

FCC Appendix RF Test Data for BLE

FCC ID : 2AYDA-70A

Company : Guangzhou Tang Mei Environmental Protection Technology Co., Ltd.

EUT : Aroma Diffuser

Model Number : 70A

Report No. : CTA25112400801

Reviewed By : Eric Wang

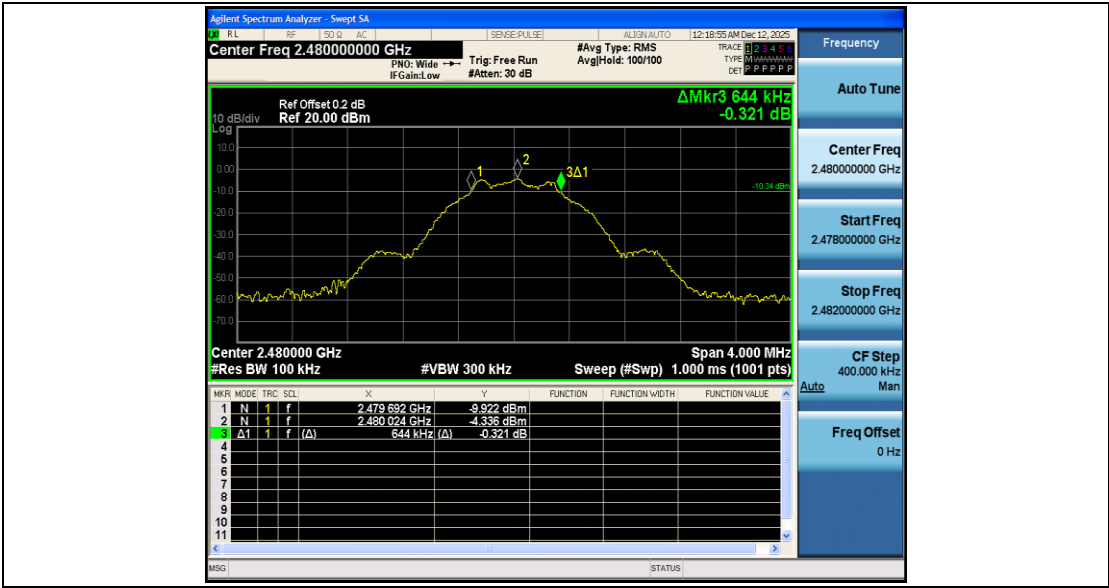
Appendix A: DTS Bandwidth

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	0.644	2439.692	2440.336	0.5	PASS
		2480	0.644	2479.692	2480.336	0.5	PASS

Test Graphs



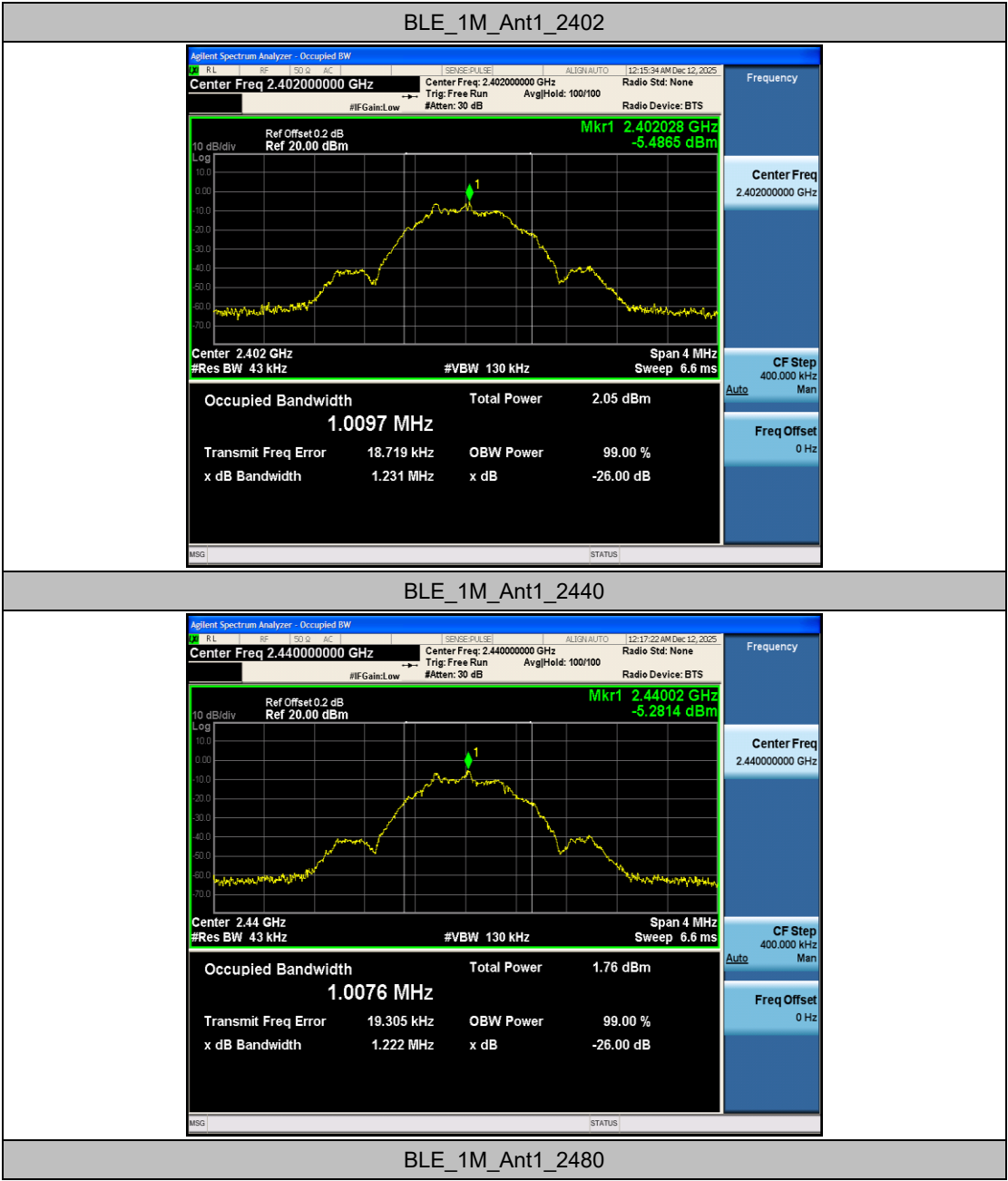


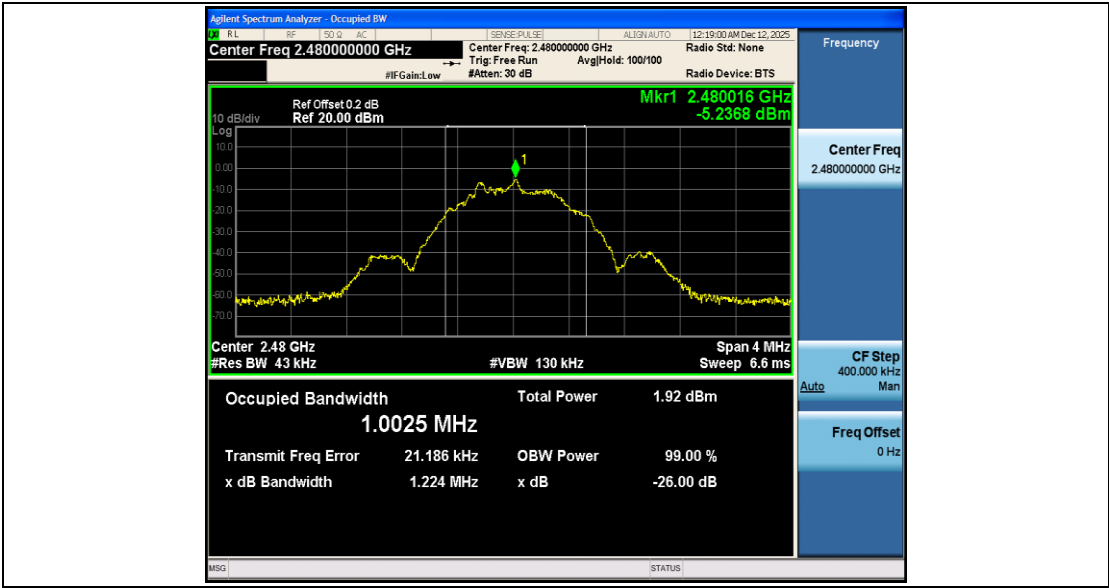
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0097	2401.5139	2402.5236	---	---
		2440	1.0076	2439.5155	2440.5231	---	---
		2480	1.0025	2479.5199	2480.5224	---	---

Test Graphs





Appendix C: Maximum conducted output power

Test Result Peak

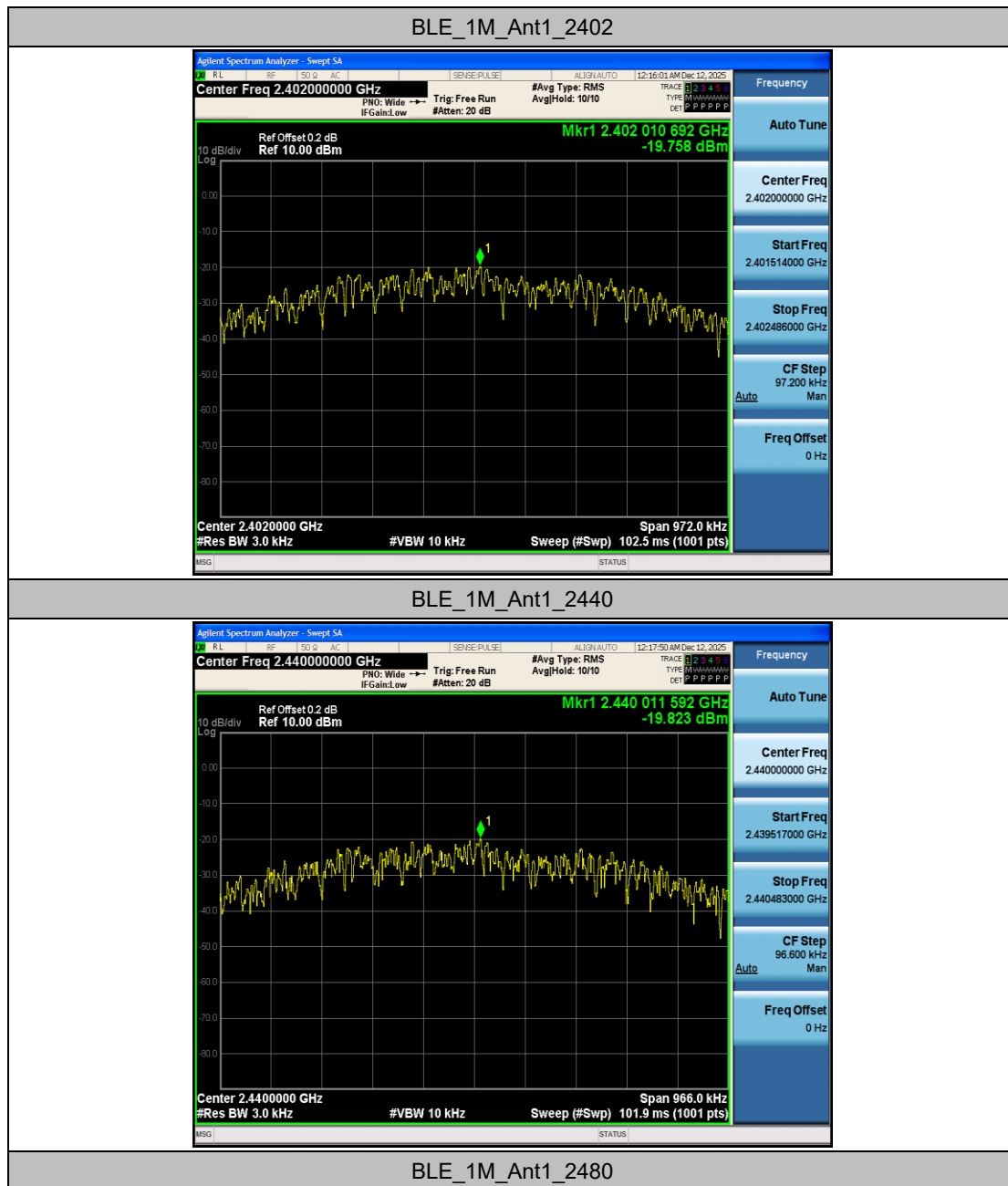
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-3.89	≤30	PASS
		2440	-4.21	≤30	PASS
		2480	-4.19	≤30	PASS

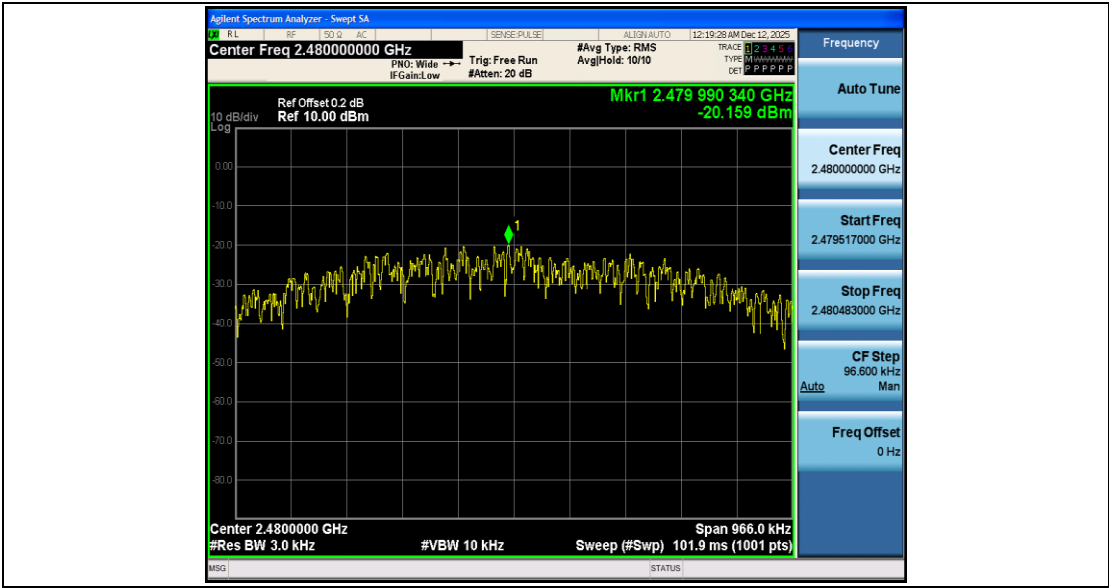
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-19.76	≤8.00	PASS
		2440	-19.82	≤8.00	PASS
		2480	-20.16	≤8.00	PASS

Test Graphs



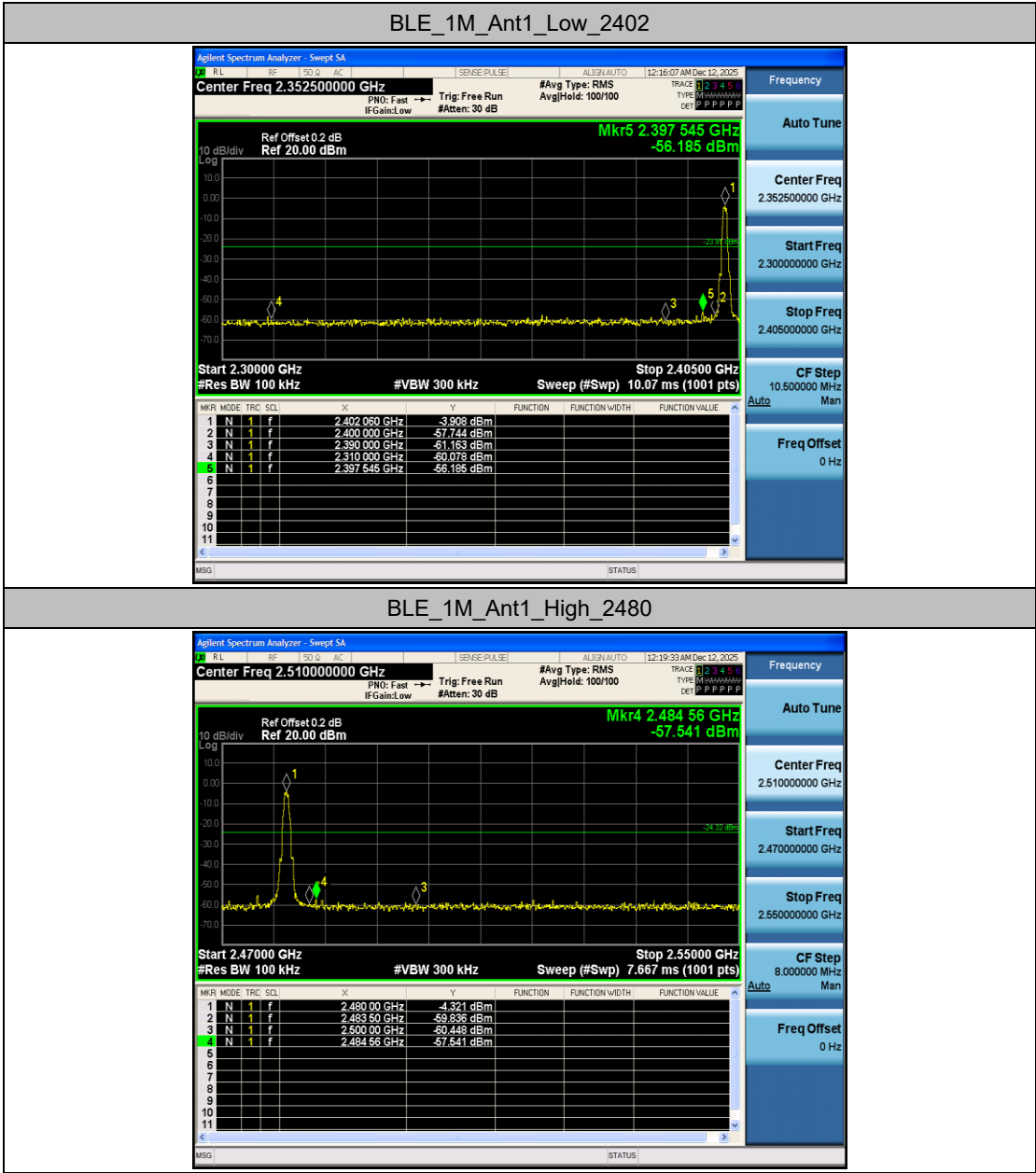


Appendix E: Band edge measurements

Test Result

TestMod e	Antenn a	ChNam e	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
BLE_1M	Ant1	Low	2402	-3.91	-56.19	≤-23.91	PASS
		High	2480	-4.32	-57.54	≤-24.32	PASS

Test Graphs

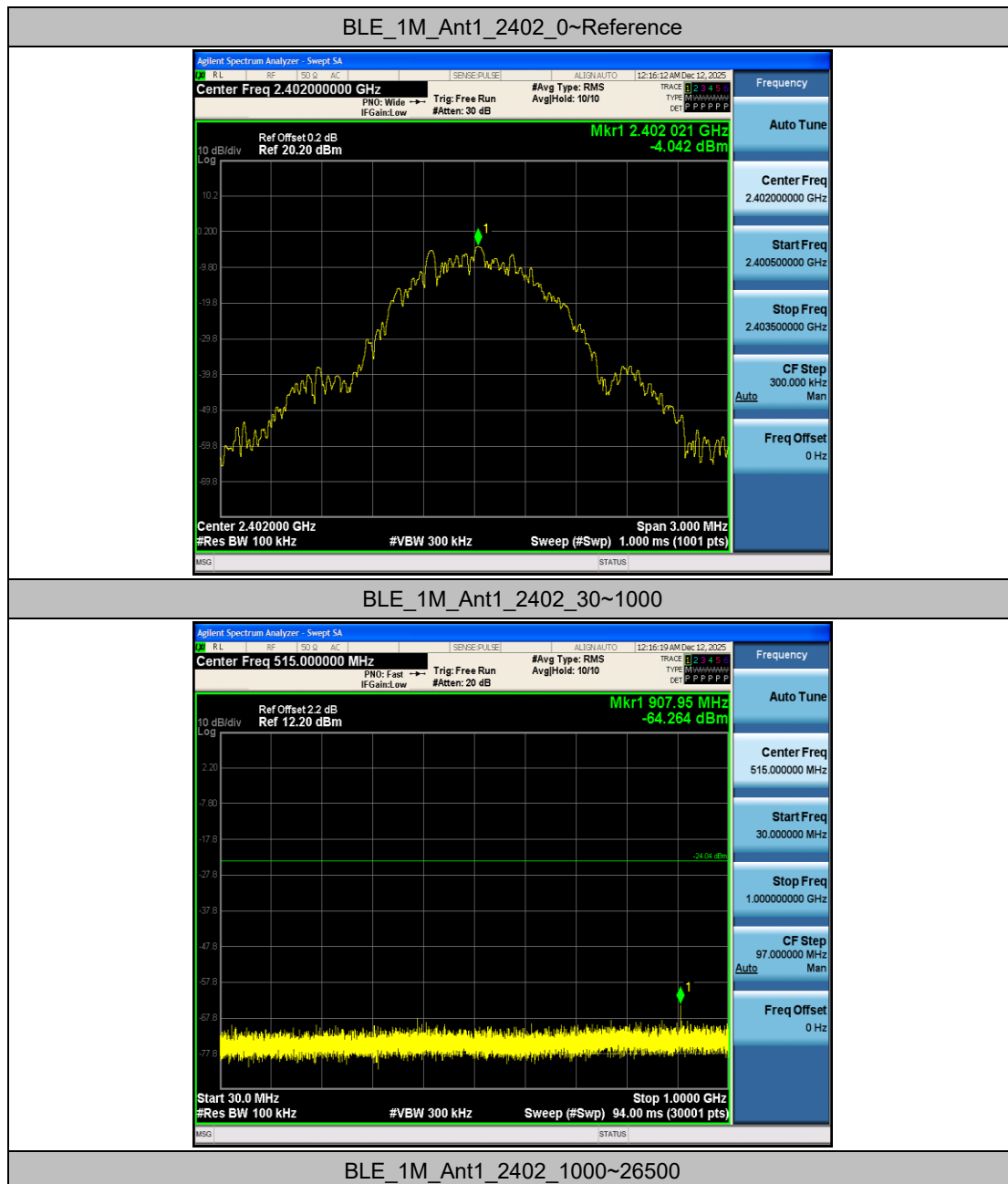


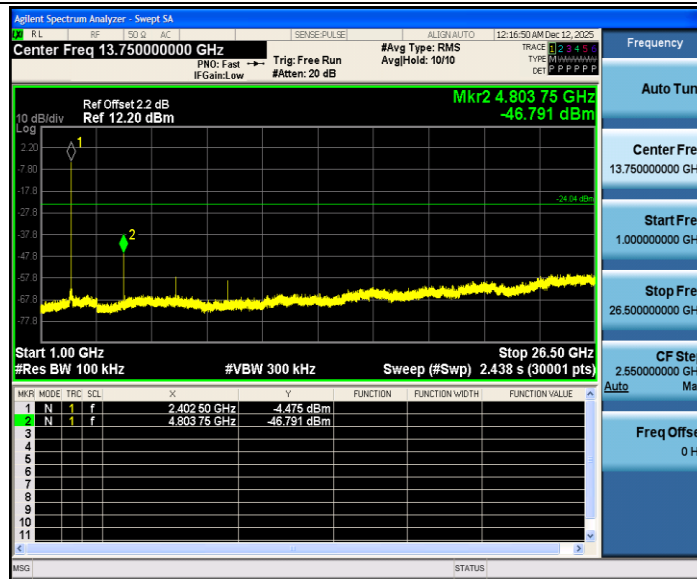
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-4.04	-4.04	---	PASS
			30~1000	-4.04	-64.26	≤-24.04	PASS
			1000~26500	-4.04	-46.79	≤-24.04	PASS
		2440	Reference	-4.73	-4.73	---	PASS
			30~1000	-4.73	-67.66	≤-24.73	PASS
			1000~26500	-4.73	-47.15	≤-24.73	PASS
		2480	Reference	-6.19	-6.19	---	PASS
			30~1000	-6.19	-58.61	≤-26.19	PASS
			1000~26500	-6.19	-48.47	≤-26.19	PASS

Test Graphs

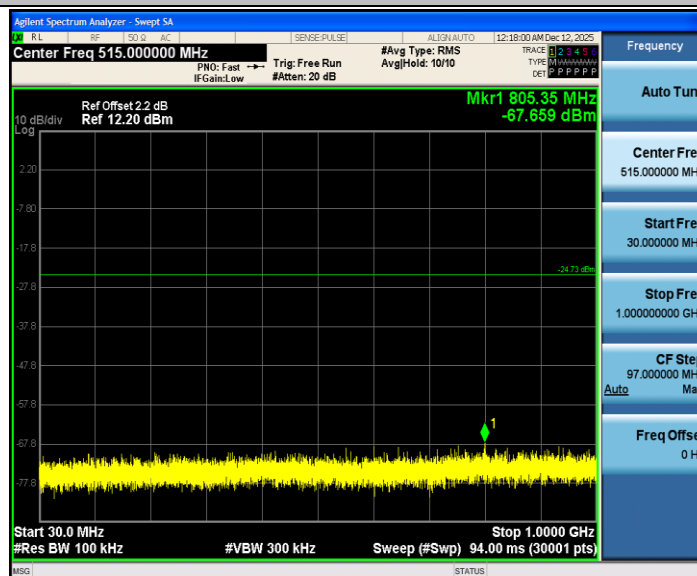




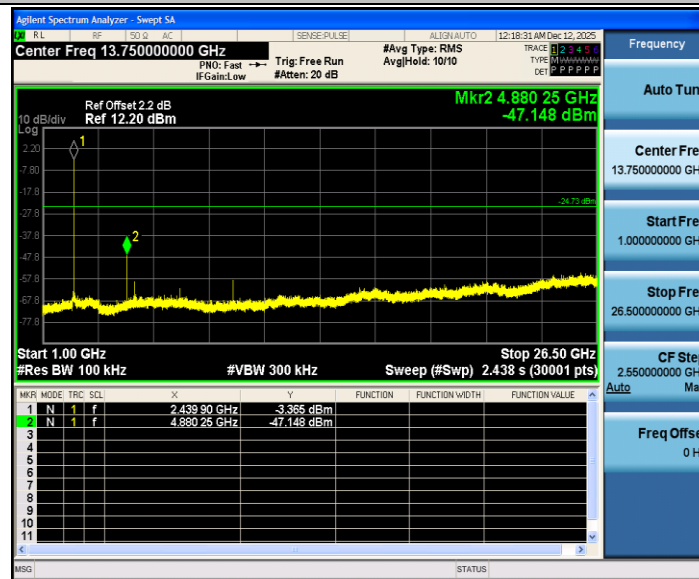
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



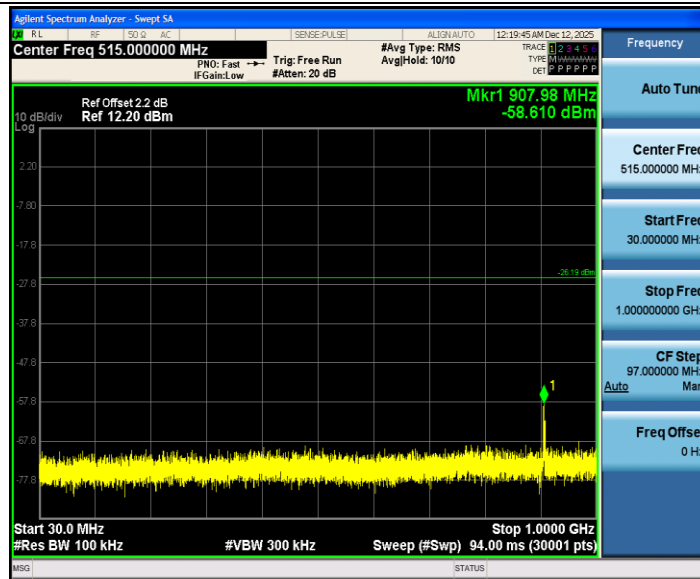
BLE_1M_Ant1_2440_1000~26500



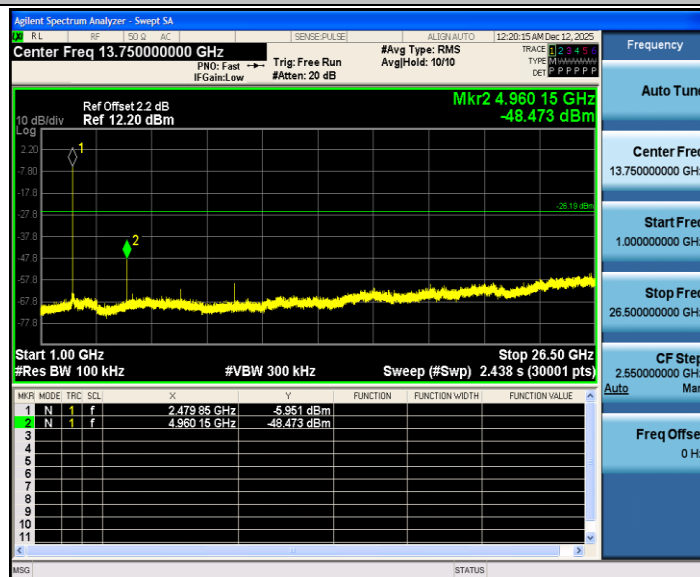
BLE_1M_Ant1_2480_0~Reference



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

