

FCC Appendix RF Test Data for BLE

FCC ID : 2BQEC-ZSH-MK001

Company : Shenzhen Zhisihui Technology Co., Ltd.

EUT : Bluetooth Smart Control keyboard for tablet

Model Number : ZSH-MK001

Report No. : CTA25091501101

Reviewed By : Eric Wang

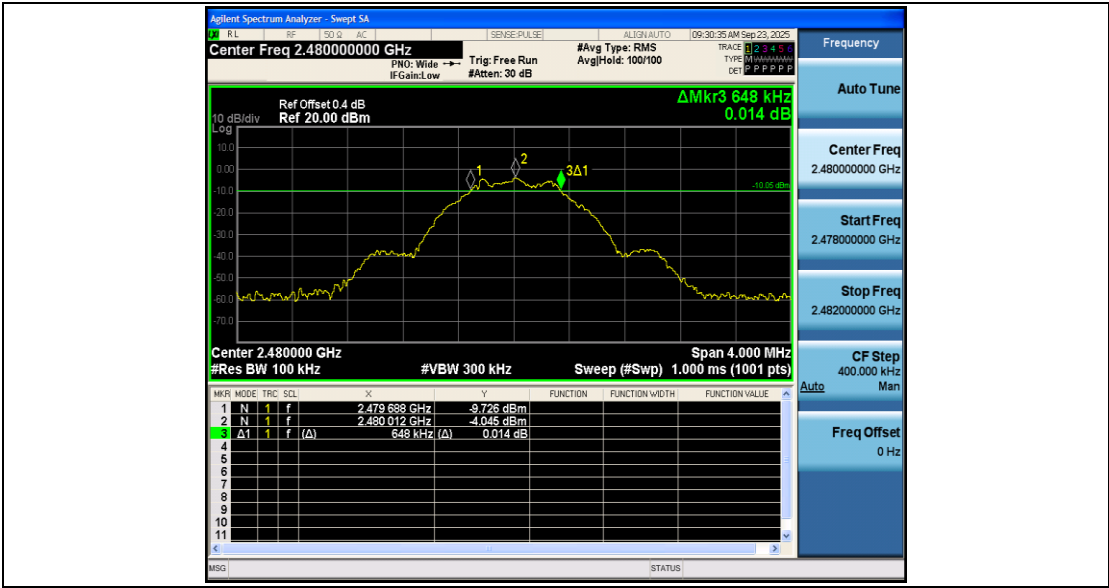
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.640	2401.696	2402.336	0.5	PASS
		2440	0.644	2439.692	2440.336	0.5	PASS
		2480	0.648	2479.688	2480.336	0.5	PASS

Test Graphs



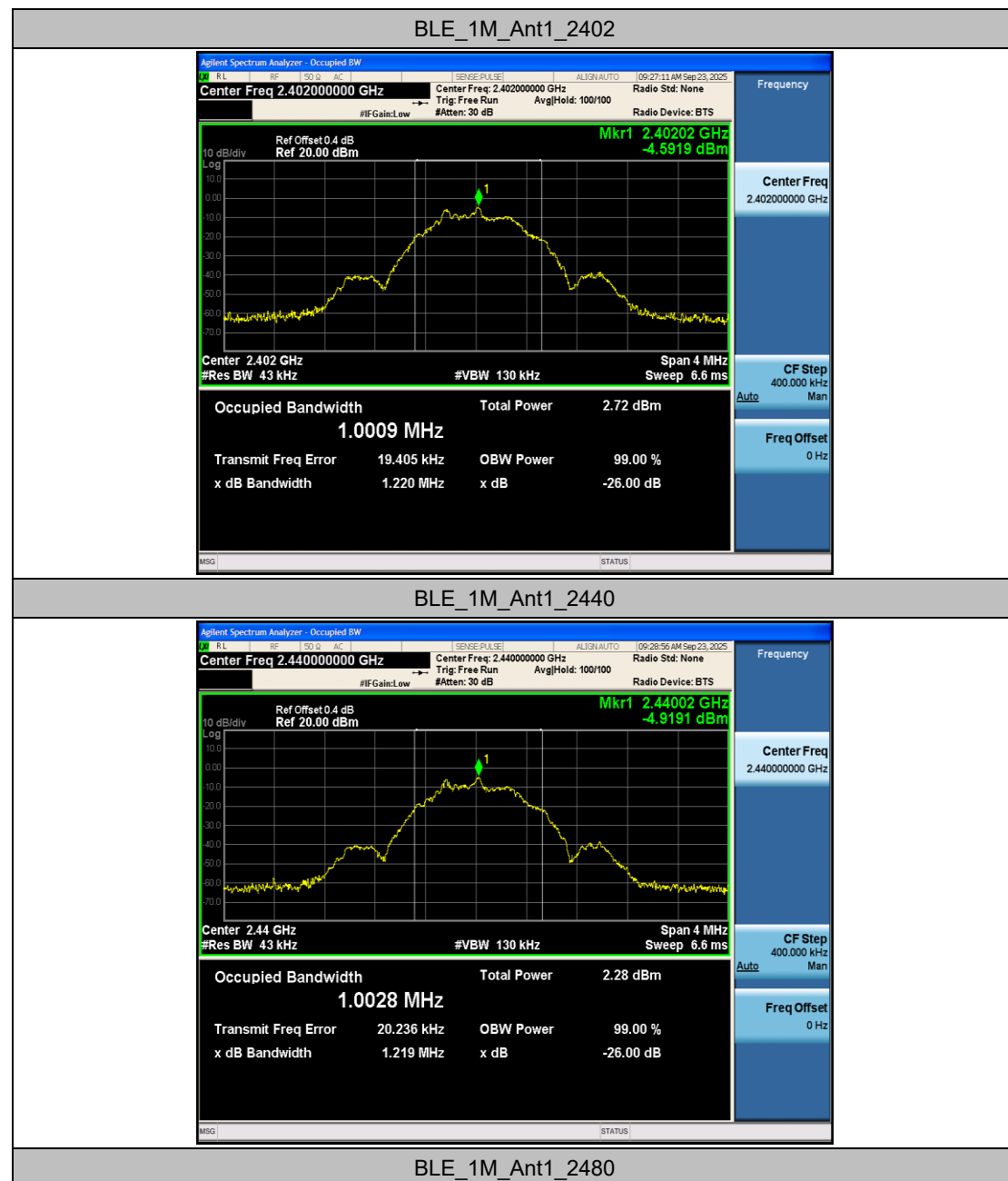


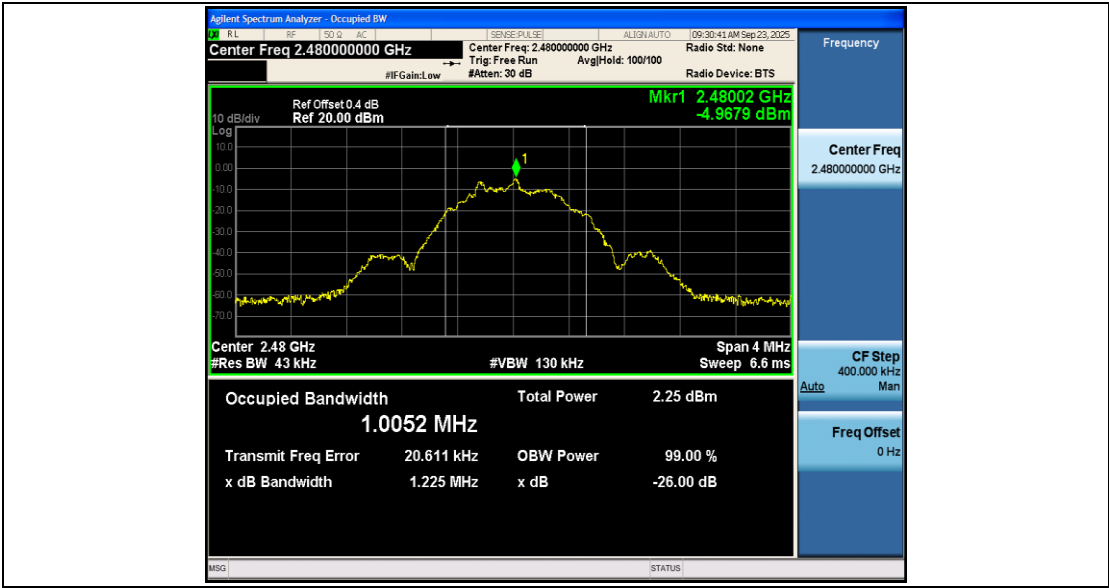
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0009	2401.5190	2402.5199	---	---
		2440	1.0028	2439.5188	2440.5216	---	---
		2480	1.0052	2479.5180	2480.5232	---	---

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	-3.48	≤30	PASS
		2440	-3.82	≤30	PASS
		2480	-3.86	≤30	PASS

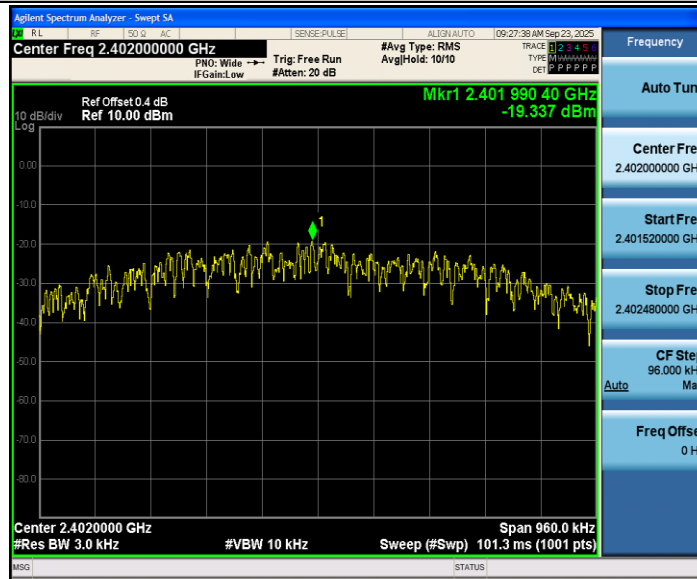
Appendix D: Maximum power spectral density

Test Result

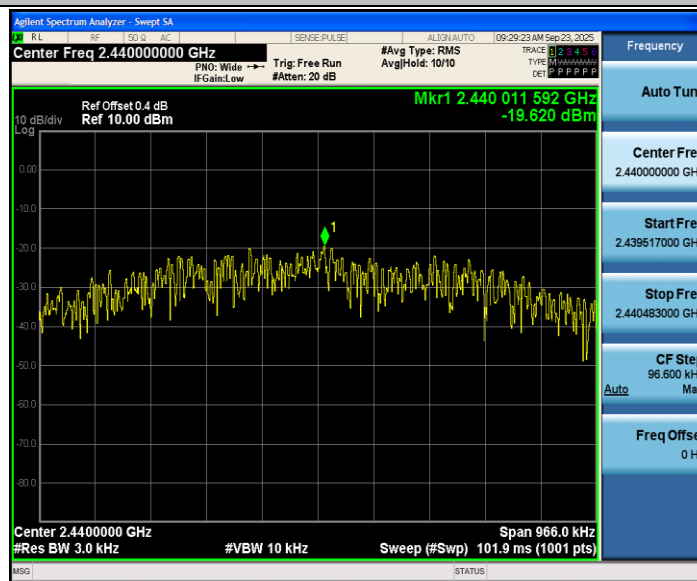
TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-19.34	≤8.00	PASS
		2440	-19.62	≤8.00	PASS
		2480	-19.61	≤8.00	PASS

Test Graphs

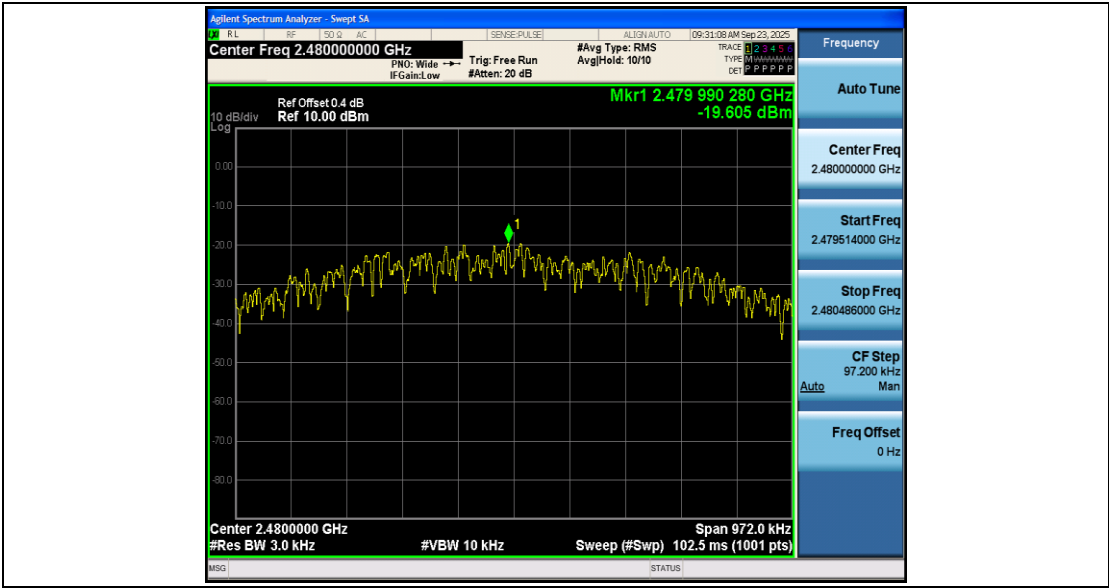
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

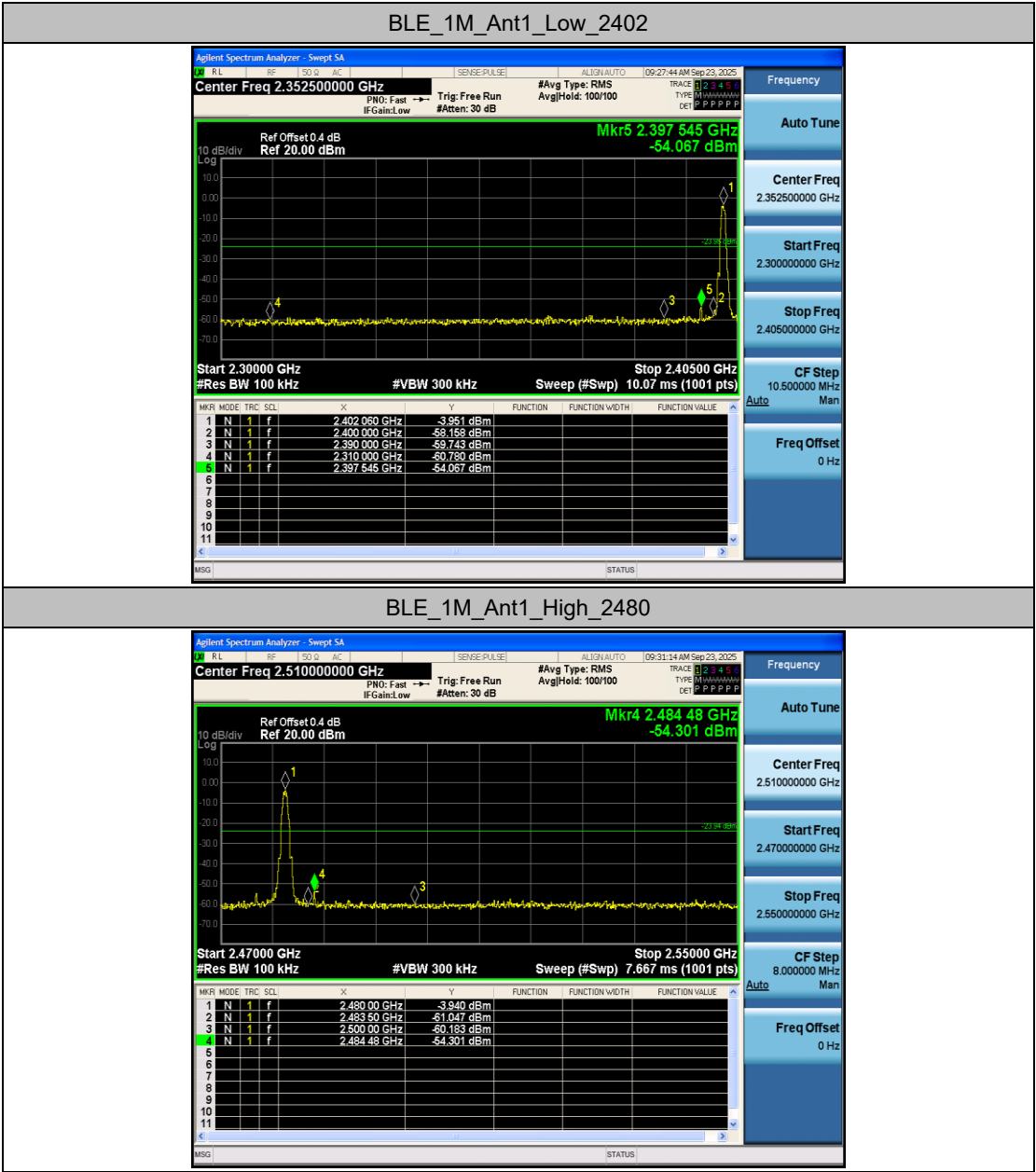


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-3.95	-54.07	≤-23.95	PASS
		High	2480	-3.94	-54.3	≤-23.94	PASS

Test Graphs

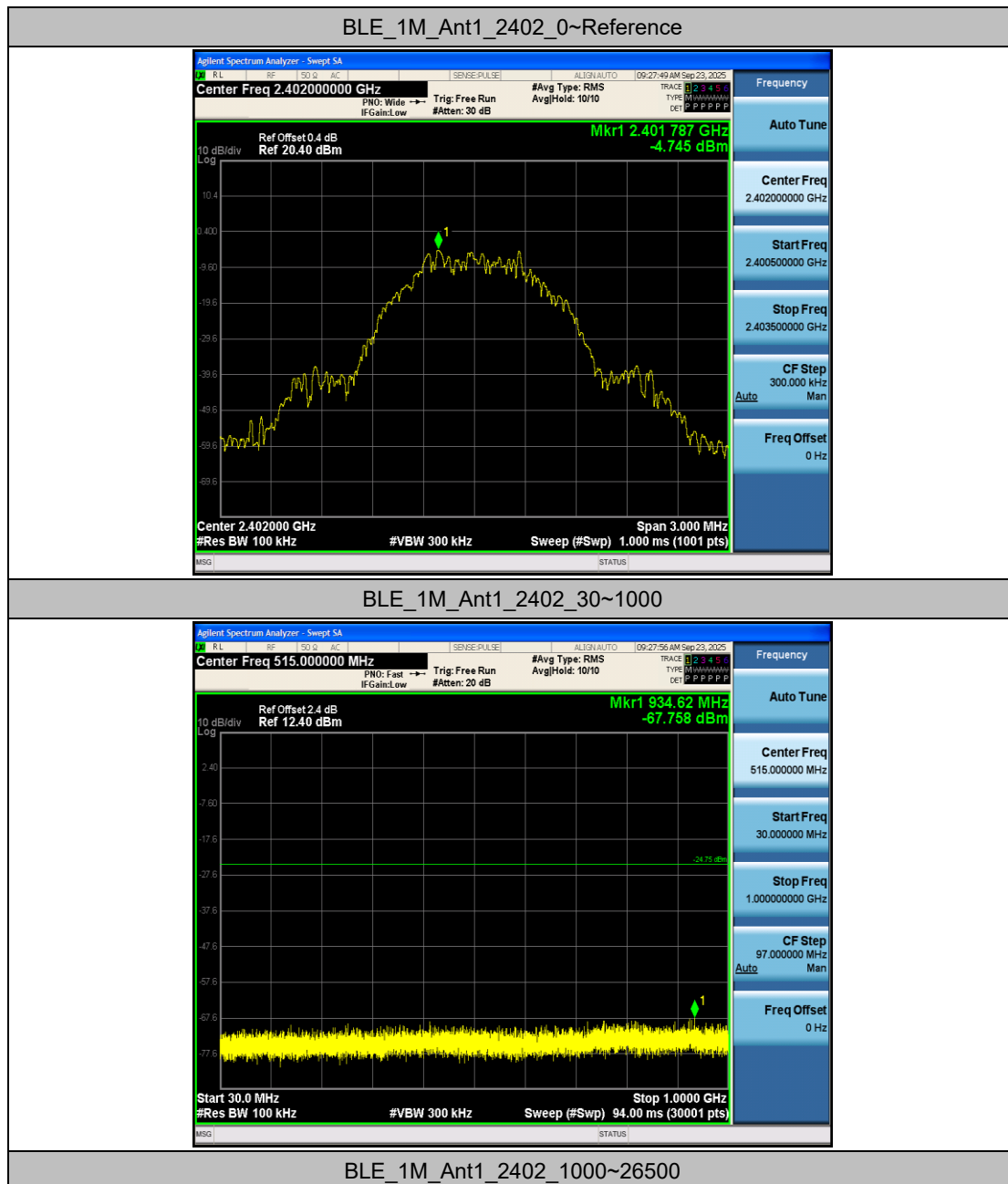


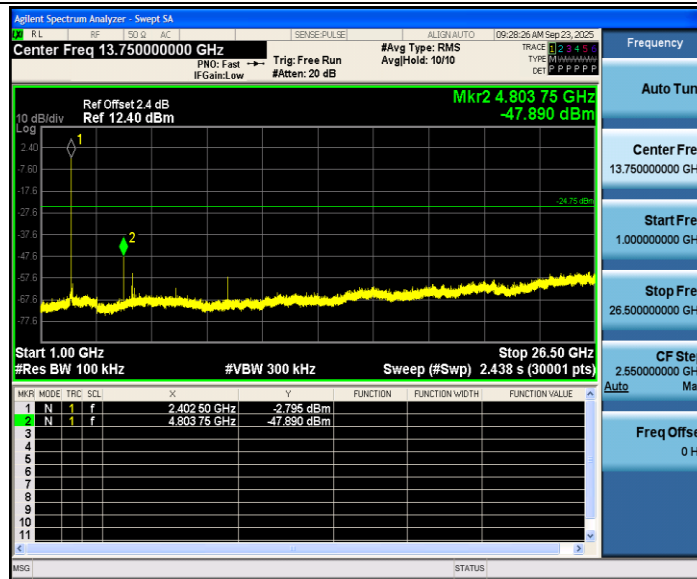
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-4.75	-4.75	---	PASS
			30~1000	-4.75	-67.76	≤-24.75	PASS
			1000~26500	-4.75	-47.89	≤-24.75	PASS
		2440	Reference	-4.18	-4.18	---	PASS
			30~1000	-4.18	-68.03	≤-24.18	PASS
			1000~26500	-4.18	-47.58	≤-24.18	PASS
		2480	Reference	-4.47	-4.47	---	PASS
			30~1000	-4.47	-67.64	≤-24.47	PASS
			1000~26500	-4.47	-47.8	≤-24.47	PASS

Test Graphs

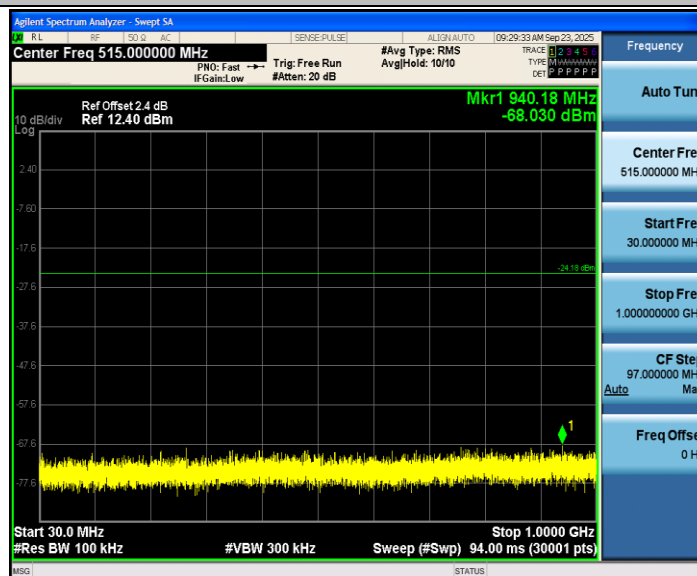




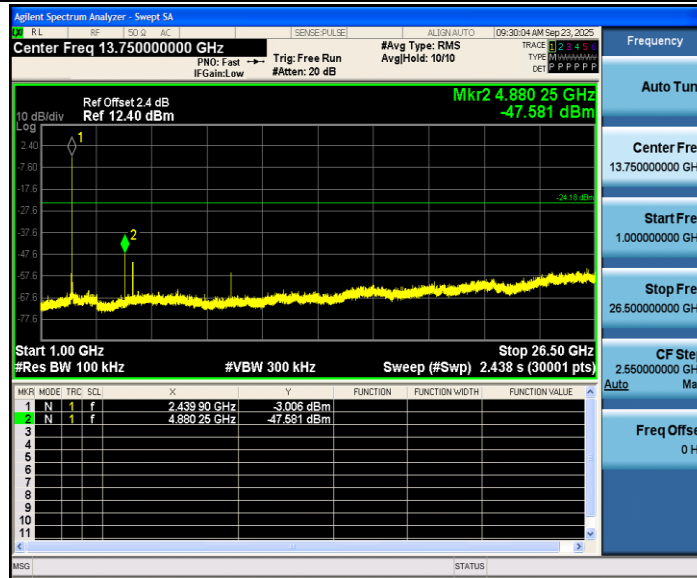
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



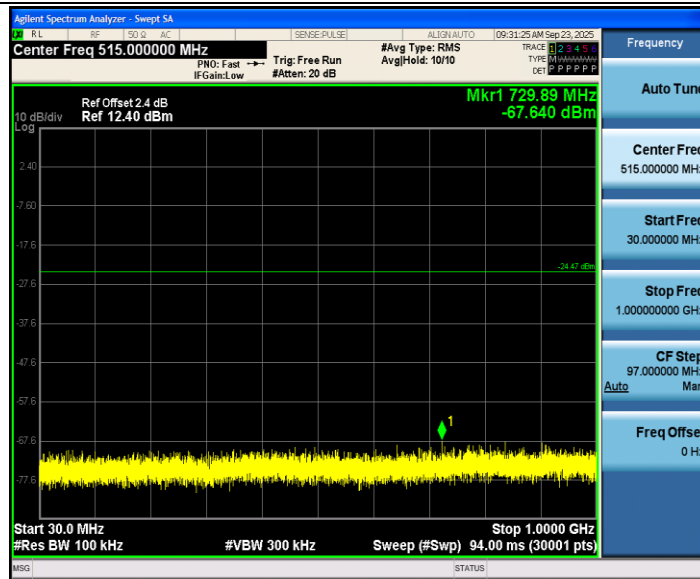
BLE_1M_Ant1_2440_1000~26500



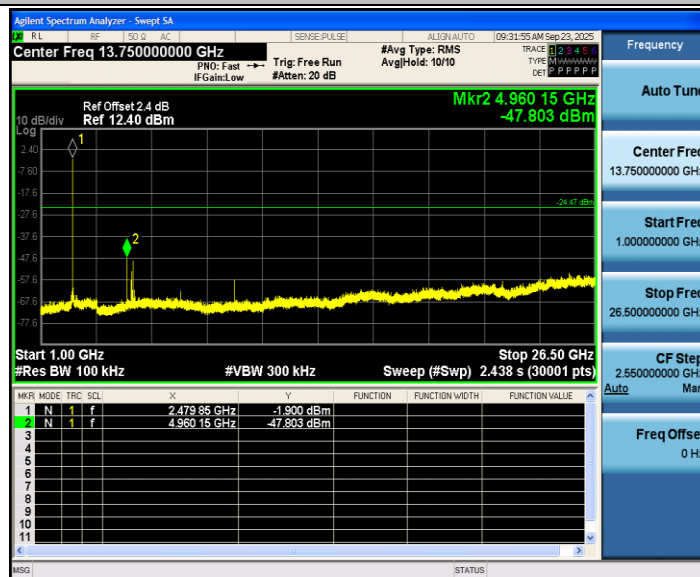
BLE_1M_Ant1_2480_0~Reference



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

