

FCC Appendix RF Test Data for BLE

FCC ID : 2BO4Y-WFH07

Company: : Foshan Weefine Technology Co.,Ltd

EUT : Smart Housing

Model Number : WFH07

Report No. : CTA25041700101

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	2401.696	2402.332	0.5	PASS
		2440	0.644	2439.688	2440.332	0.5	PASS
		2480	0.644	2479.692	2480.336	0.5	PASS

Test Graphs

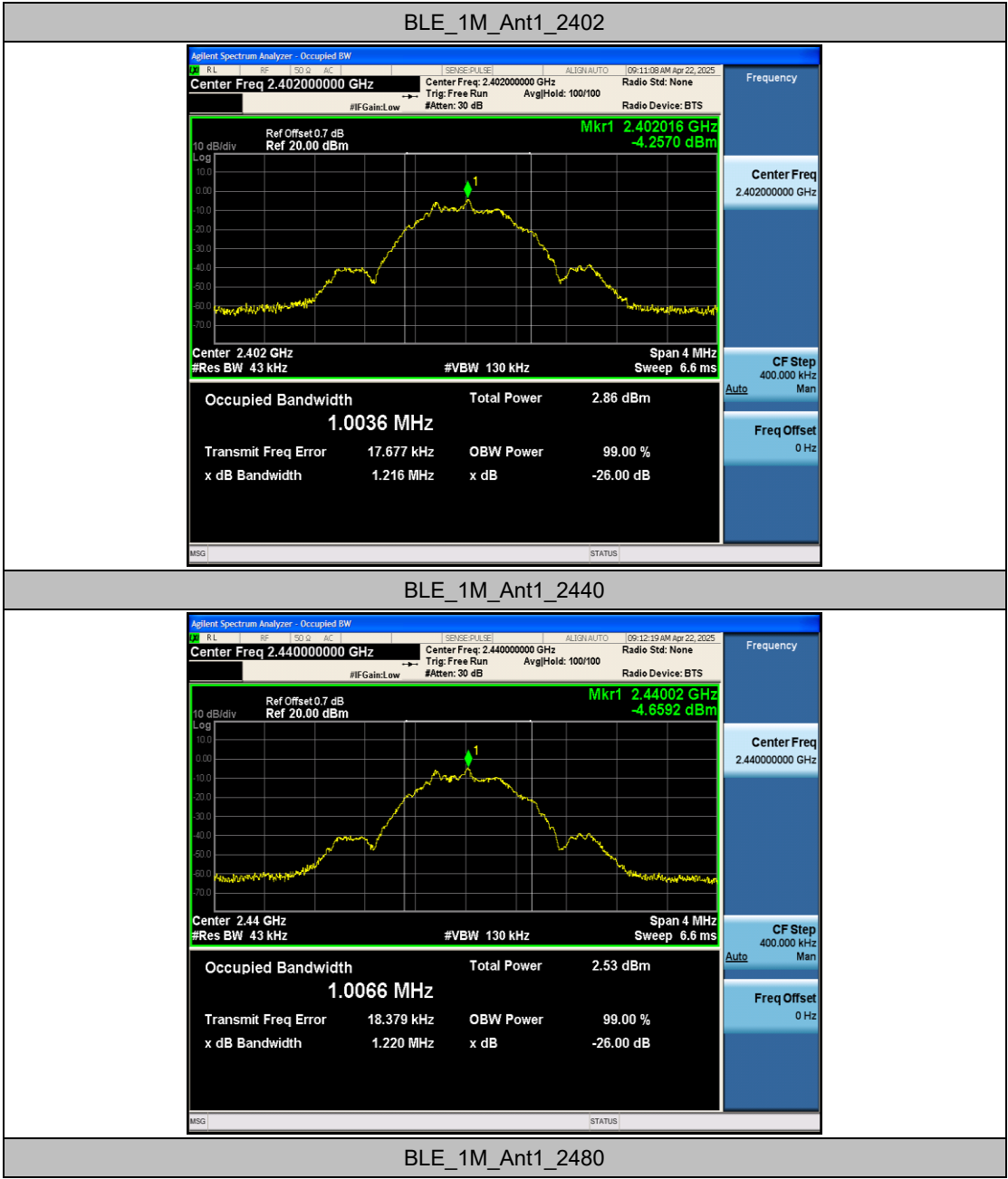


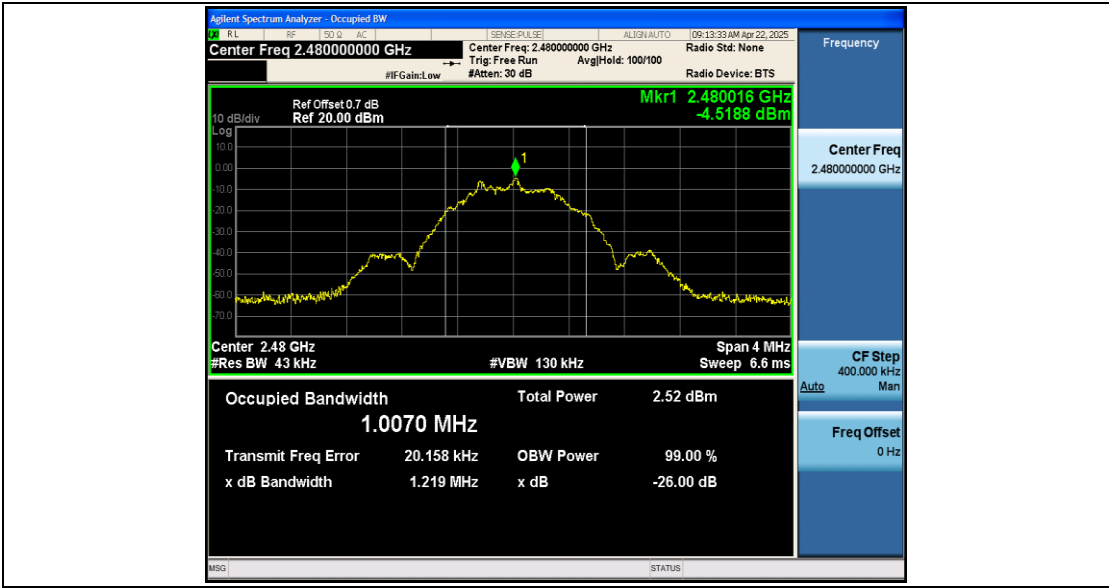
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0036	2401.5159	2402.5195	---	---
		2440	1.0066	2439.5151	2440.5217	---	---
		2480	1.0070	2479.5167	2480.5237	---	---

Test Graphs





Appendix C: Maximum conducted output power

Test Result Peak

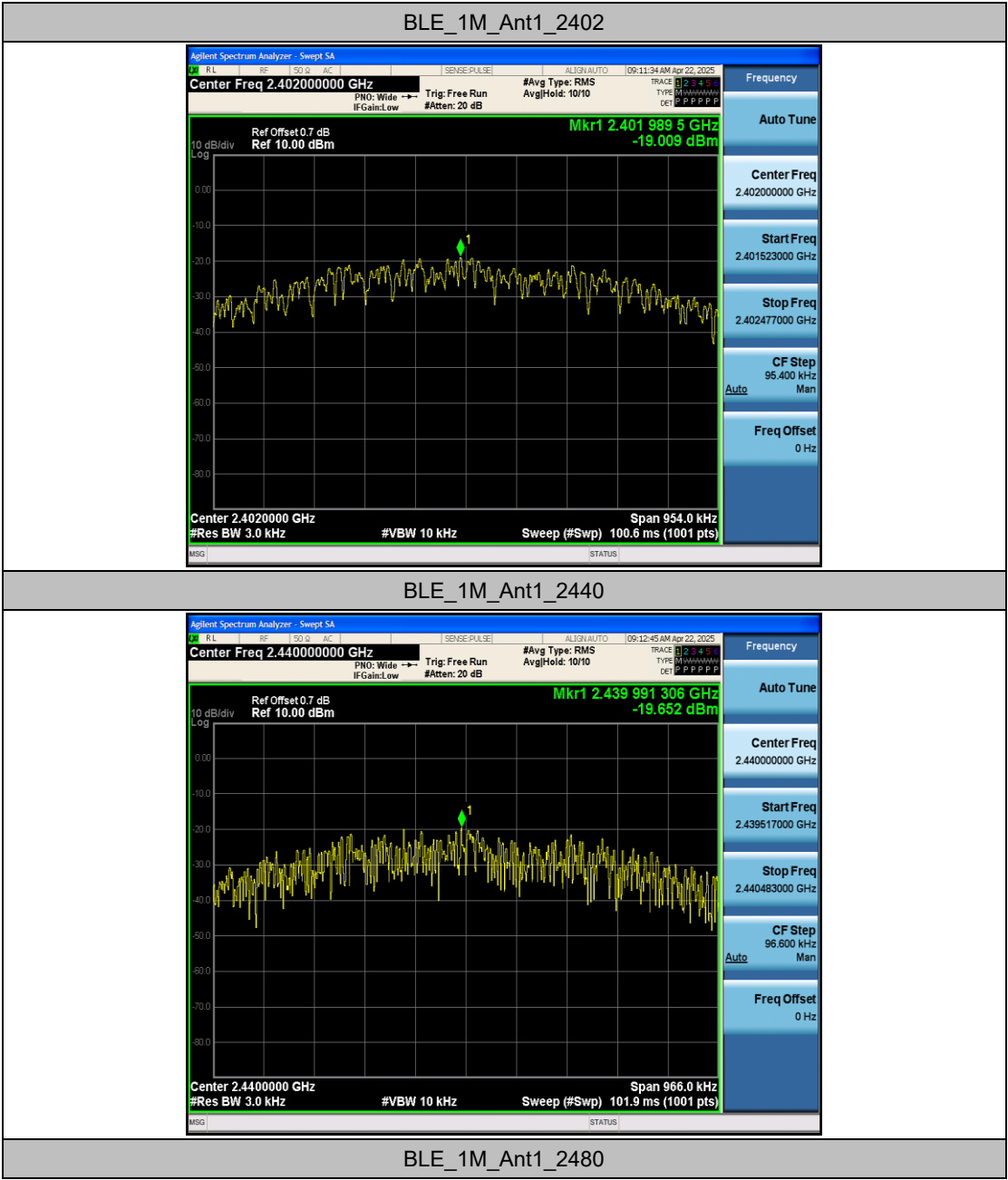
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-3.20	≤30	PASS
		2440	-3.52	≤30	PASS
		2480	-3.50	≤30	PASS

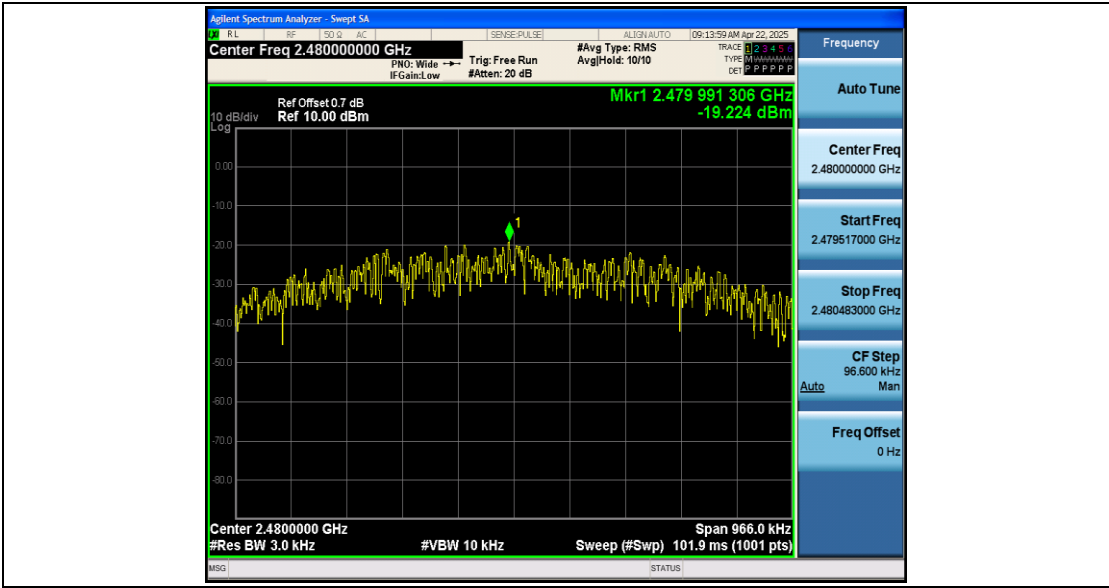
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-19.01	≤8.00	PASS
		2440	-19.65	≤8.00	PASS
		2480	-19.22	≤8.00	PASS

Test Graphs



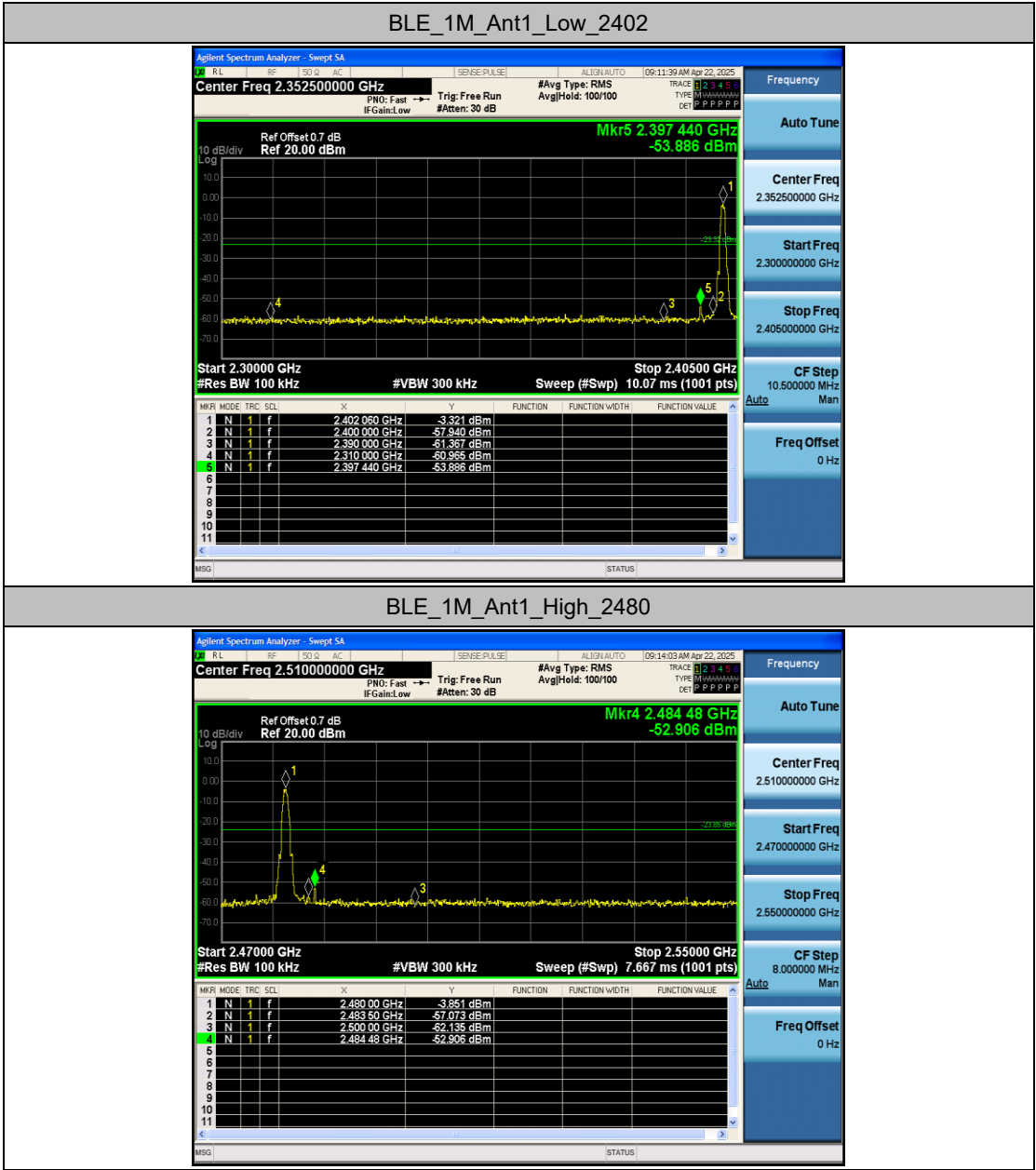


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-3.32	-53.89	≤-23.32	PASS
		High	2480	-3.85	-52.91	≤-23.85	PASS

Test Graphs

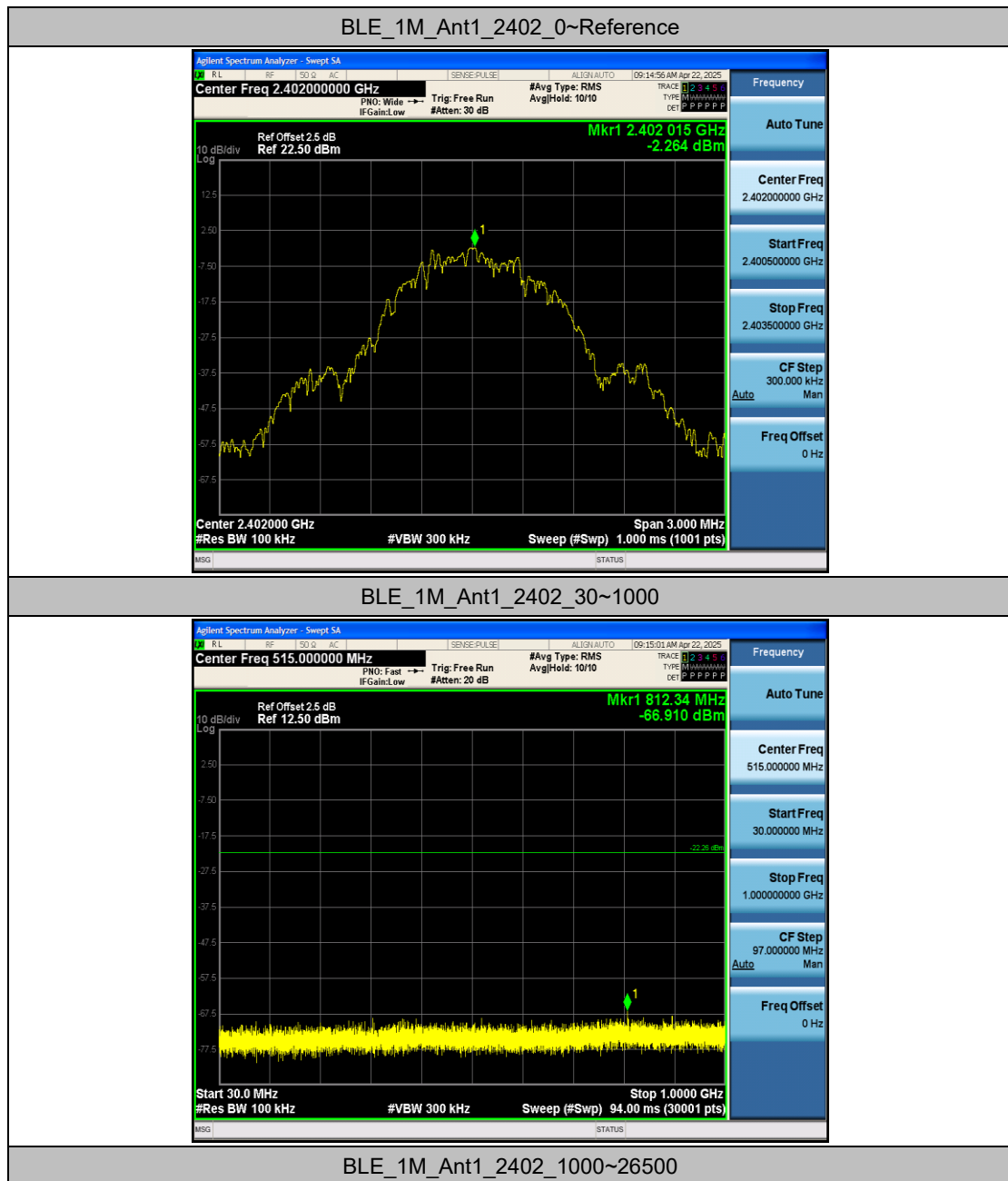


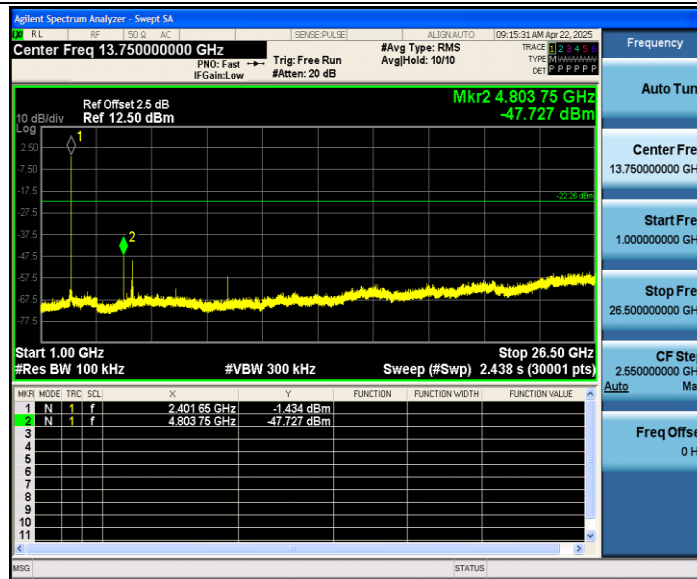
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-2.26	-2.26	---	PASS
			30~1000	-2.26	-66.91	≤-22.26	PASS
			1000~26500	-2.26	-47.73	≤-22.26	PASS
		2440	Reference	-3.94	-3.94	---	PASS
			30~1000	-3.94	-67.92	≤-23.94	PASS
			1000~26500	-3.94	-48.88	≤-23.94	PASS
		2480	Reference	-3.74	-3.74	---	PASS
			30~1000	-3.74	-48.75	≤-23.74	PASS
			1000~26500	-3.74	-47.83	≤-23.74	PASS

Test Graphs

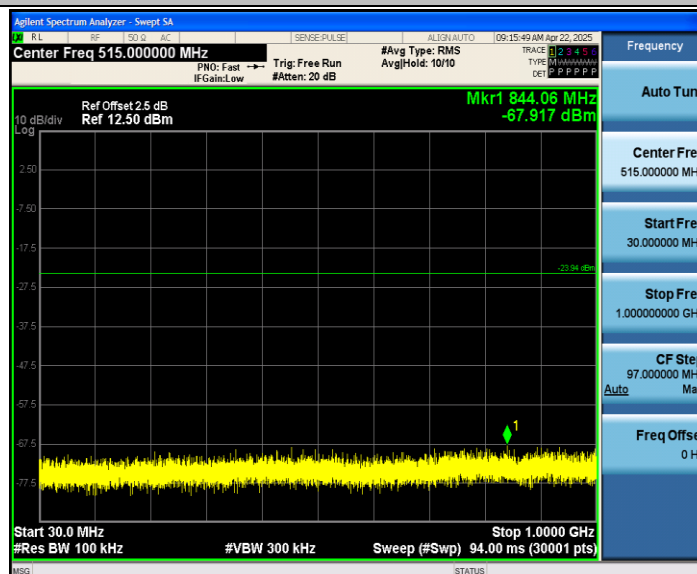




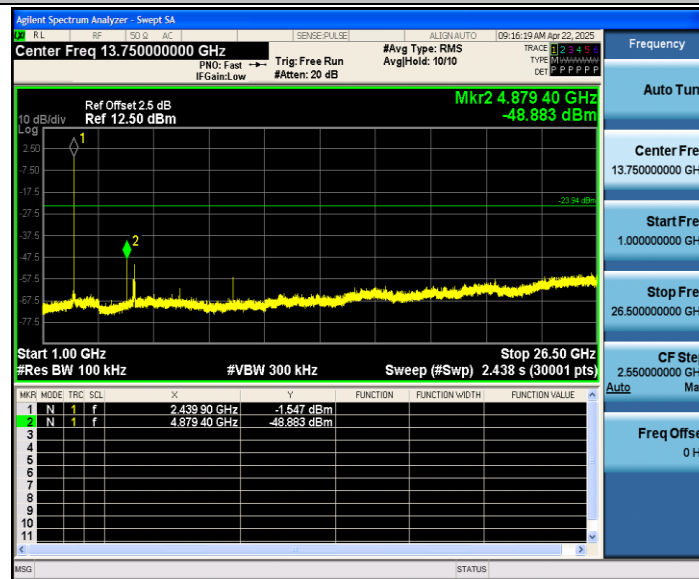
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



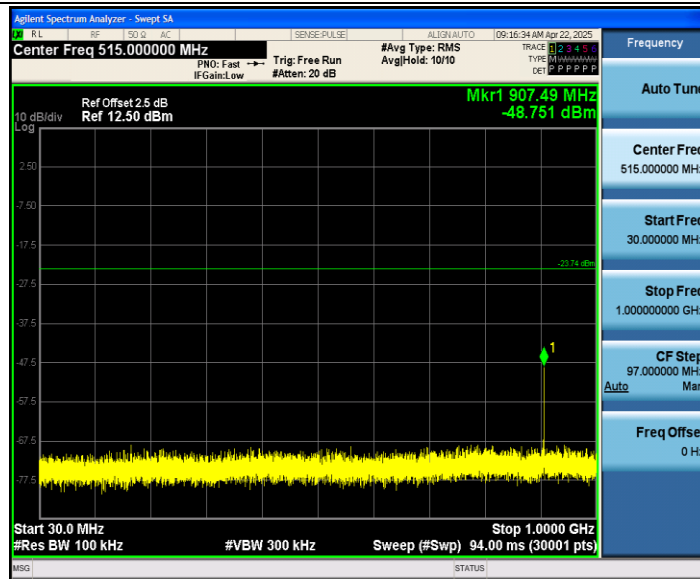
BLE_1M_Ant1_2440_1000~26500



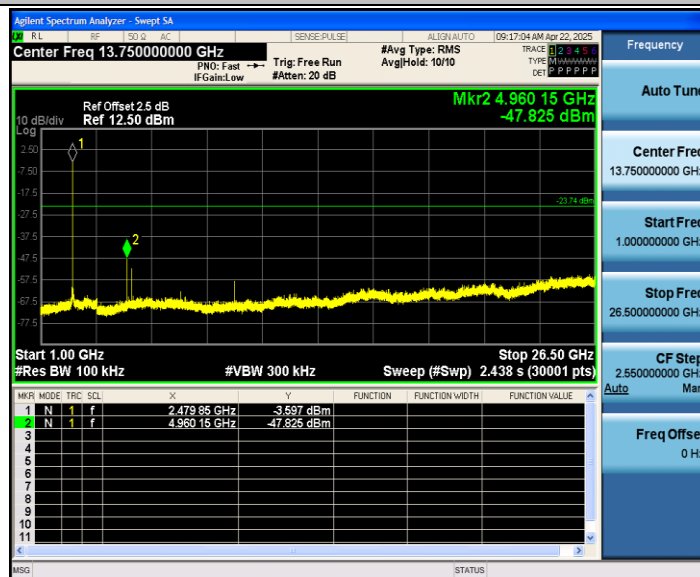
BLE_1M_Ant1_2480_0~Reference



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

