

FCC Appendix RF Test Data

FCC ID : 2BPT2-Y16

Company: : Shenzhen Yiqingteng Electronic Technology Co., Ltd.

EUT : Smart watch

Model Number : Y16

Report No. : CTA25040800201

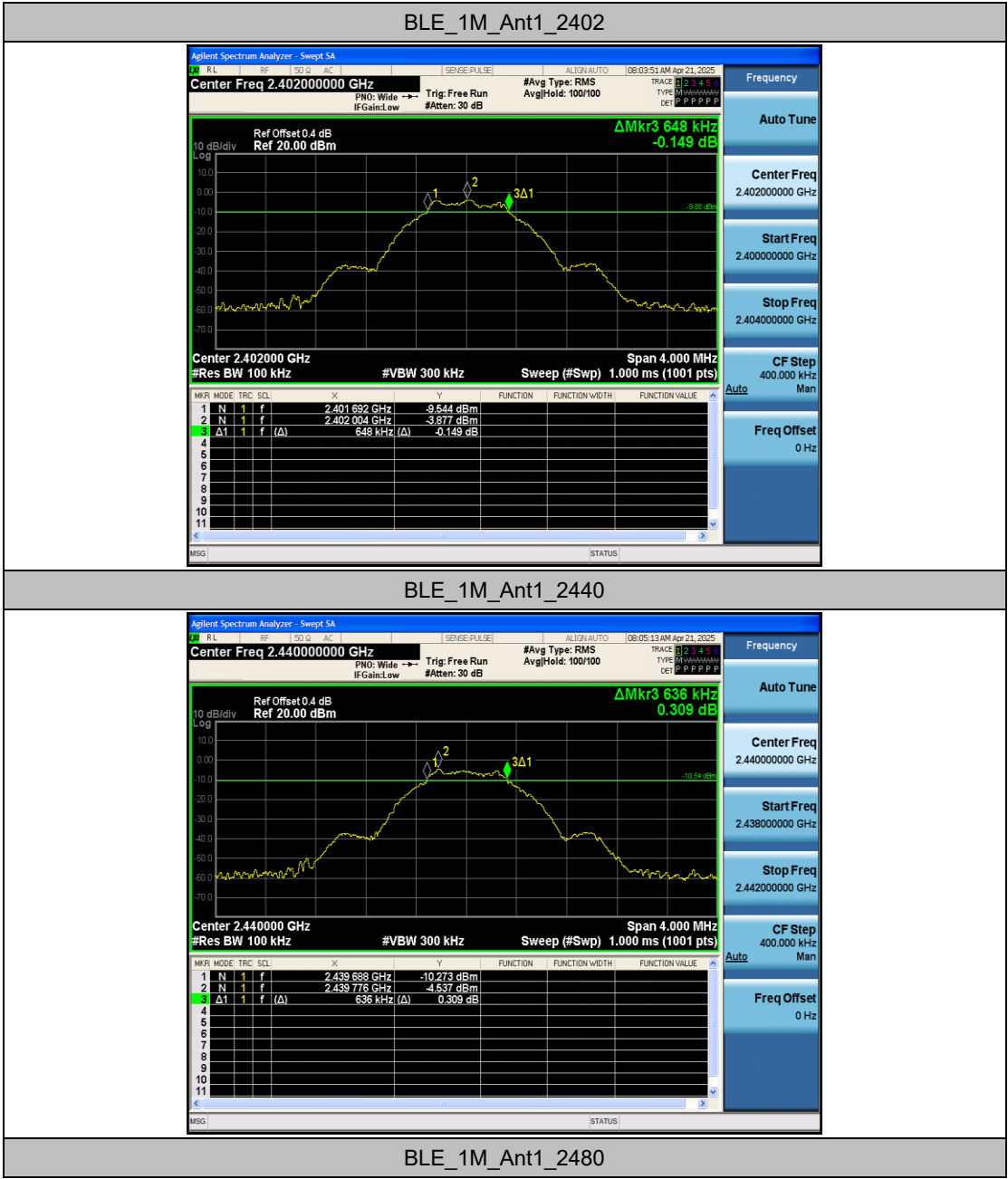
Reviewed By : Eric Wang

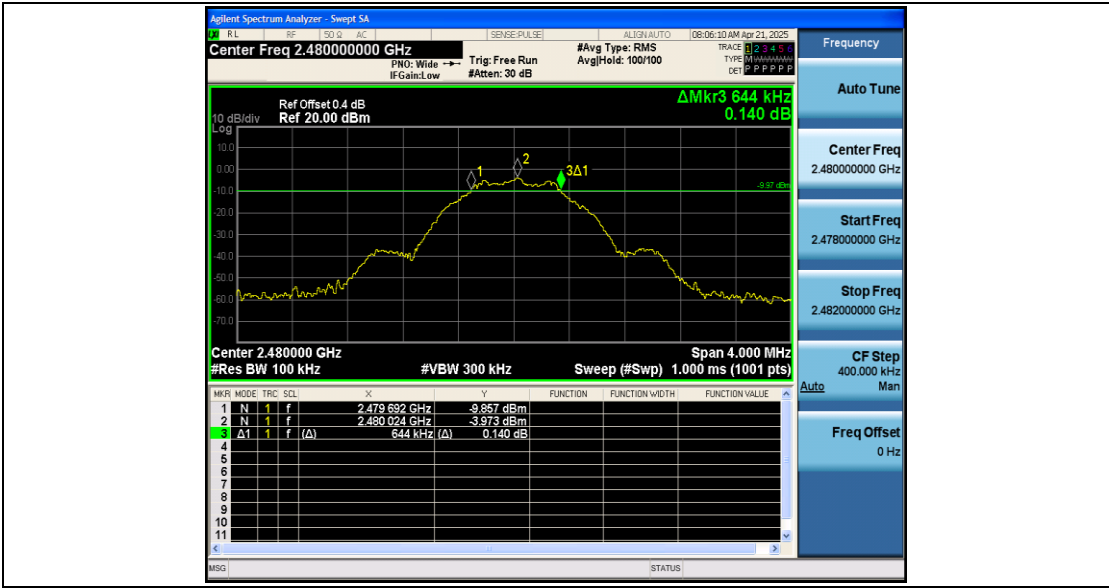
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.648	2401.692	2402.340	0.5	PASS
		2440	0.636	2439.688	2440.324	0.5	PASS
		2480	0.644	2479.692	2480.336	0.5	PASS

Test Graphs





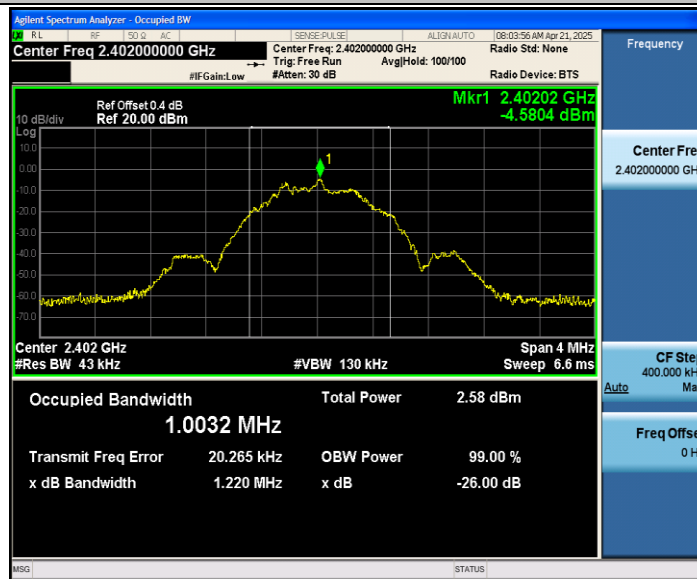
Appendix B: Occupied Channel Bandwidth

Test Result

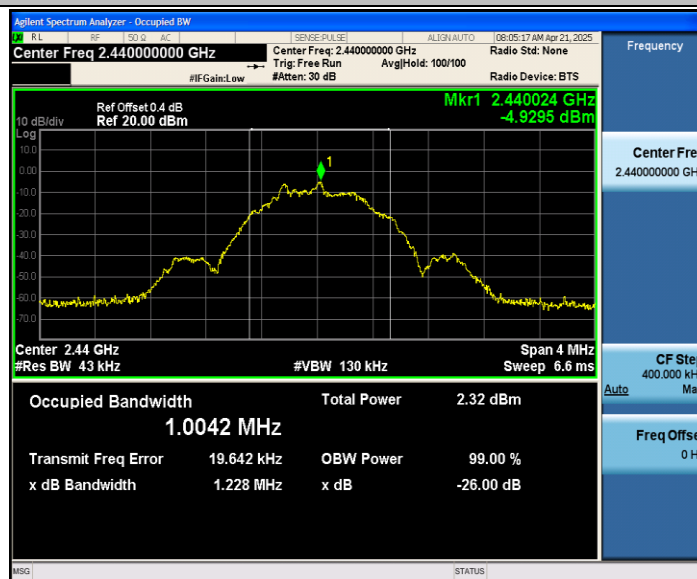
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0032	2401.5187	2402.5219	---	---
		2440	1.0042	2439.5175	2440.5217	---	---
		2480	1.0045	2479.5183	2480.5228	---	---

Test Graphs

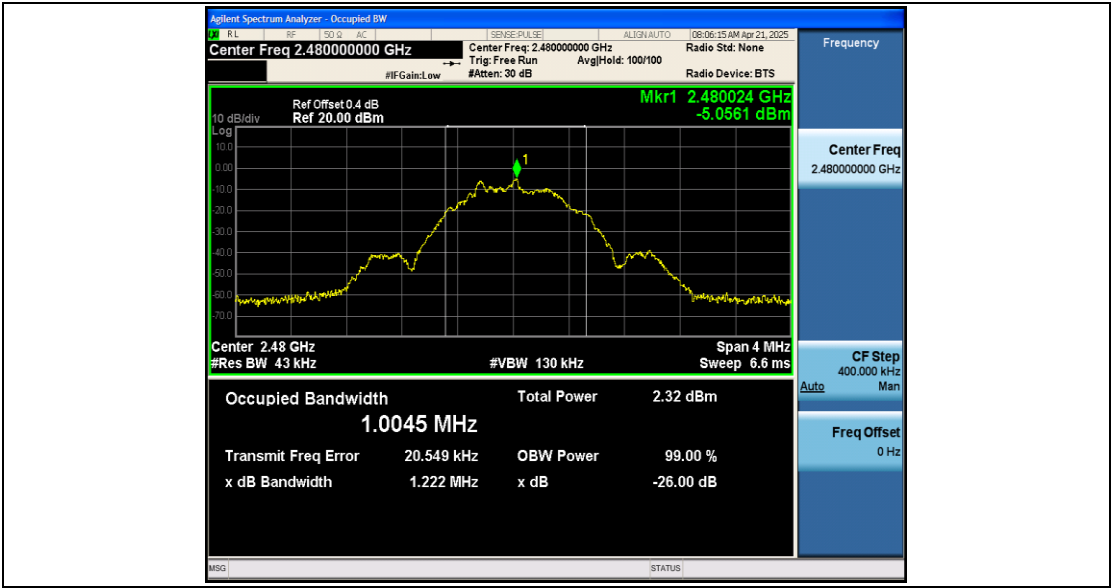
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

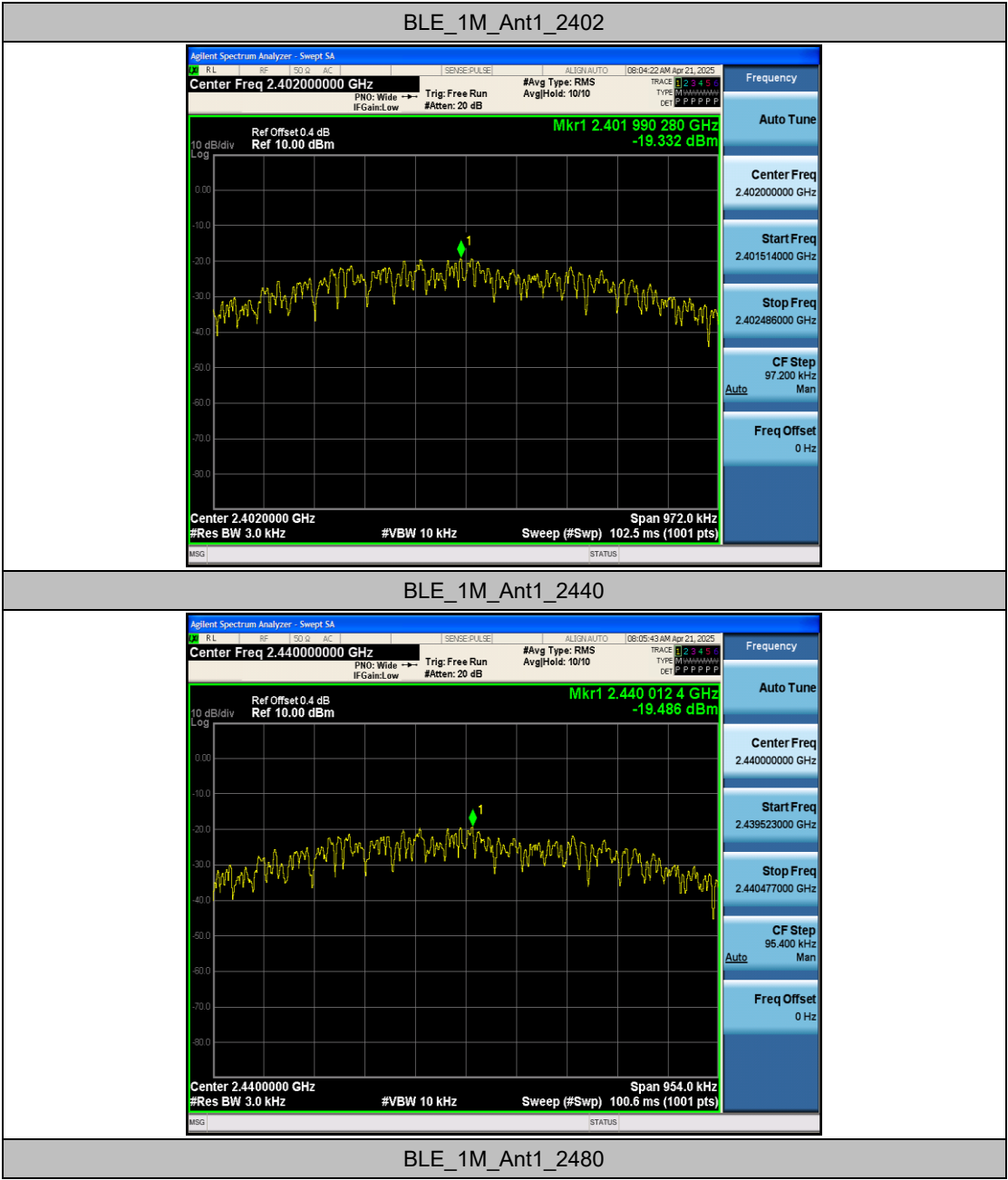
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-3.47	≤30	PASS
		2440	-3.79	≤30	PASS
		2480	-3.83	≤30	PASS

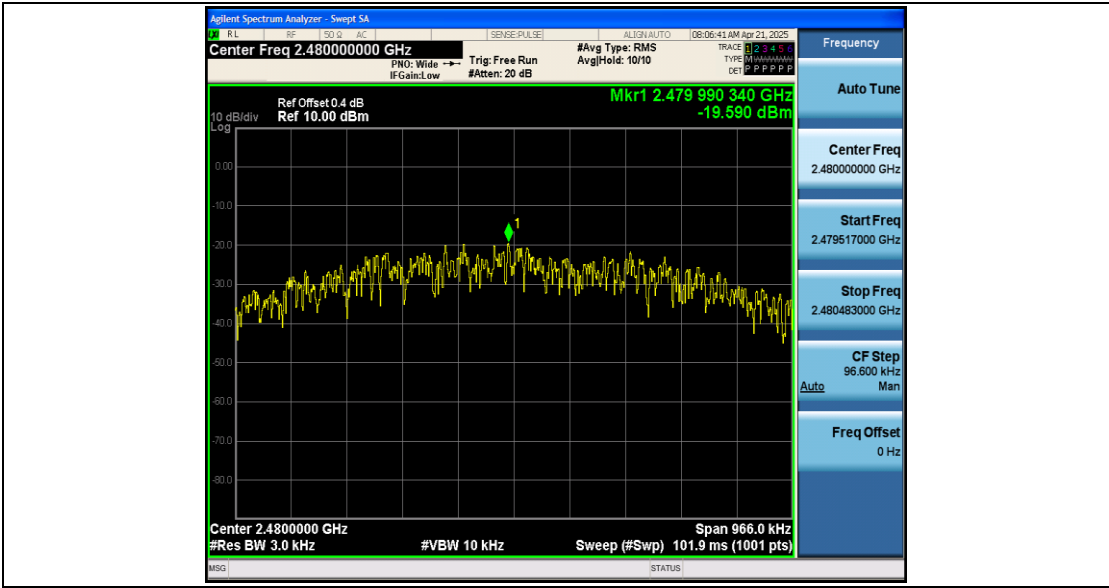
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-19.33	≤8.00	PASS
		2440	-19.49	≤8.00	PASS
		2480	-19.59	≤8.00	PASS

Test Graphs



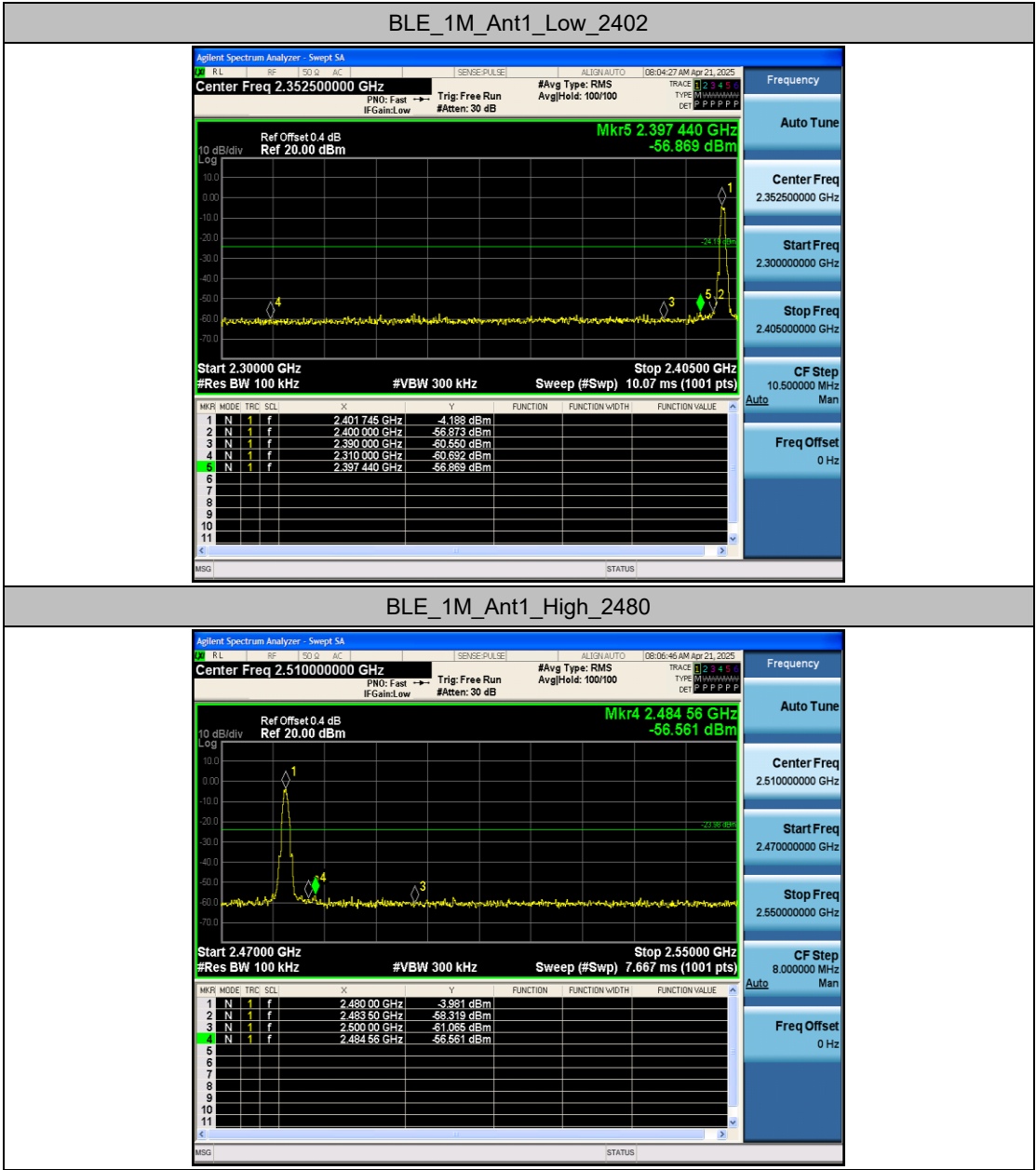


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-4.19	-56.87	≤-24.19	PASS
		High	2480	-3.98	-56.56	≤-23.98	PASS

Test Graphs

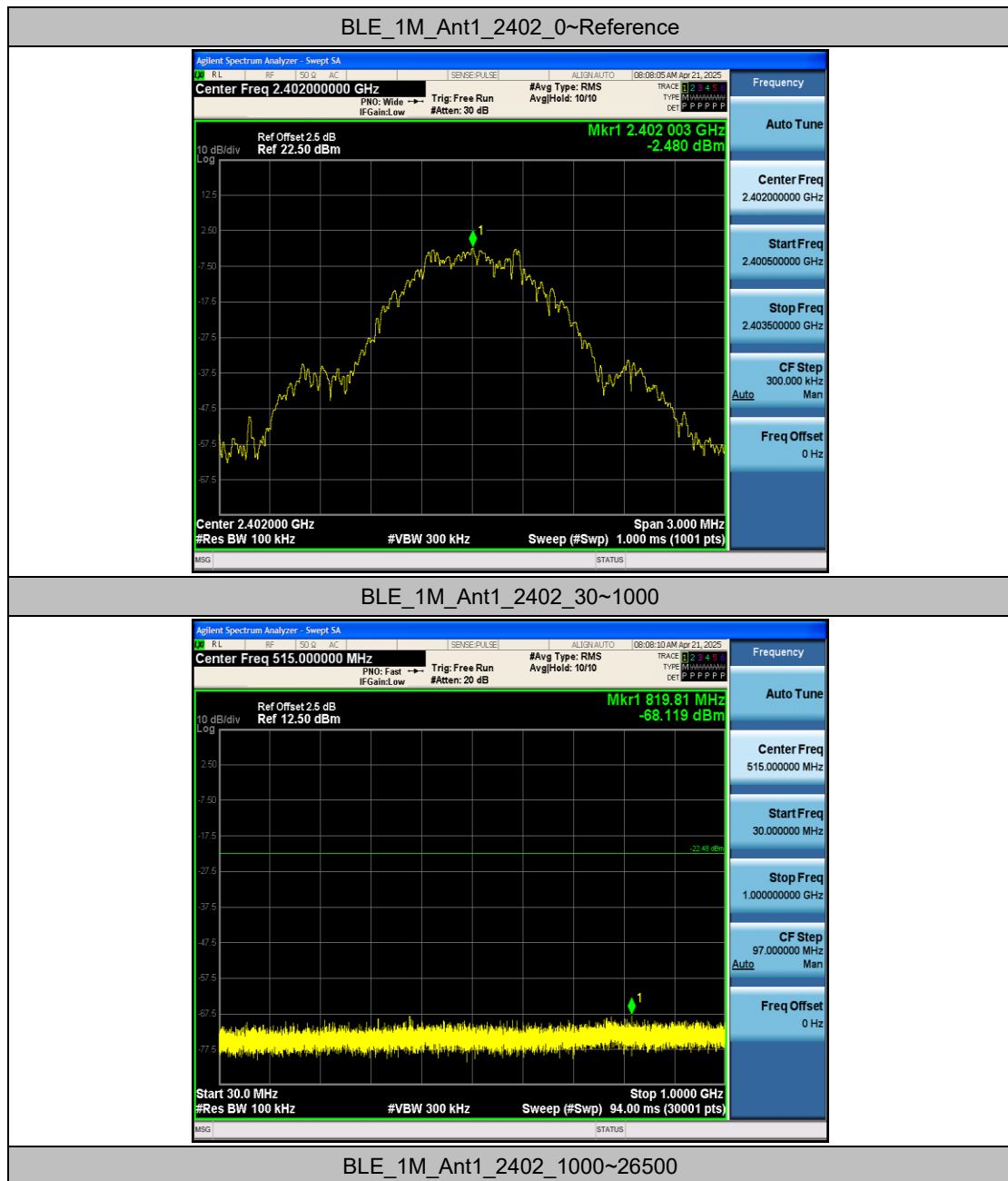


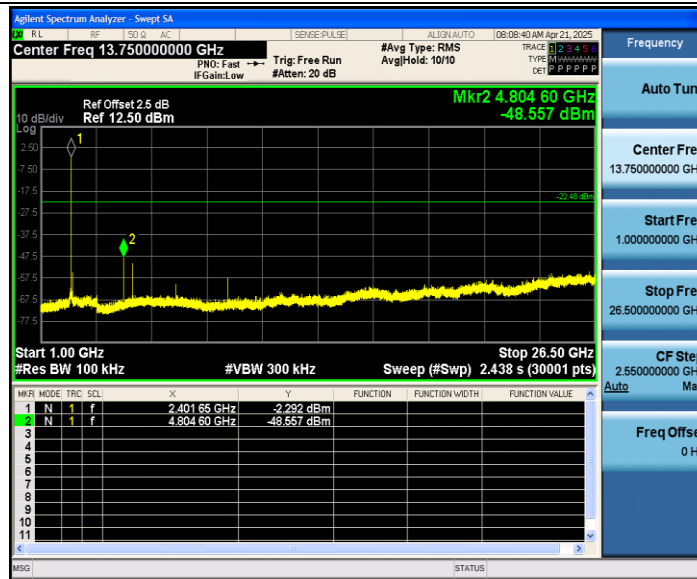
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-2.48	-2.48	---	PASS
			30~1000	-2.48	-68.12	≤-22.48	PASS
			1000~26500	-2.48	-48.56	≤-22.48	PASS
		2440	Reference	-2.28	-2.28	---	PASS
			30~1000	-2.28	-55.25	≤-22.28	PASS
			1000~26500	-2.28	-47.16	≤-22.28	PASS
		2480	Reference	-3.53	-3.53	---	PASS
			30~1000	-3.53	-67.79	≤-23.53	PASS
			1000~26500	-3.53	-46.94	≤-23.53	PASS

Test Graphs

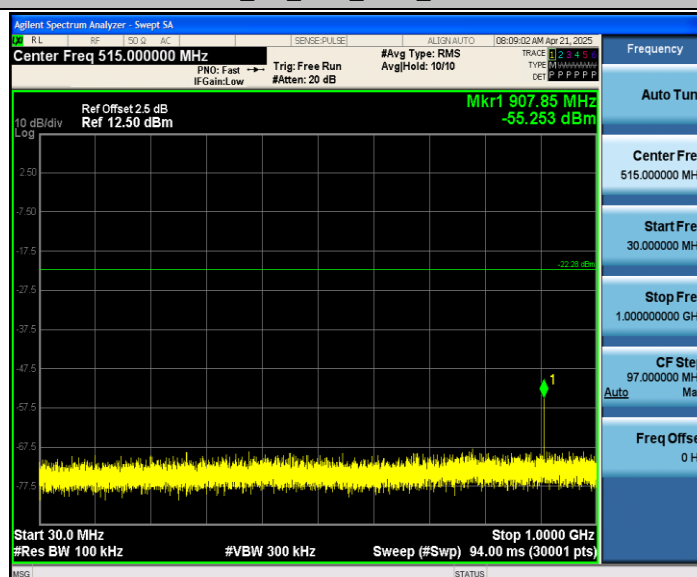




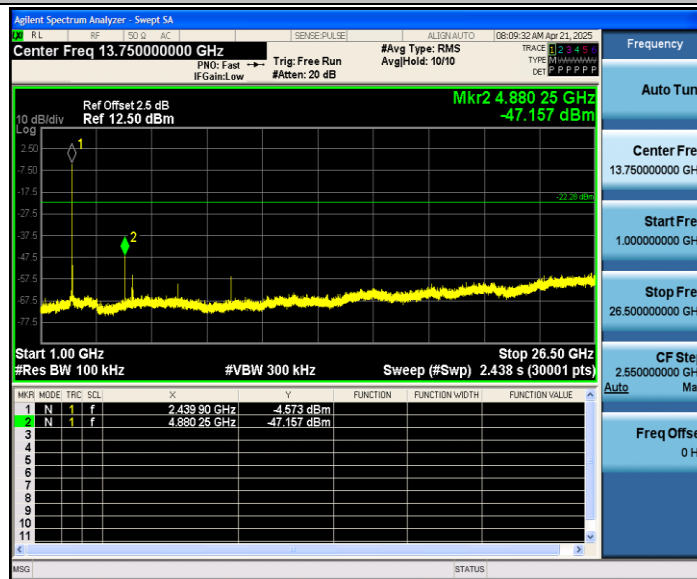
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



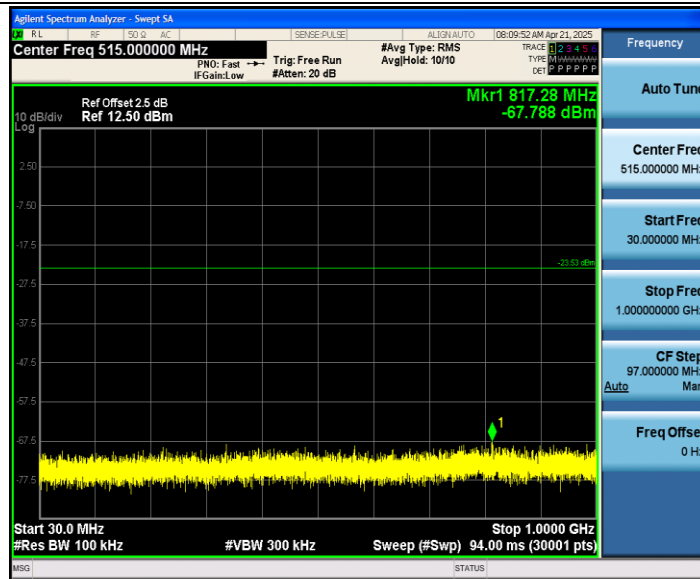
BLE_1M_Ant1_2440_1000~26500



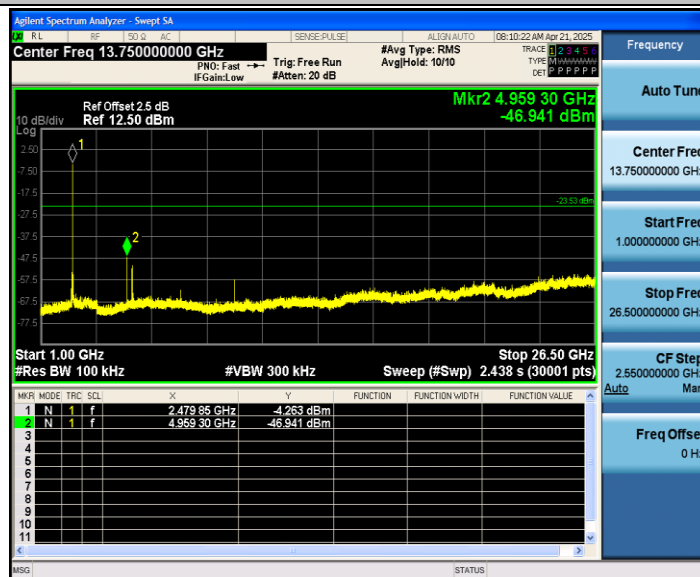
BLE_1M_Ant1_2480_0~Reference



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

