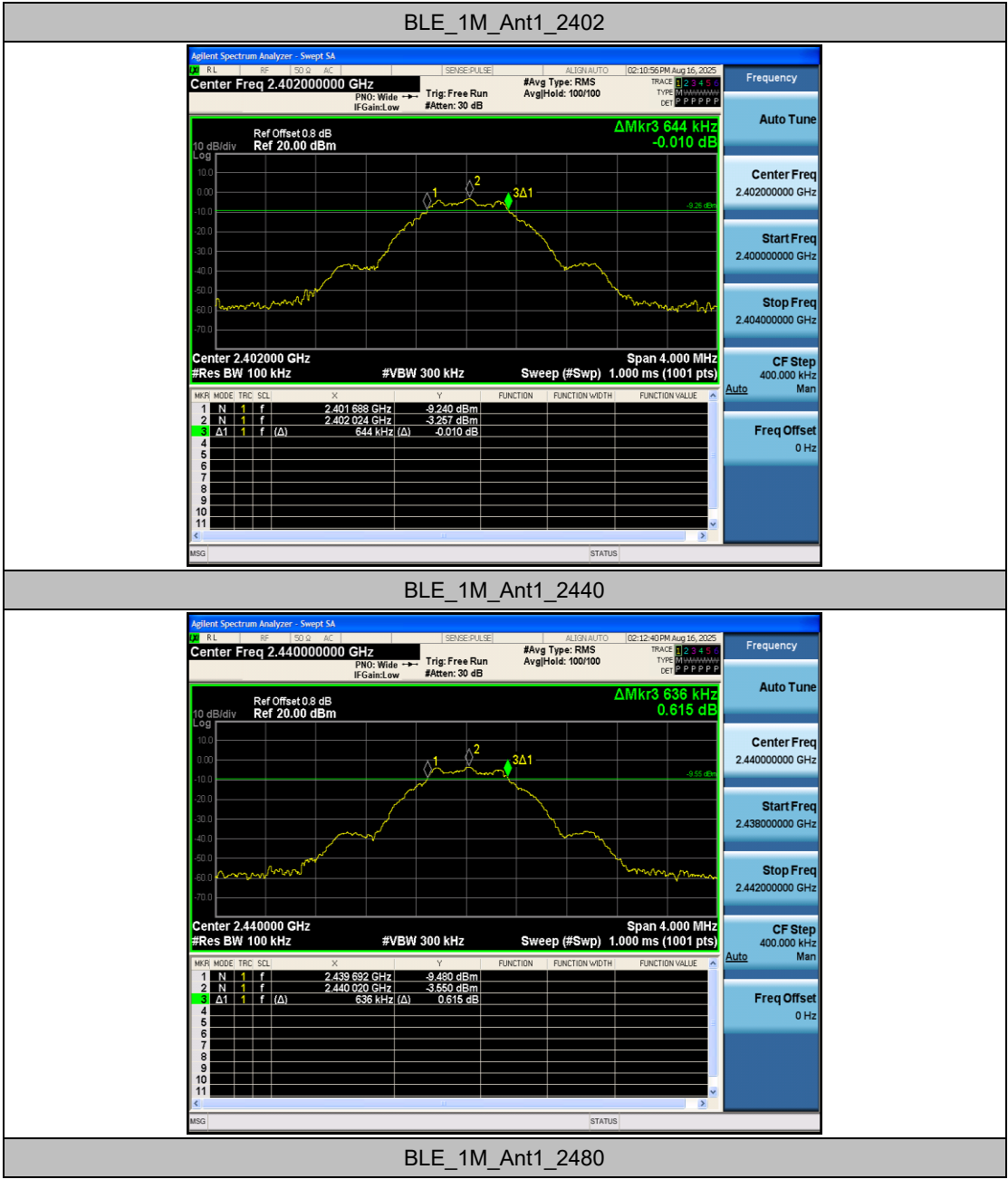
Reviewed By : Eric Wang

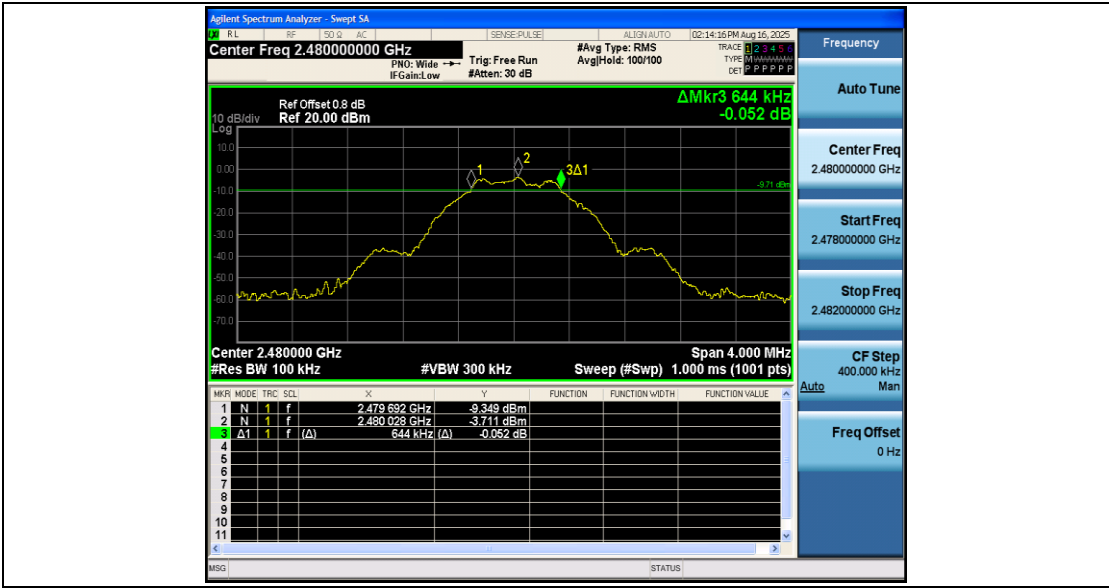
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.644	2401.688	2402.332	0.5	PASS
		2440	0.636	2439.692	2440.328	0.5	PASS
		2480	0.644	2479.692	2480.336	0.5	PASS

Test Graphs



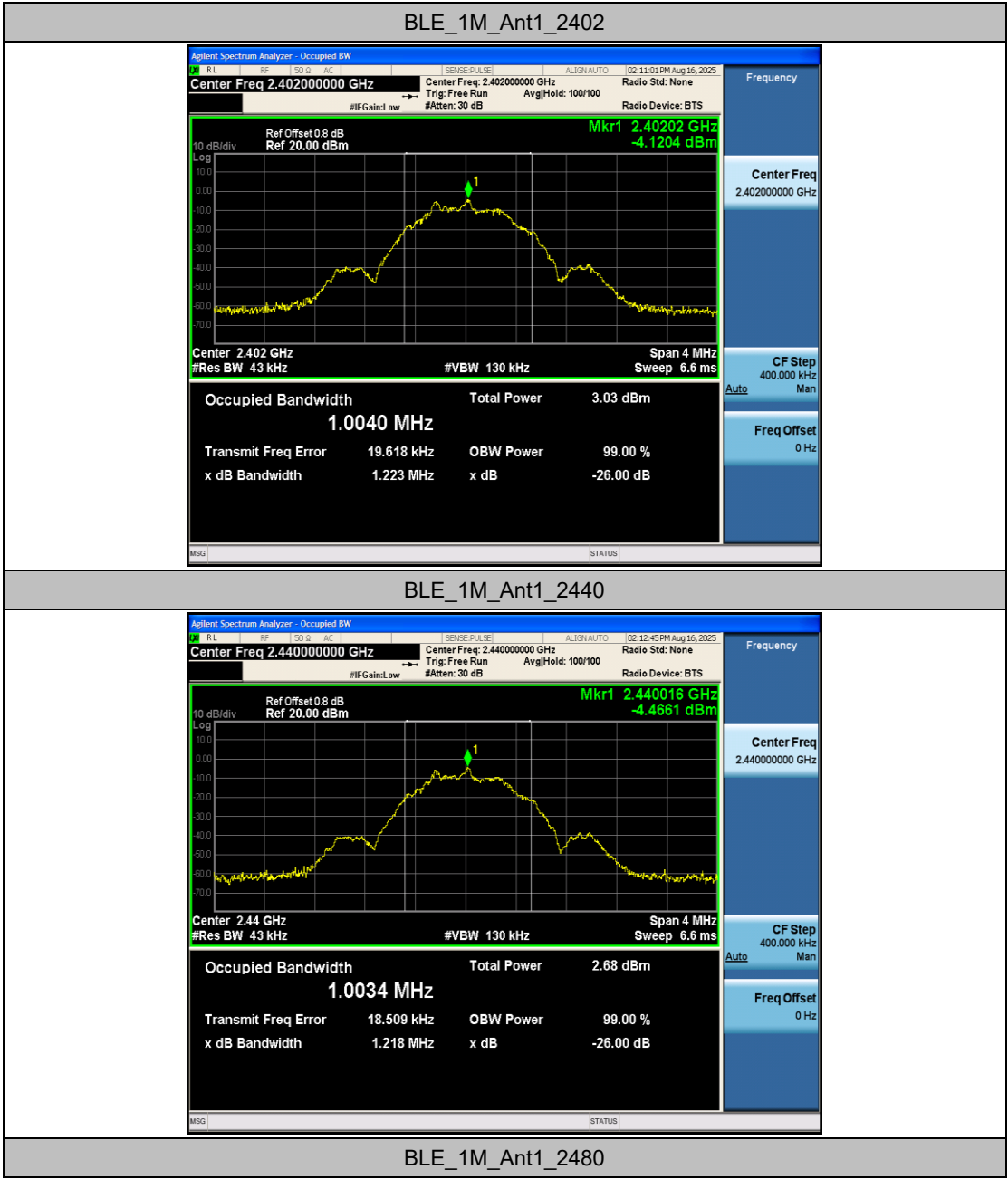


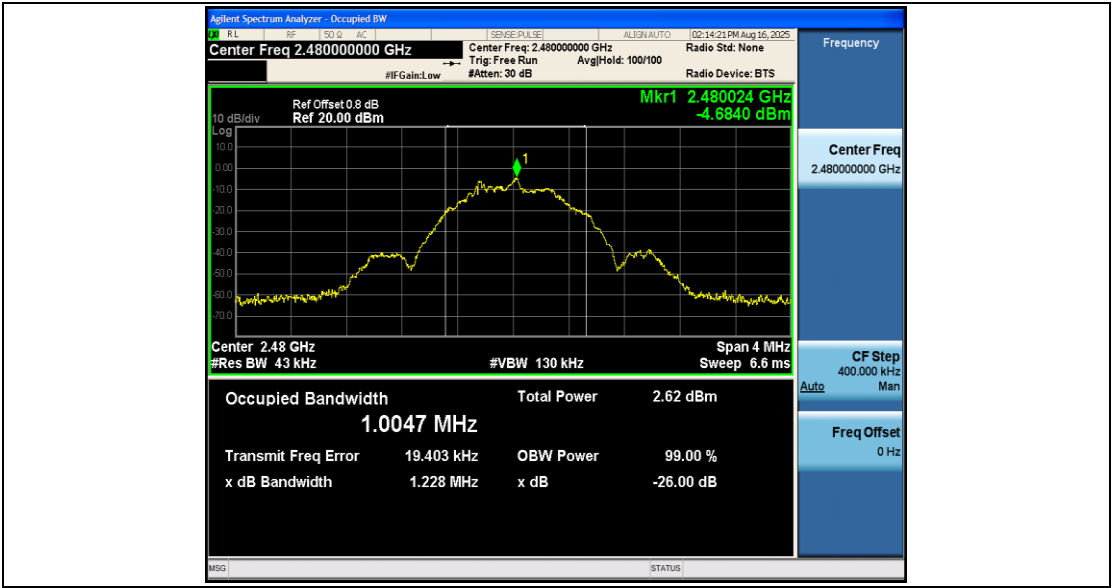
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0040	2401.5176	2402.5216	---	---
		2440	1.0034	2439.5168	2440.5202	---	---
		2480	1.0047	2479.5171	2480.5218	---	---

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	-3.11	≤30	PASS
		2440	-3.43	≤30	PASS
		2480	-3.46	≤30	PASS

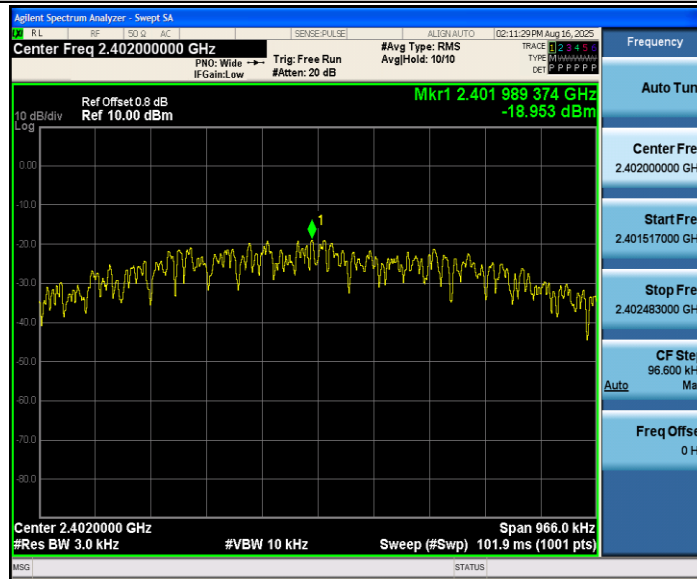
Appendix D: Maximum power spectral density

Test Result

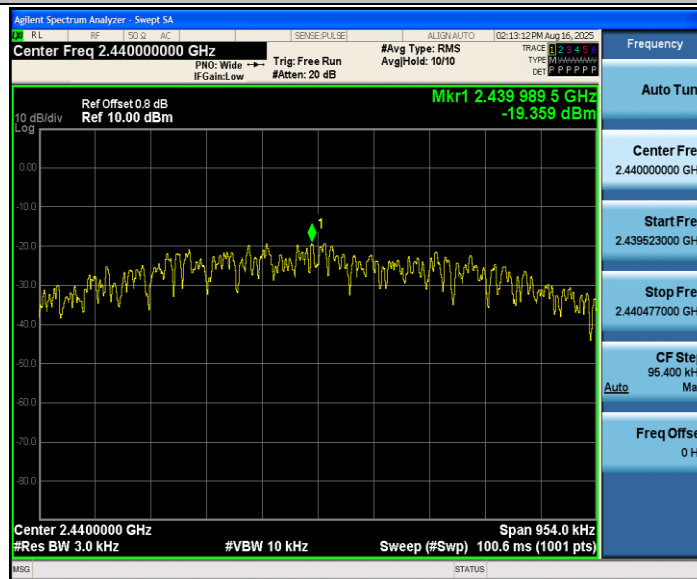
TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-18.95	≤8.00	PASS
		2440	-19.36	≤8.00	PASS
		2480	-19.26	≤8.00	PASS

Test Graphs

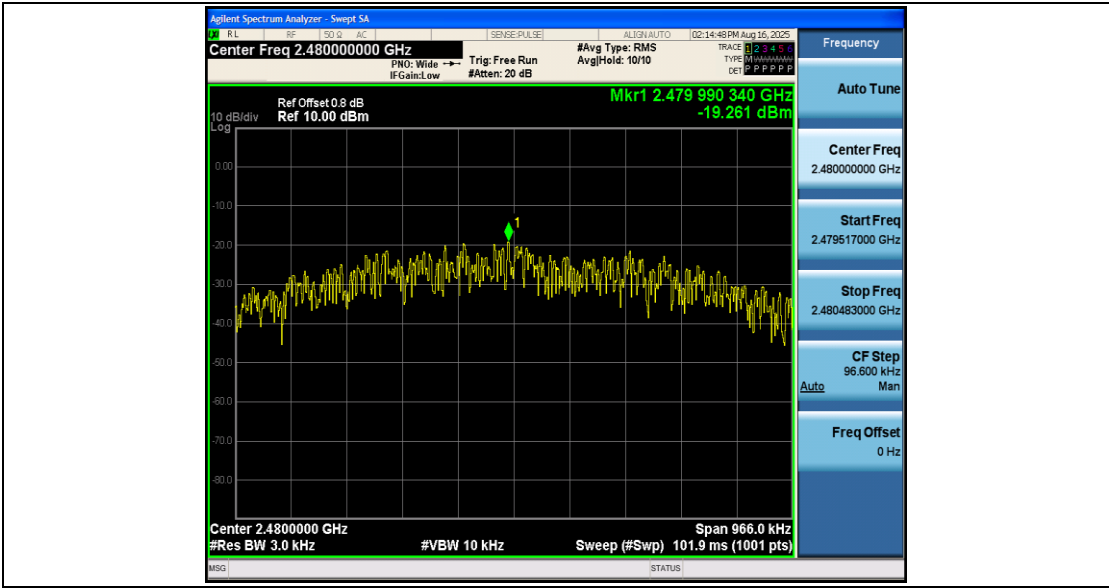
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

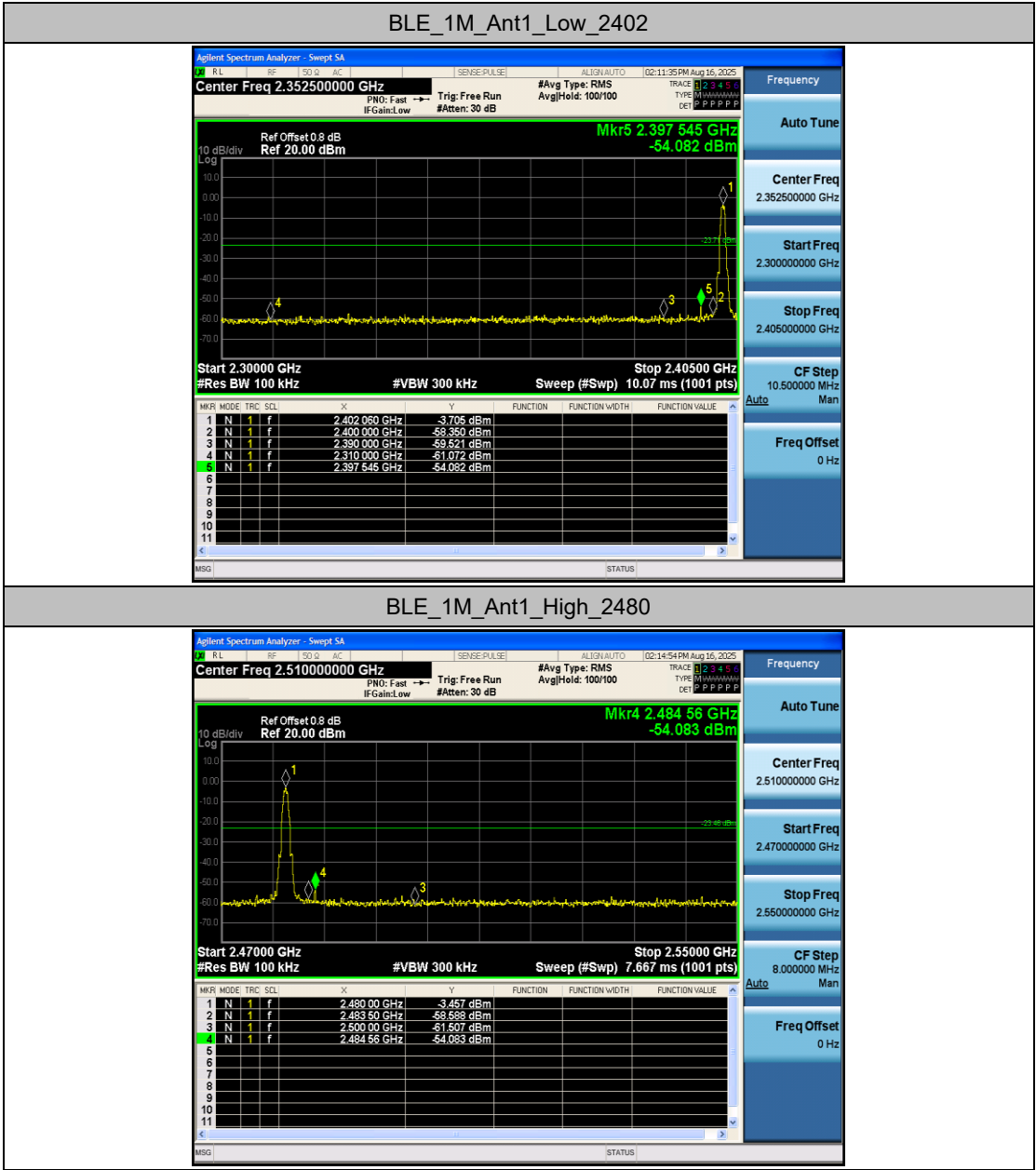


Appendix E: Band edge measurements

Test Result

TestMod e	Antenn a	ChNam e	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
BLE_1M	Ant1	Low	2402	-3.71	-54.08	≤-23.71	PASS
		High	2480	-3.46	-54.08	≤-23.46	PASS

Test Graphs

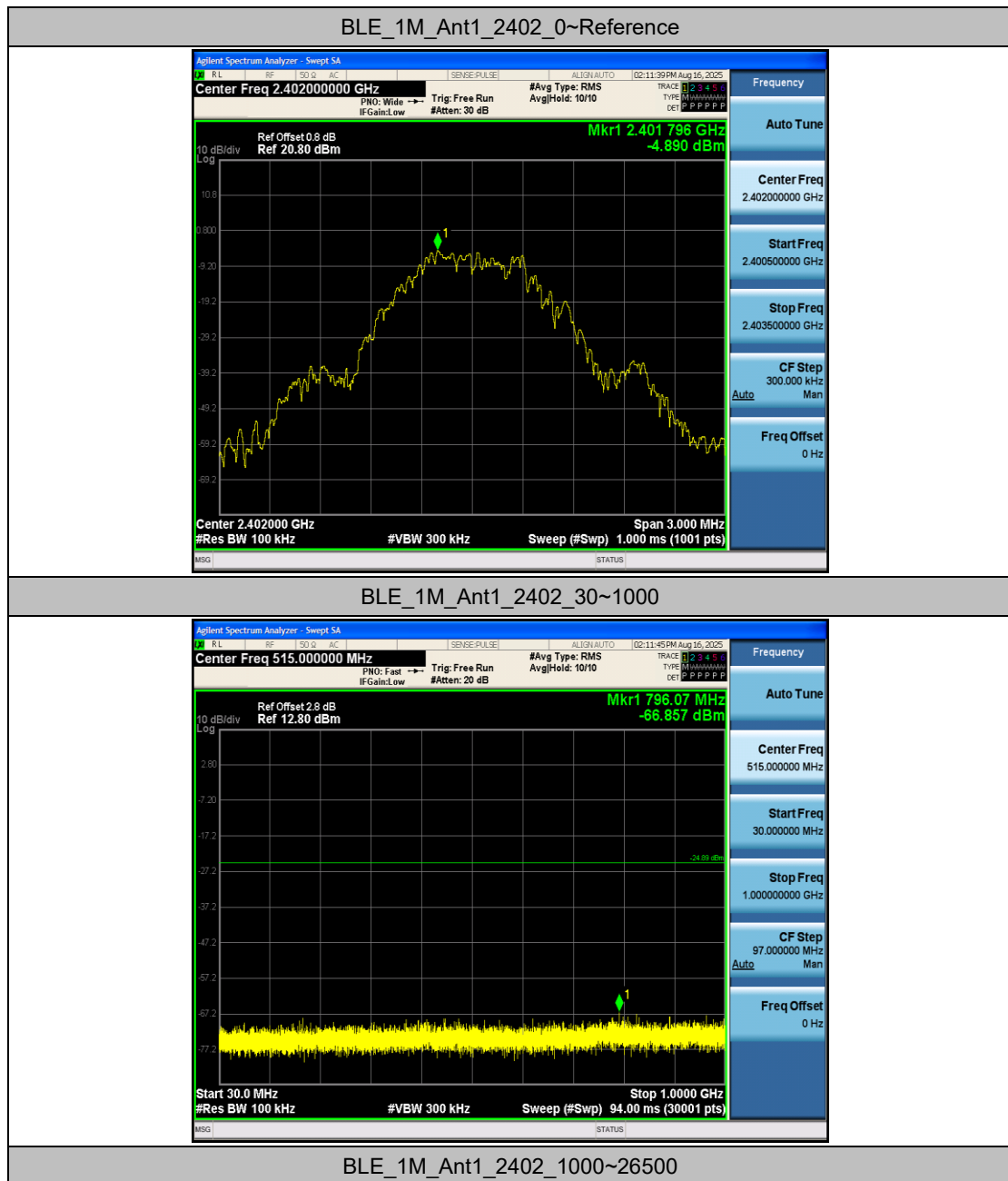


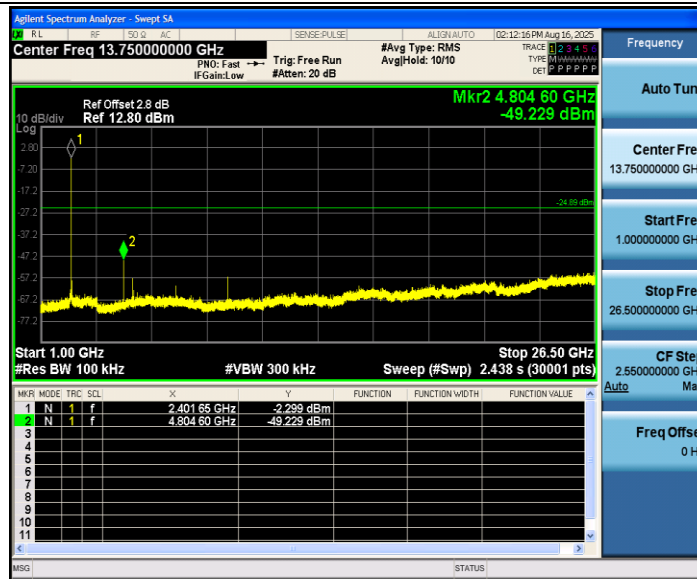
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-4.89	-4.89	---	PASS
			30~1000	-4.89	-66.86	≤-24.89	PASS
			1000~26500	-4.89	-49.23	≤-24.89	PASS
		2440	Reference	-3.91	-3.91	---	PASS
			30~1000	-3.91	-67.08	≤-23.91	PASS
			1000~26500	-3.91	-49.29	≤-23.91	PASS
		2480	Reference	-4.55	-4.55	---	PASS
			30~1000	-4.55	-67.93	≤-24.55	PASS
			1000~26500	-4.55	-46.47	≤-24.55	PASS

Test Graphs

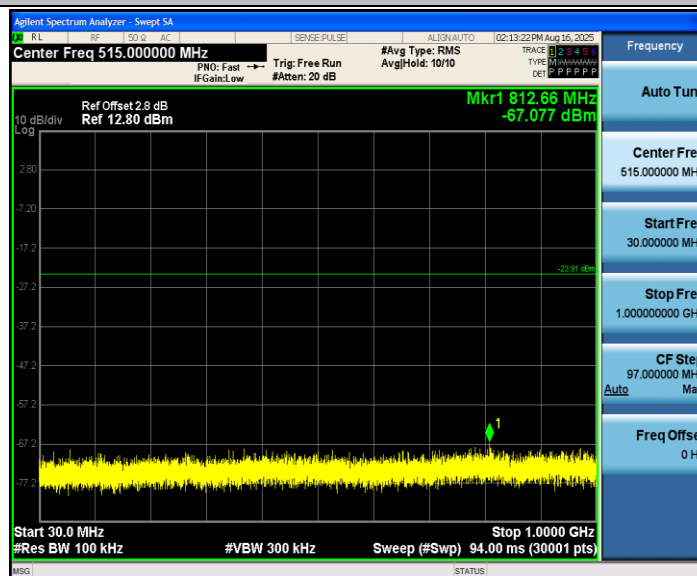




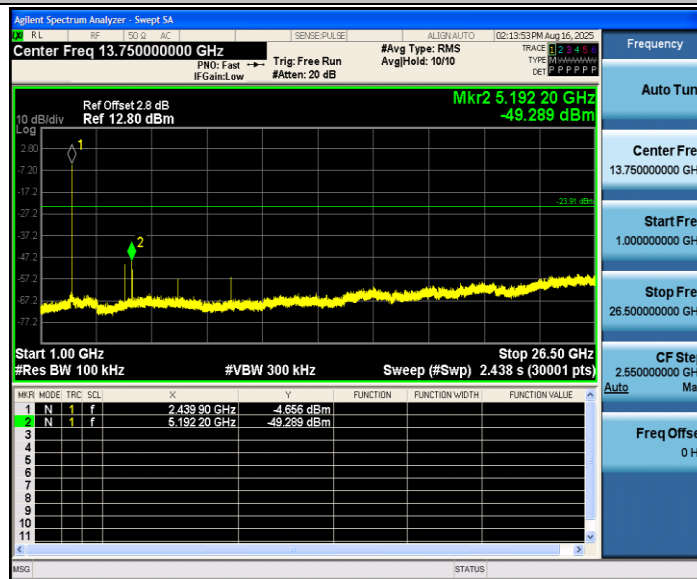
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



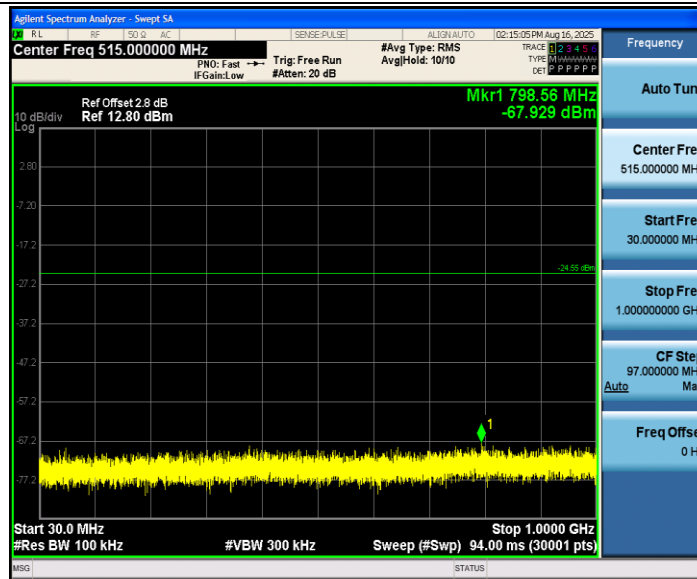
BLE_1M_Ant1_2440_1000~26500



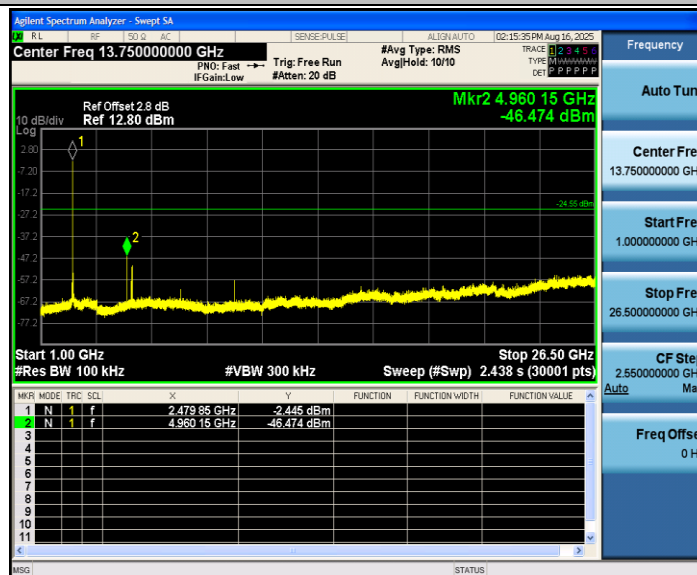
BLE_1M_Ant1_2480_0~Reference



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

