

FCC Appendix RF Test Data for BLE

FCC ID : 2AUCA-808-4X

Company : 8 Limited

EUT : 8 inch Touchscreen Controller

Model Number : 808-4x

Report No. : CTA25090501001

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	2401.660	2402.324	0.5	PASS
		2440	0.636	2439.688	2440.324	0.5	PASS
		2480	0.640	2479.680	2480.320	0.5	PASS

Test Graphs



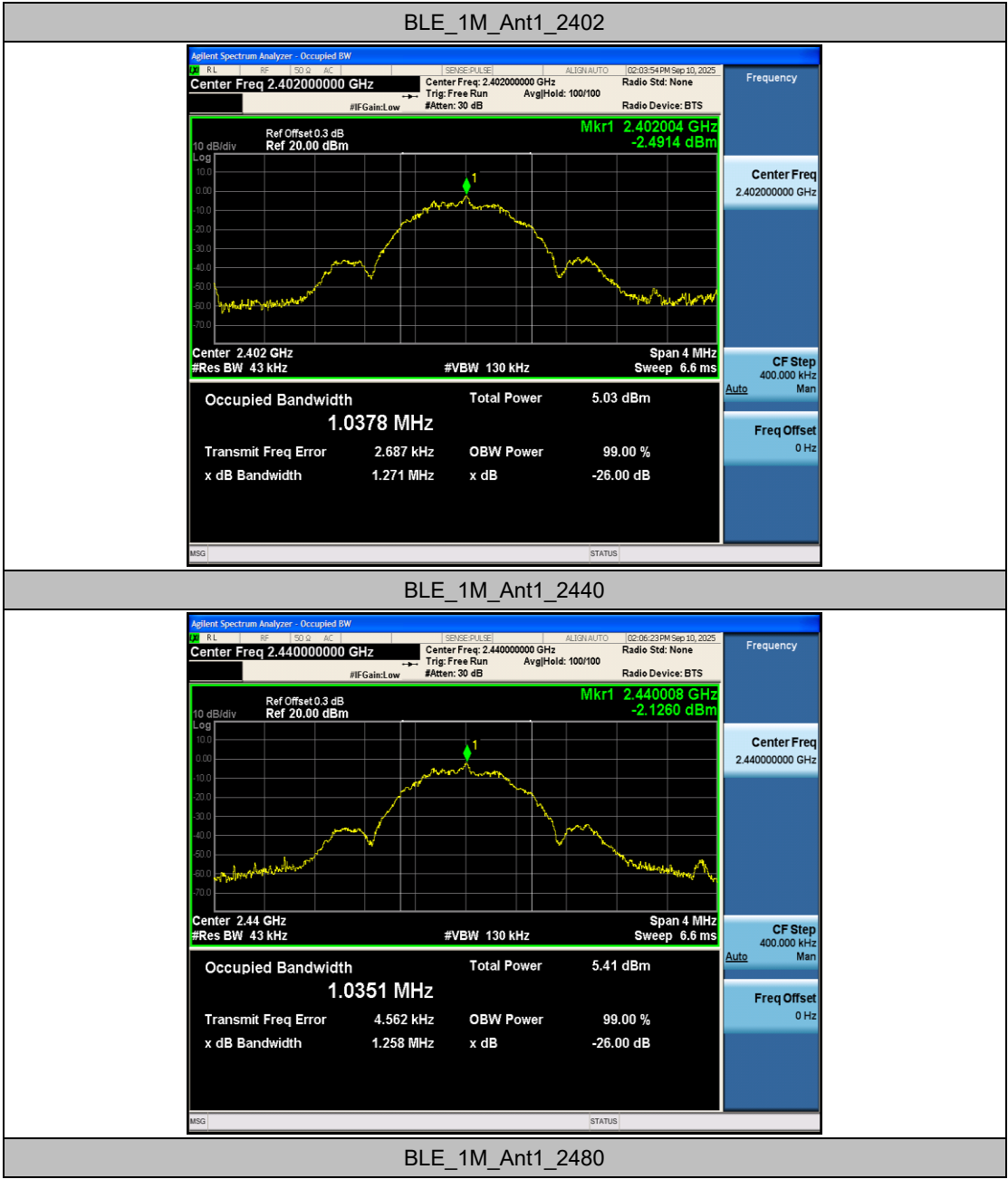


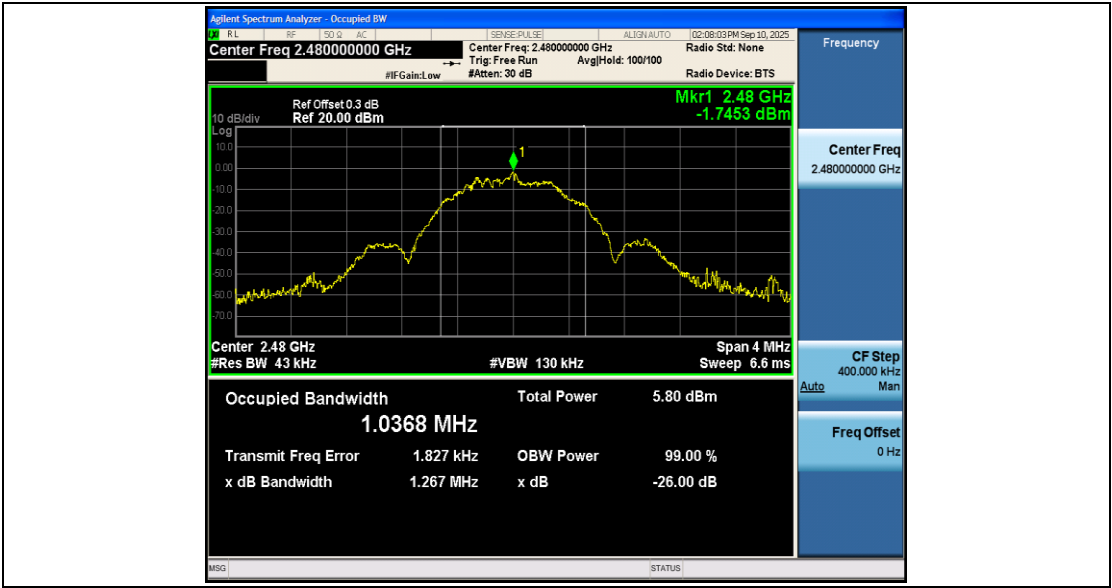
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0378	2401.4838	2402.5216	---	---
		2440	1.0351	2439.4870	2440.5221	---	---
		2480	1.0368	2479.4834	2480.5202	---	---

Test Graphs





Appendix C: Maximum conducted output power

Test Result Peak

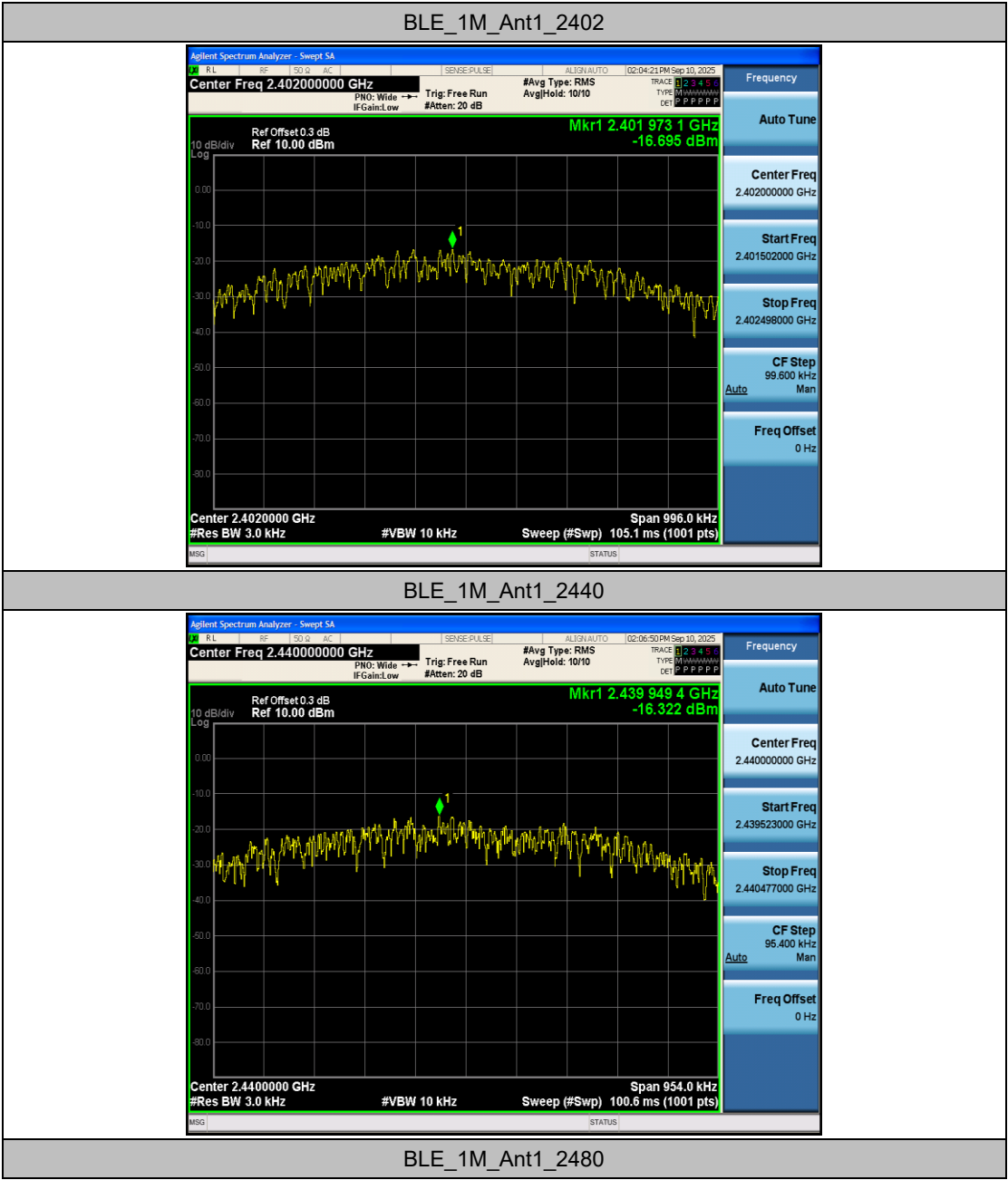
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-1.15	≤30	PASS
		2440	-0.80	≤30	PASS
		2480	-0.41	≤30	PASS

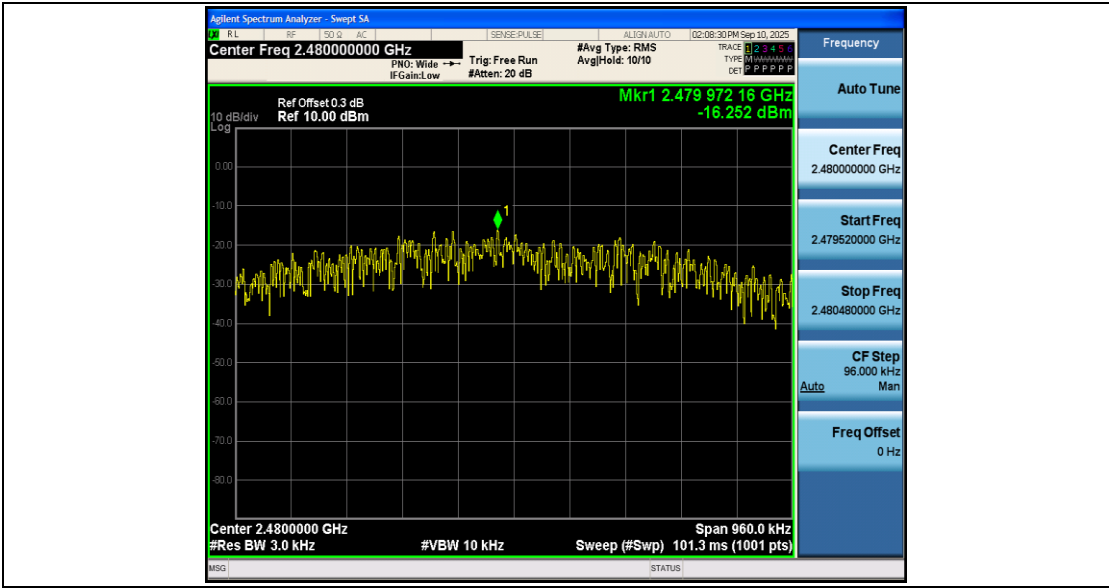
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-16.70	≤8.00	PASS
		2440	-16.32	≤8.00	PASS
		2480	-16.25	≤8.00	PASS

Test Graphs





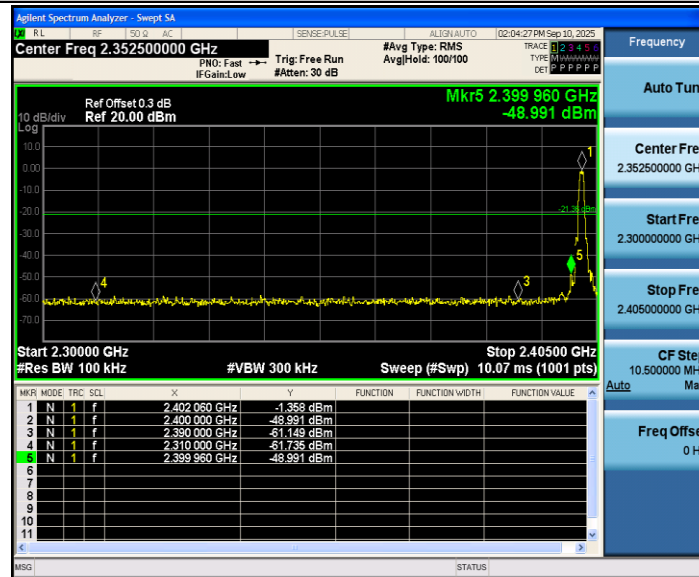
Appendix E: Band edge measurements

Test Result

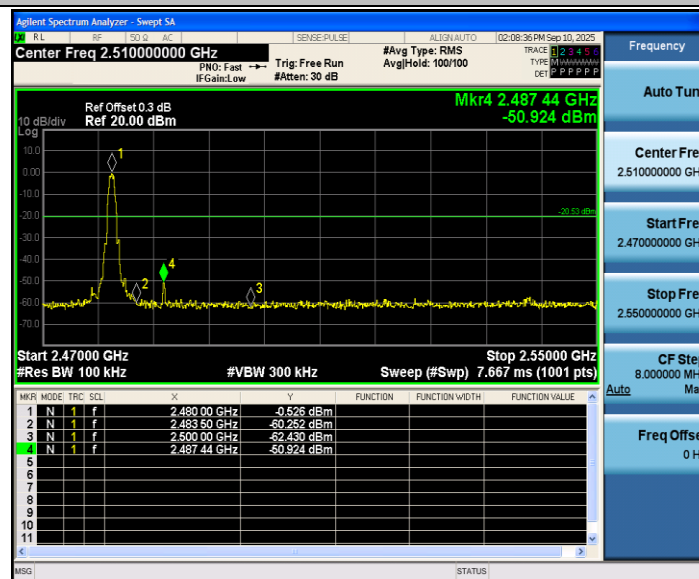
TestMod e	Antenn a	ChNam e	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
BLE_1M	Ant1	Low	2402	-1.36	-48.99	≤-21.36	PASS
		High	2480	-0.53	-50.92	≤-20.53	PASS

Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480

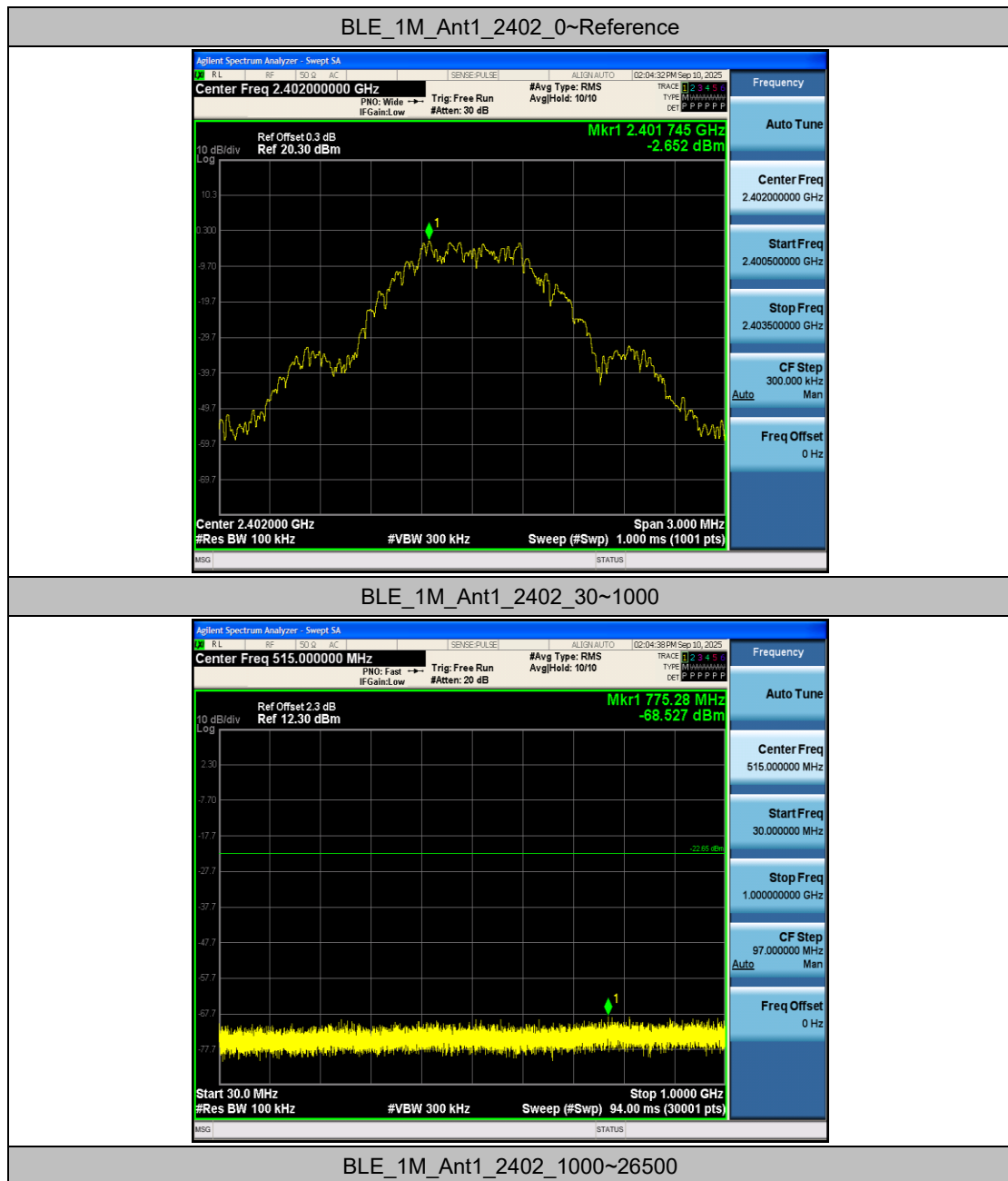


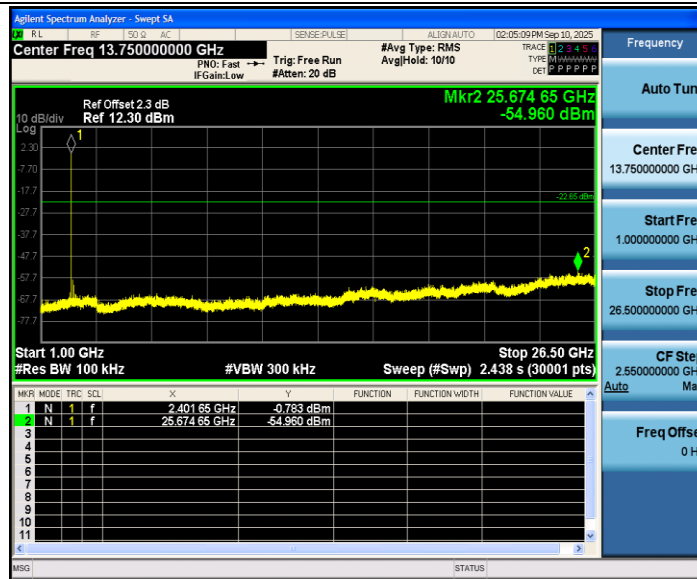
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-2.65	-2.65	---	PASS
			30~1000	-2.65	-68.53	≤-22.65	PASS
			1000~26500	-2.65	-54.96	≤-22.65	PASS
		2440	Reference	-2.25	-2.25	---	PASS
			30~1000	-2.25	-67.89	≤-22.25	PASS
			1000~26500	-2.25	-55.06	≤-22.25	PASS
		2480	Reference	-2.09	-2.09	---	PASS
			30~1000	-2.09	-67.75	≤-22.09	PASS
			1000~26500	-2.09	-55.35	≤-22.09	PASS

Test Graphs

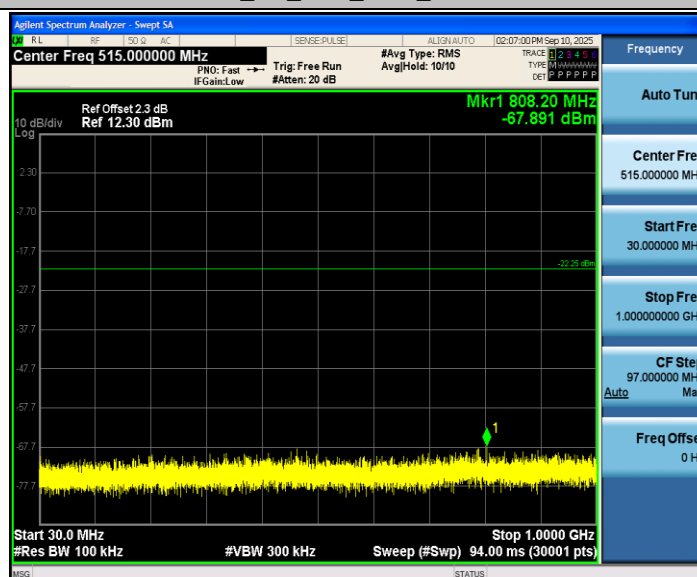




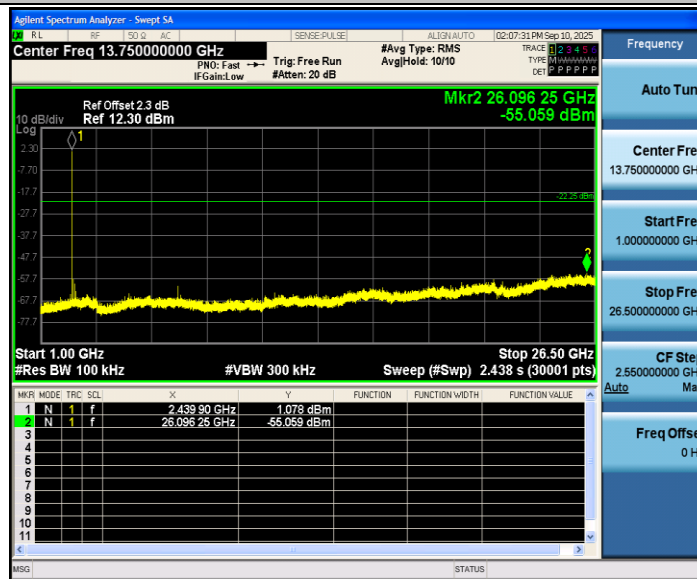
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



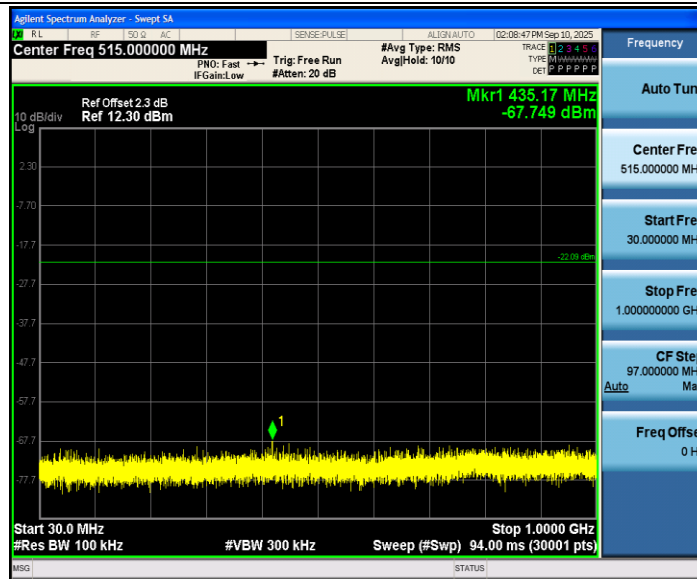
BLE_1M_Ant1_2440_1000~26500



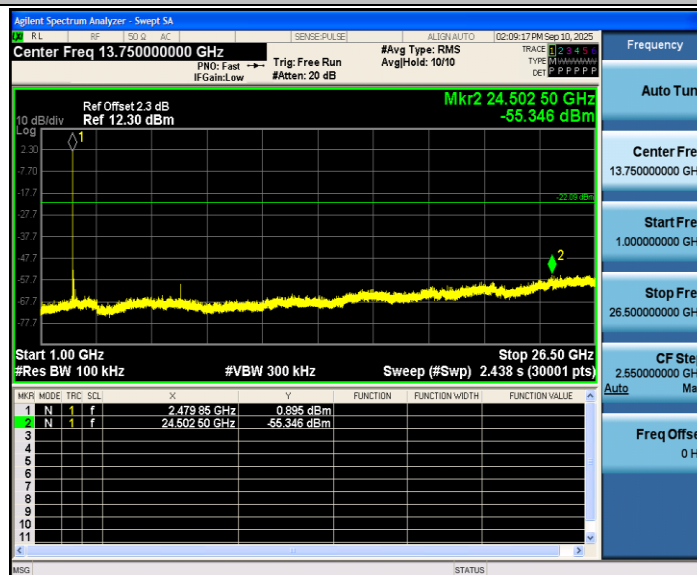
BLE_1M_Ant1_2480_0~Reference



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	0.39	0.62	0.6290	62.90	2.01	---	---
		2440	0.39	0.62	0.6290	62.90	2.01	---	---
		2480	0.39	0.62	0.6290	62.90	2.01	---	---

Test Graphs

