

FCC Appendix RF Test Data

FCC ID : 2BOSR-DDZM-001

Company: : Dongguan Jierui Optoelectronics Technology Co., Ltd.

EUT : WiFi Bluetooth LED strip

Model Number : DDZM-001

Reviewed By : Eric Wang

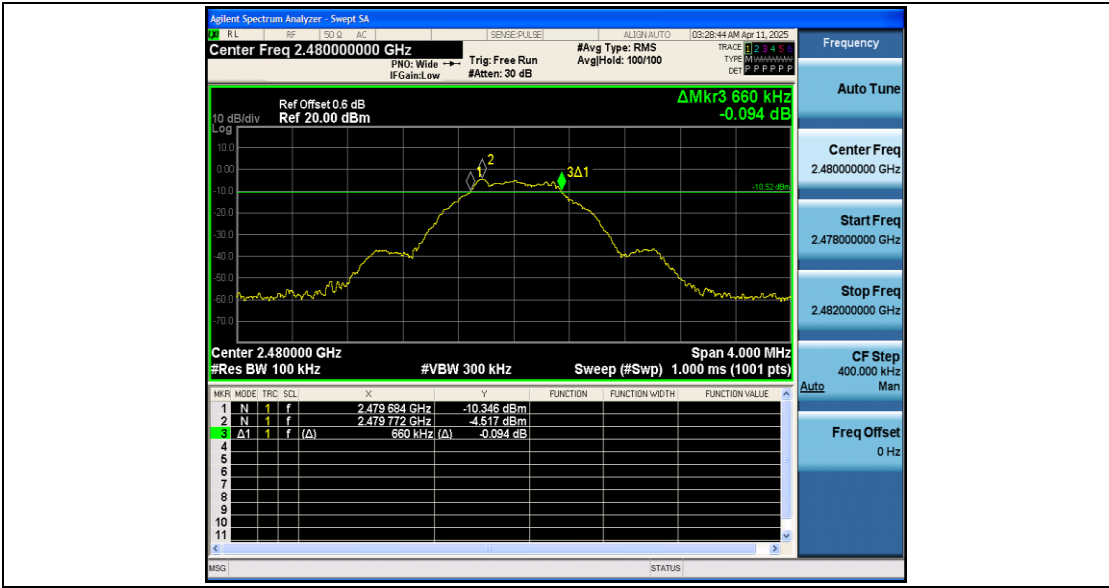
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.648	2401.688	2402.336	0.5	PASS
		2440	0.640	2439.696	2440.336	0.5	PASS
		2480	0.660	2479.684	2480.344	0.5	PASS

Test Graphs





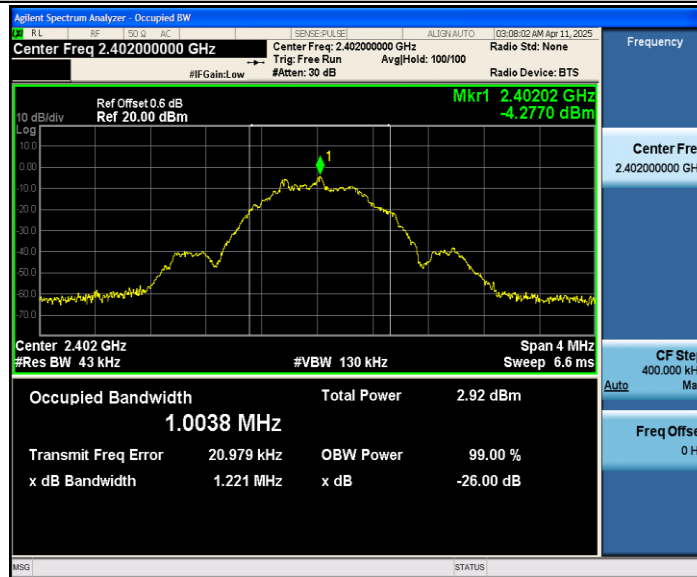
Appendix B: Occupied Channel Bandwidth

Test Result

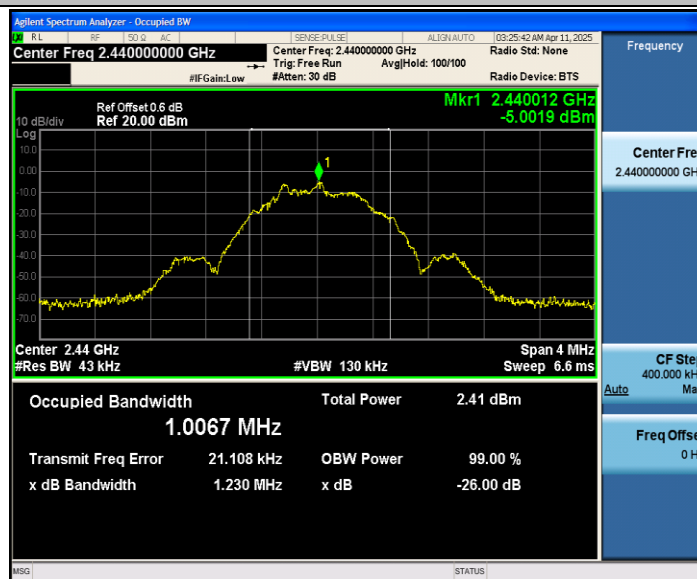
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0038	2401.5191	2402.5229	---	---
		2440	1.0067	2439.5178	2440.5245	---	---
		2480	1.0042	2479.5181	2480.5223	---	---

Test Graphs

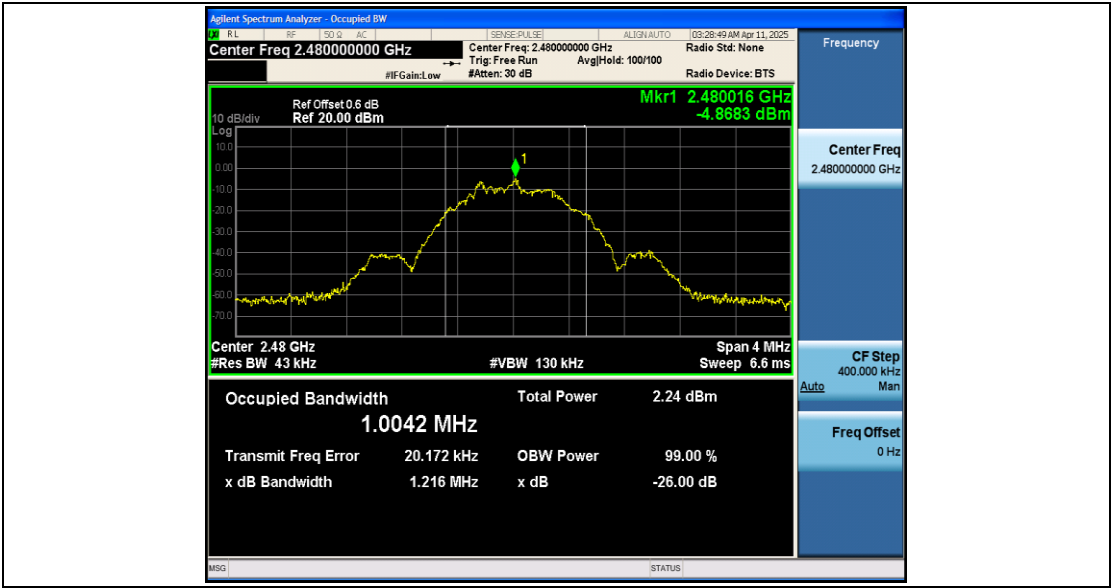
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

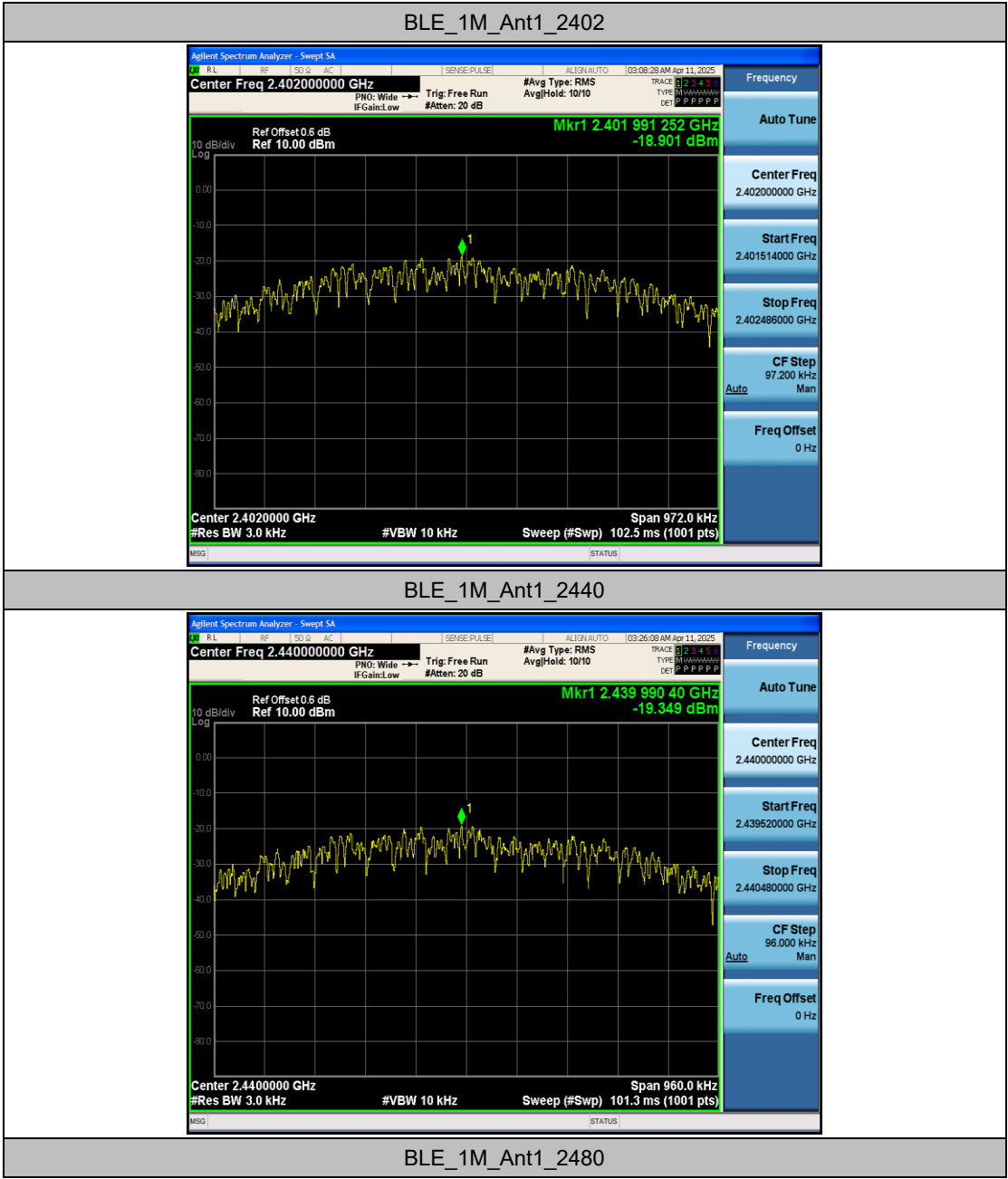
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-3.15	≤30	PASS
		2440	-3.69	≤30	PASS
		2480	-3.82	≤30	PASS

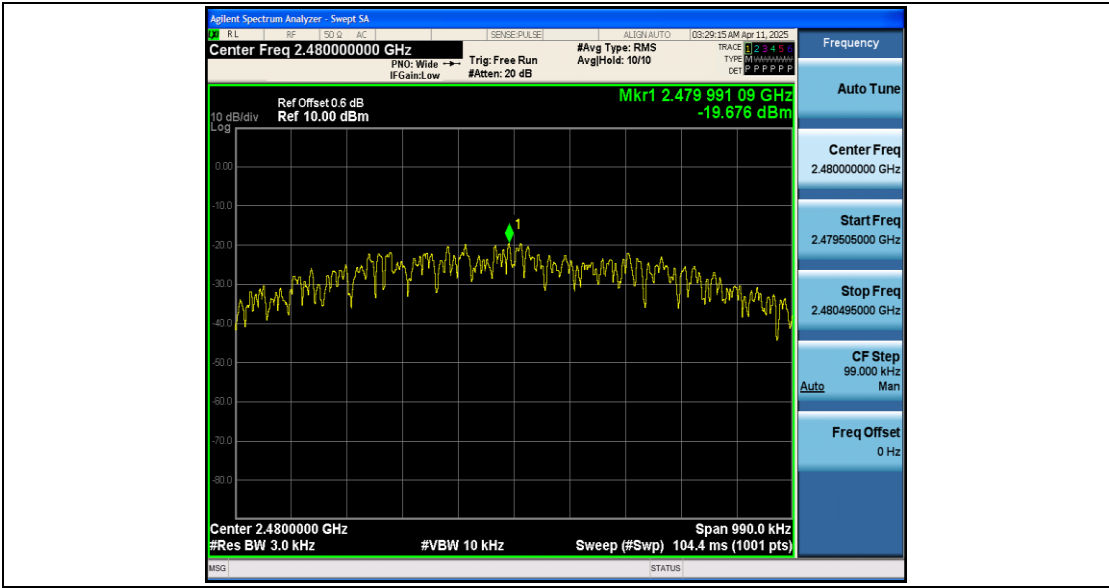
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-18.90	≤8.00	PASS
		2440	-19.35	≤8.00	PASS
		2480	-19.68	≤8.00	PASS

Test Graphs



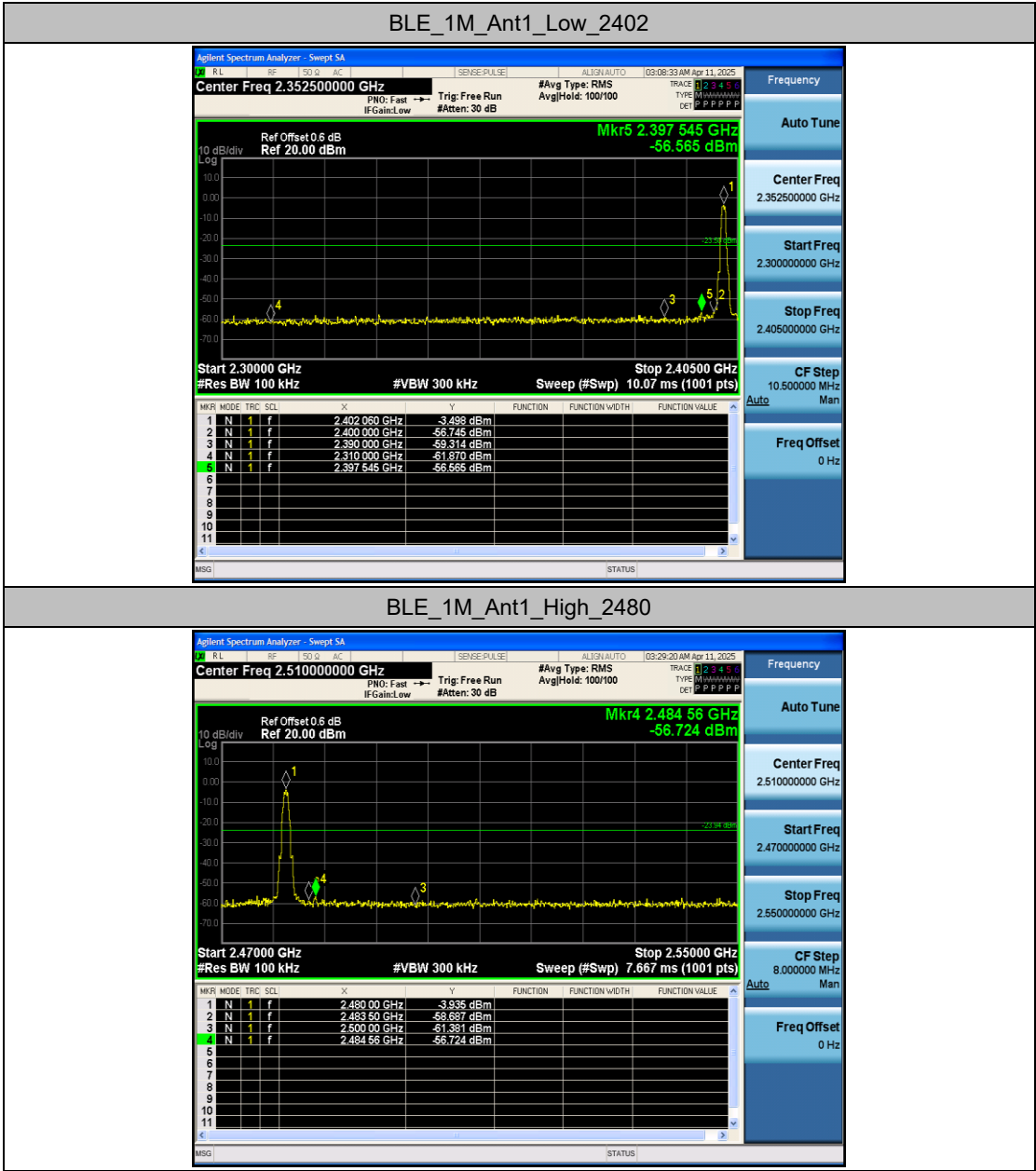


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-3.50	-56.57	≤-23.5	PASS
		High	2480	-3.94	-56.72	≤-23.94	PASS

Test Graphs

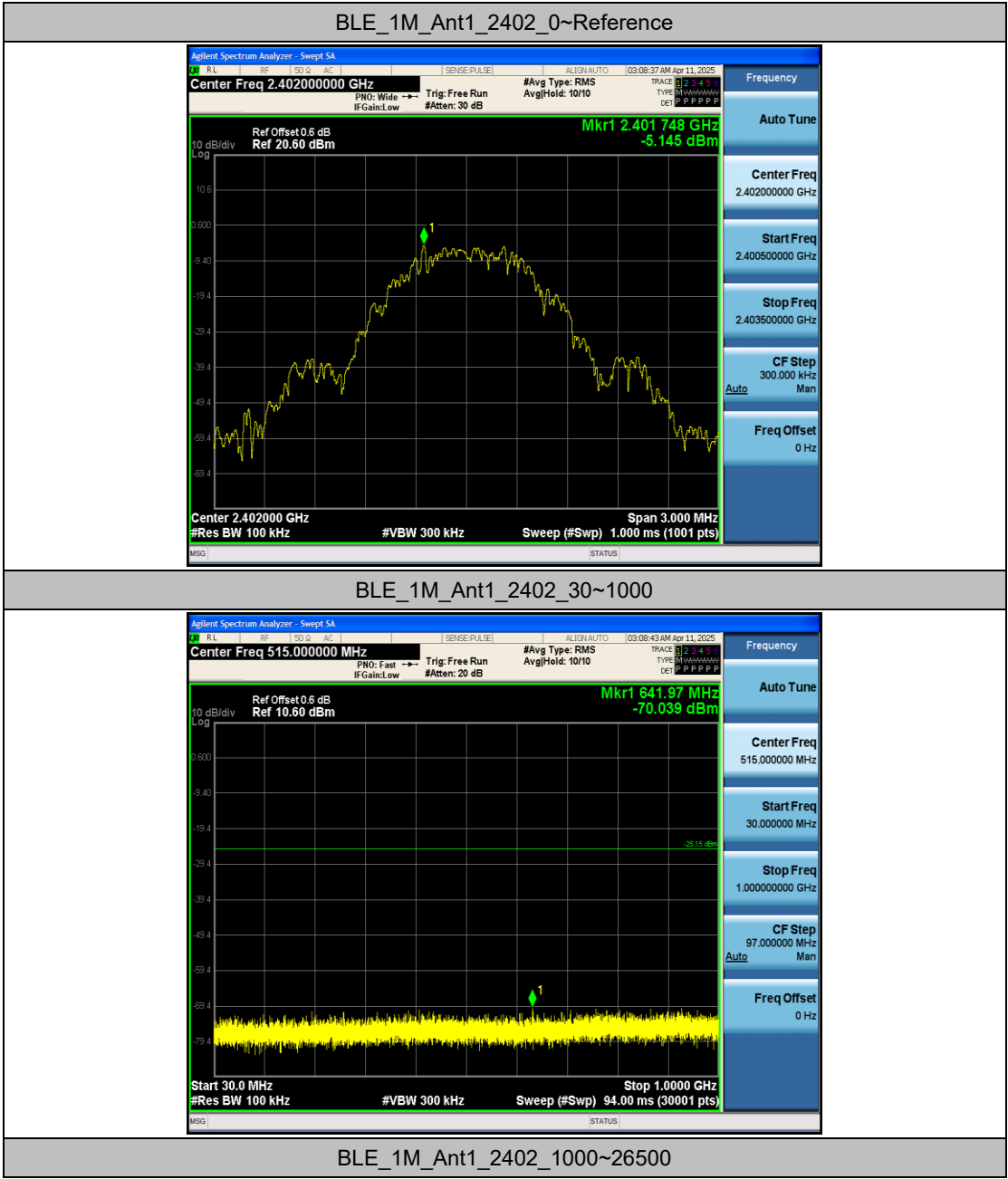


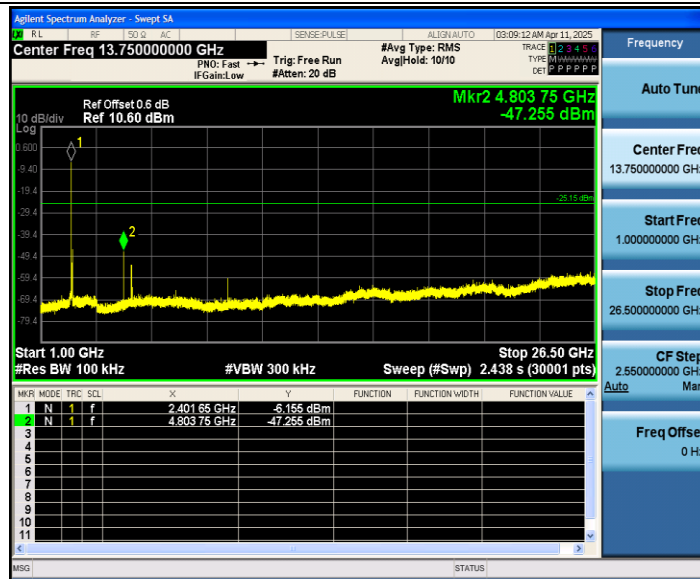
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-5.15	-5.15	---	PASS
			30~1000	-5.15	-70.04	≤-25.15	PASS
			1000~26500	-5.15	-47.26	≤-25.15	PASS
		2440	Reference	-3.84	-3.84	---	PASS
			30~1000	-3.84	-69.9	≤-23.84	PASS
			1000~26500	-3.84	-49.82	≤-23.84	PASS
		2480	Reference	-5.56	-5.56	---	PASS
			30~1000	-5.56	-70.05	≤-25.56	PASS
			1000~26500	-5.56	-53.15	≤-25.56	PASS

Test Graphs

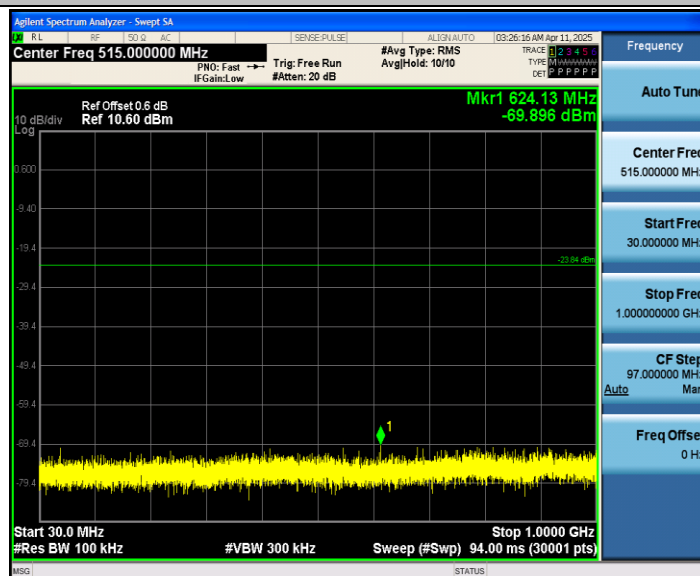




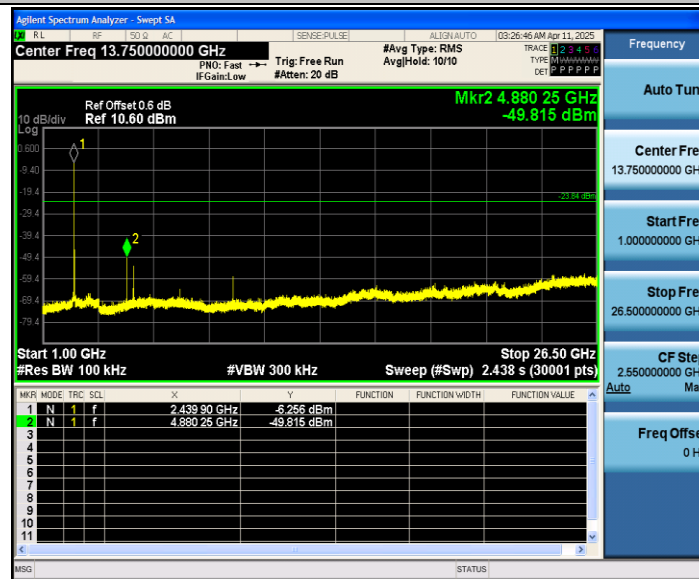
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



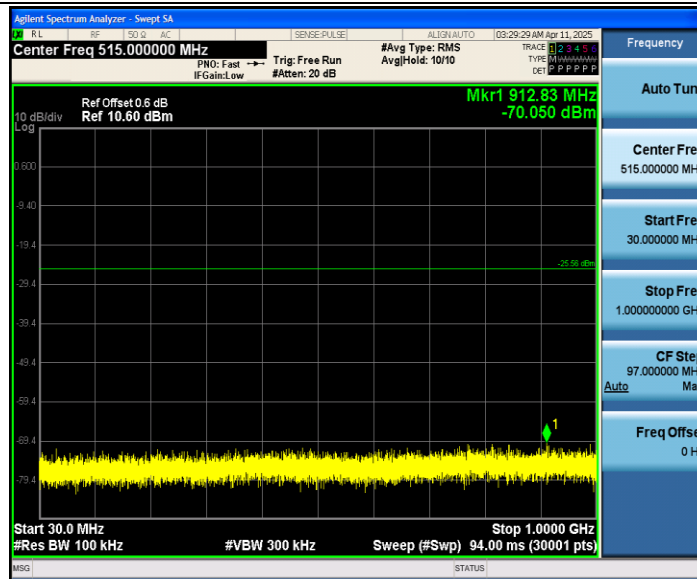
BLE_1M_Ant1_2440_1000~26500



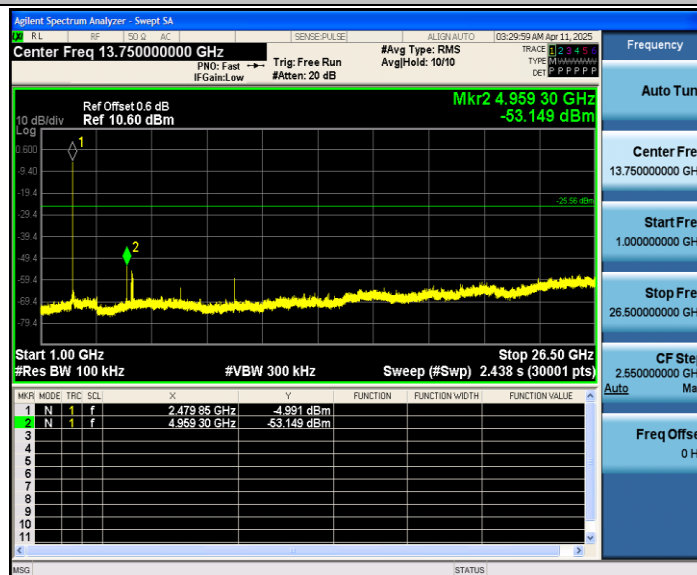
BLE_1M_Ant1_2480_0~Reference



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

