

FCC Appendix RF Test Data

FCC ID : 2BMLQ-M99

Company: : Dongguan Sengeer Electronics Co., Ltd.

EUT : Wireless magnetic speaker

Model Number : M99

Report No. : CTA25051200101

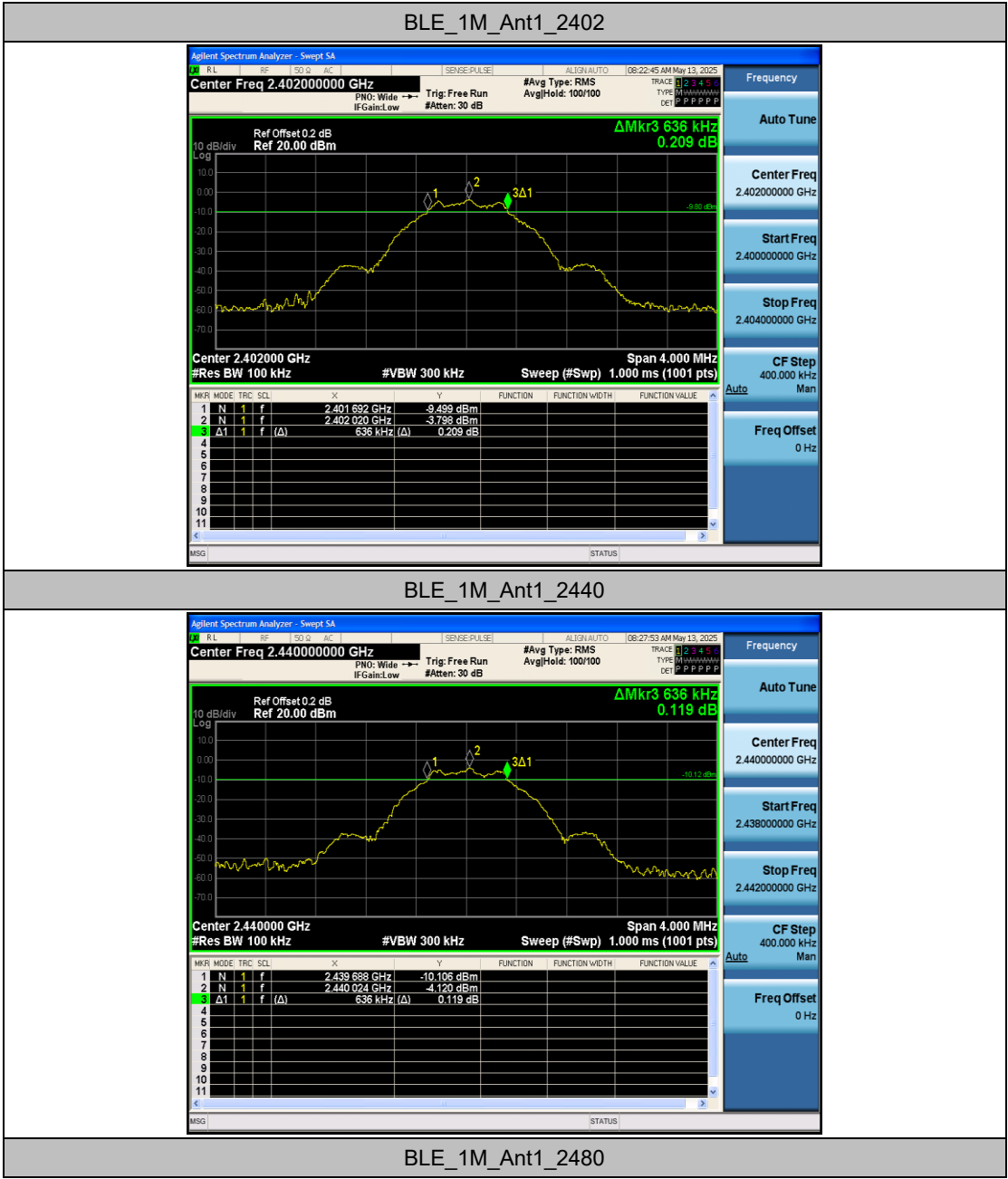
Reviewed By : Eric Wang

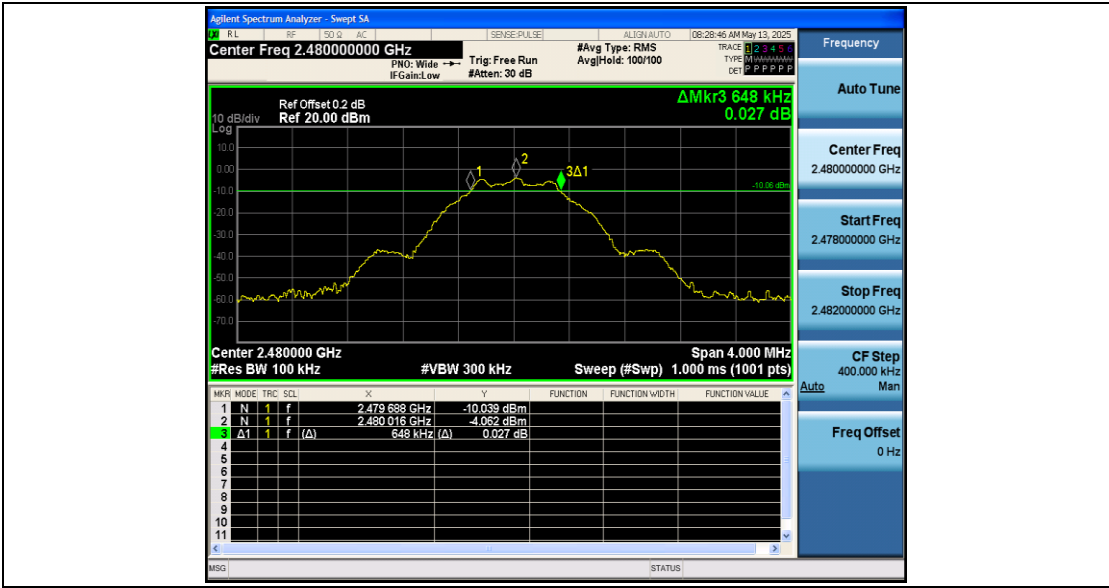
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.636	2401.692	2402.328	0.5	PASS
		2440	0.636	2439.688	2440.324	0.5	PASS
		2480	0.648	2479.688	2480.336	0.5	PASS

Test Graphs



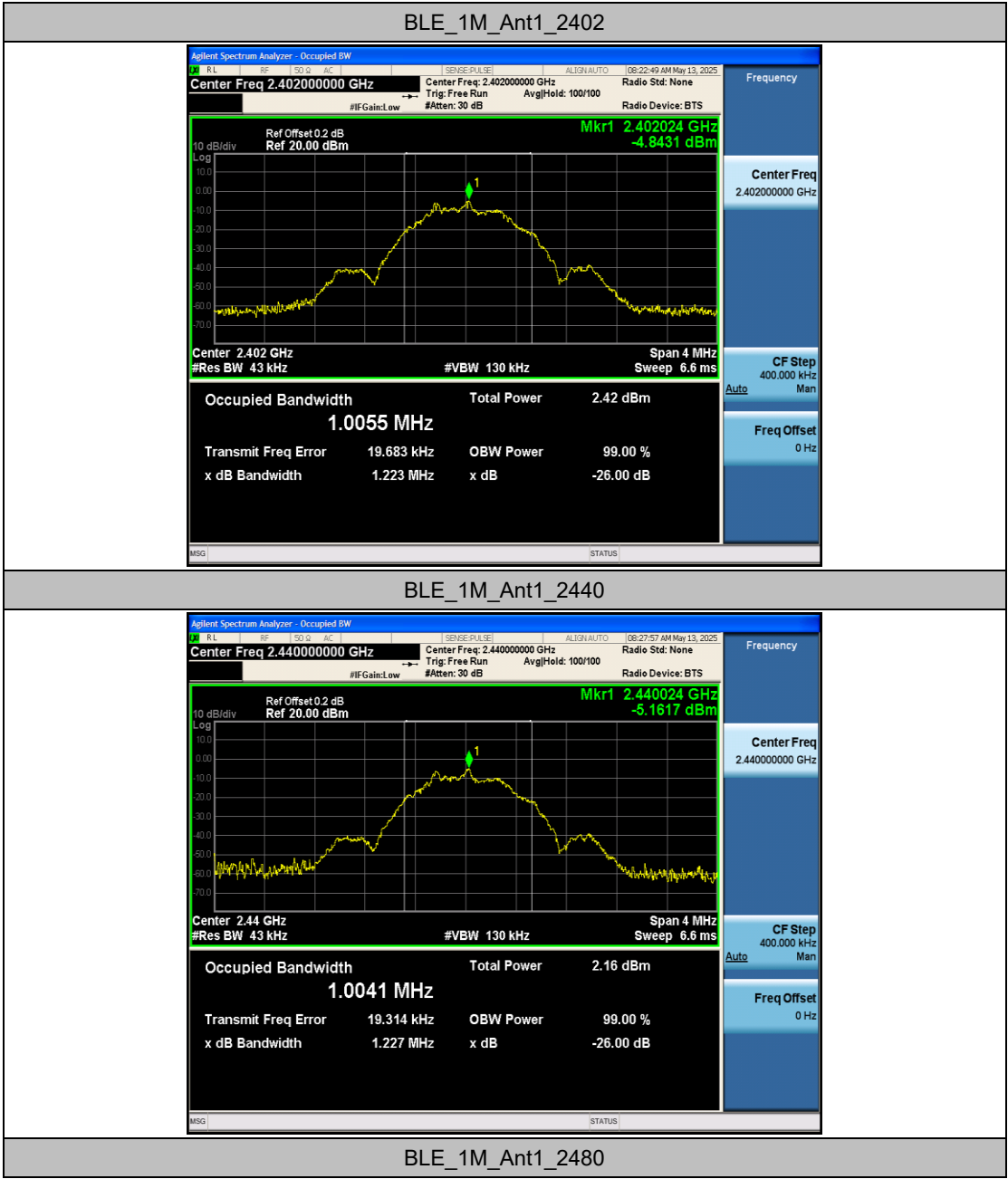


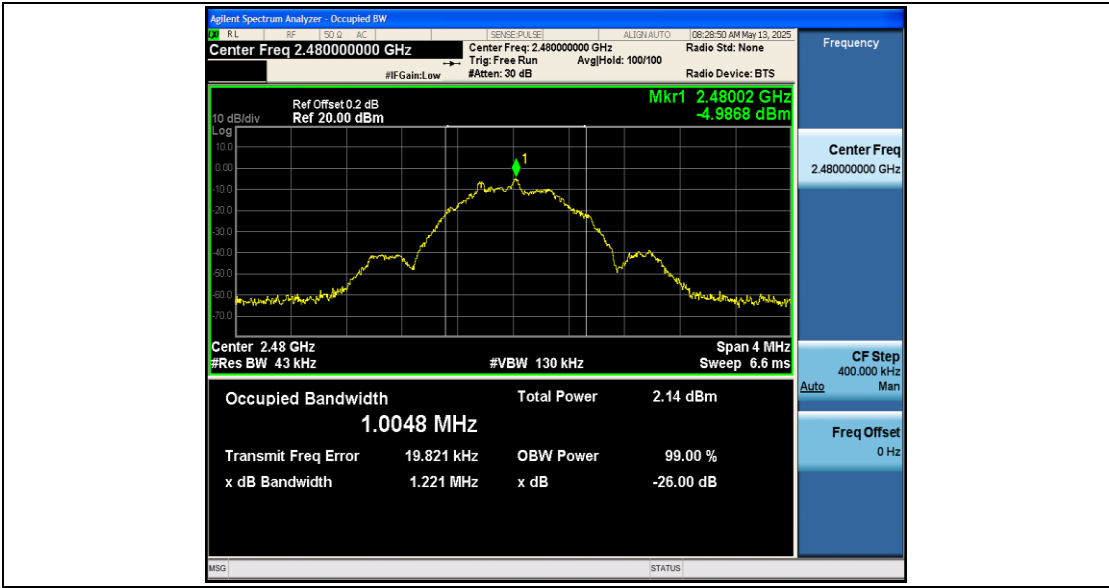
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0055	2401.5169	2402.5224	---	---
		2440	1.0041	2439.5173	2440.5214	---	---
		2480	1.0048	2479.5174	2480.5222	---	---

Test Graphs





Appendix C: Maximum conducted output power

Test Result Peak

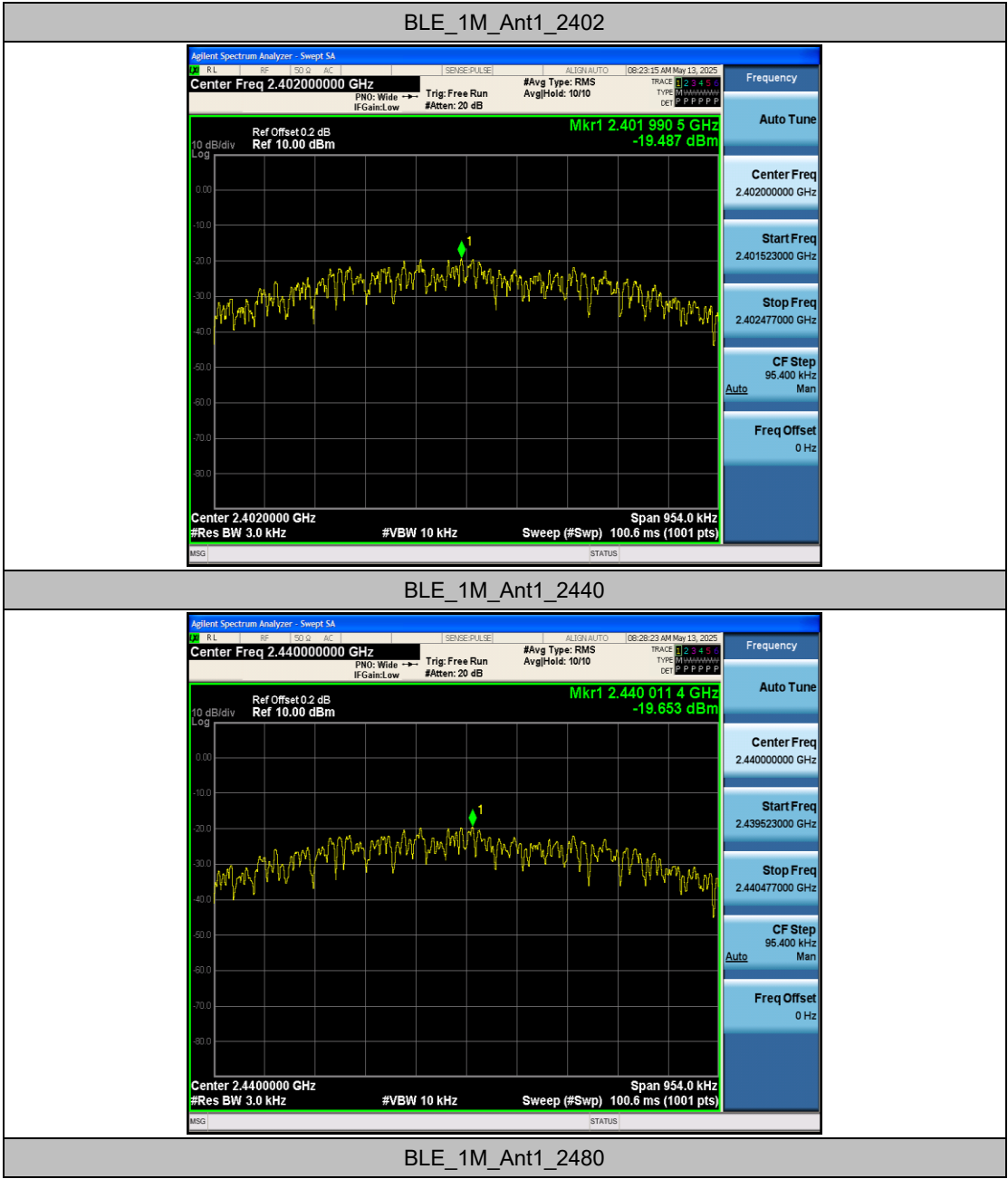
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-3.69	≤30	PASS
		2440	-3.92	≤30	PASS
		2480	-3.94	≤30	PASS

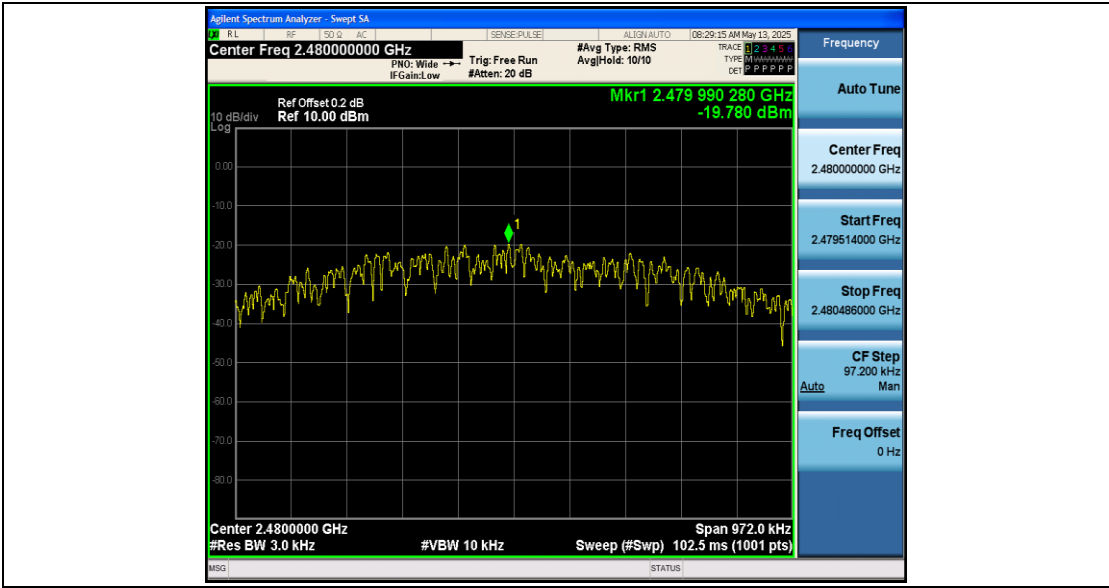
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-19.49	≤8.00	PASS
		2440	-19.65	≤8.00	PASS
		2480	-19.78	≤8.00	PASS

Test Graphs





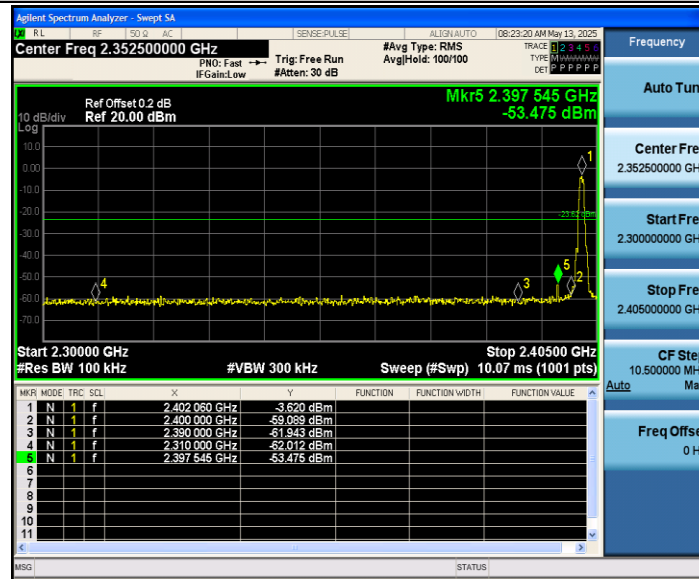
Appendix E: Band edge measurements

Test Result

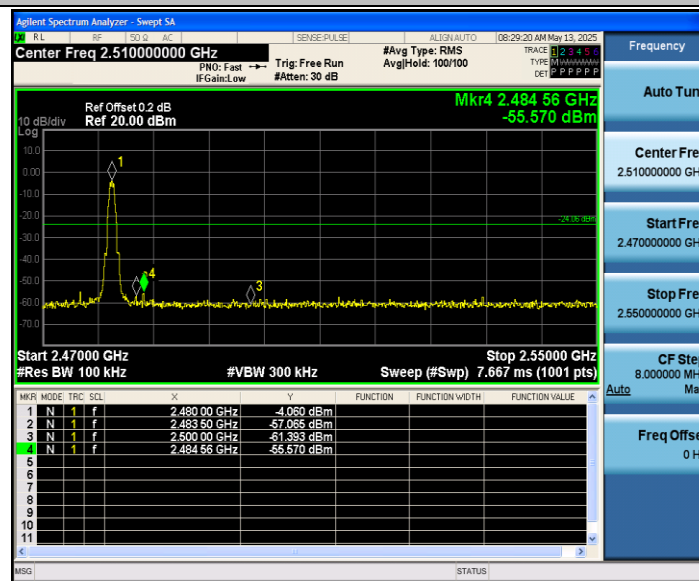
TestMod e	Antenn a	ChNam e	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
BLE_1M	Ant1	Low	2402	-3.62	-53.48	≤-23.62	PASS
		High	2480	-4.06	-55.57	≤-24.06	PASS

Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480

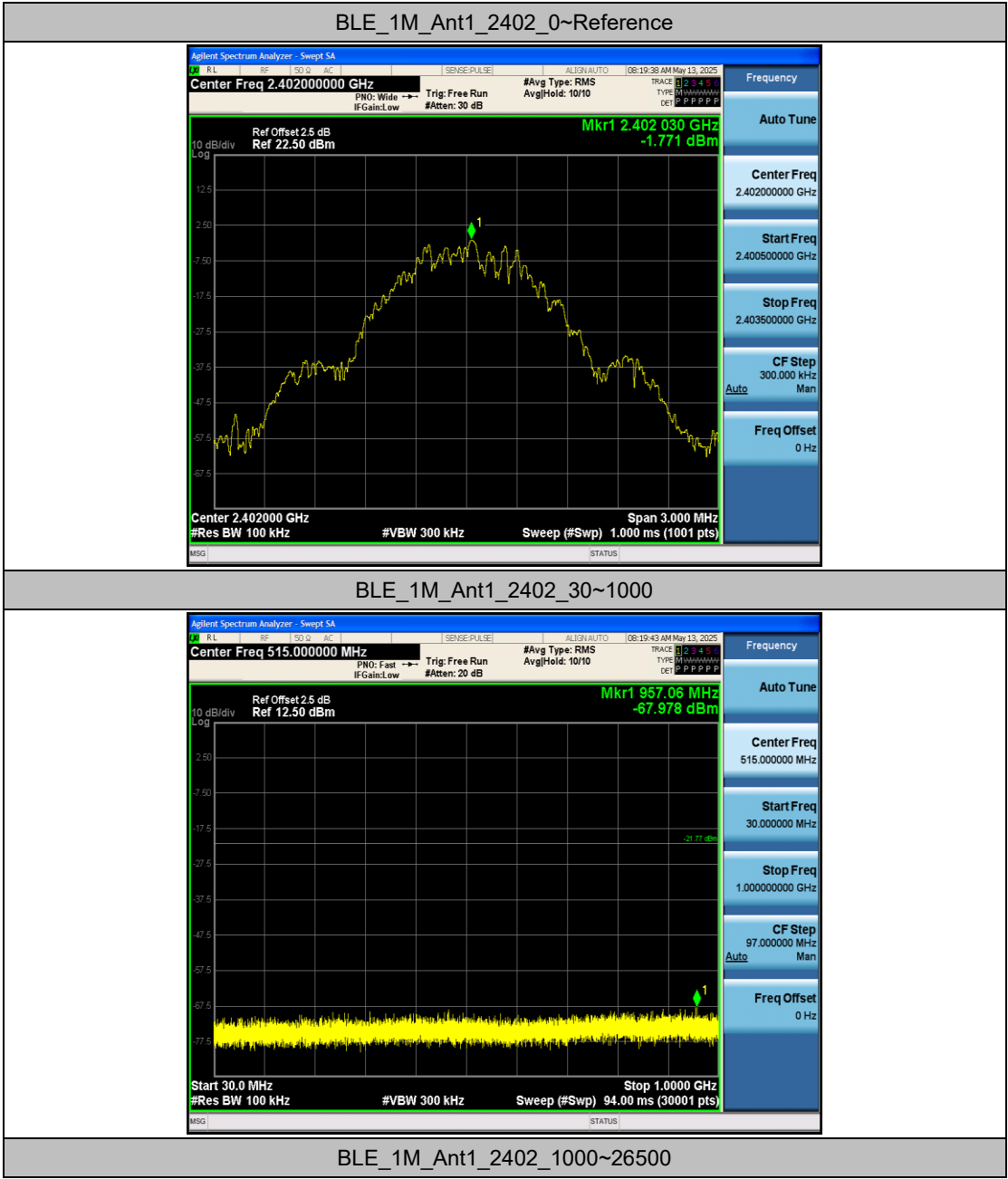


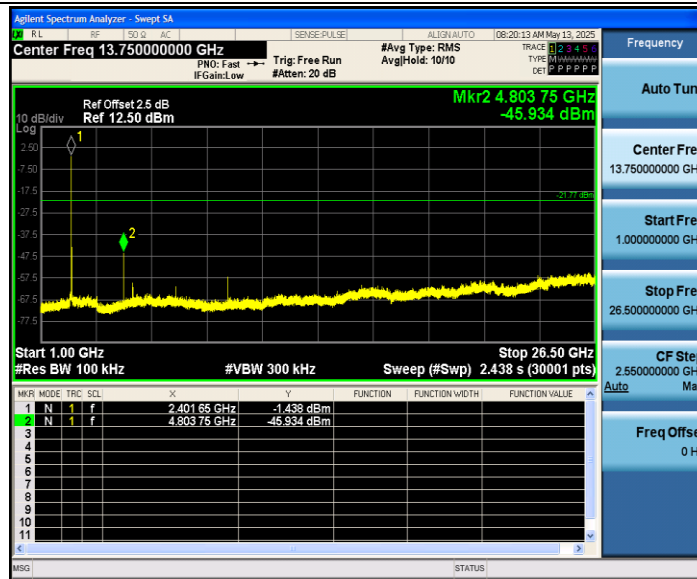
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-1.77	-1.77	---	PASS
			30~1000	-1.77	-67.98	≤-21.77	PASS
			1000~26500	-1.77	-45.93	≤-21.77	PASS
		2440	Reference	-3.88	-3.88	---	PASS
			30~1000	-3.88	-67.96	≤-23.88	PASS
			1000~26500	-3.88	-47.88	≤-23.88	PASS
		2480	Reference	-1.95	-1.95	---	PASS
			30~1000	-1.95	-68.1	≤-21.95	PASS
			1000~26500	-1.95	-47.45	≤-21.95	PASS

Test Graphs

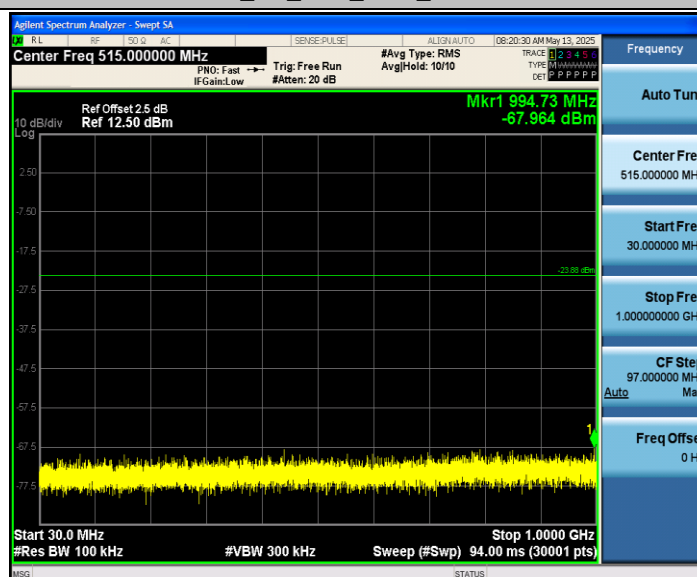




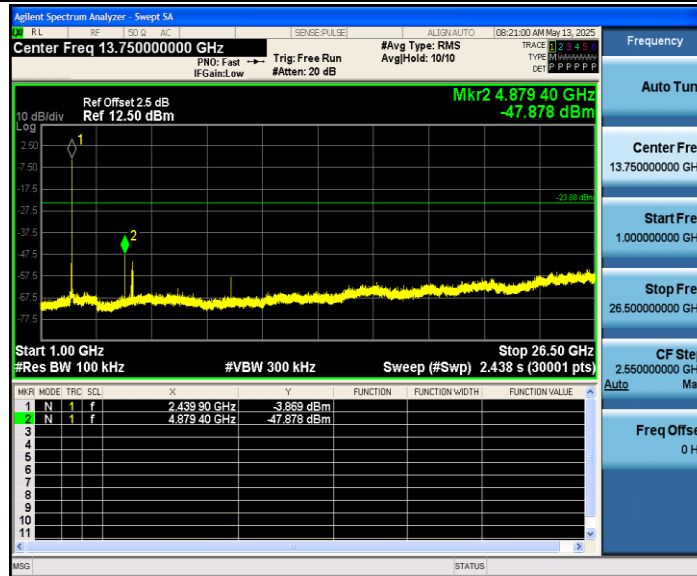
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



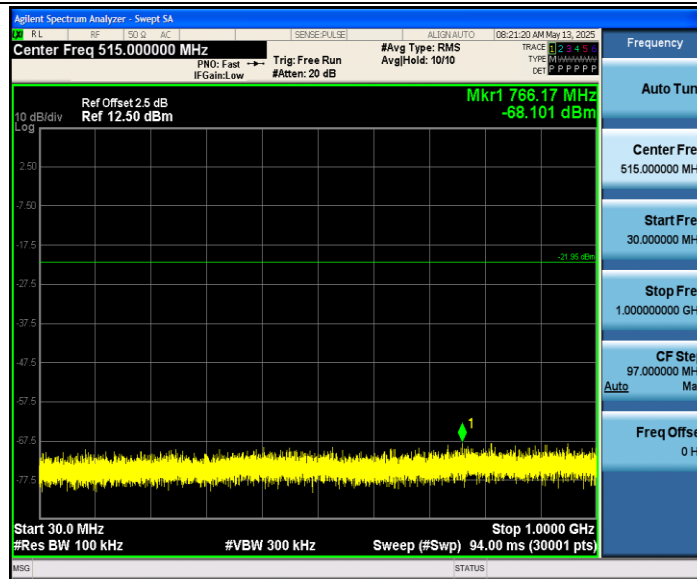
BLE_1M_Ant1_2440_1000~26500



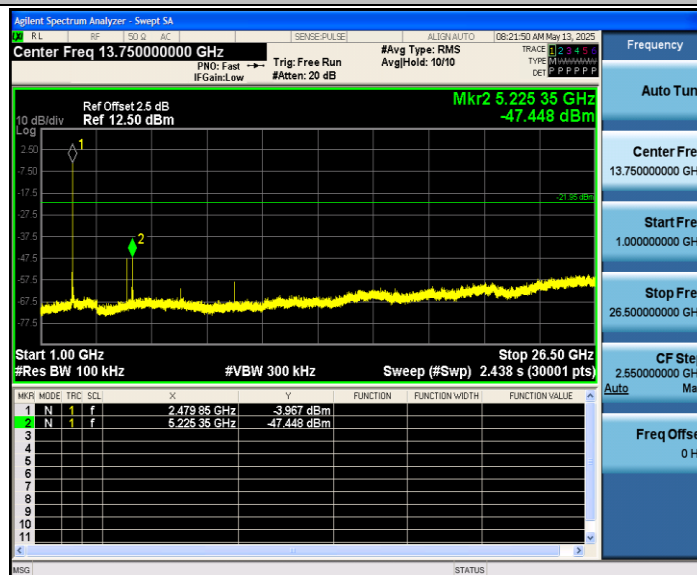
BLE_1M_Ant1_2480_0~Reference



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

