

FCC Appendix RF Test Data

FCC ID : 2BO7G-M8

Company: : Shenzhen Yiwei Technology Co., LTD

EUT : Wireless Earphone

Model Number : M8

Report No. : CTA25042903301

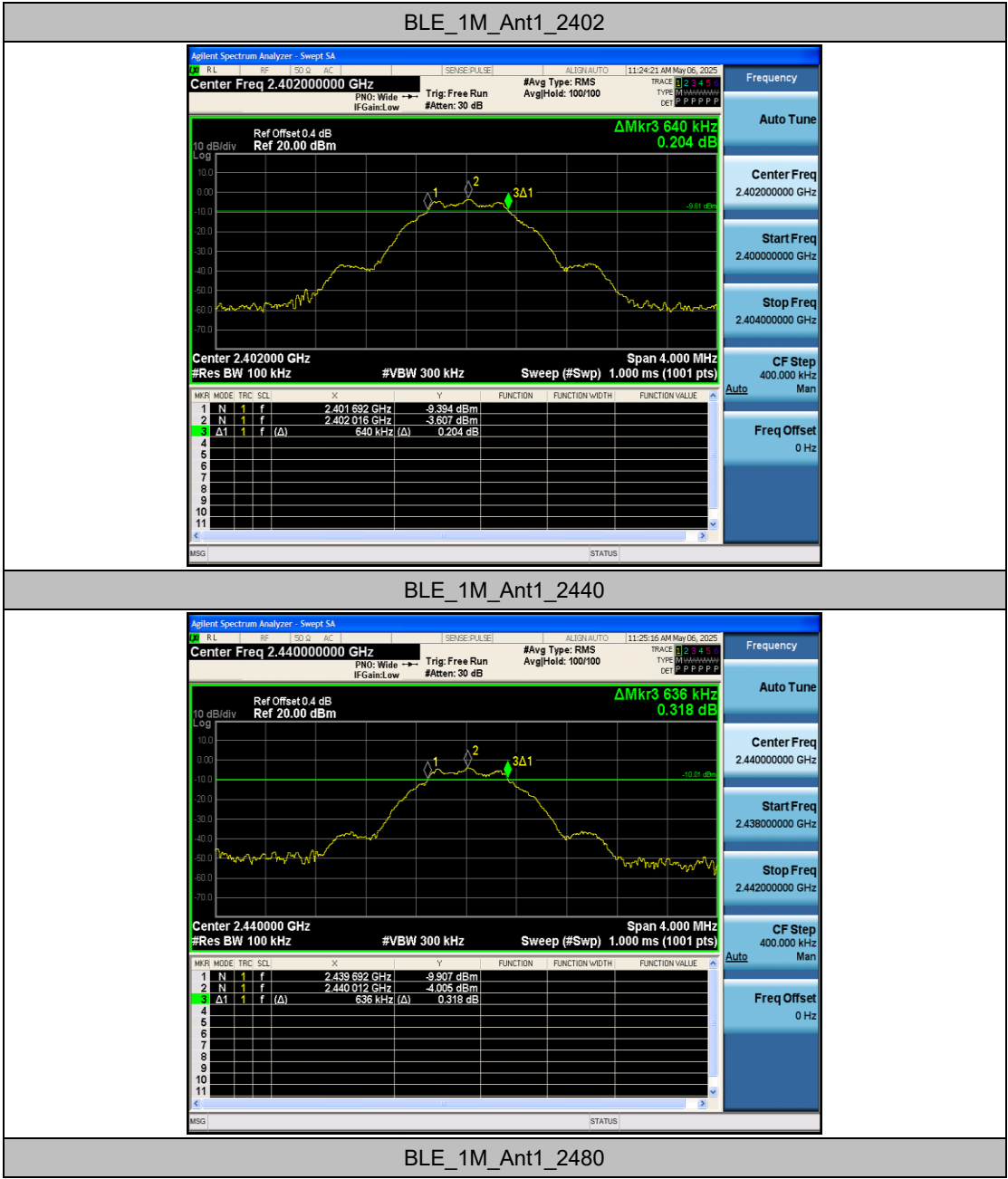
Reviewed By : Eric Wang

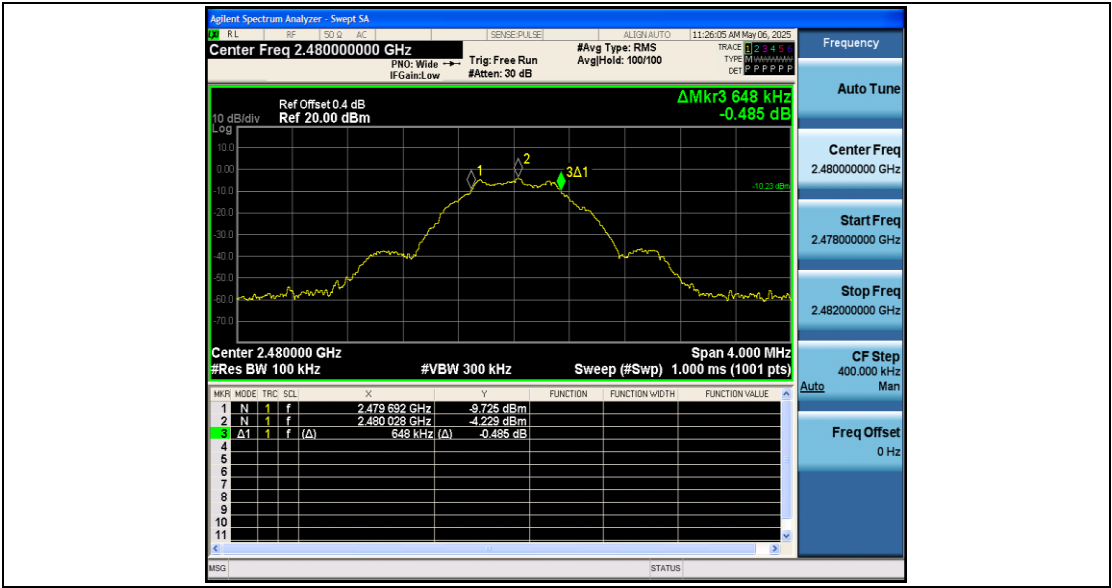
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.640	2401.692	2402.332	0.5	PASS
		2440	0.636	2439.692	2440.328	0.5	PASS
		2480	0.648	2479.692	2480.340	0.5	PASS

Test Graphs



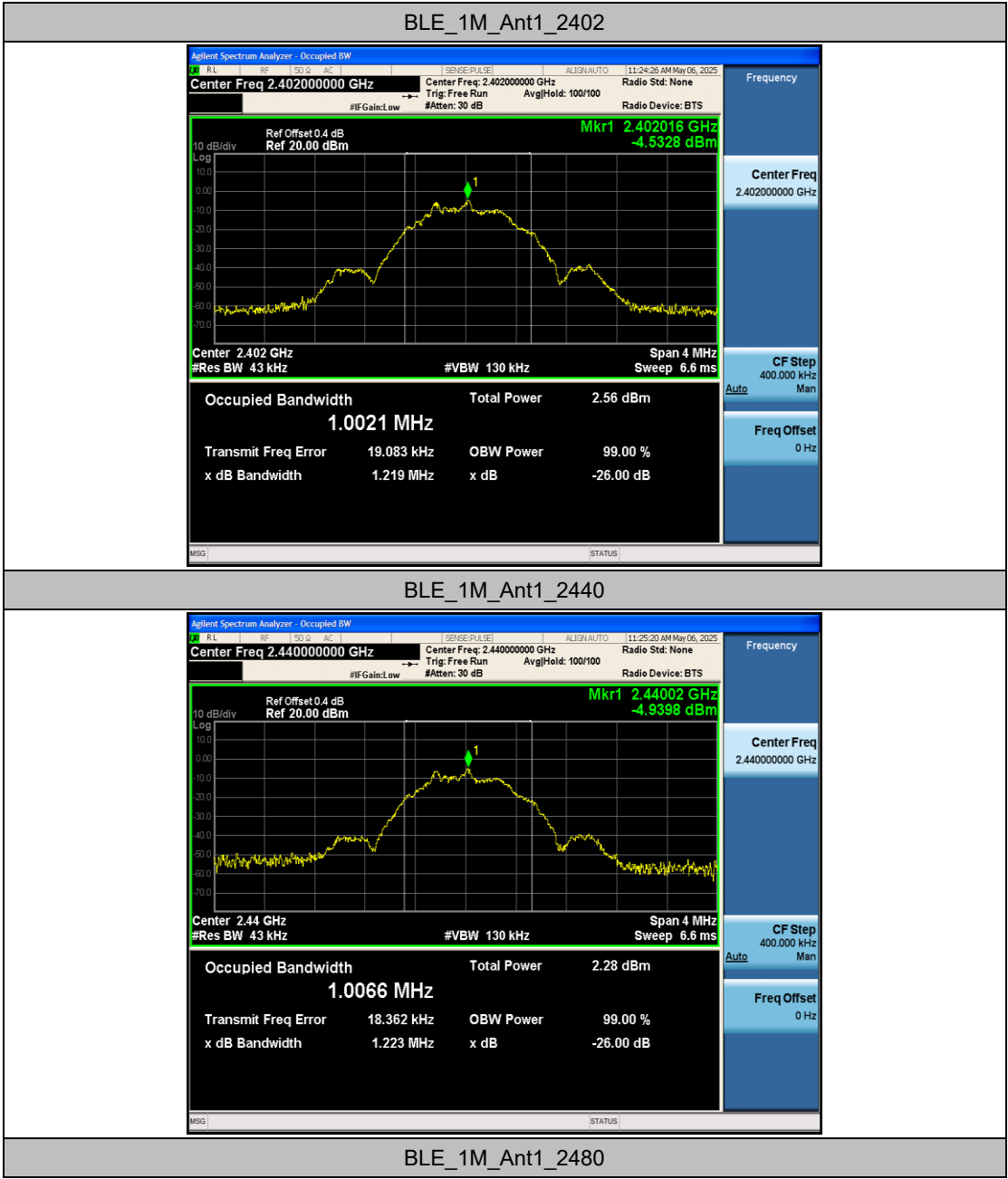


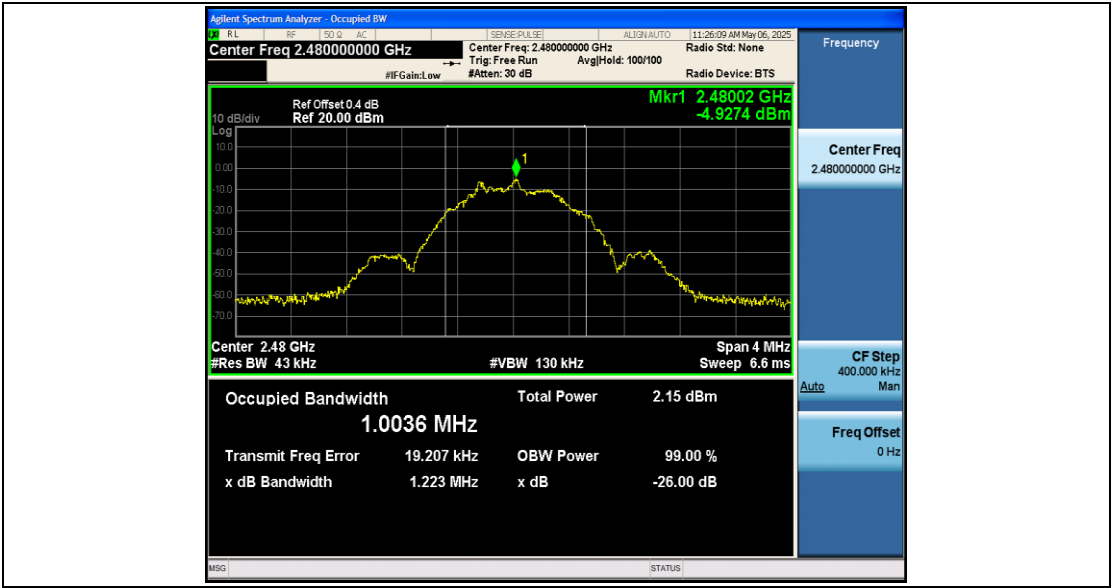
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0021	2401.5180	2402.5201	---	---
		2440	1.0066	2439.5151	2440.5217	---	---
		2480	1.0036	2479.5174	2480.5210	---	---

Test Graphs





Appendix C: Maximum conducted output power

Test Result Peak

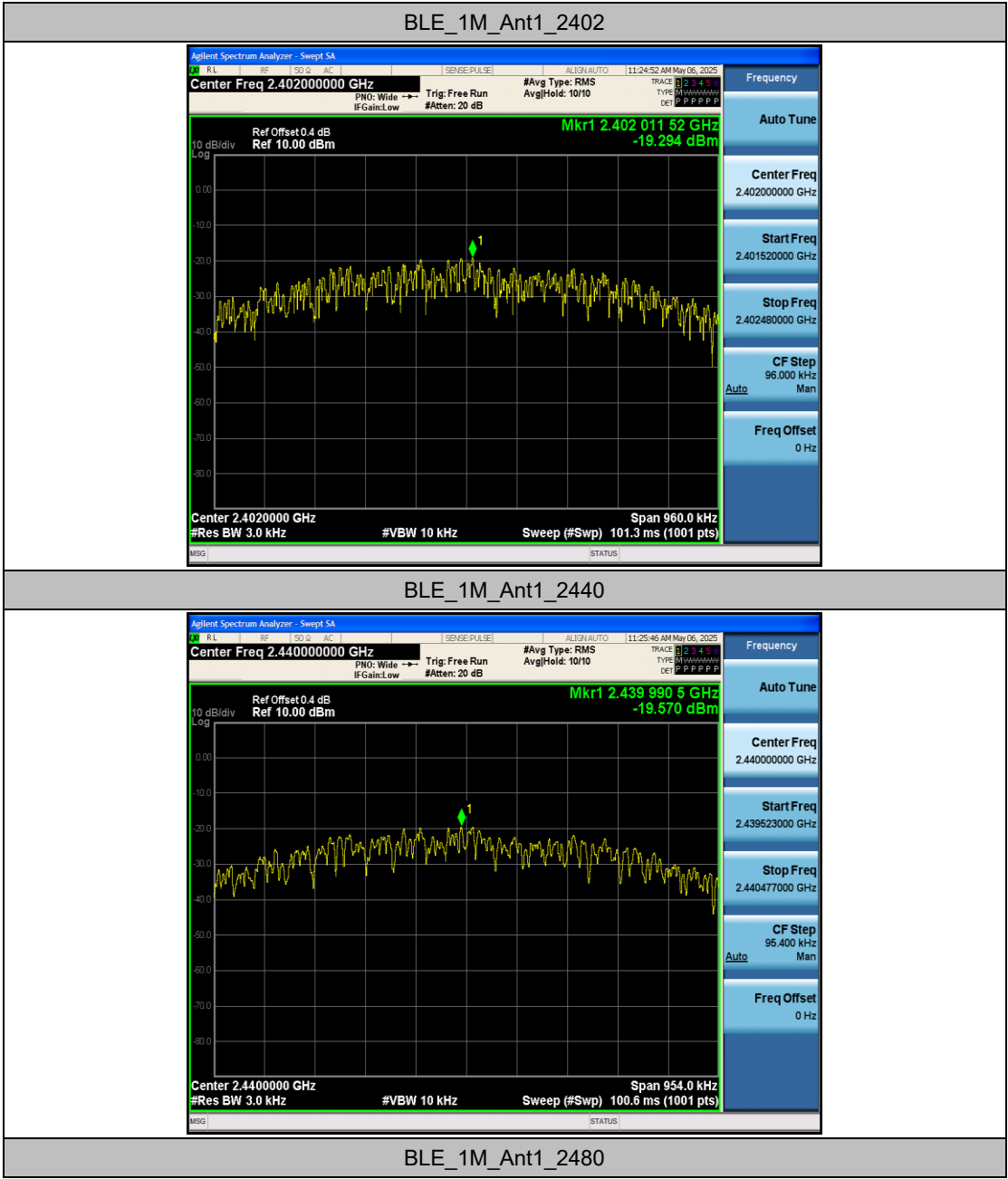
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-3.49	≤30	PASS
		2440	-3.77	≤30	PASS
		2480	-3.91	≤30	PASS

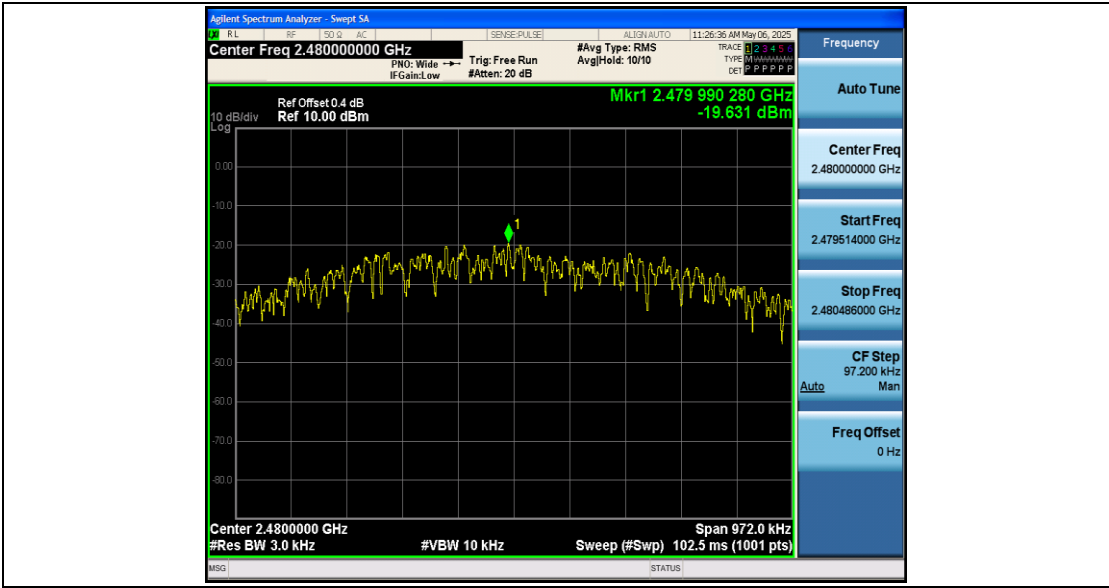
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-19.29	≤8.00	PASS
		2440	-19.57	≤8.00	PASS
		2480	-19.63	≤8.00	PASS

Test Graphs





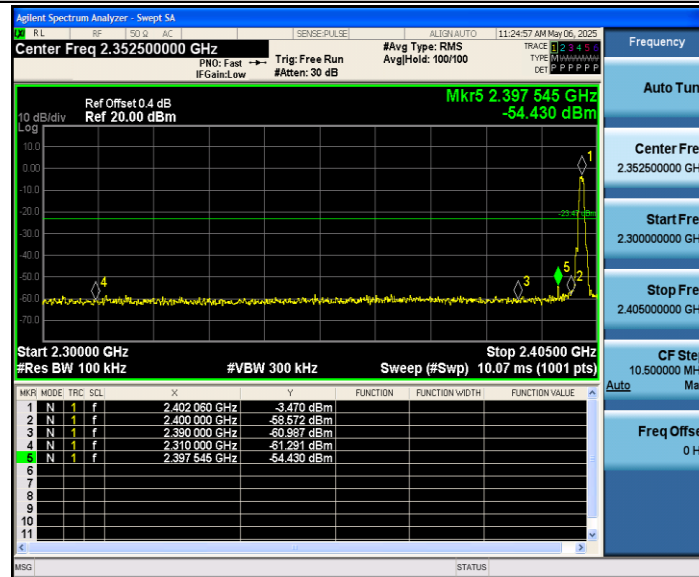
Appendix E: Band edge measurements

Test Result

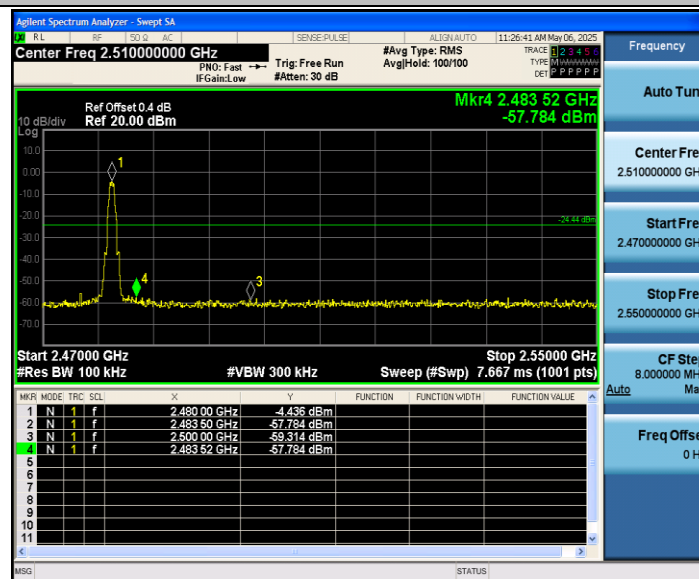
TestMod e	Antenn a	ChNam e	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
BLE_1M	Ant1	Low	2402	-3.47	-54.43	≤-23.47	PASS
		High	2480	-4.44	-57.78	≤-24.44	PASS

Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480

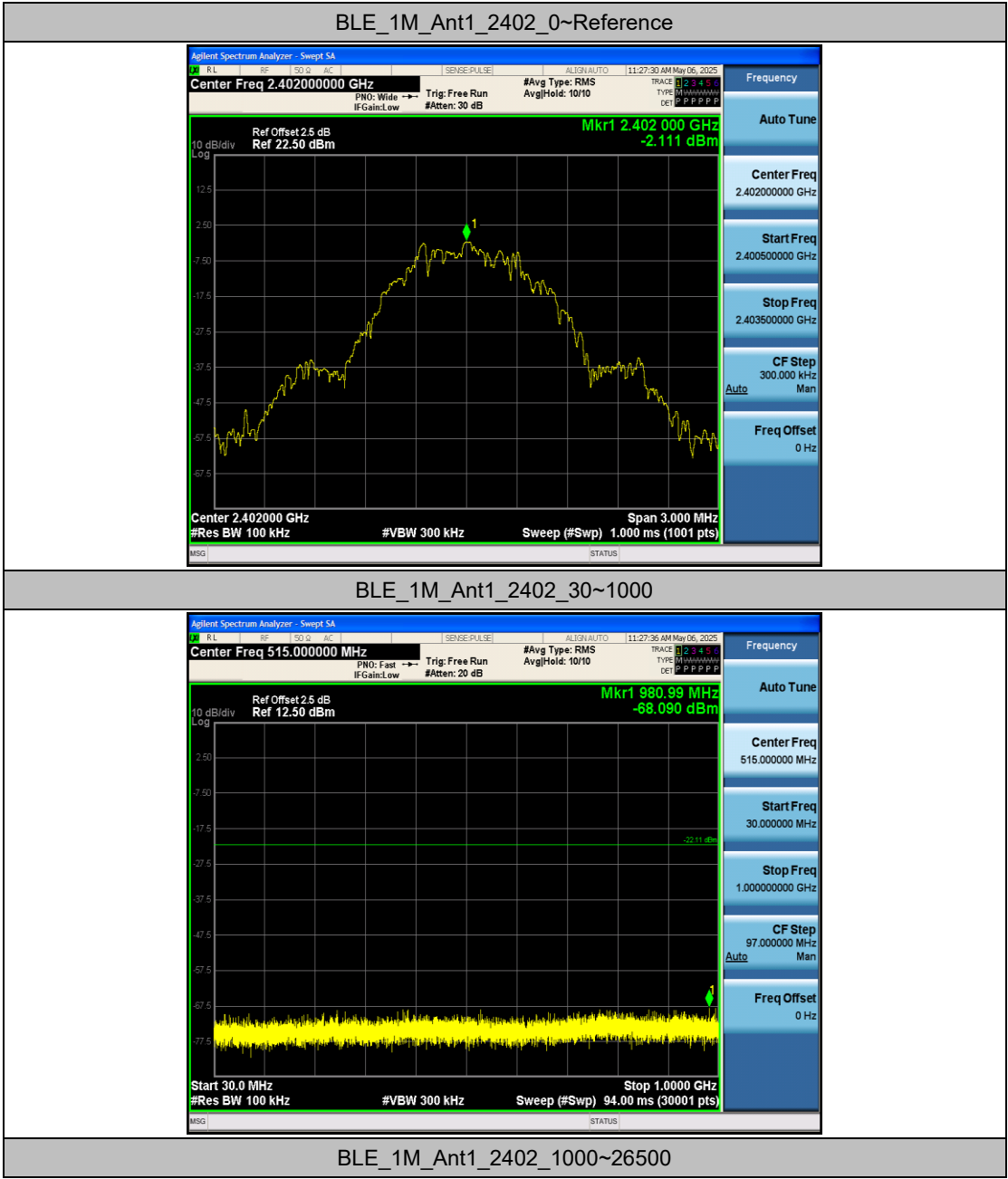


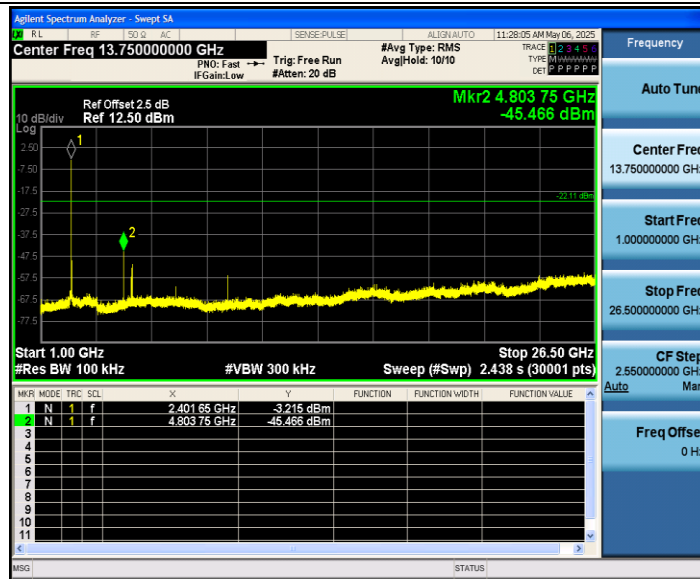
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-2.11	-2.11	---	PASS
			30~1000	-2.11	-68.09	≤-22.11	PASS
			1000~26500	-2.11	-45.47	≤-22.11	PASS
		2440	Reference	-2.54	-2.54	---	PASS
			30~1000	-2.54	-68.1	≤-22.54	PASS
			1000~26500	-2.54	-48.51	≤-22.54	PASS
		2480	Reference	-3.18	-3.18	---	PASS
			30~1000	-3.18	-66.88	≤-23.18	PASS
			1000~26500	-3.18	-48.02	≤-23.18	PASS

Test Graphs

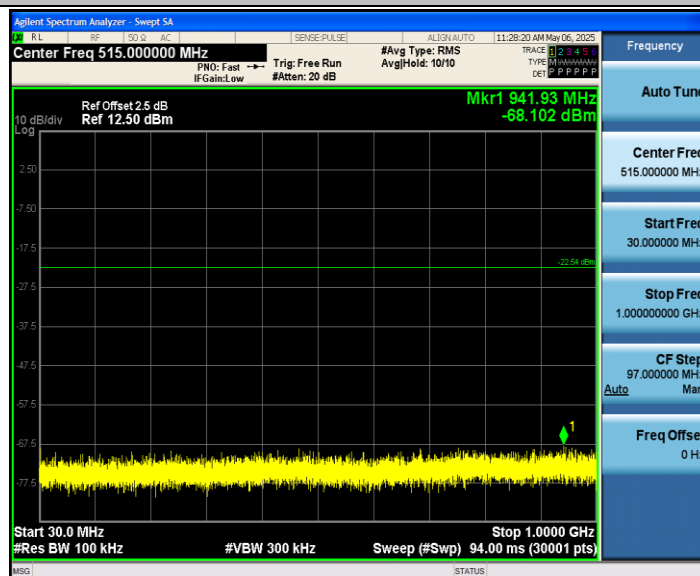




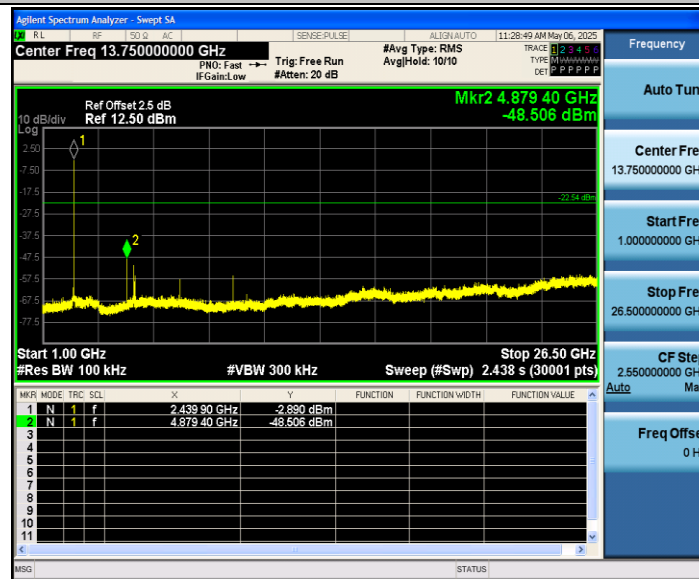
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



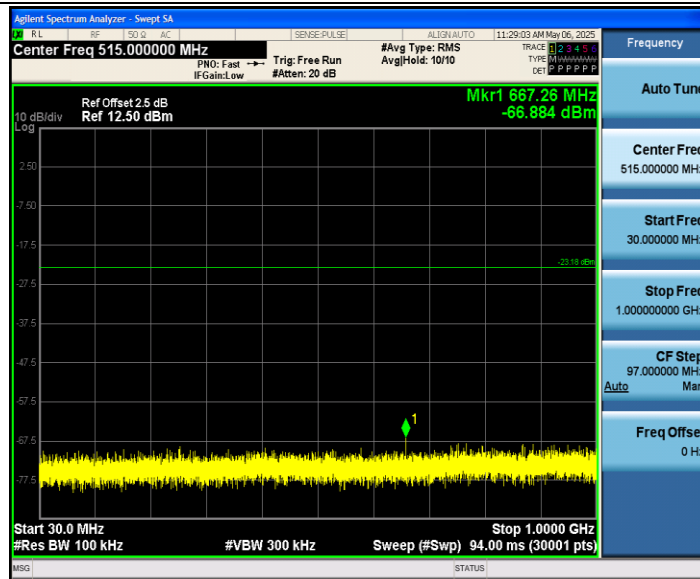
BLE_1M_Ant1_2440_1000~26500



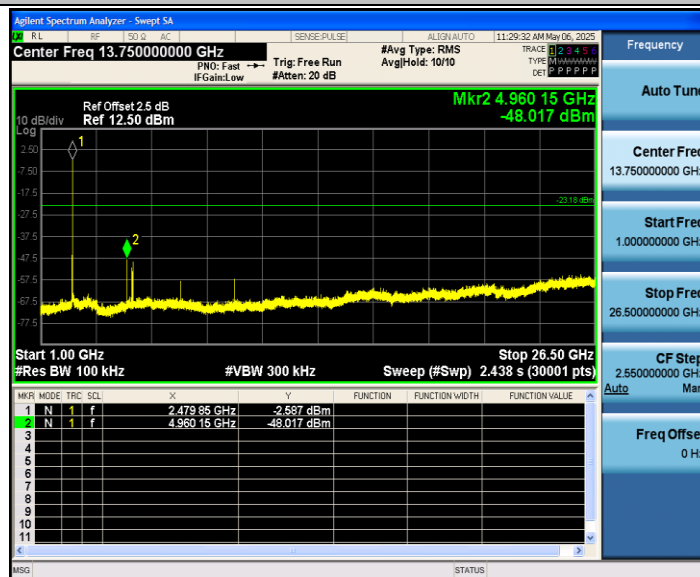
BLE_1M_Ant1_2480_0~Reference



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

