

FCC Appendix RF Test Data

FCC ID : 2BC3X-P6

Company: : Dongguan Langchen Technology Co.,Ltd.

EUT : Smart watch

Model Number : P6

Report No. : CTA25042701301

Reviewed By : Eric Wang

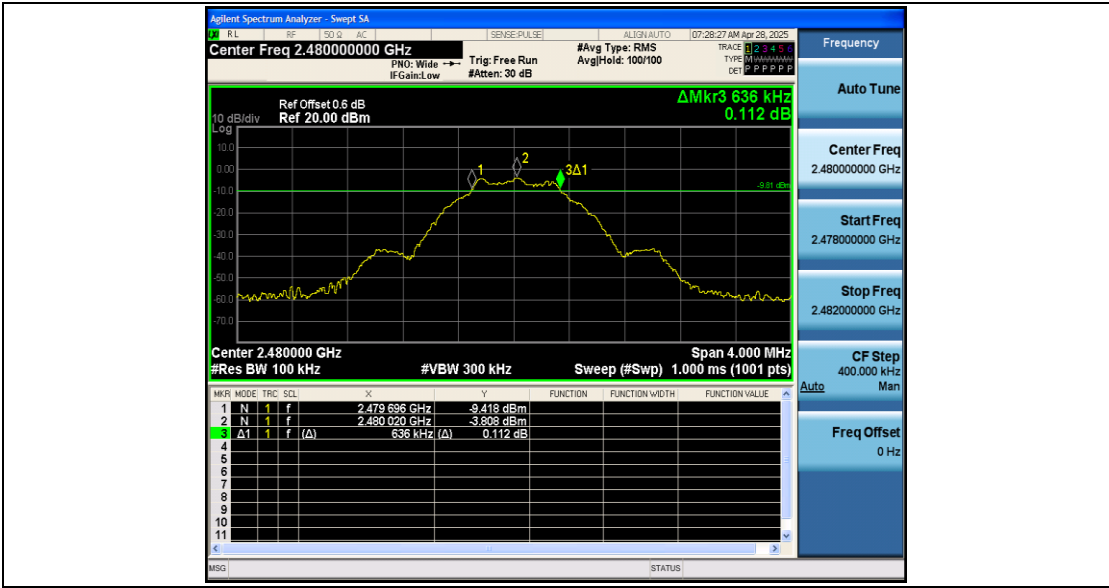
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.644	2401.696	2402.340	0.5	PASS
		2440	0.632	2439.696	2440.328	0.5	PASS
		2480	0.636	2479.696	2480.332	0.5	PASS

Test Graphs





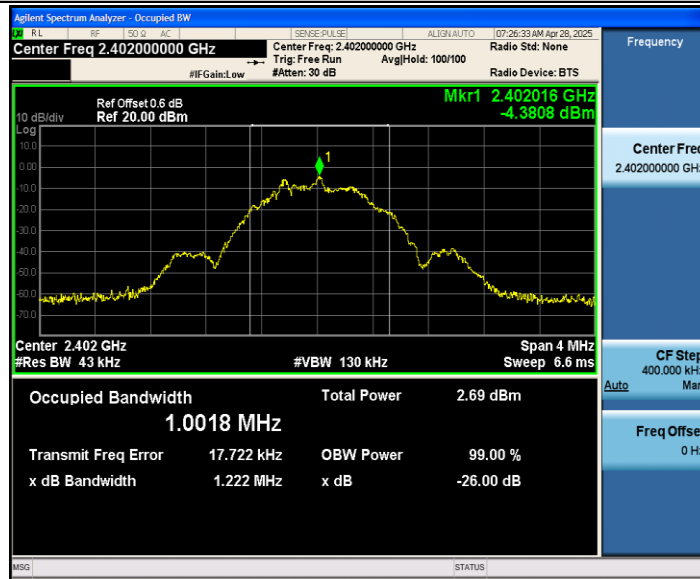
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0018	2401.5168	2402.5186	---	---
		2440	1.0085	2439.5148	2440.5233	---	---
		2480	1.0057	2479.5170	2480.5227	---	---

Test Graphs

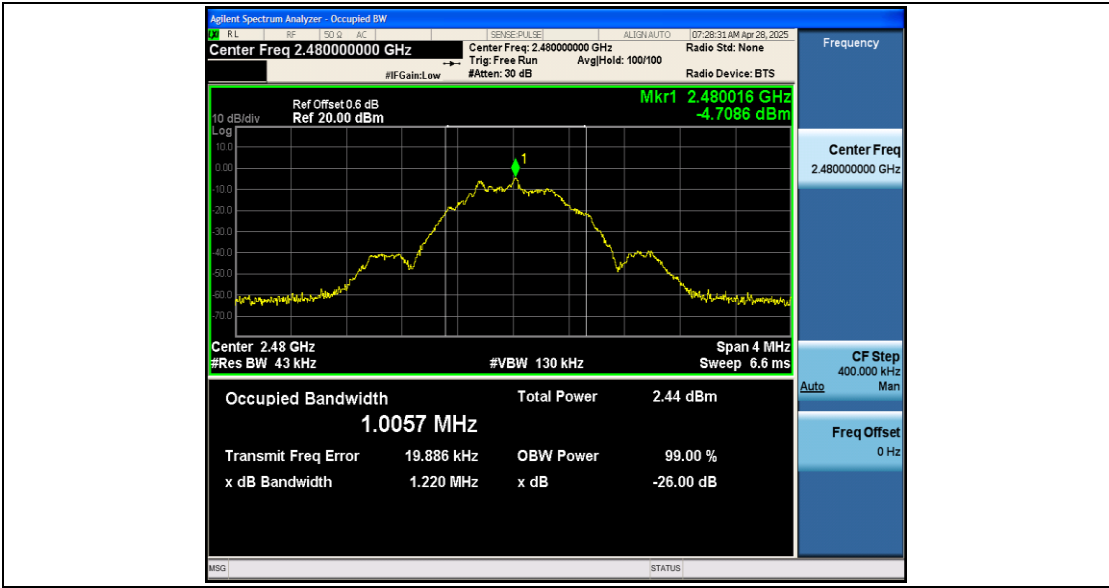
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

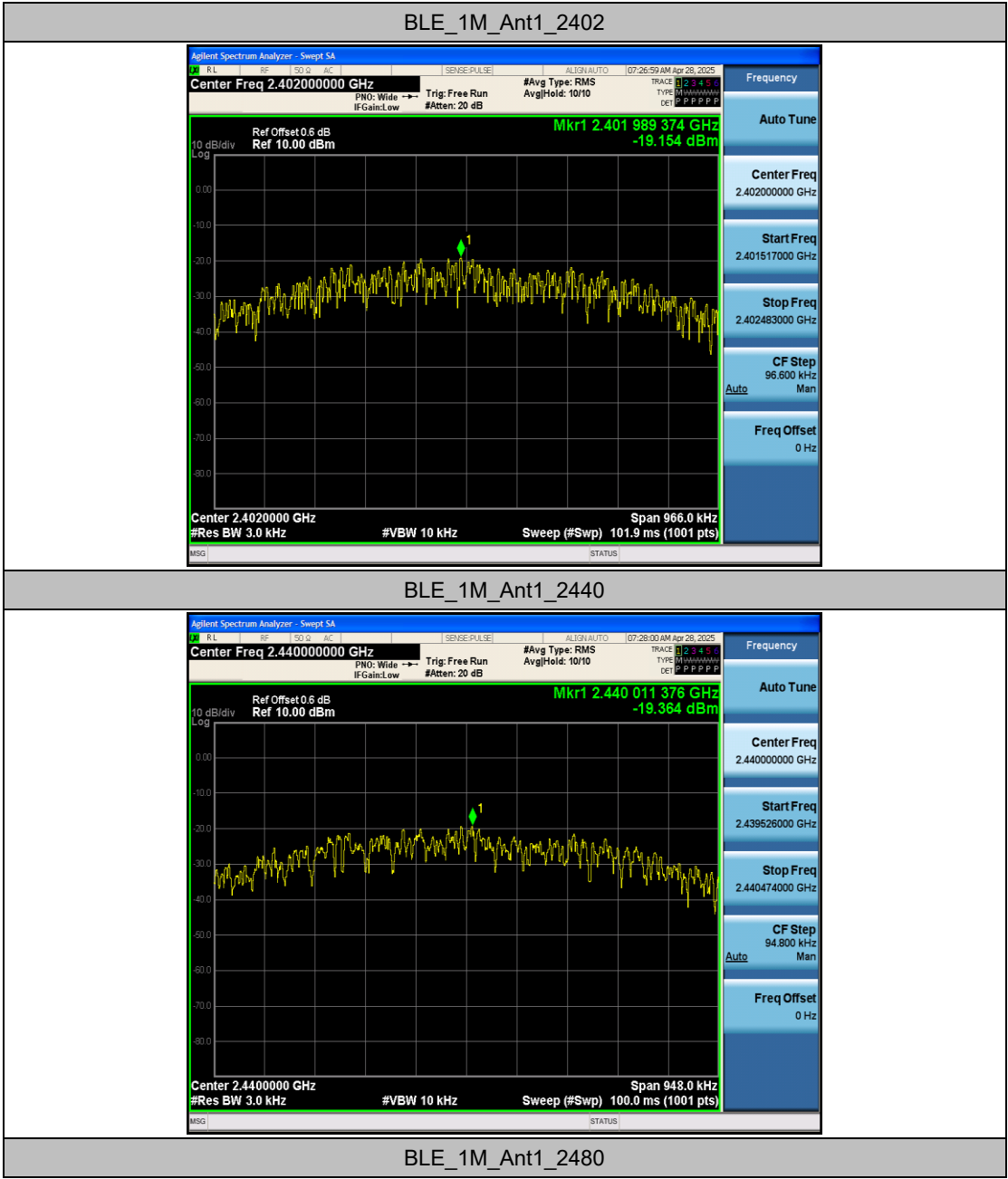
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-3.32	≤30	PASS
		2440	-3.65	≤30	PASS
		2480	-3.69	≤30	PASS

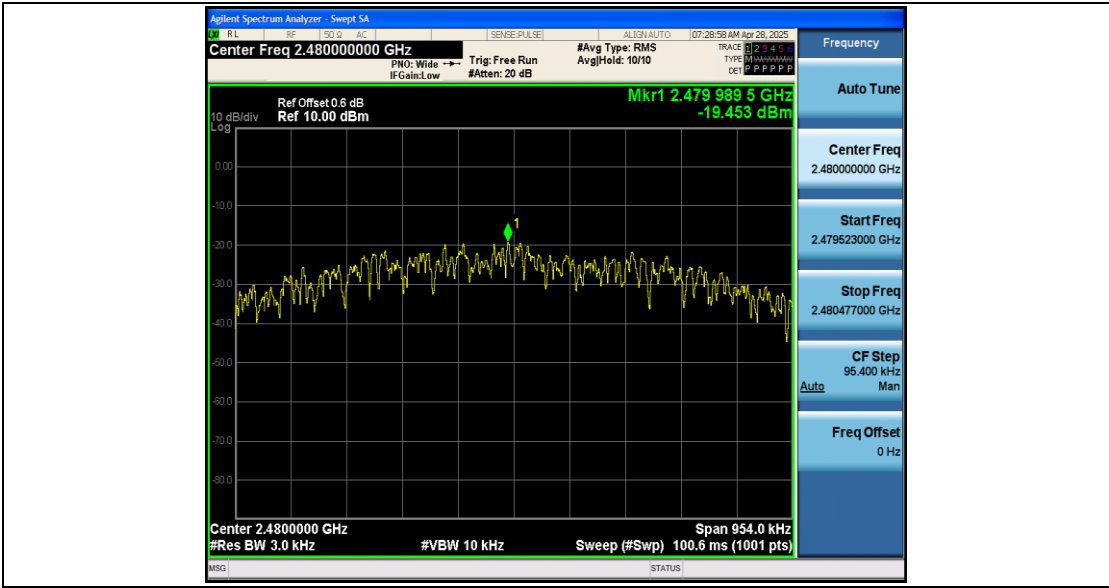
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-19.15	≤8.00	PASS
		2440	-19.36	≤8.00	PASS
		2480	-19.45	≤8.00	PASS

Test Graphs



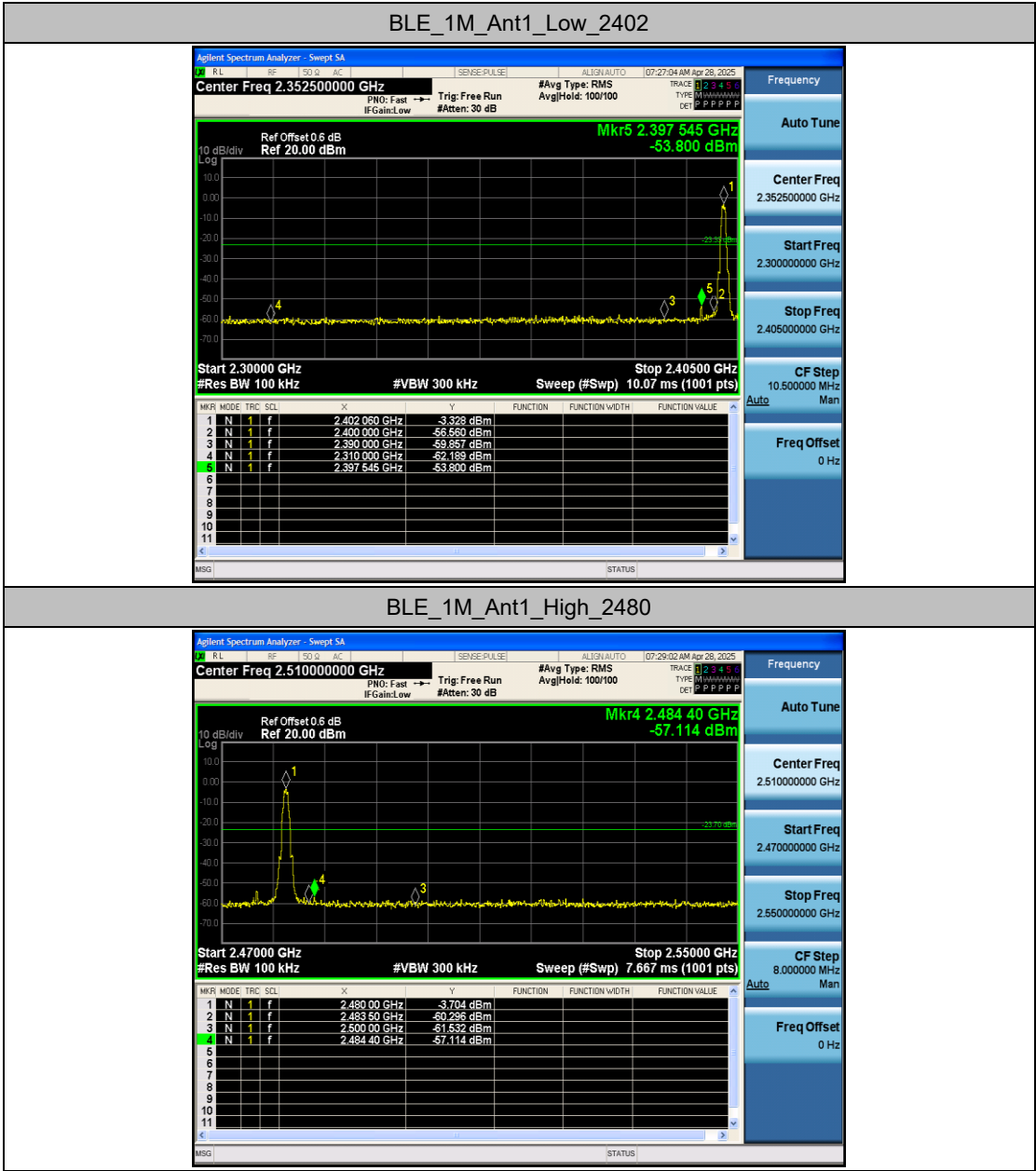


Appendix E: Band edge measurements

Test Result

TestMod e	Antenn a	ChNam e	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
BLE_1M	Ant1	Low	2402	-3.33	-53.8	≤ -23.33	PASS
		High	2480	-3.70	-57.11	≤ -23.7	PASS

Test Graphs

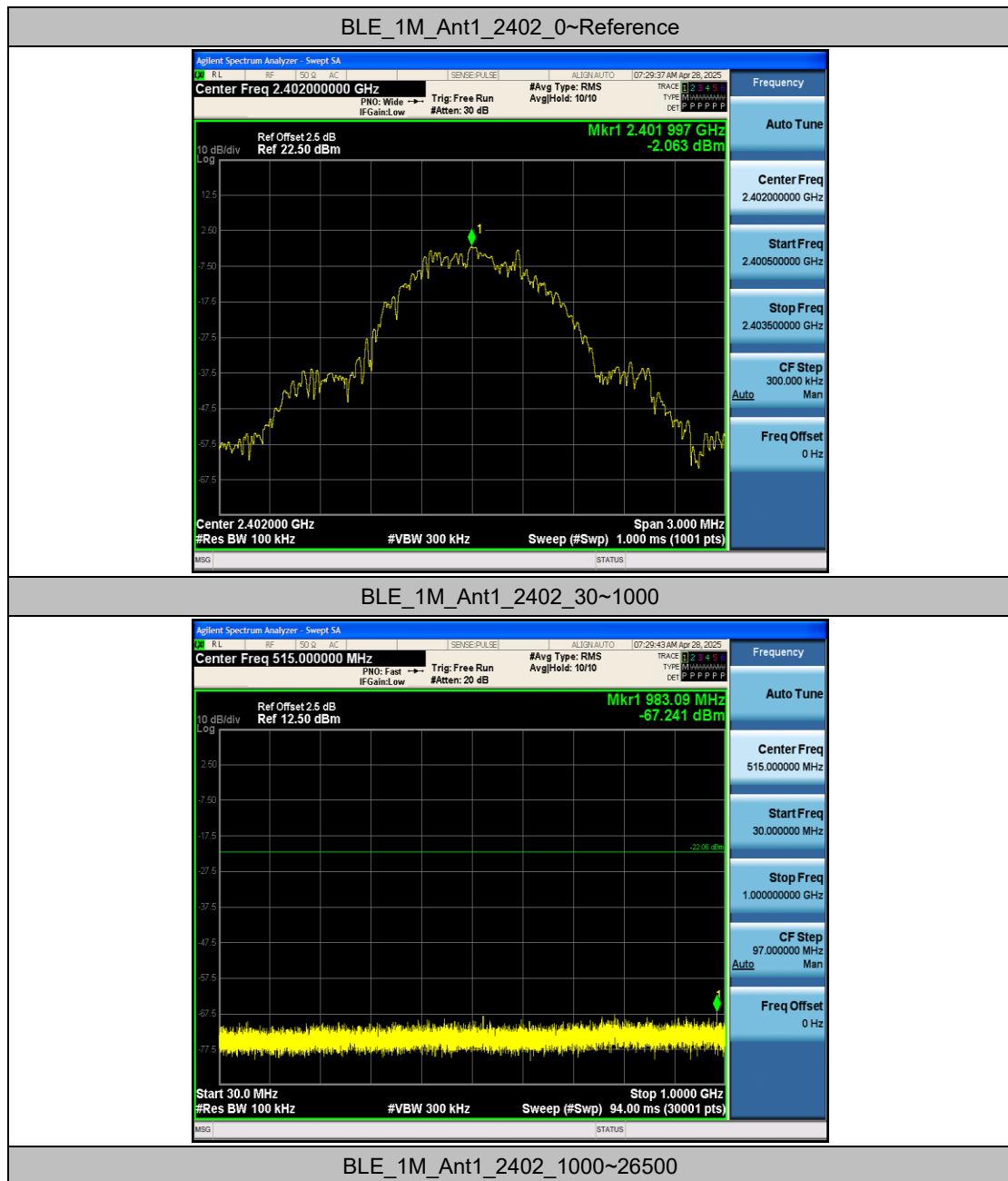


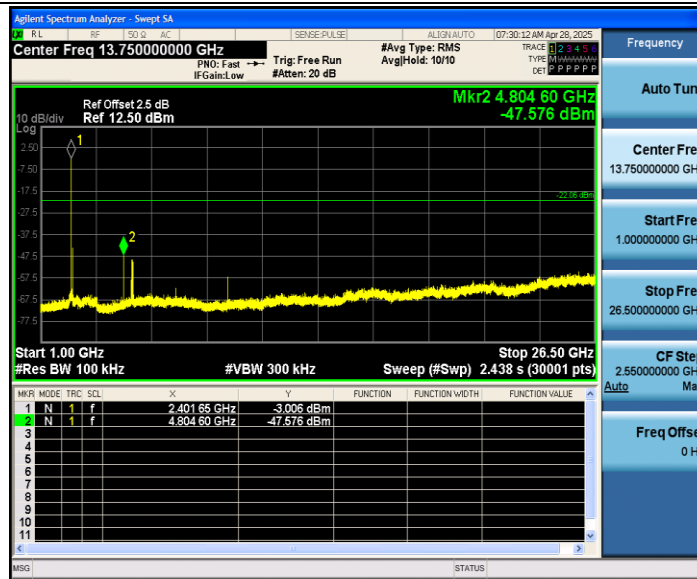
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-2.06	-2.06	---	PASS
			30~1000	-2.06	-67.24	≤-22.06	PASS
			1000~26500	-2.06	-47.58	≤-22.06	PASS
		2440	Reference	-2.12	-2.12	---	PASS
			30~1000	-2.12	-67.68	≤-22.12	PASS
			1000~26500	-2.12	-48.73	≤-22.12	PASS
		2480	Reference	-2.85	-2.85	---	PASS
			30~1000	-2.85	-67.16	≤-22.85	PASS
			1000~26500	-2.85	-48.08	≤-22.85	PASS

Test Graphs

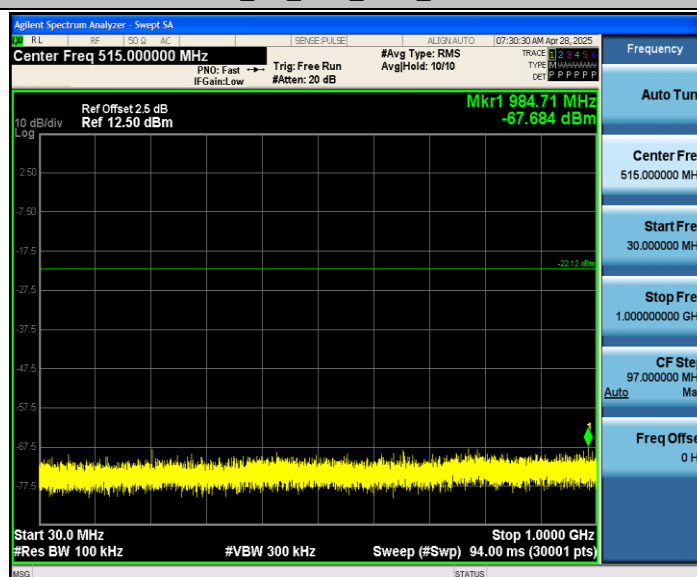




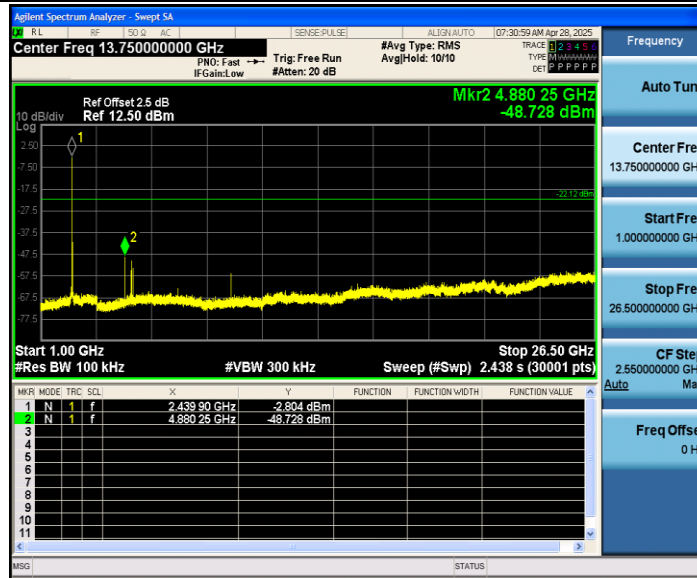
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



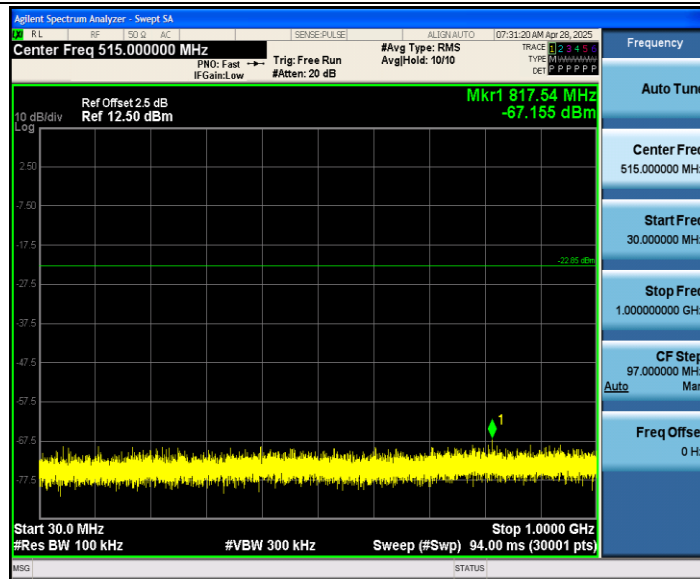
BLE_1M_Ant1_2440_1000~26500



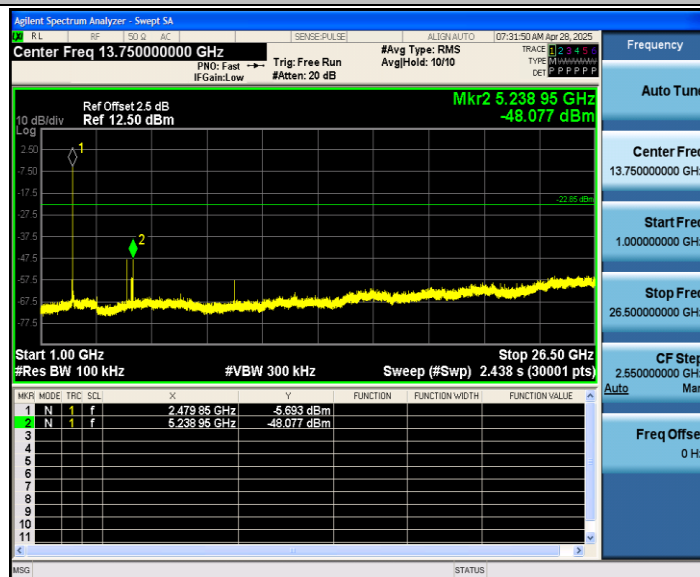
BLE_1M_Ant1_2480_0~Reference



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

