

FCC Appendix RF Test Data

FCC ID : 2BPBL-RCHR4031943

Company: : NIGHT OWL CO., LIMITED

EUT : remote control

Model Number : HR4031943

Report No. : CTA25042700901

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	0.640	2439.696	2440.336	0.5	PASS
		2480	0.656	2479.688	2480.344	0.5	PASS

Test Graphs



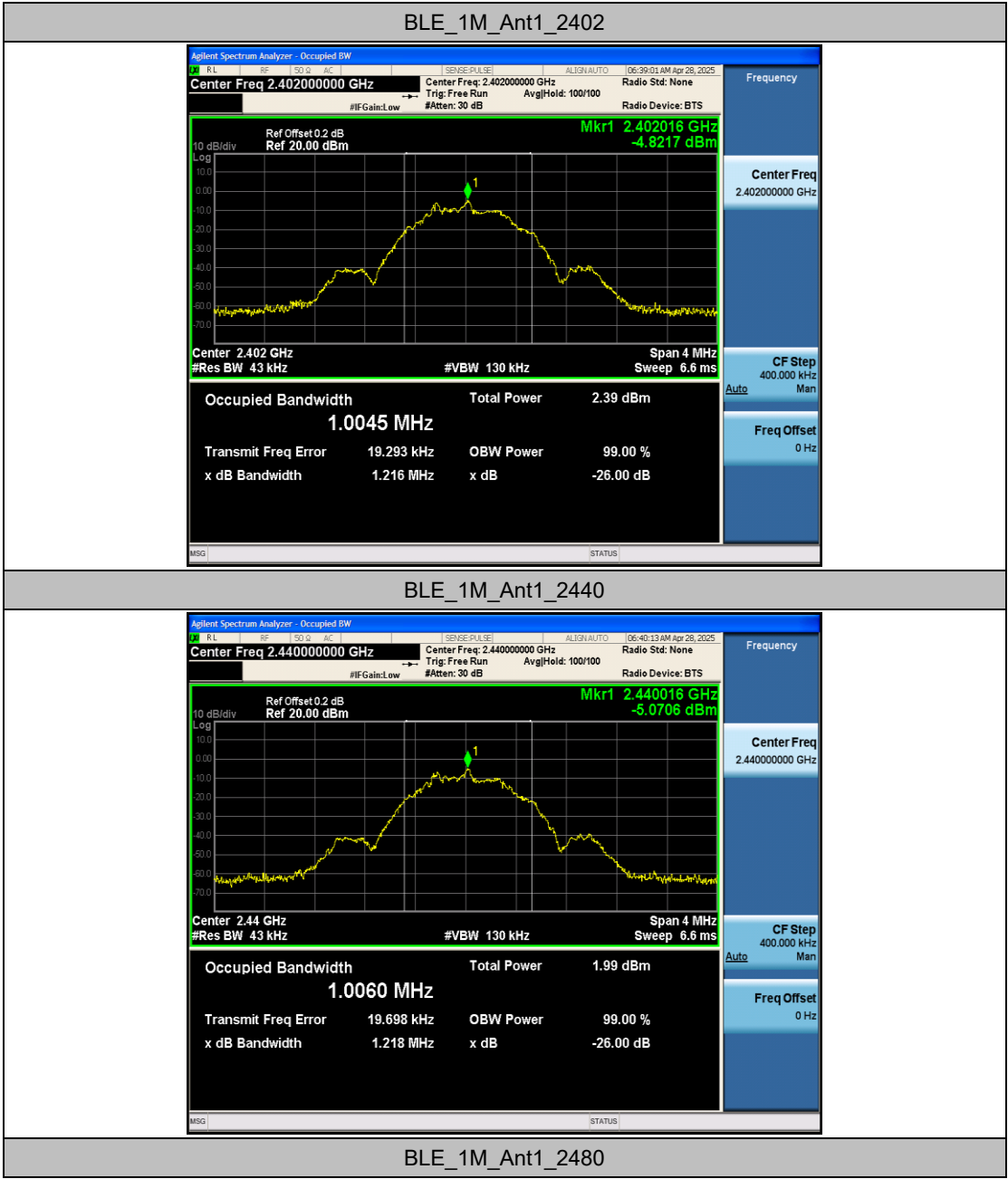


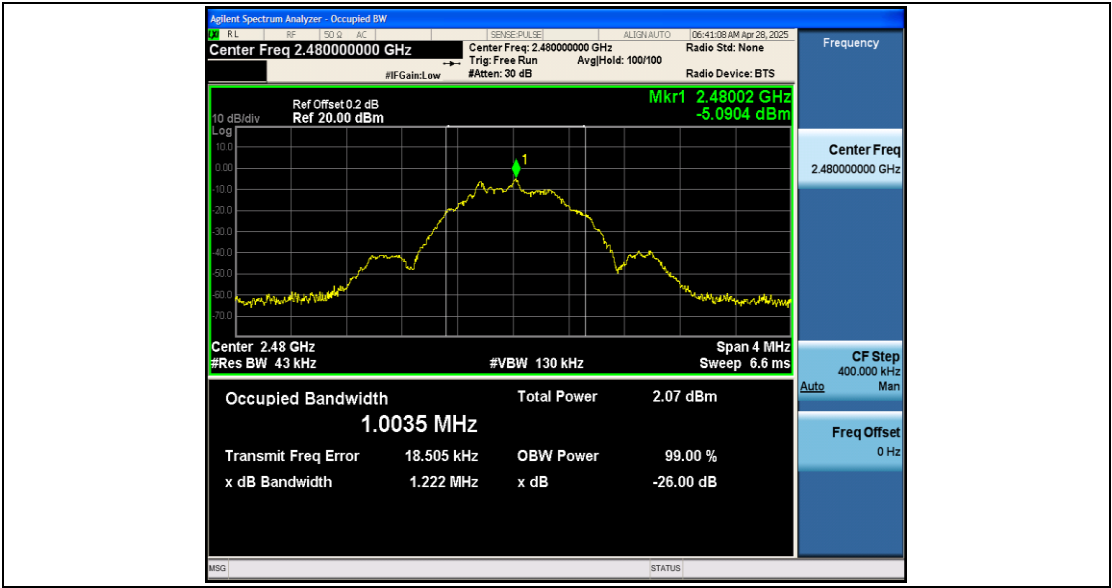
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0045	2401.5170	2402.5215	---	---
		2440	1.0060	2439.5167	2440.5227	---	---
		2480	1.0035	2479.5168	2480.5203	---	---

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	-3.74	≤30	PASS
		2440	-4.05	≤30	PASS
		2480	-4.09	≤30	PASS

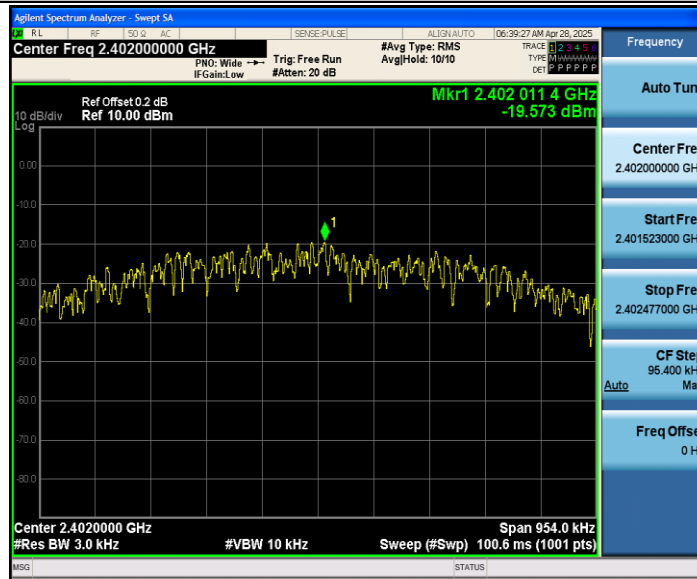
Appendix D: Maximum power spectral density

Test Result

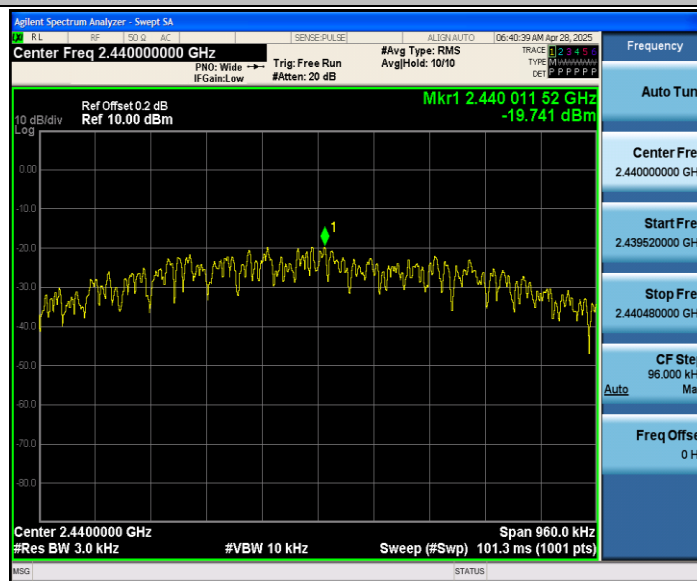
TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-19.57	≤8.00	PASS
		2440	-19.74	≤8.00	PASS
		2480	-19.91	≤8.00	PASS

Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



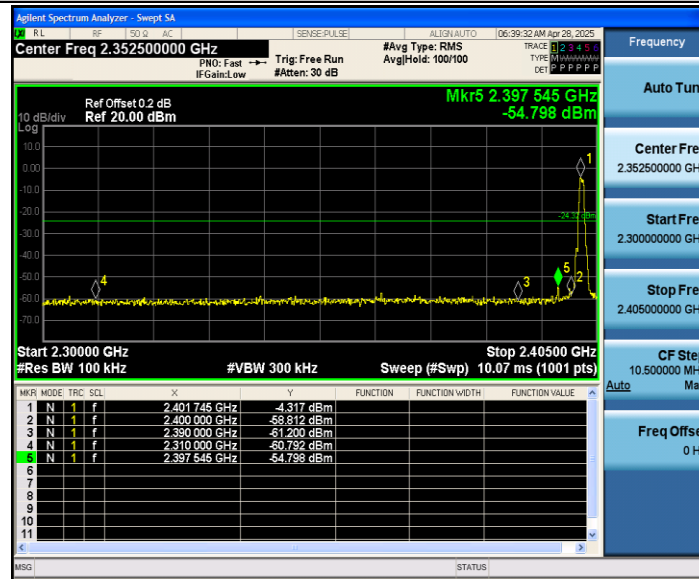
Appendix E: Band edge measurements

Test Result

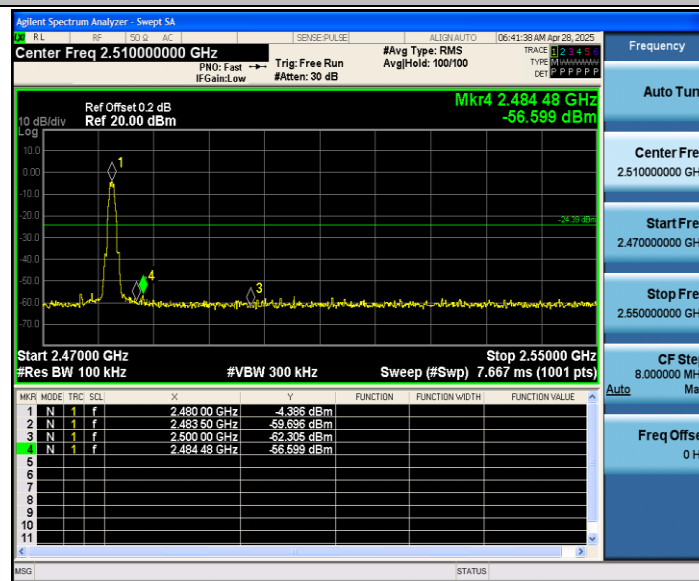
TestMod e	Antenn a	ChNam e	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
BLE_1M	Ant1	Low	2402	-4.32	-54.8	≤-24.32	PASS
		High	2480	-4.39	-56.6	≤-24.39	PASS

Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480

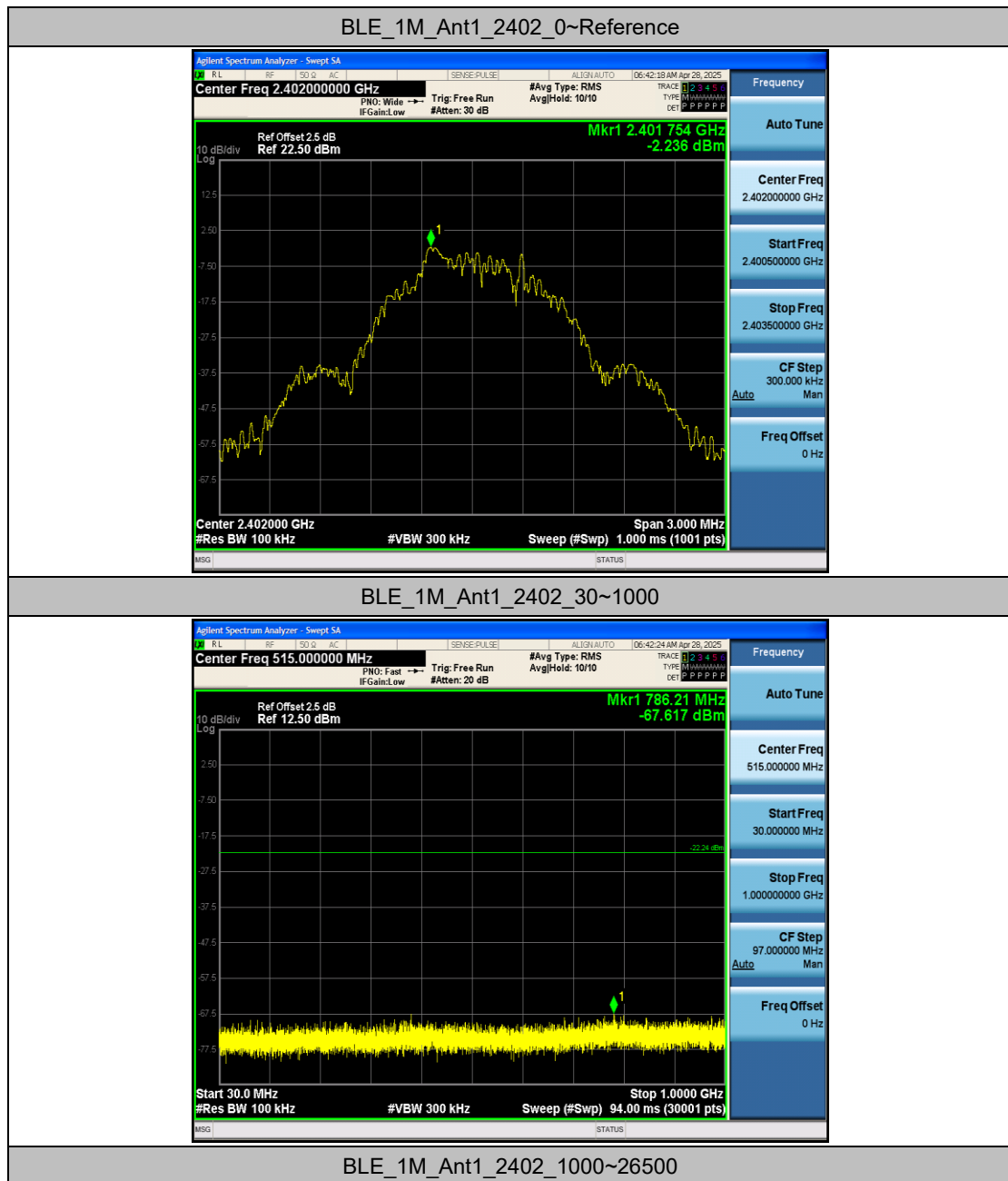


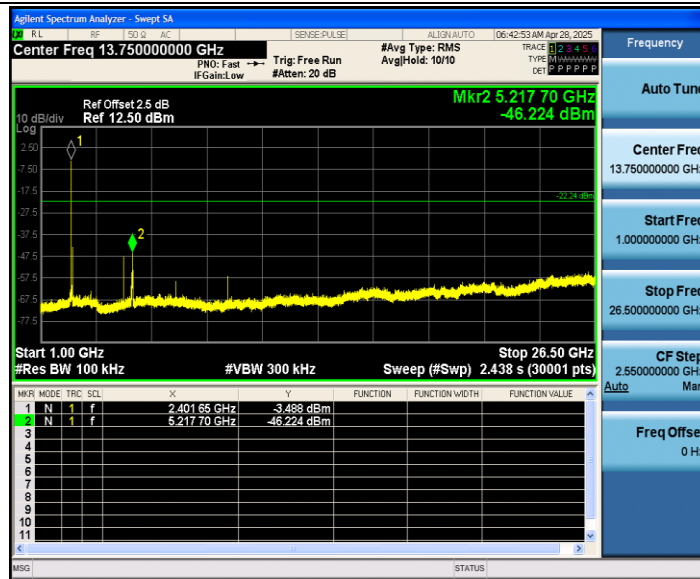
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-2.24	-2.24	---	PASS
			30~1000	-2.24	-67.62	≤-22.24	PASS
			1000~26500	-2.24	-46.22	≤-22.24	PASS
		2440	Reference	-2.05	-2.05	---	PASS
			30~1000	-2.05	-67.04	≤-22.05	PASS
			1000~26500	-2.05	-46.36	≤-22.05	PASS
		2480	Reference	-2.65	-2.65	---	PASS
			30~1000	-2.65	-67.33	≤-22.65	PASS
			1000~26500	-2.65	-48.13	≤-22.65	PASS

Test Graphs

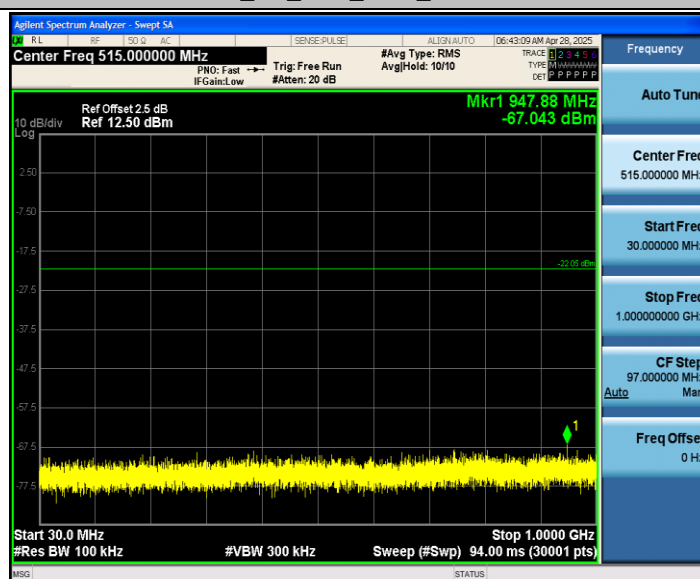




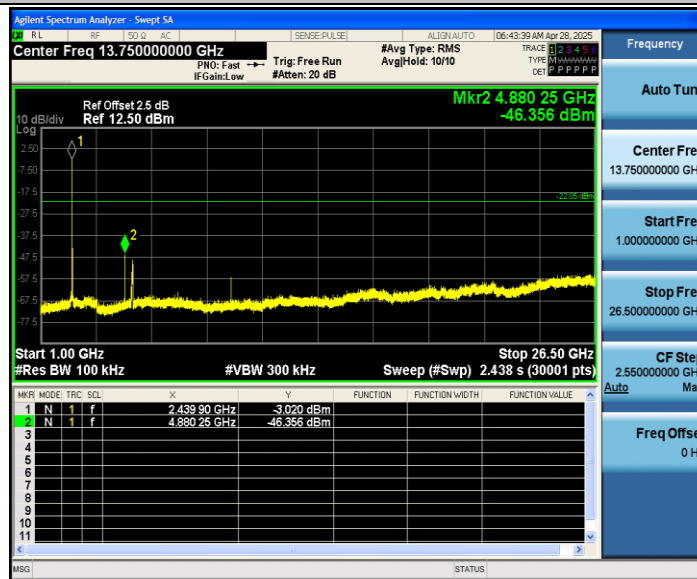
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



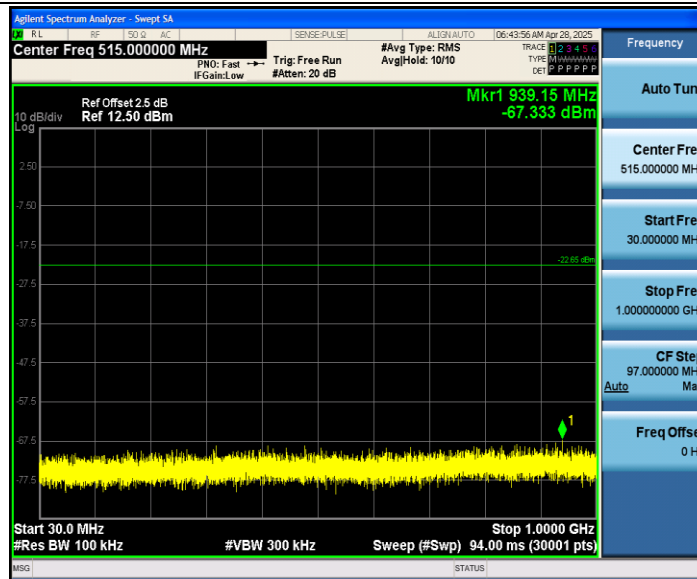
BLE_1M_Ant1_2440_1000~26500



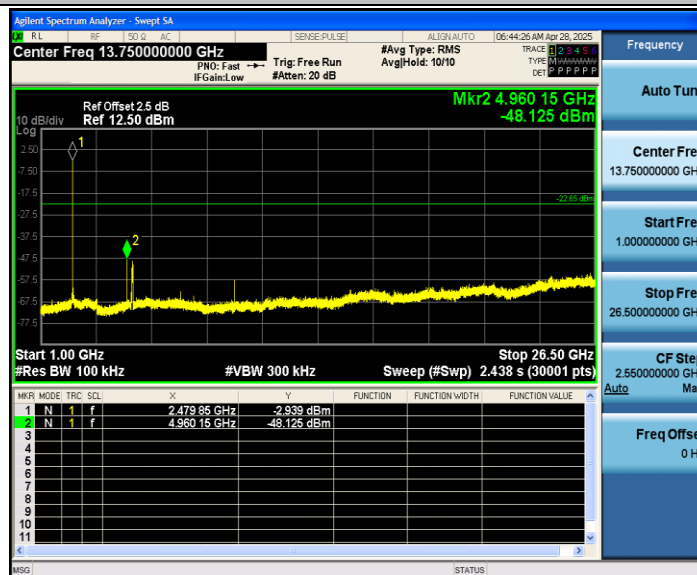
BLE_1M_Ant1_2480_0~Reference



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	---	---

[illegible]

