

FCC Appendix RF Test Data for BLE

FCC ID : 2BTN5-X7

Company : Shenzhen Yu Lai Technology Co., Ltd.

EUT : WiFi camera

Model Number : X7

Report No. : CTA25120202001

Reviewed By : Eric Wang

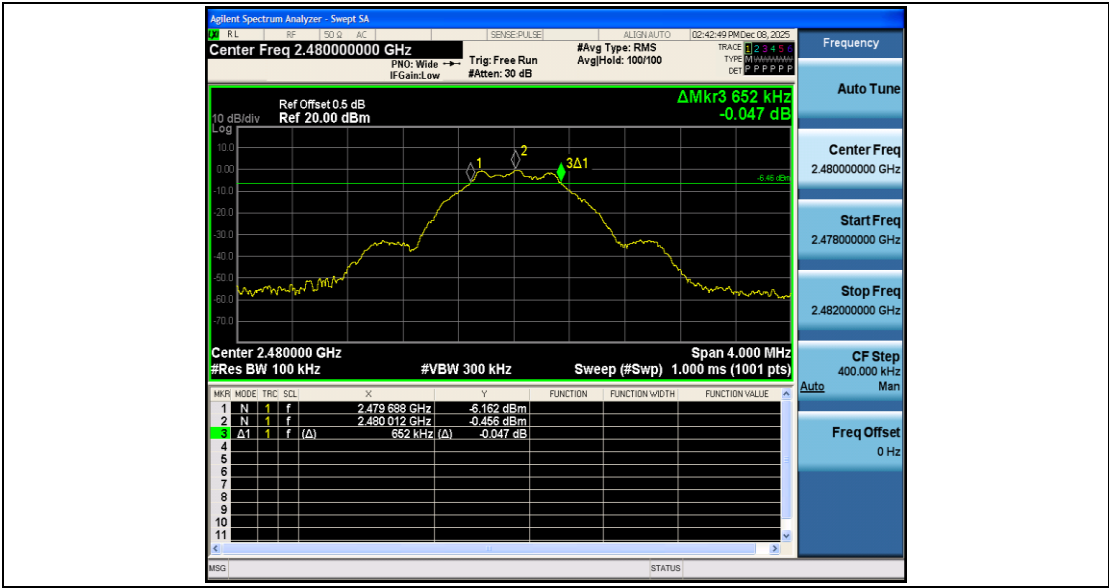
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.644	2401.692	2402.336	0.5	PASS
		2440	0.652	2439.688	2440.340	0.5	PASS
		2480	0.652	2479.688	2480.340	0.5	PASS

Test Graphs



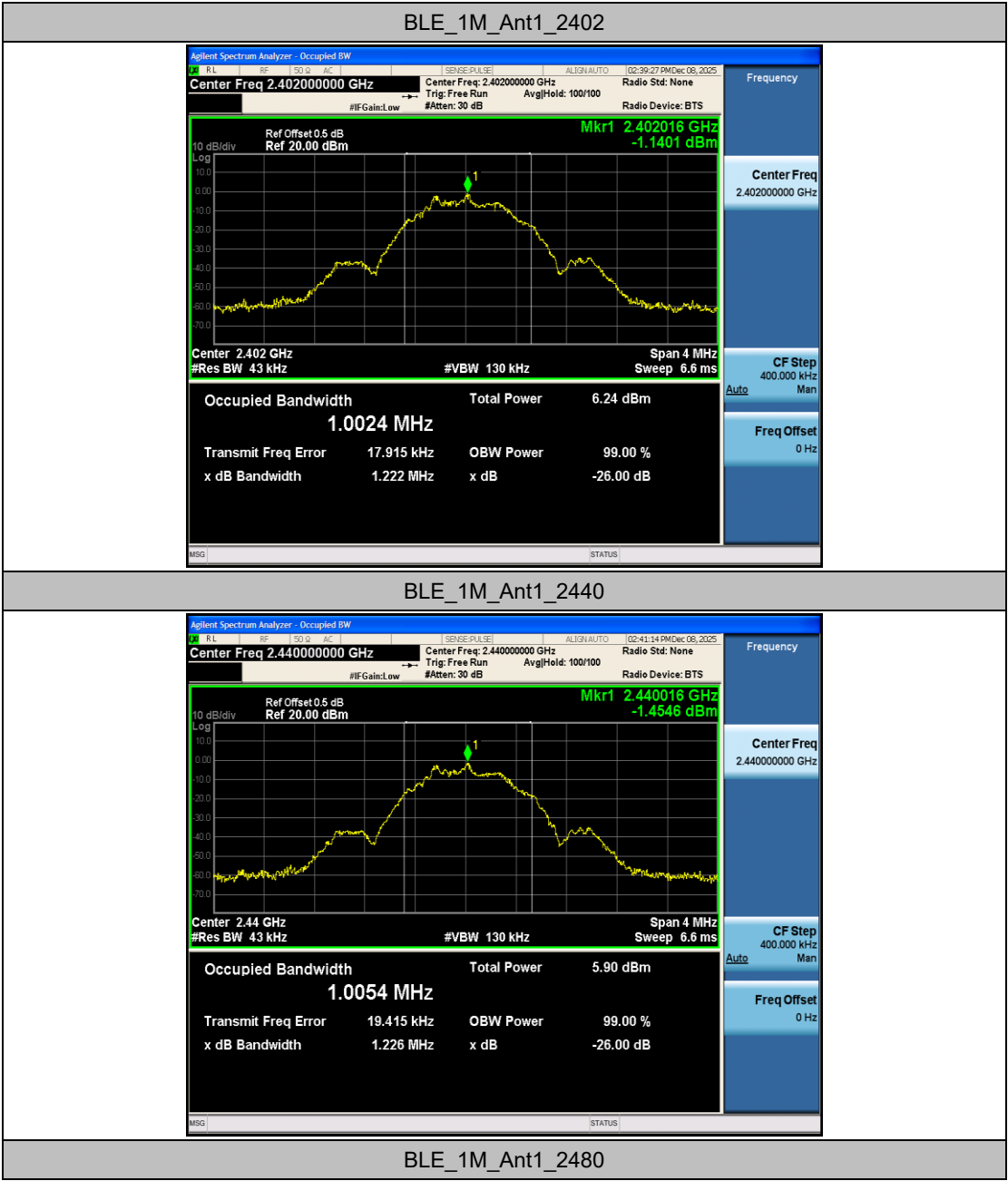


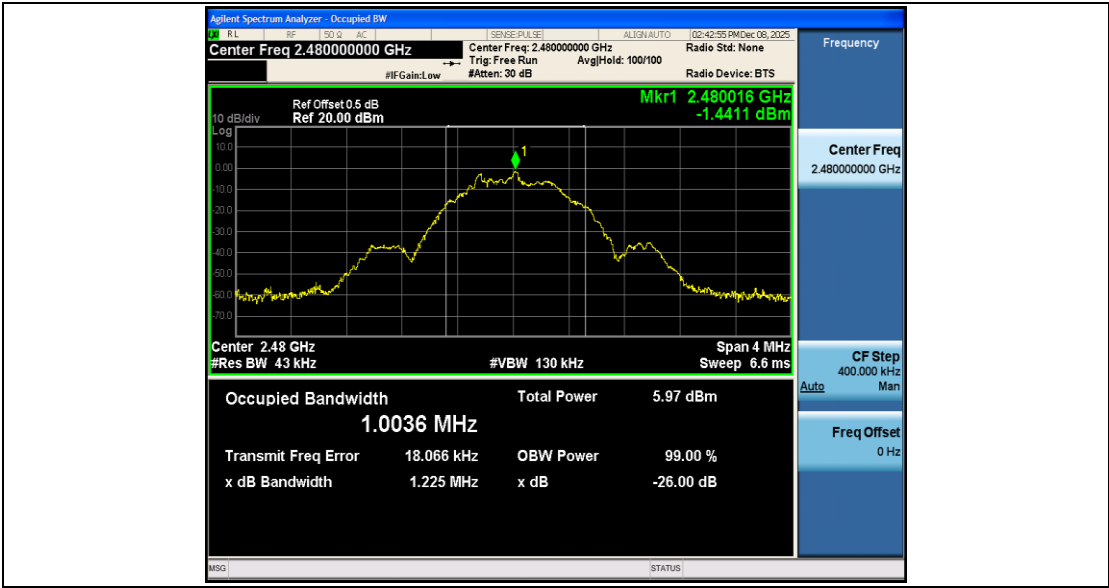
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0024	2401.5167	2402.5191	---	---
		2440	1.0054	2439.5167	2440.5221	---	---
		2480	1.0036	2479.5163	2480.5199	---	---

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	0.16	≤30	PASS
		2440	-0.22	≤30	PASS
		2480	-0.24	≤30	PASS

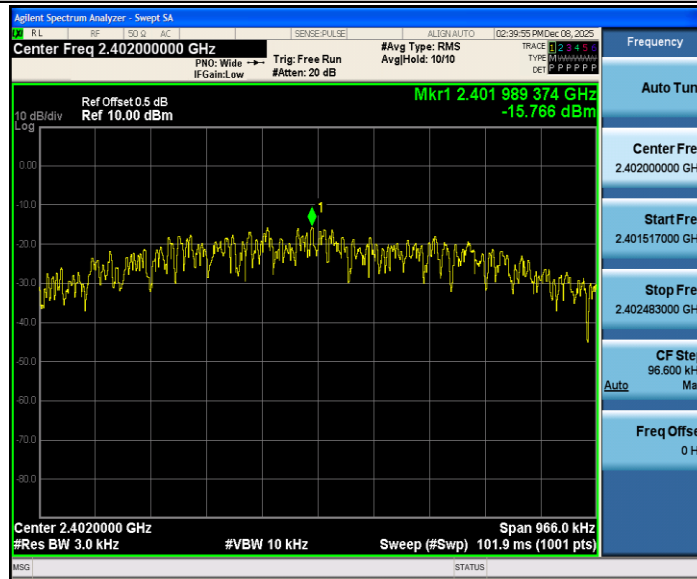
Appendix D: Maximum power spectral density

Test Result

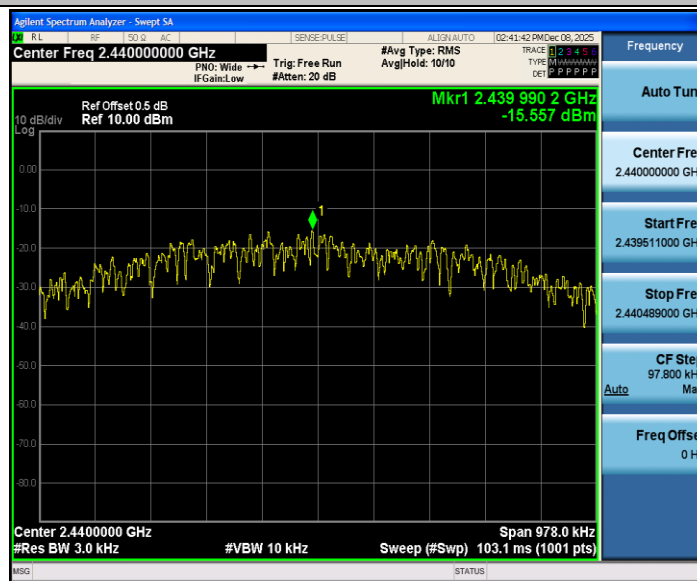
TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.77	≤8.00	PASS
		2440	-15.56	≤8.00	PASS
		2480	-15.81	≤8.00	PASS

Test Graphs

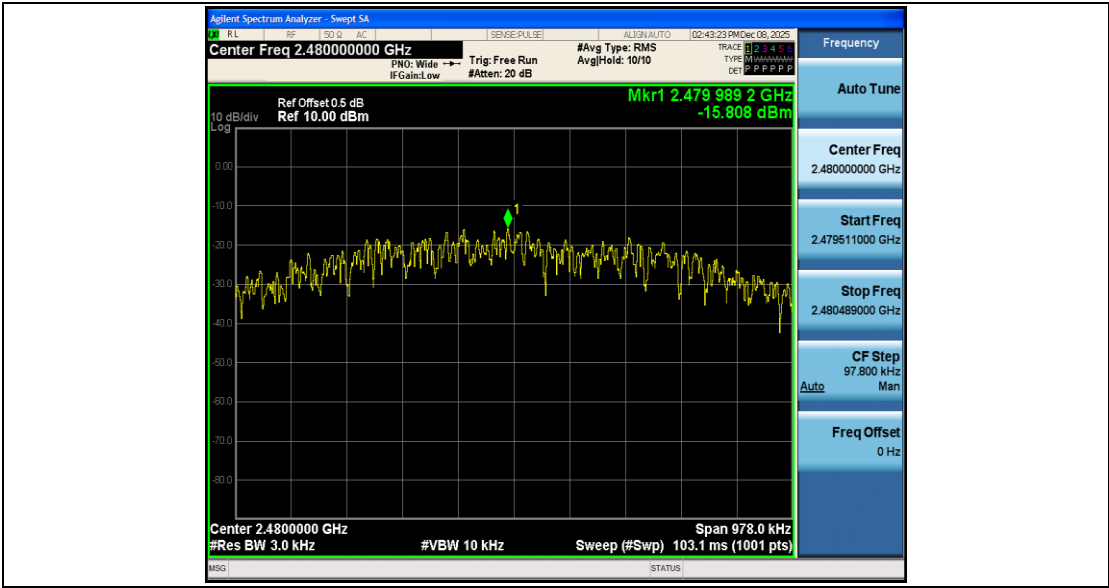
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

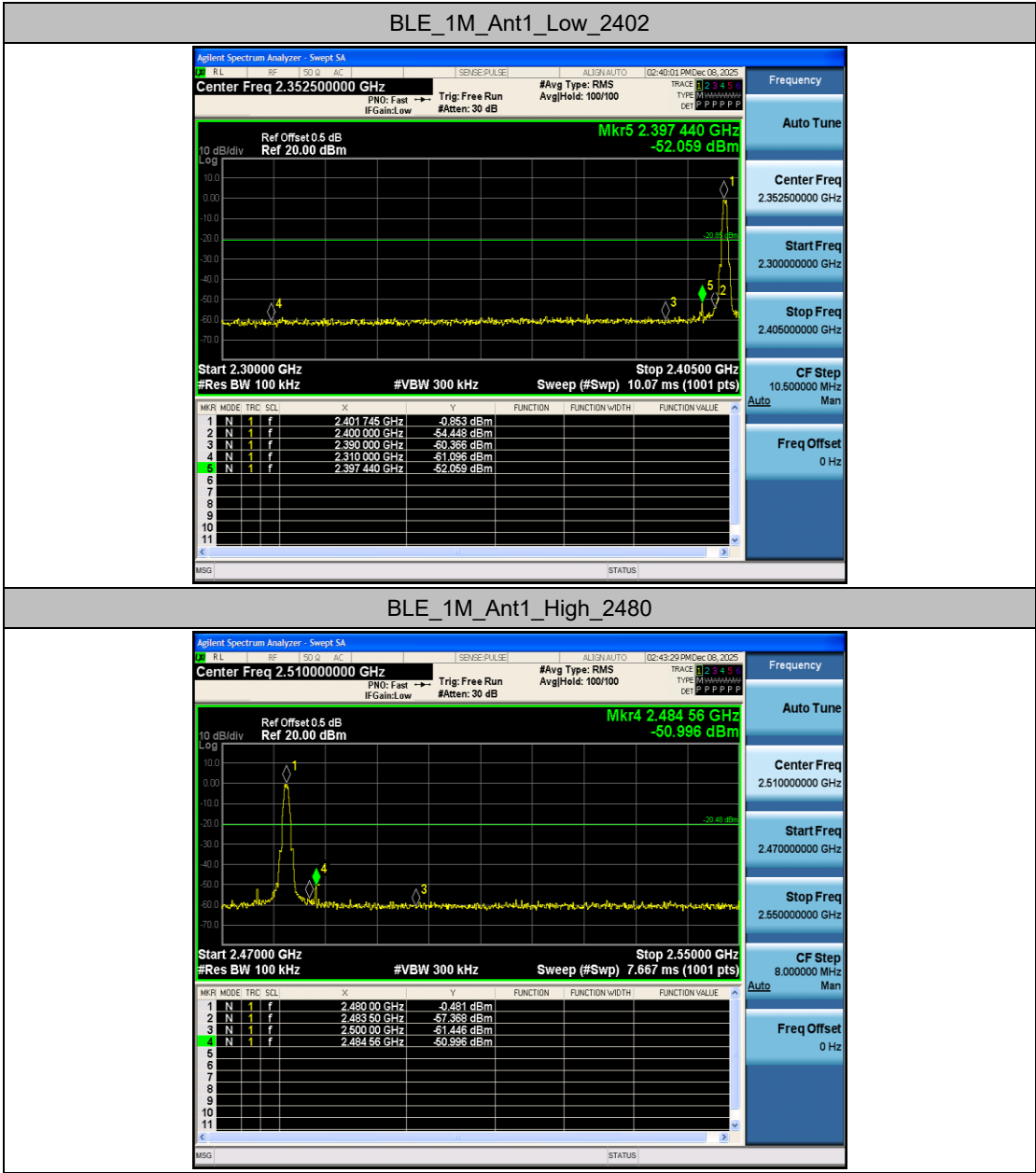


Appendix E: Band edge measurements

Test Result

TestMod e	Antenn a	ChNam e	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
BLE_1M	Ant1	Low	2402	-0.85	-52.06	≤-20.85	PASS
		High	2480	-0.48	-51	≤-20.48	PASS

Test Graphs

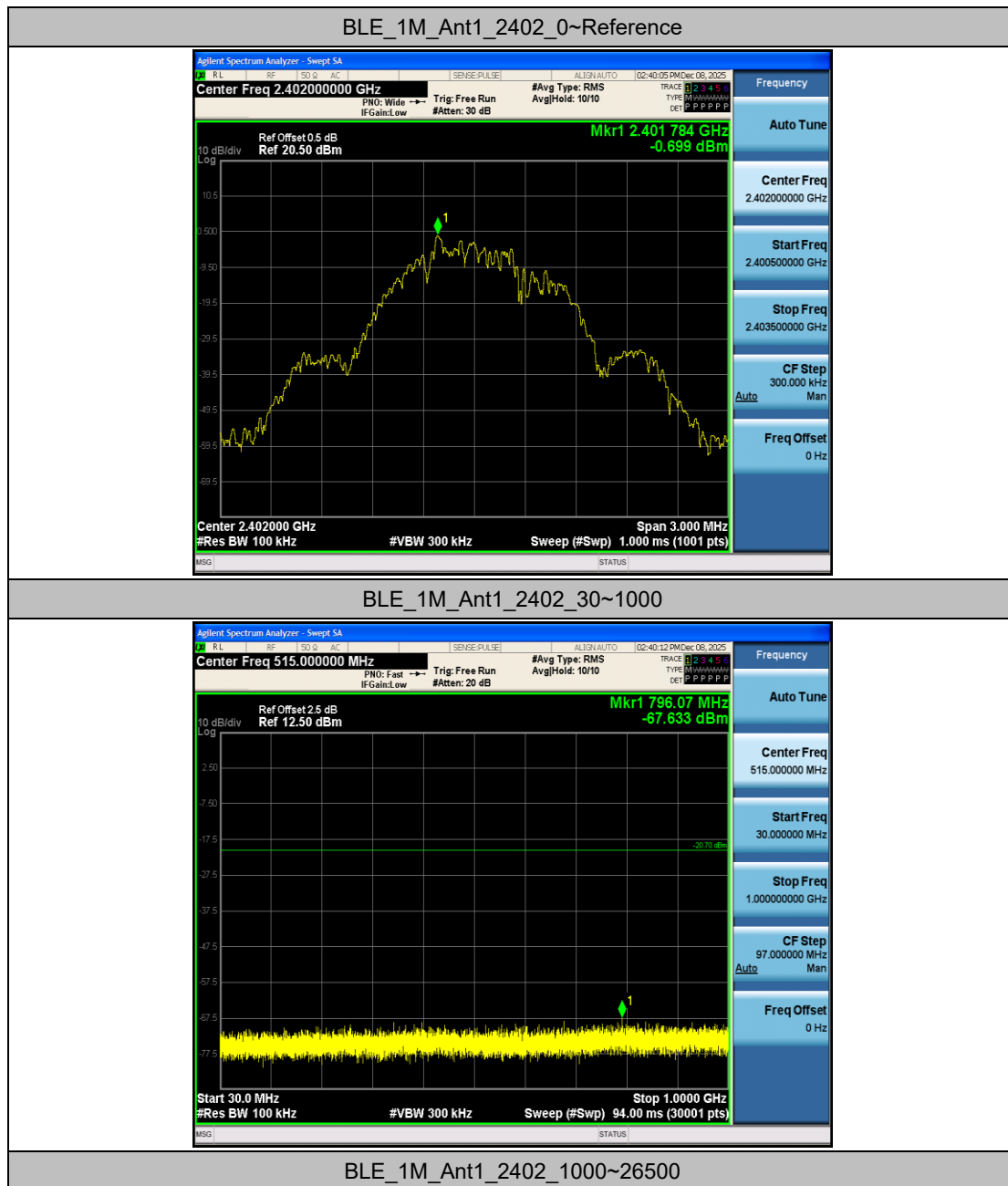


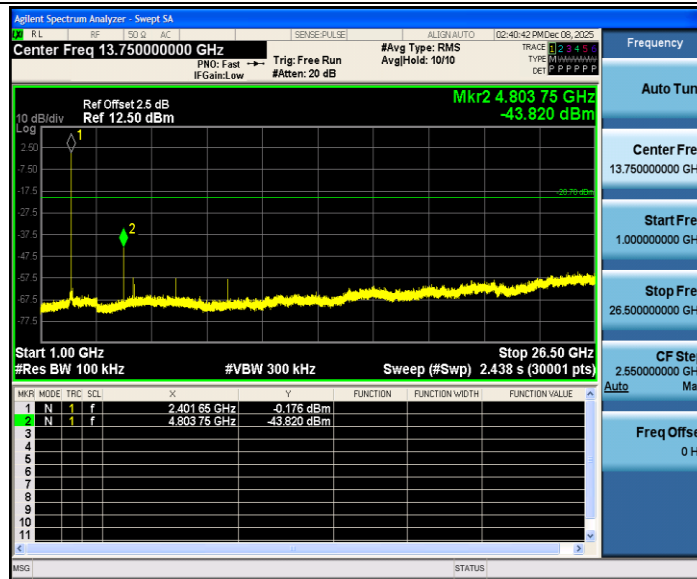
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-0.70	-0.70	---	PASS
			30~1000	-0.70	-67.63	≤-20.7	PASS
			1000~26500	-0.70	-43.82	≤-20.7	PASS
		2440	Reference	-1.58	-1.58	---	PASS
			30~1000	-1.58	-67.37	≤-21.58	PASS
			1000~26500	-1.58	-44.54	≤-21.58	PASS
		2480	Reference	-0.52	-0.52	---	PASS
			30~1000	-0.52	-67.79	≤-20.52	PASS
			1000~26500	-0.52	-43.69	≤-20.52	PASS

Test Graphs

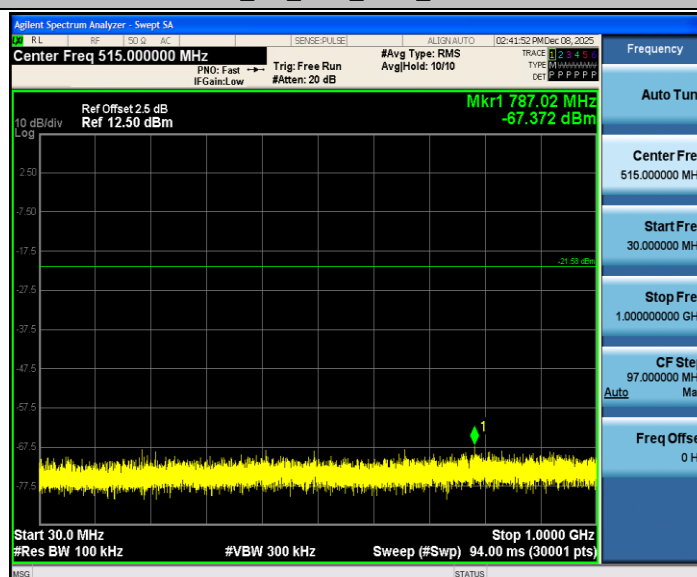




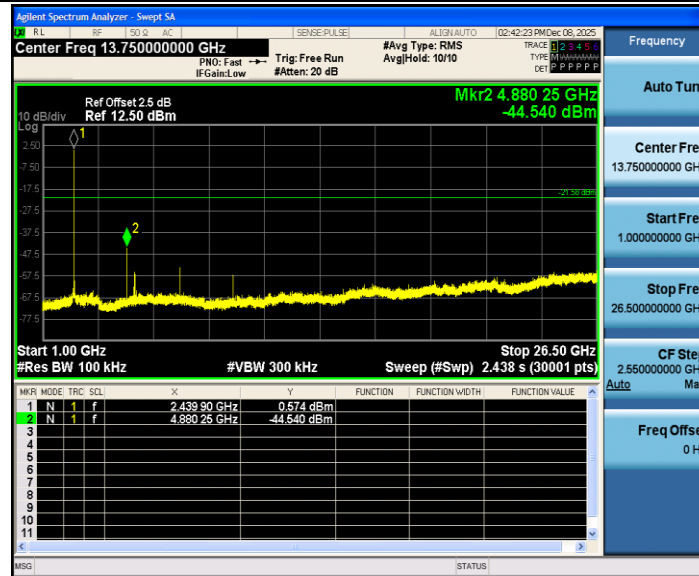
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



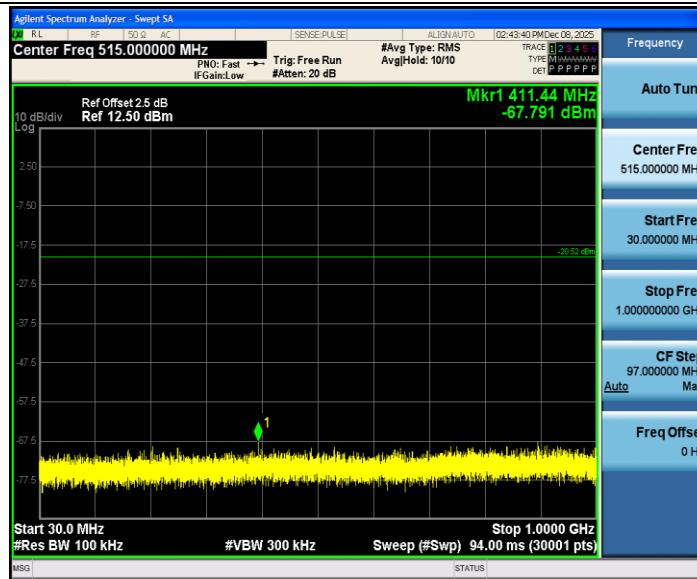
BLE_1M_Ant1_2440_1000~26500



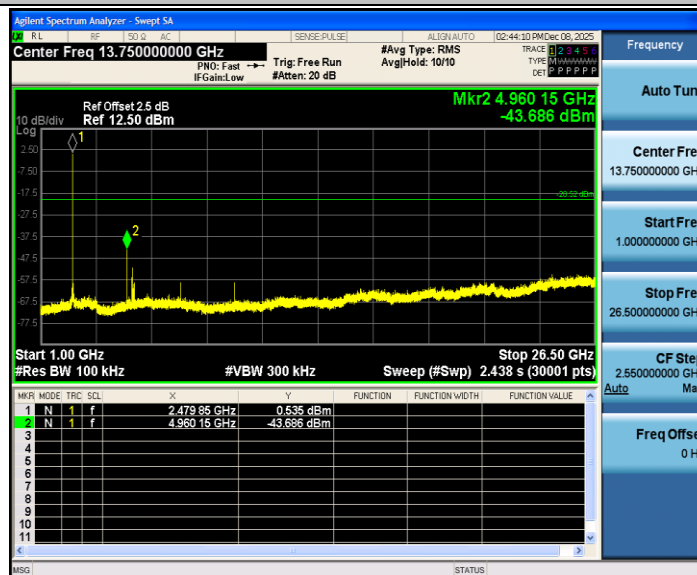
BLE_1M_Ant1_2480_0~Reference



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	0.62	0.6613	66.13	1.80	---	---
		2440	0.41	0.62	0.6613	66.13	1.80	---	---
		2480	0.41	0.62	0.6613	66.13	1.80	---	---

Test Graphs

