

FCC Appendix RF Test Data

FCC ID : 2A4G4-XM-BT-41A

Company : Shenzhen Xeme Communication Co., Ltd.

EUT : XEME Bluetooth Remote Control

Model Number : XM-BT-41A

Report No. : CTA25072100701

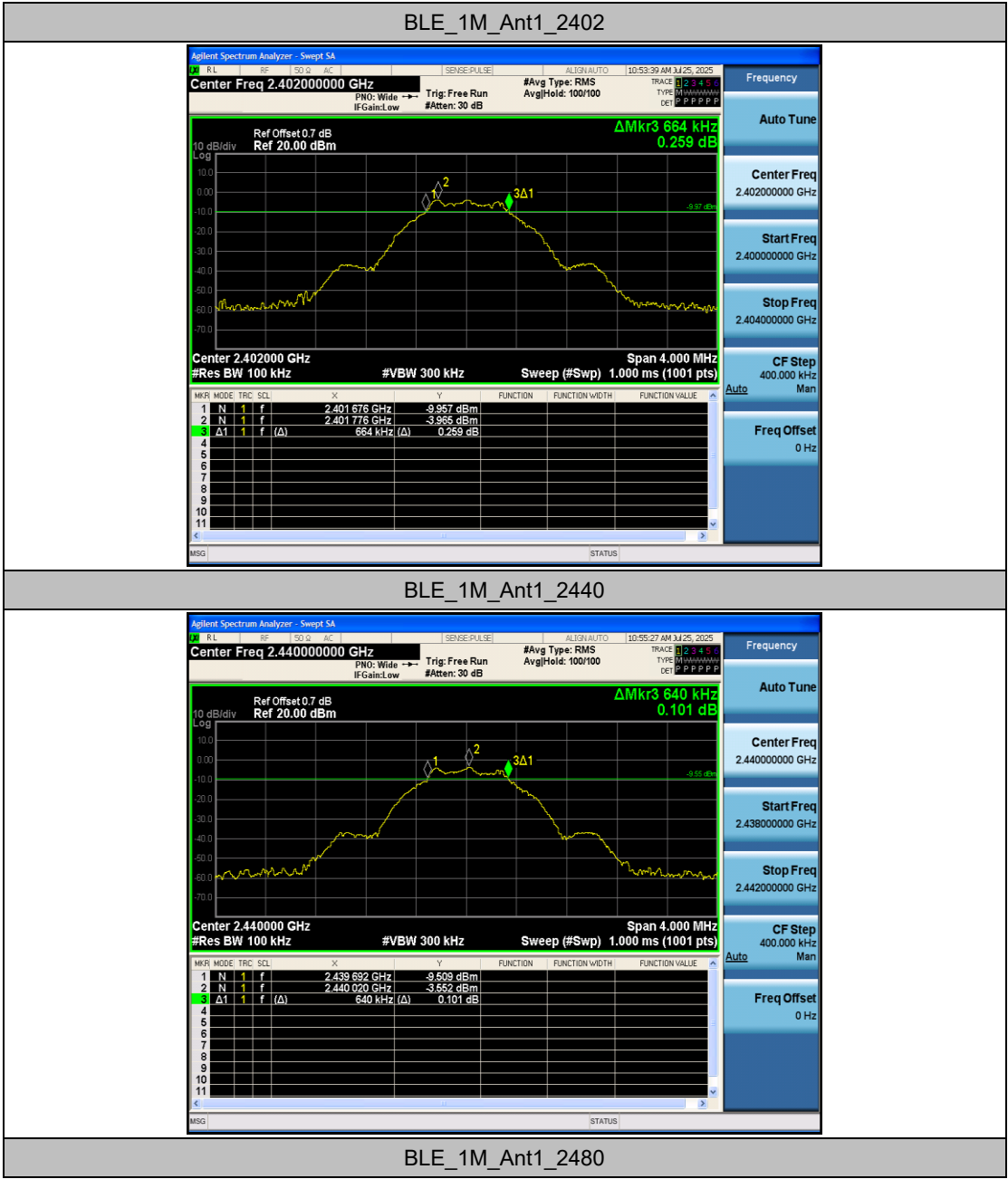
Reviewed By : Eric Wang

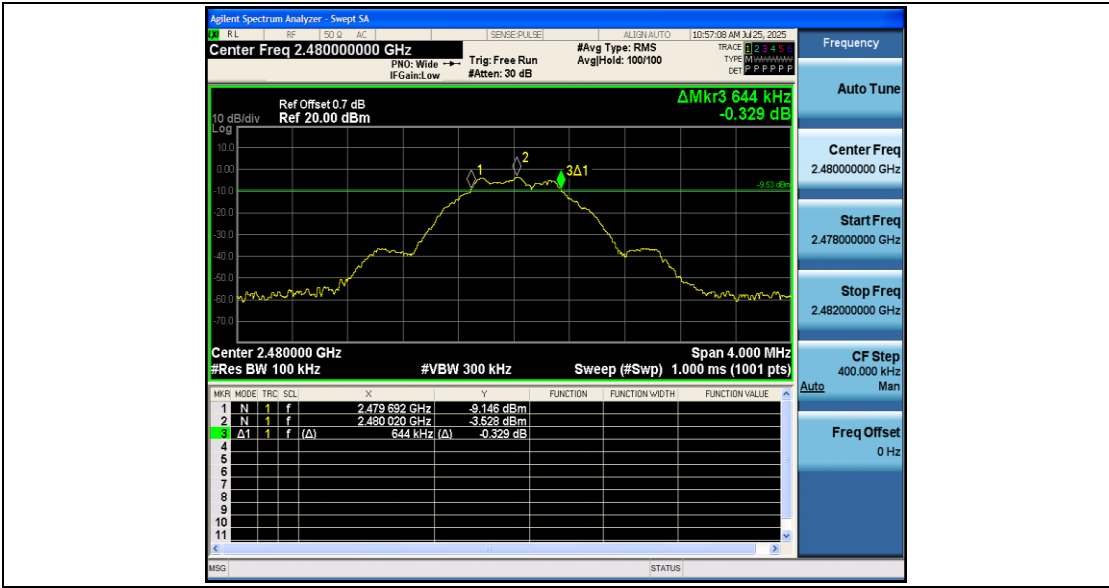
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.664	2401.676	2402.340	0.5	PASS
		2440	0.640	2439.692	2440.332	0.5	PASS
		2480	0.644	2479.692	2480.336	0.5	PASS

Test Graphs





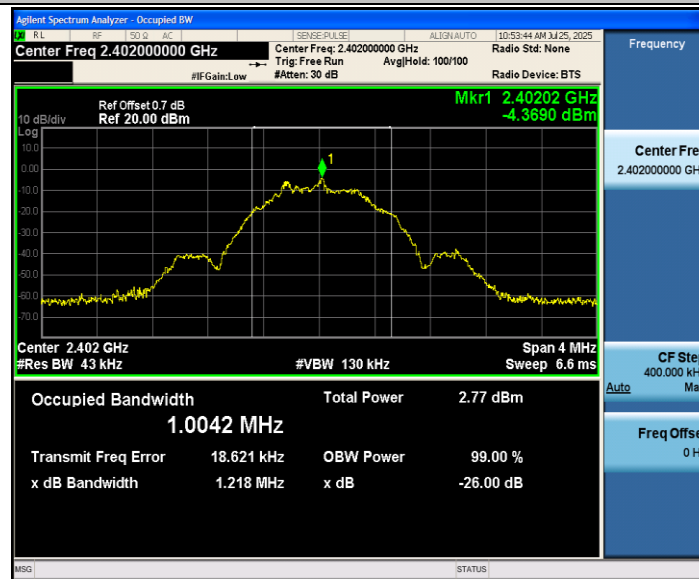
Appendix B: Occupied Channel Bandwidth

Test Result

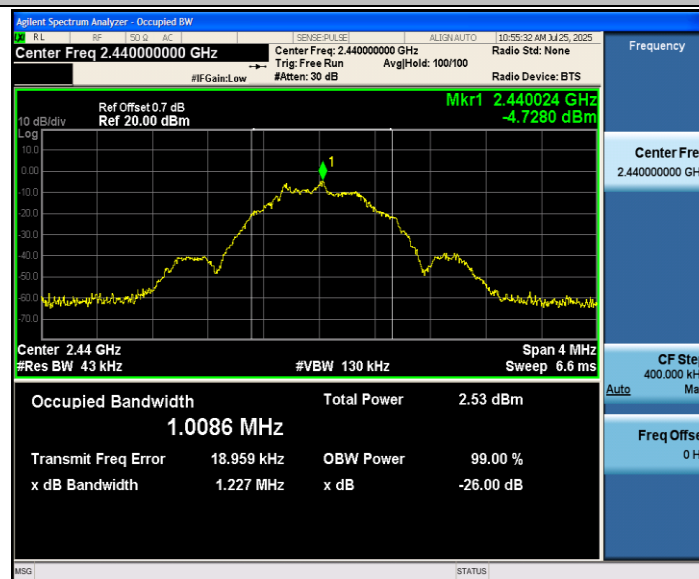
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0042	2401.5165	2402.5207	---	---
		2440	1.0086	2439.5147	2440.5233	---	---
		2480	1.0036	2479.5162	2480.5198	---	---

Test Graphs

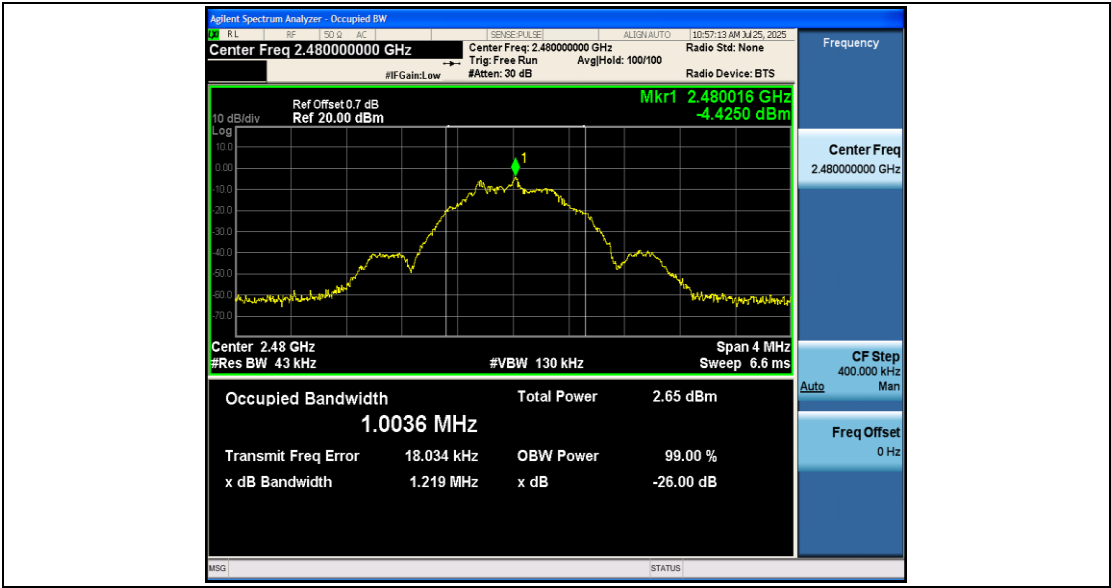
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

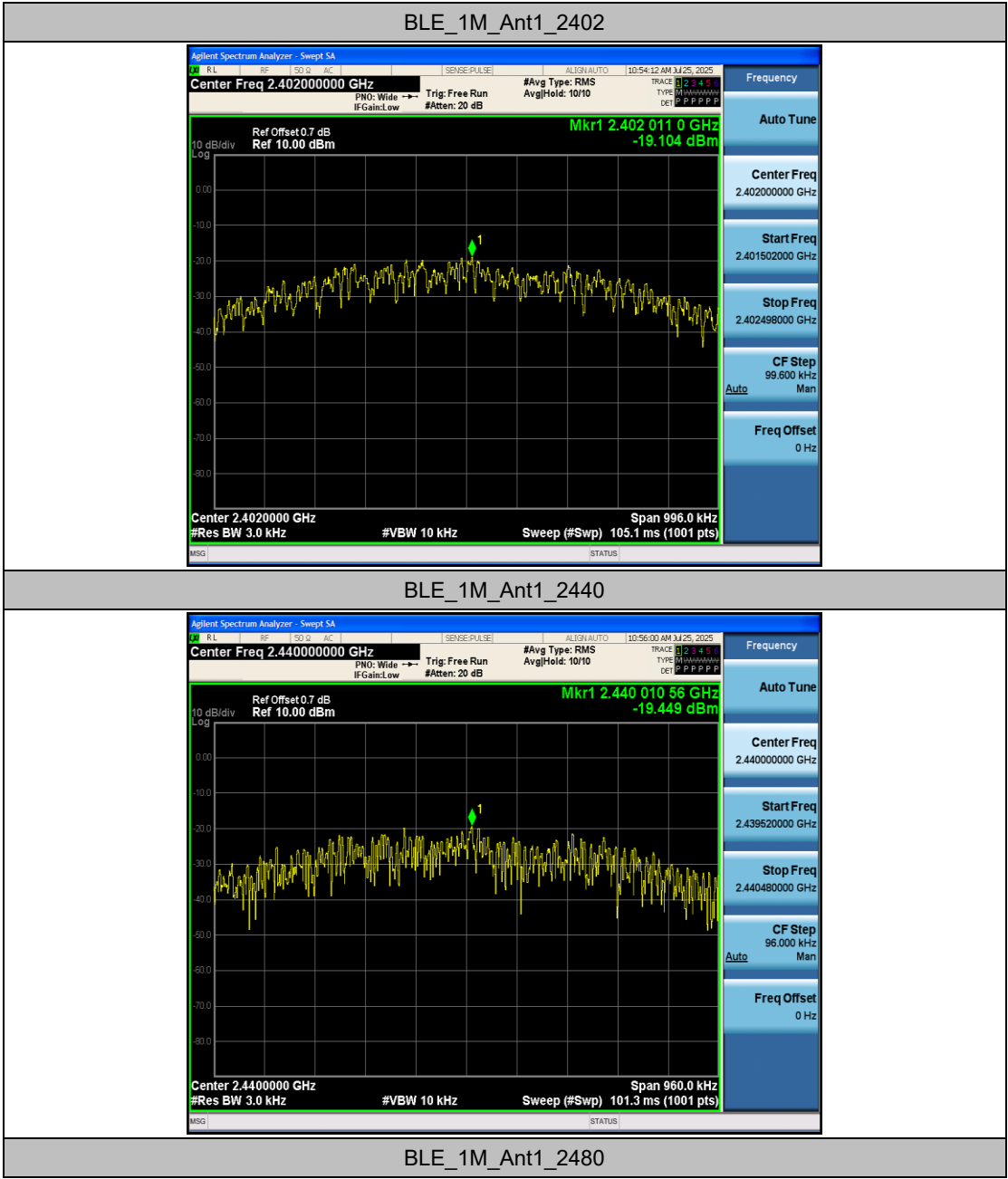
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-3.27	≤30	PASS
		2440	-3.45	≤30	PASS
		2480	-3.41	≤30	PASS

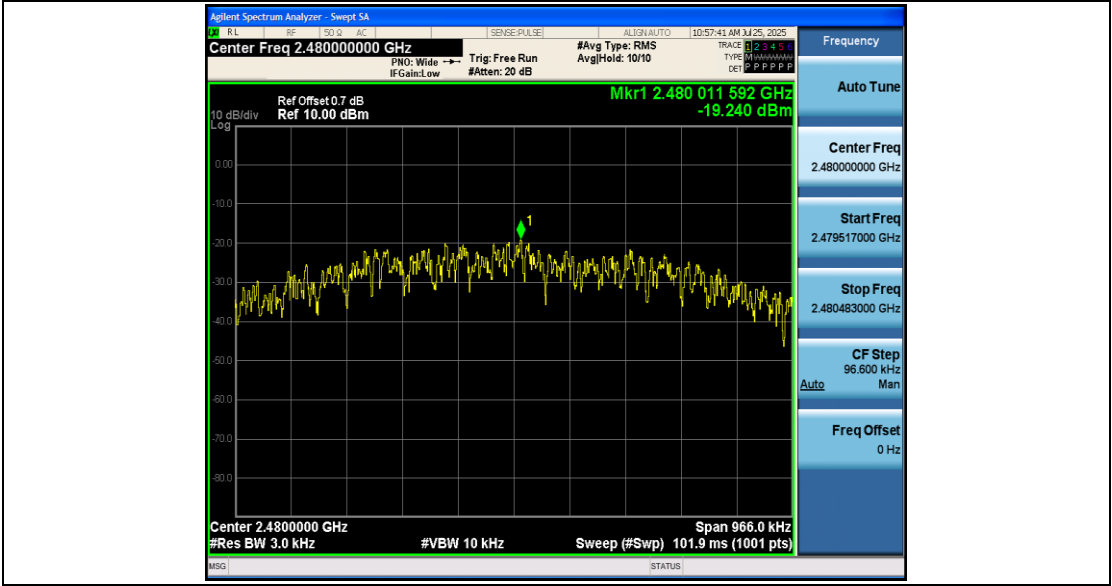
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-19.10	≤8.00	PASS
		2440	-19.45	≤8.00	PASS
		2480	-19.24	≤8.00	PASS

Test Graphs



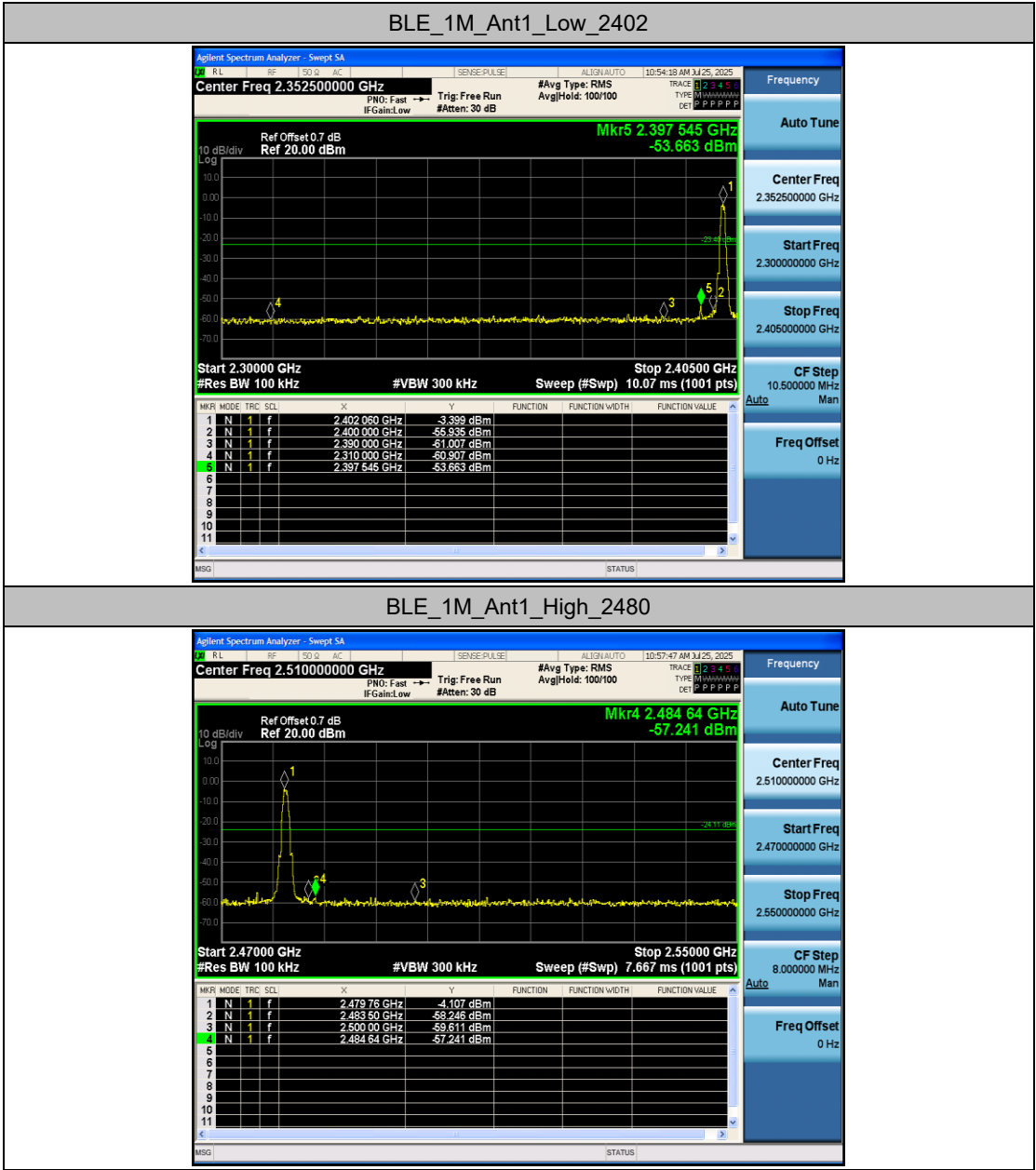


Appendix E: Band edge measurements

Test Result

TestMod e	Antenn a	ChNam e	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
BLE_1M	Ant1	Low	2402	-3.40	-53.66	≤-23.4	PASS
		High	2480	-4.11	-57.24	≤-24.11	PASS

Test Graphs

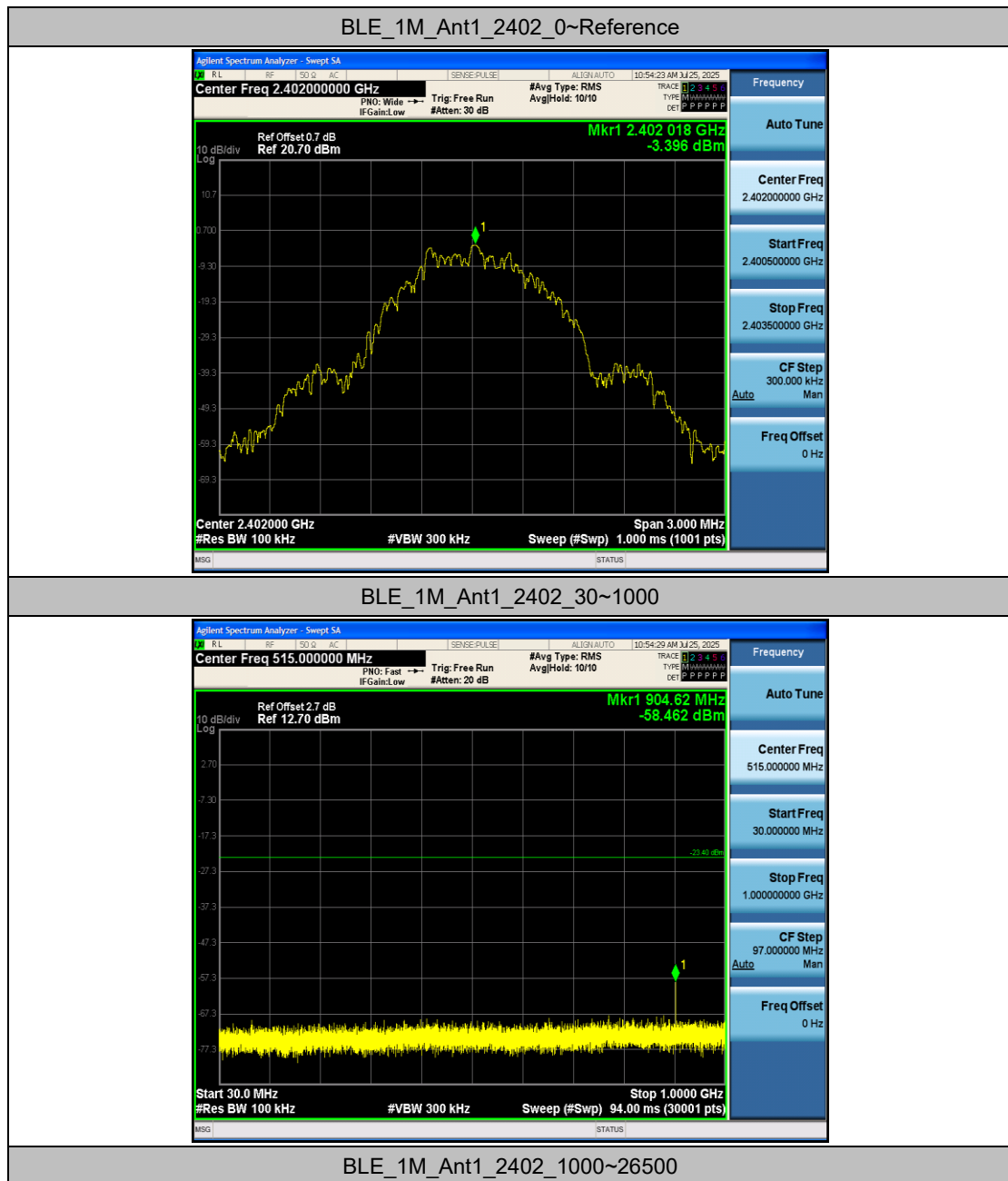


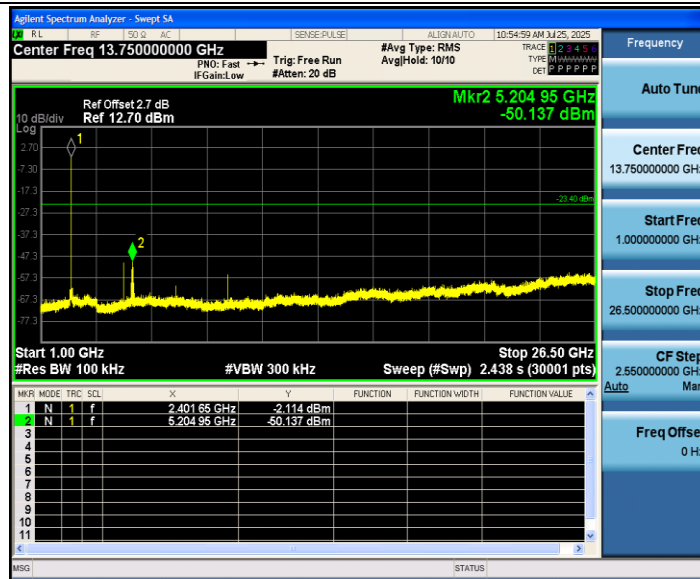
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-3.40	-3.40	---	PASS
			30~1000	-3.40	-58.46	≤-23.4	PASS
			1000~26500	-3.40	-50.14	≤-23.4	PASS
		2440	Reference	-4.06	-4.06	---	PASS
			30~1000	-4.06	-67.93	≤-24.06	PASS
			1000~26500	-4.06	-47.11	≤-24.06	PASS
		2480	Reference	-4.39	-4.39	---	PASS
			30~1000	-4.39	-55.25	≤-24.39	PASS
			1000~26500	-4.39	-46.88	≤-24.39	PASS

Test Graphs

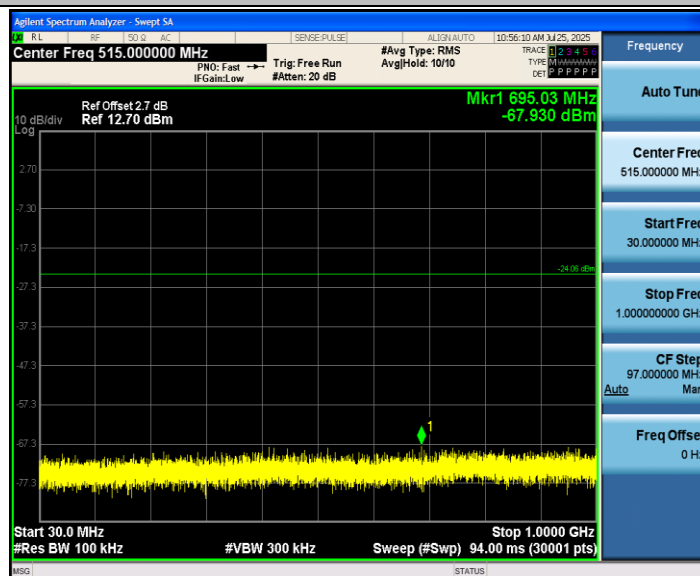




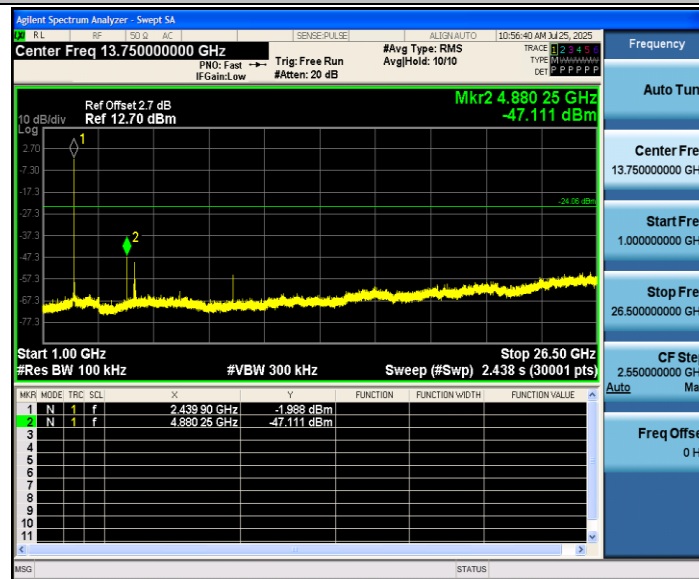
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



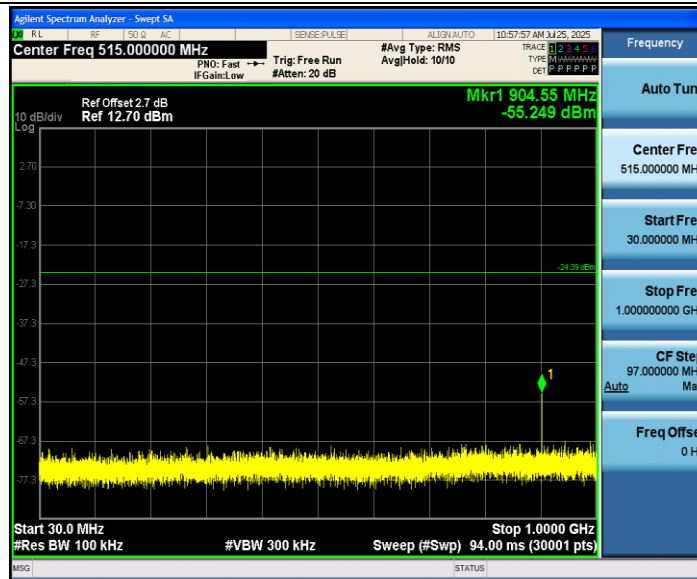
BLE_1M_Ant1_2440_1000~26500



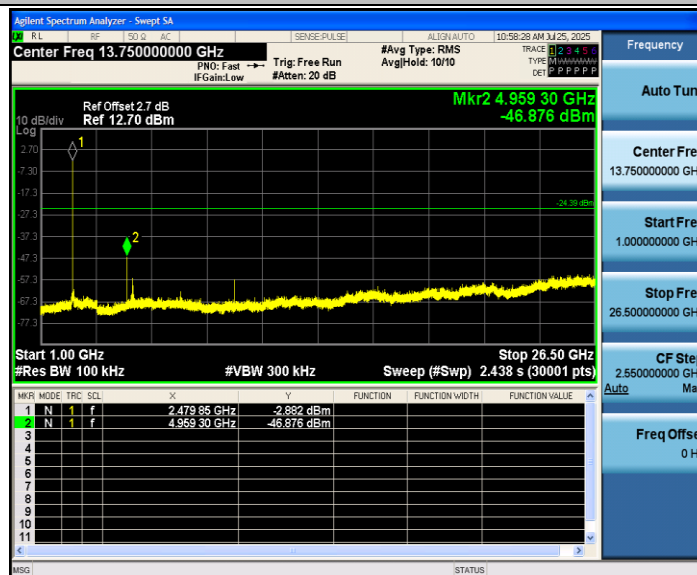
BLE_1M_Ant1_2480_0~Reference



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

