

FCC Appendix RF Test Data

FCC ID : 2A29G-SYL-HY-08

Company: : Shenzhen Shenglong Titanium Industry Co., Ltd.

EUT : LED Fabric Lamp

Model Number : SYL-HY-08

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	0.664	2401.664	2402.328	0.5	PASS
		2440	0.652	2439.680	2440.332	0.5	PASS
		2480	0.660	2479.672	2480.332	0.5	PASS

Test Graphs

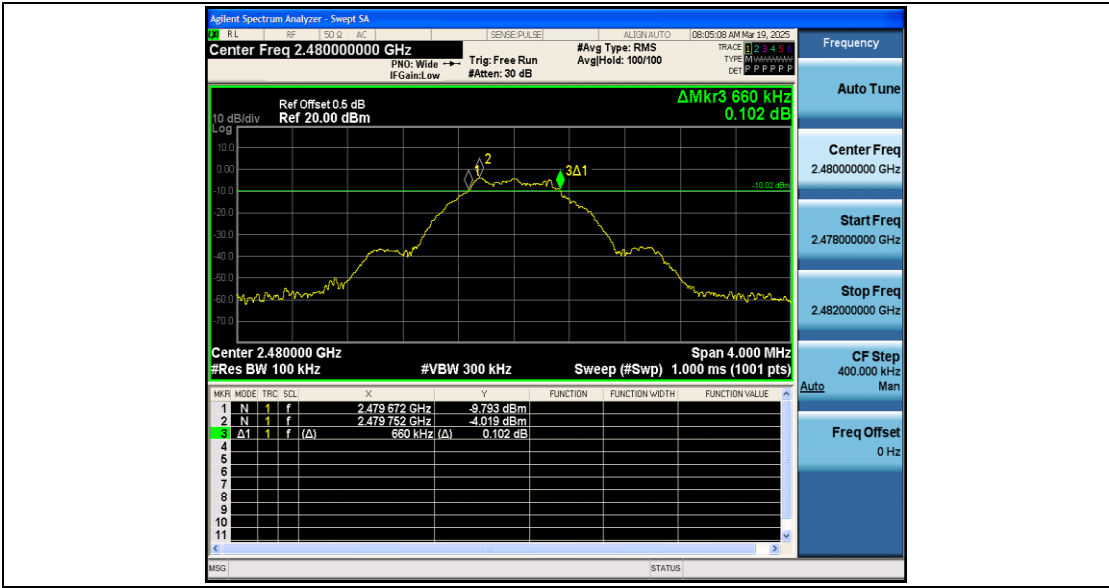
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

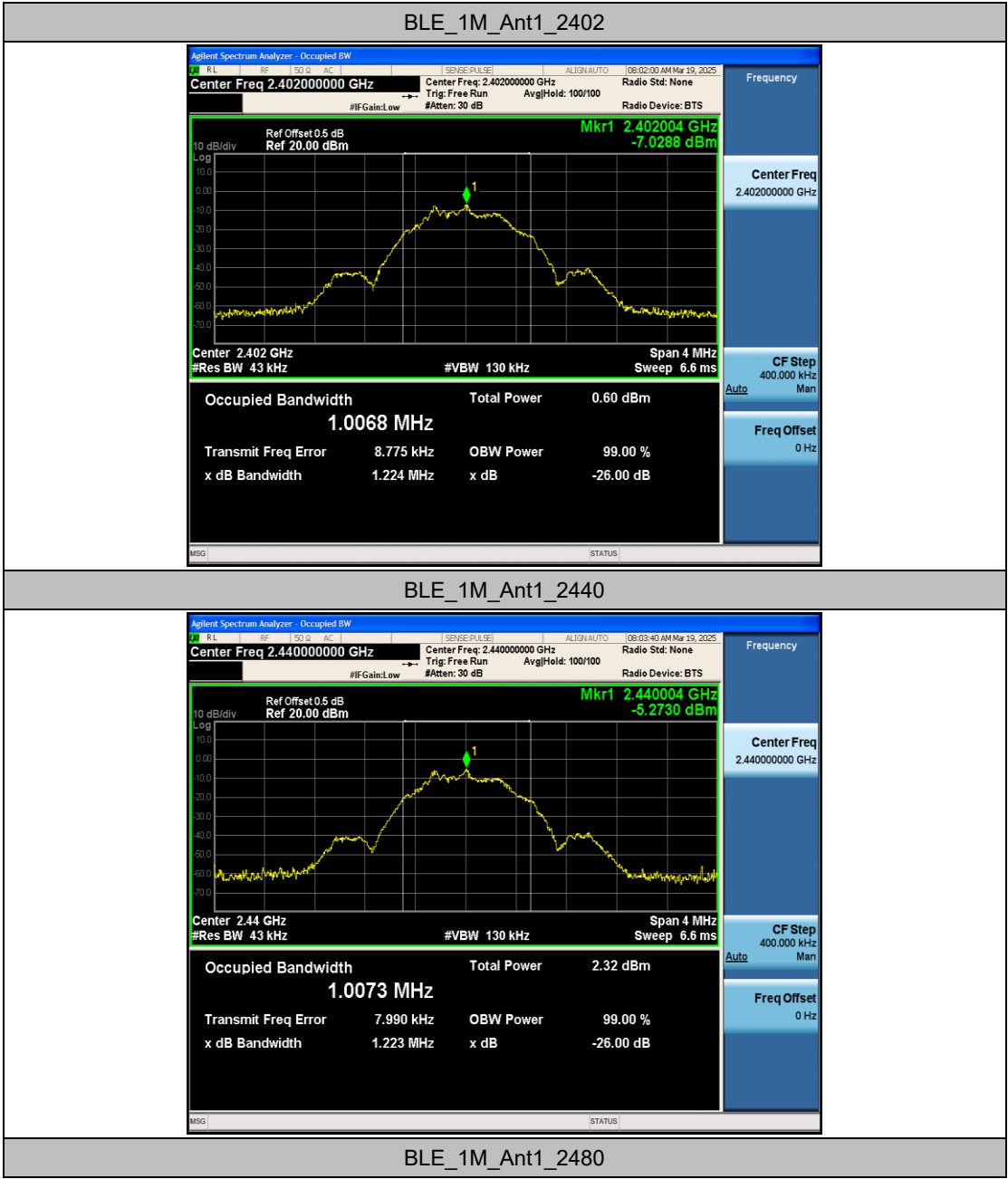


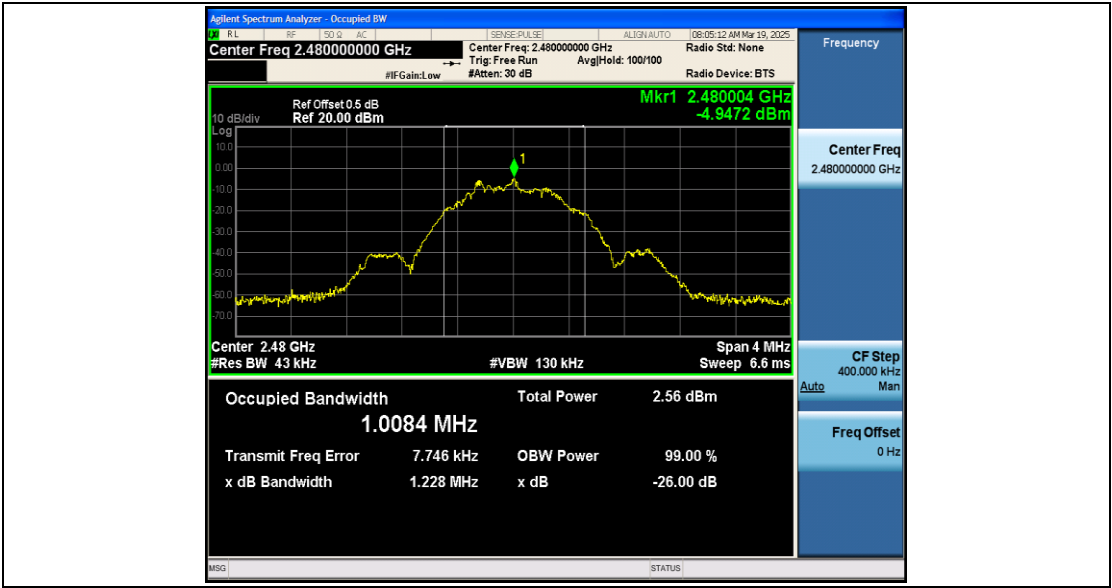
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0068	2401.5054	2402.5122	---	---
		2440	1.0073	2439.5043	2440.5116	---	---
		2480	1.0084	2479.5036	2480.5120	---	---

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	-5.70	≤30	PASS
		2440	-3.87	≤30	PASS
		2480	-3.66	≤30	PASS

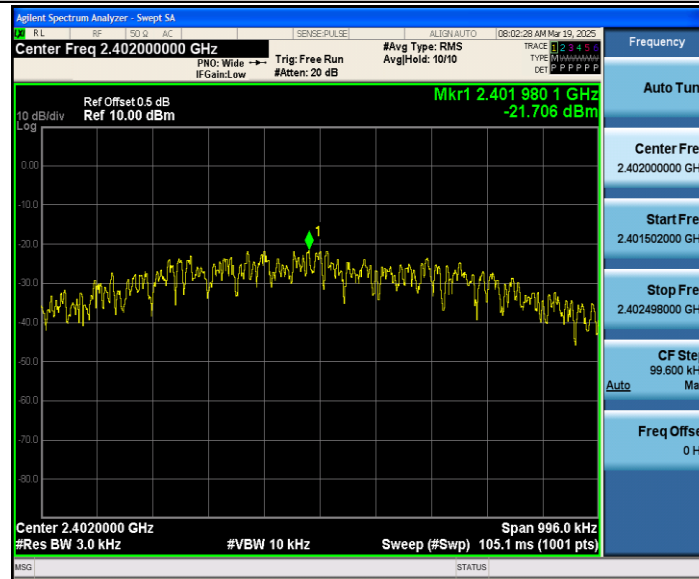
Appendix D: Maximum power spectral density

Test Result

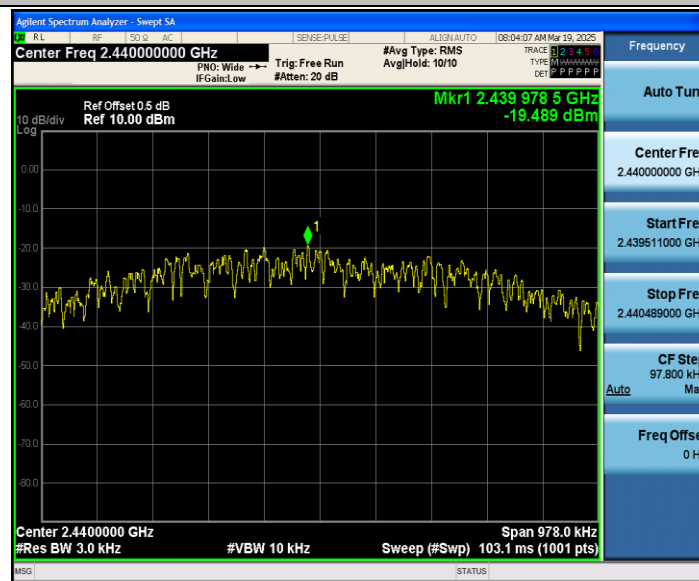
TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-21.71	≤8.00	PASS
		2440	-19.49	≤8.00	PASS
		2480	-19.15	≤8.00	PASS

Test Graphs

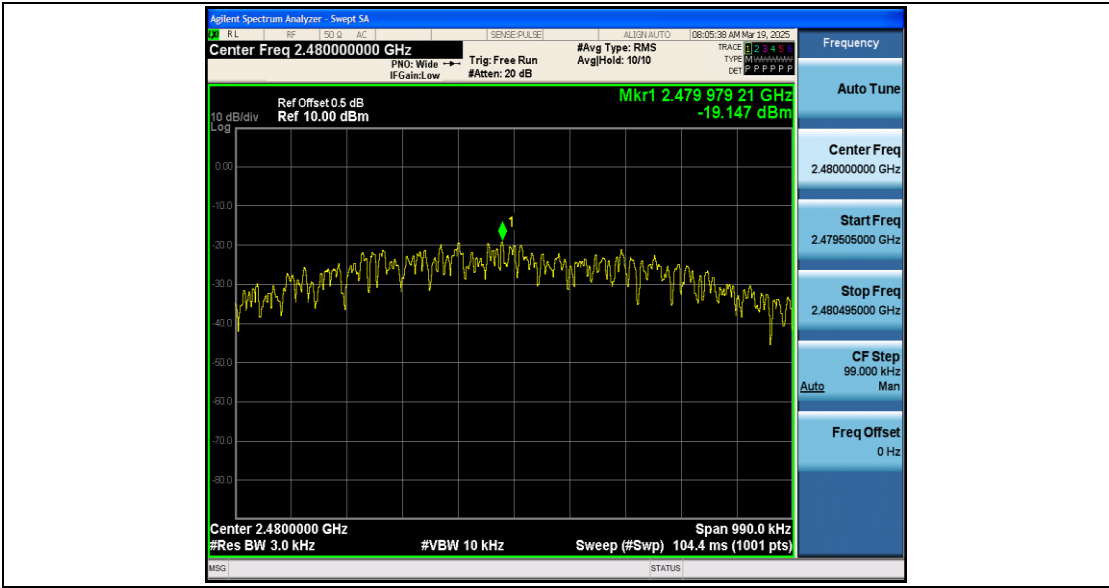
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

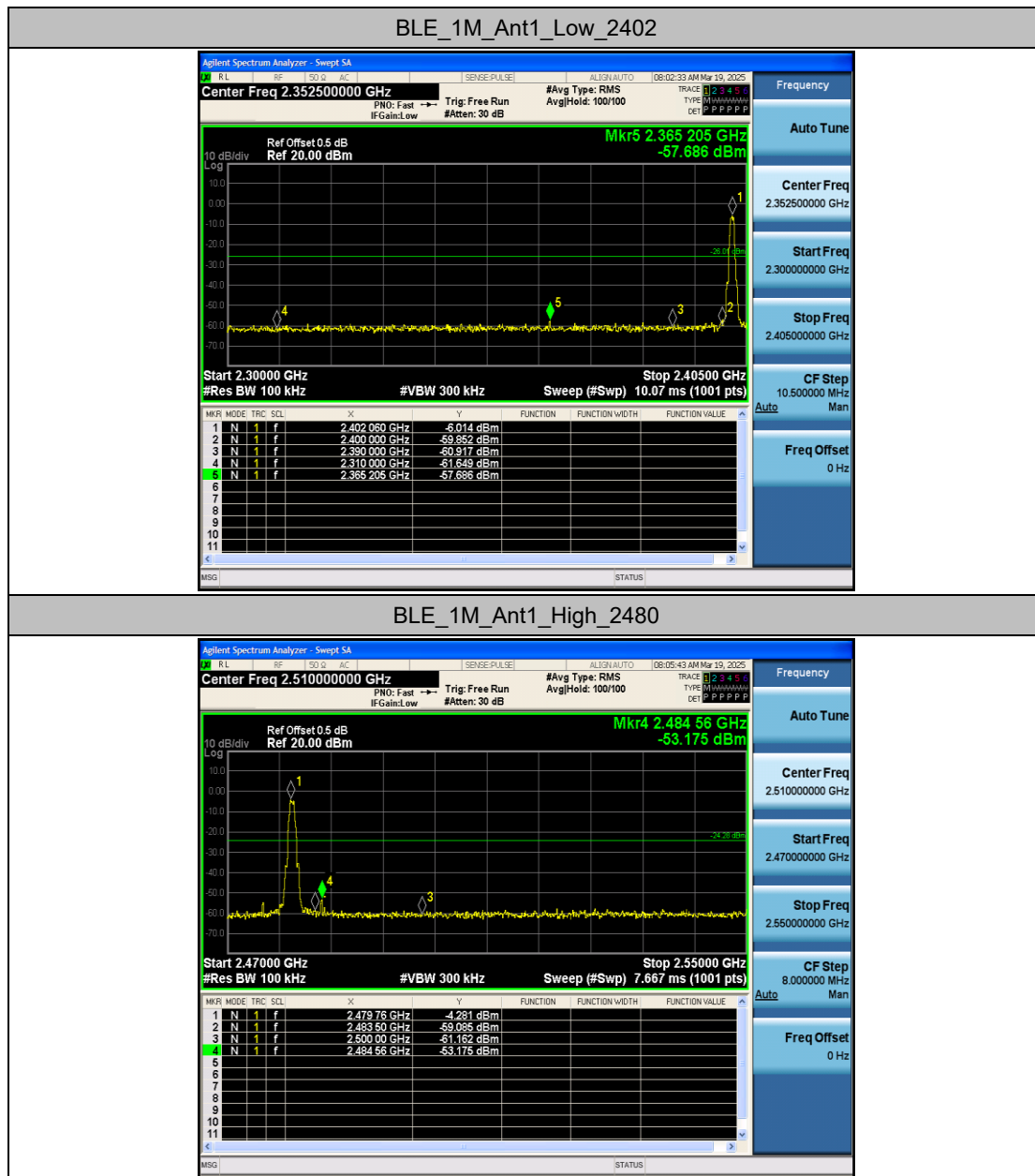


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-6.01	-57.69	≤-26.01	PASS
		High	2480	-4.28	-53.18	≤-24.28	PASS

Test Graphs

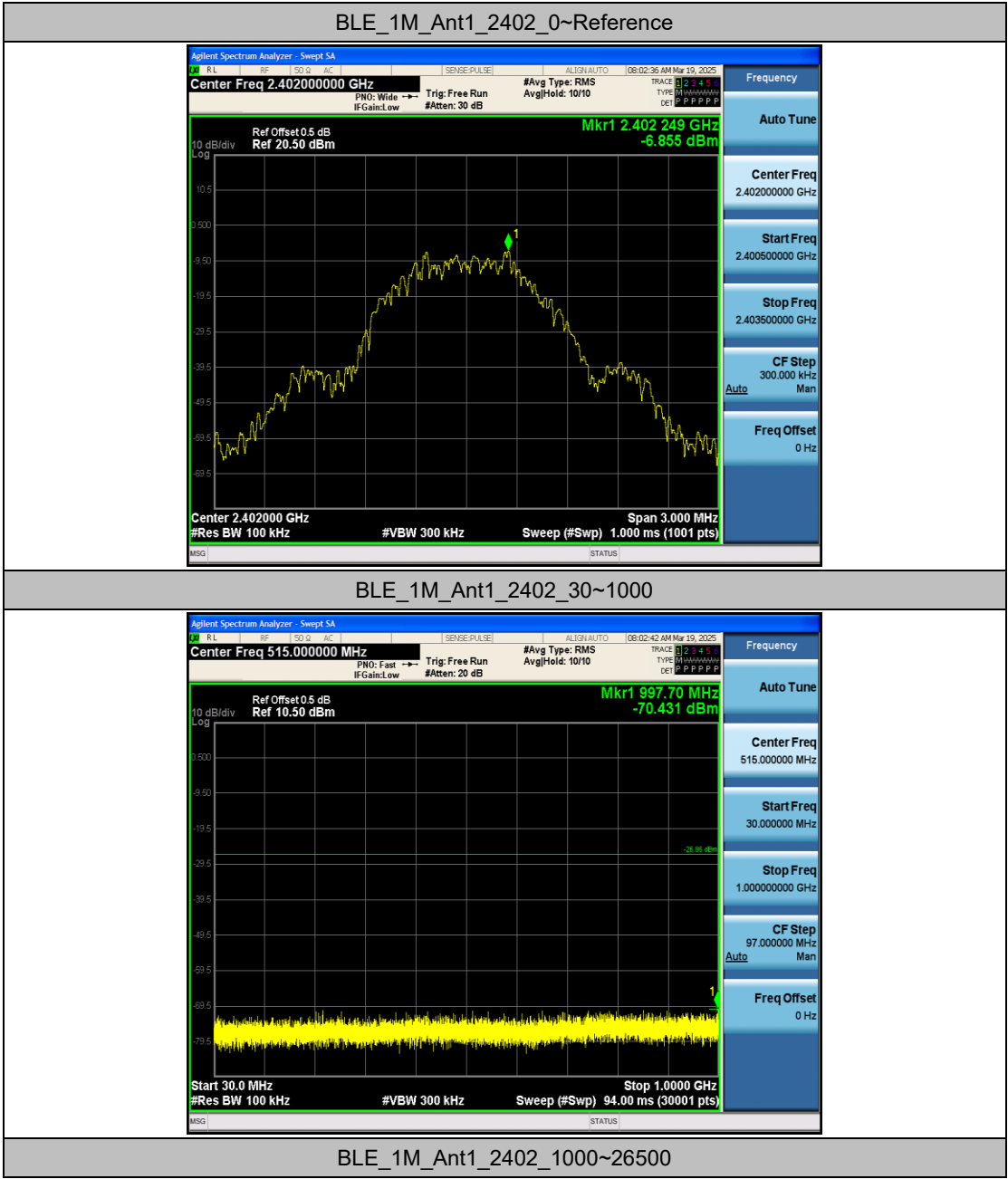


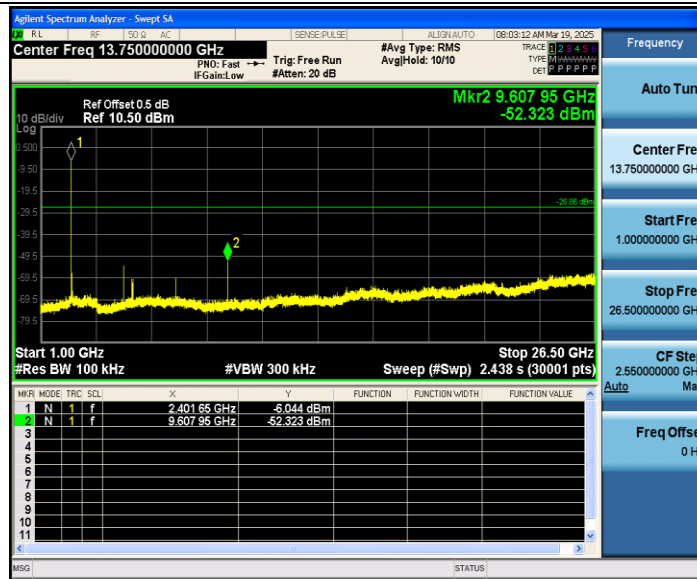
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-6.86	-6.86	---	PASS
			30~1000	-6.86	-70.43	≤-26.86	PASS
			1000~26500	-6.86	-52.32	≤-26.86	PASS
		2440	Reference	-4.18	-4.18	---	PASS
			30~1000	-4.18	-69.94	≤-24.18	PASS
			1000~26500	-4.18	-51.46	≤-24.18	PASS
		2480	Reference	-5.17	-5.17	---	PASS
			30~1000	-5.17	-69.74	≤-25.17	PASS
			1000~26500	-5.17	-52.74	≤-25.17	PASS

Test Graphs

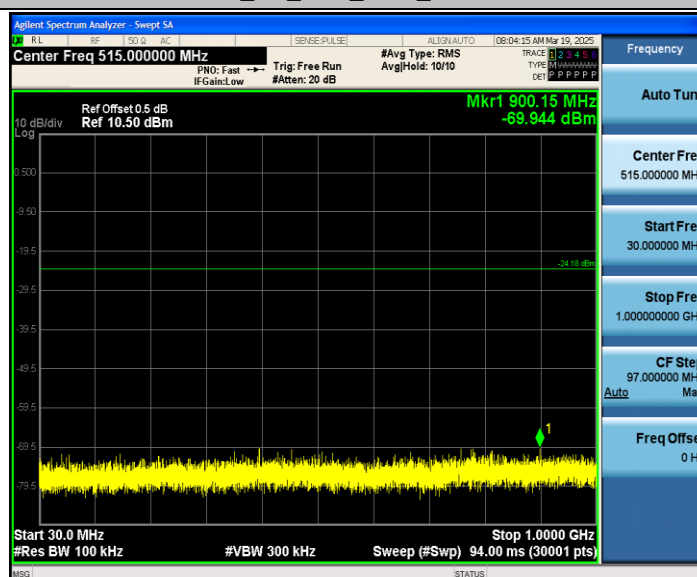




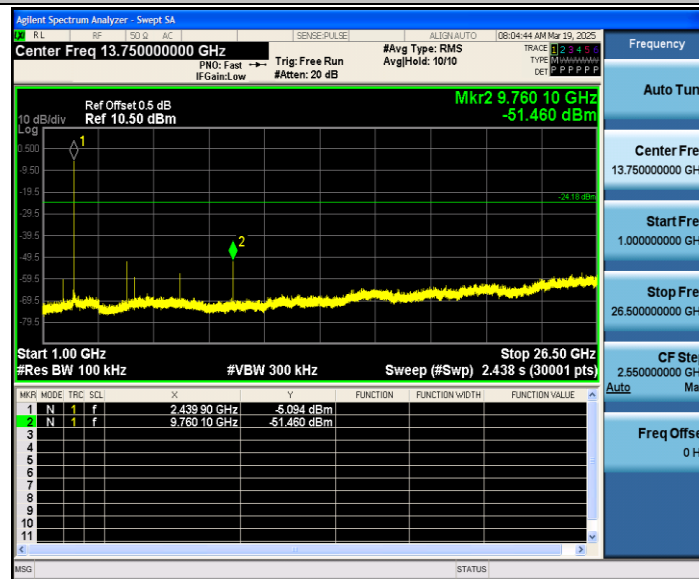
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



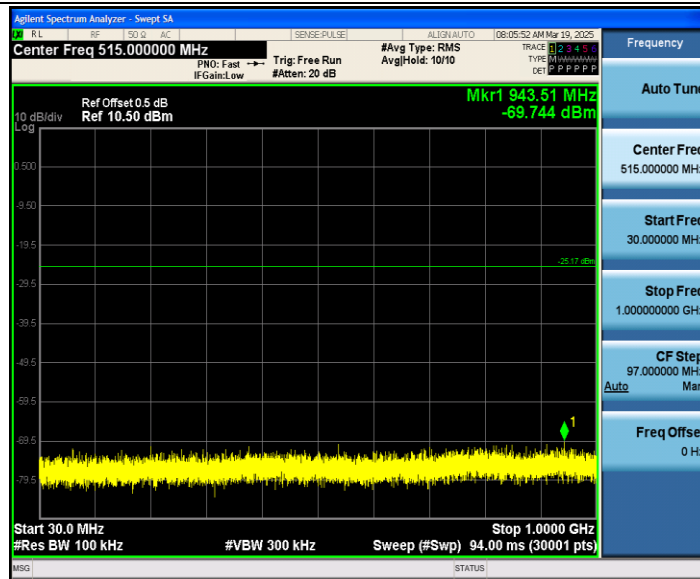
BLE_1M_Ant1_2440_1000~26500



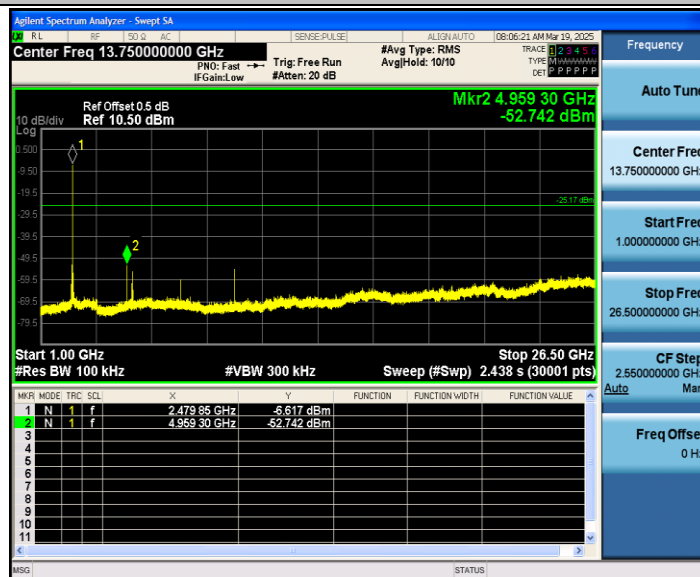
BLE_1M_Ant1_2480_0~Reference



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

