

Appendix RF Test Data for BLE

FCC ID : 2BMNL-RS300

Company : Zhuhai ChunFeng Electric Technology Co., Ltd

EUT : Electric Scooter

Model Number : RS300

Report No. : CTA25082701501

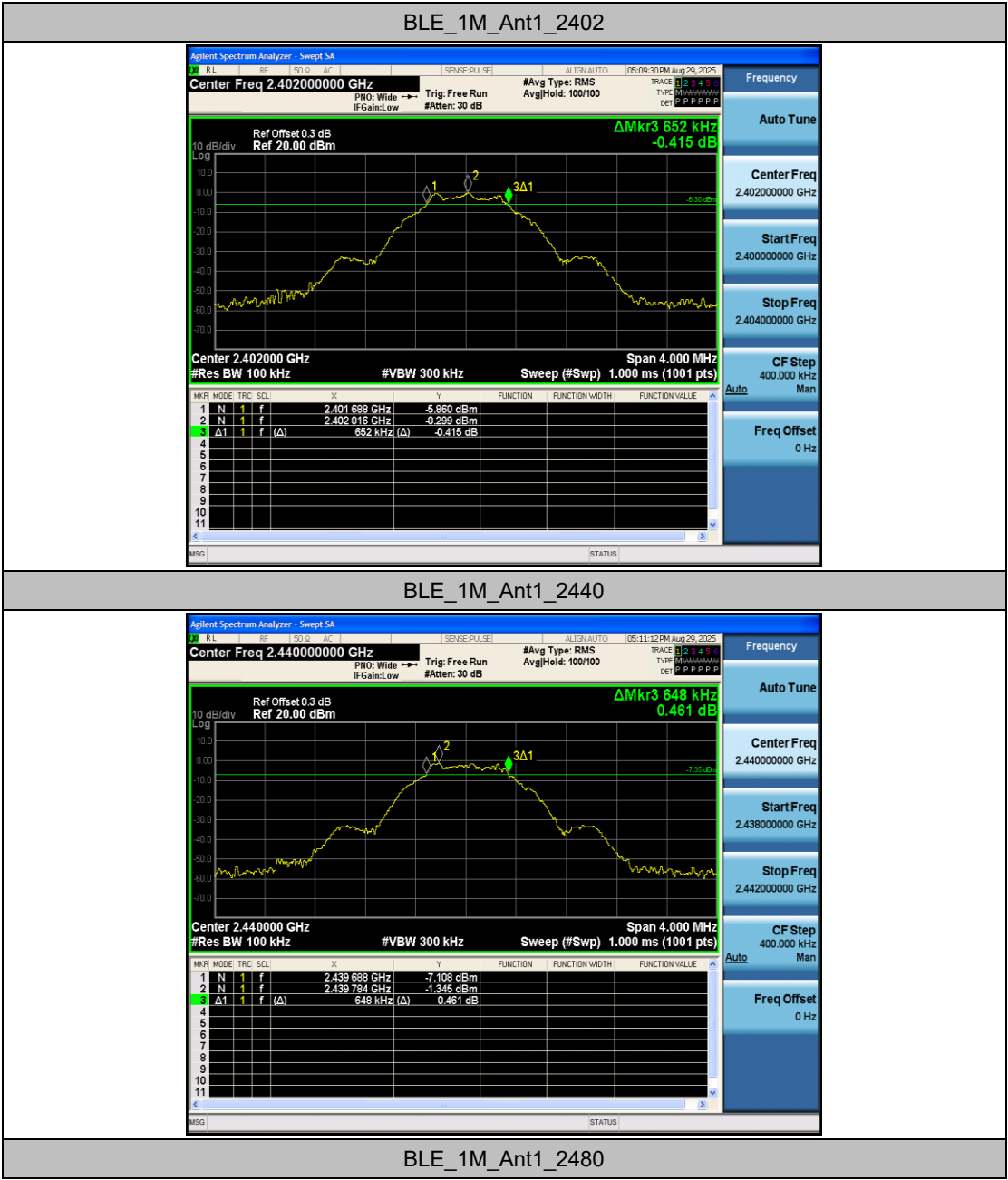
Reviewed By : Eric Wang

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.652	2401.688	2402.340	0.5	PASS
		2440	0.648	2439.688	2440.336	0.5	PASS
		2480	0.644	2479.692	2480.336	0.5	PASS

Test Graphs



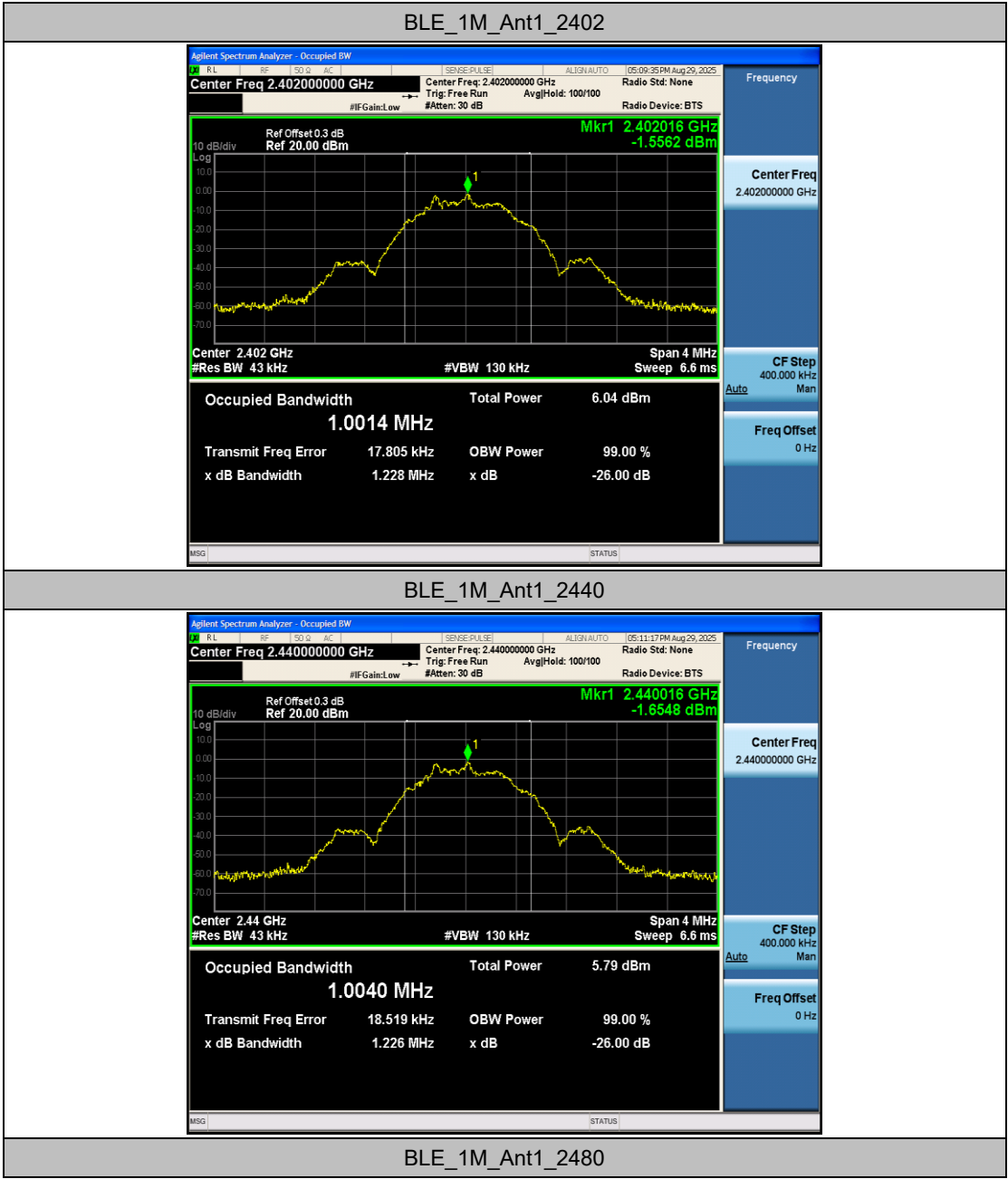


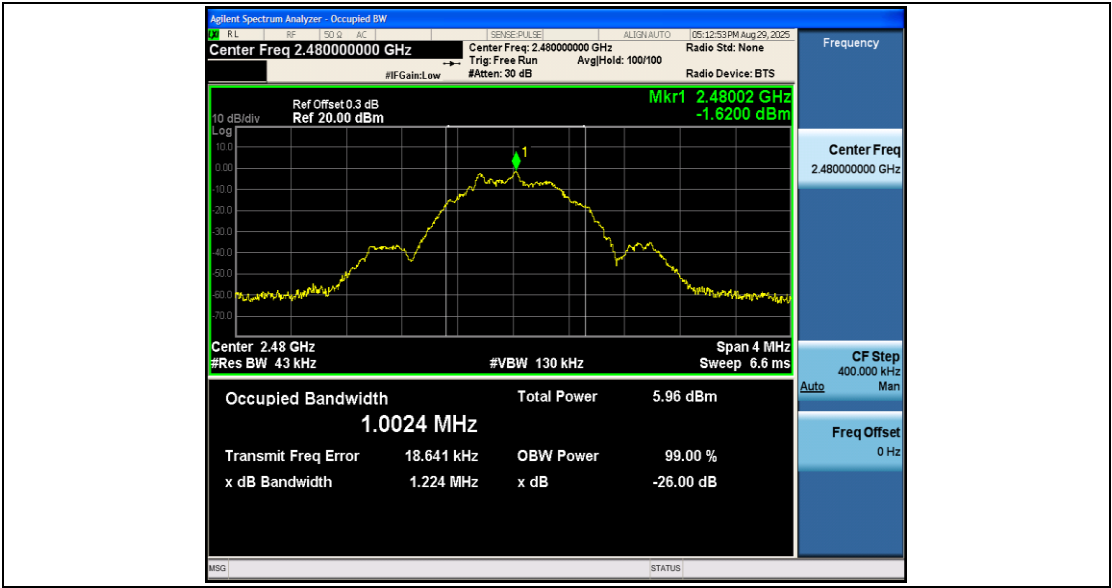
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0014	2401.5171	2402.5185	---	---
		2440	1.0040	2439.5165	2440.5205	---	---
		2480	1.0024	2479.5174	2480.5198	---	---

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	-0.17	≤30	PASS
		2440	-0.39	≤30	PASS
		2480	-0.31	≤30	PASS

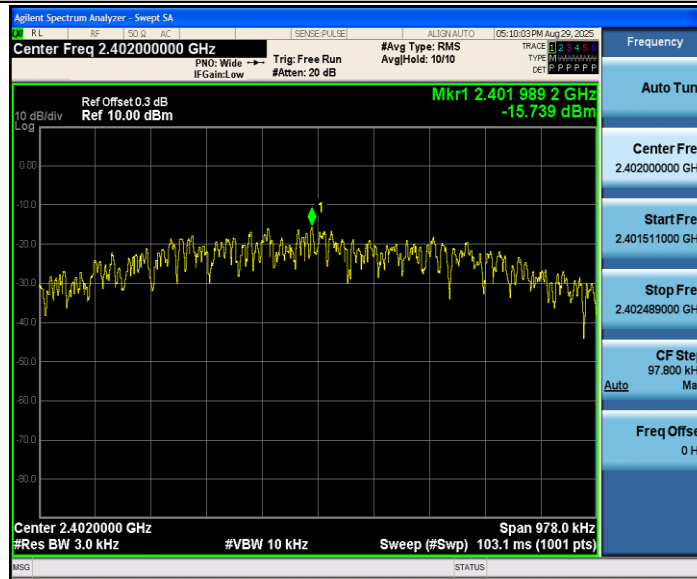
Appendix D: Maximum power spectral density

Test Result

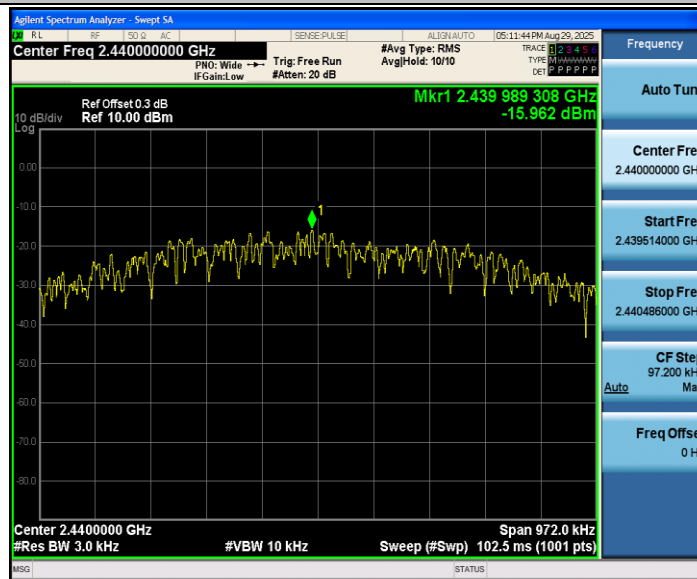
TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.74	≤8.00	PASS
		2440	-15.96	≤8.00	PASS
		2480	-15.69	≤8.00	PASS

Test Graphs

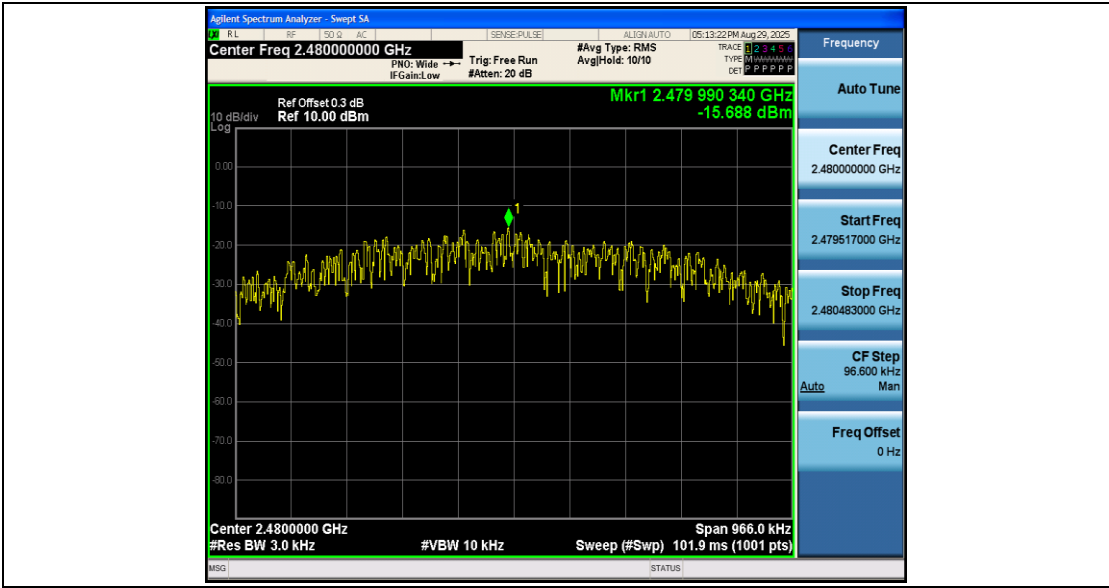
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



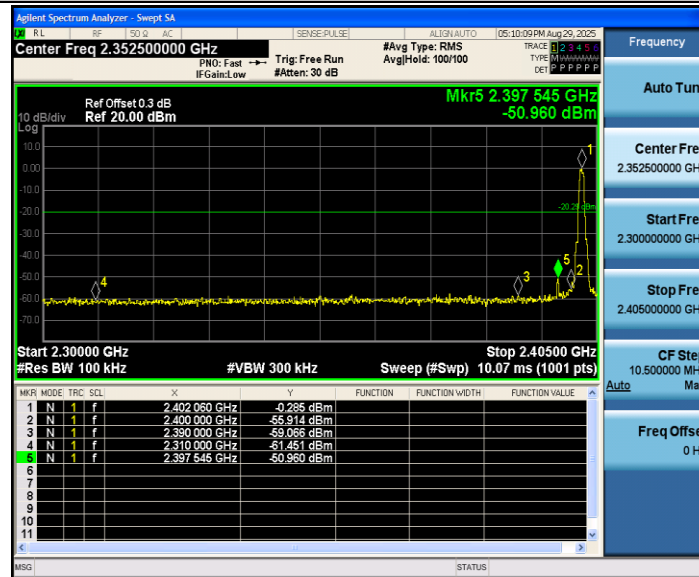
Appendix E: Band edge measurements

Test Result

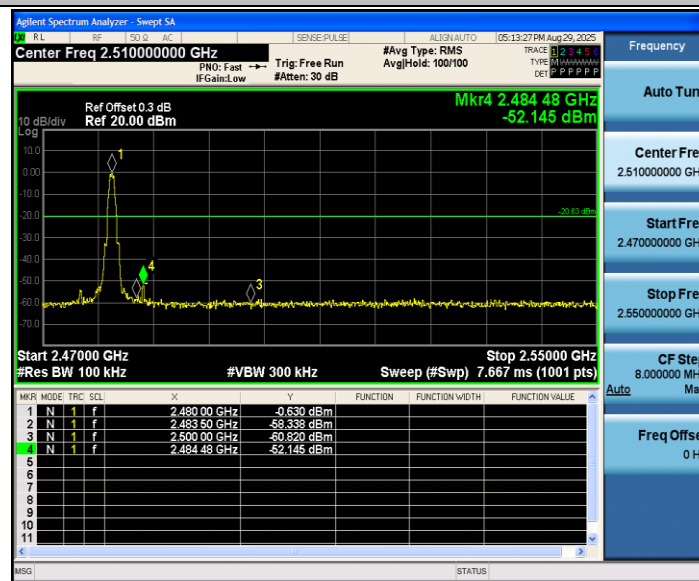
TestMod e	Antenn a	ChNam e	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
BLE_1M	Ant1	Low	2402	-0.29	-50.96	≤-20.29	PASS
		High	2480	-0.63	-52.15	≤-20.63	PASS

Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480

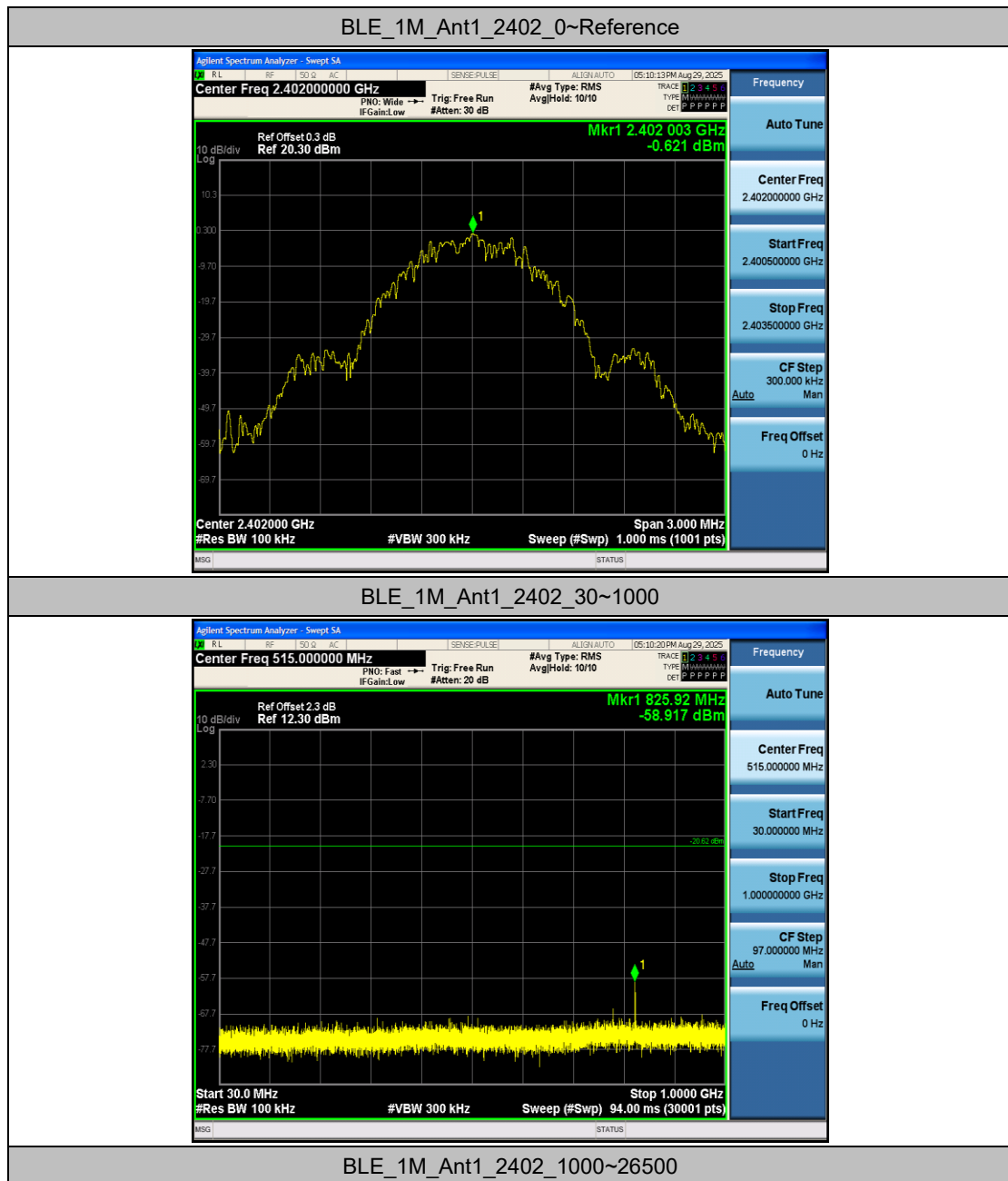


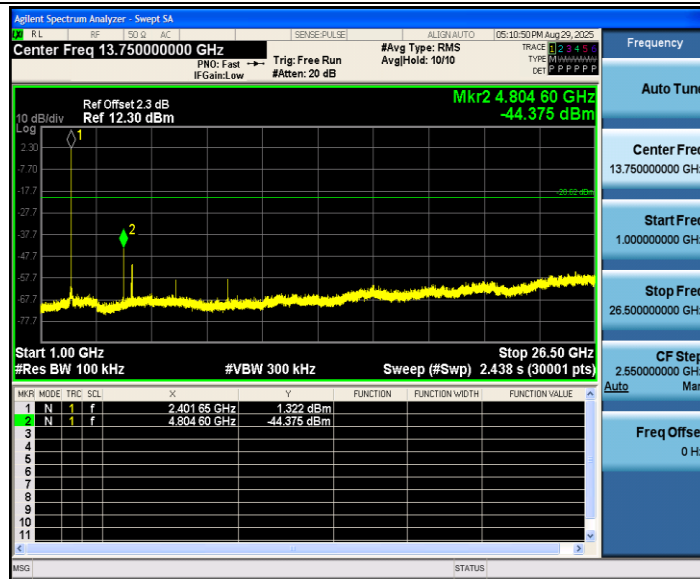
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-0.62	-0.62	---	PASS
			30~1000	-0.62	-58.92	≤-20.62	PASS
			1000~26500	-0.62	-44.38	≤-20.62	PASS
		2440	Reference	-0.83	-0.83	---	PASS
			30~1000	-0.83	-68.08	≤-20.83	PASS
			1000~26500	-0.83	-41.45	≤-20.83	PASS
		2480	Reference	-0.98	-0.98	---	PASS
			30~1000	-0.98	-67.99	≤-20.98	PASS
			1000~26500	-0.98	-42.55	≤-20.98	PASS

Test Graphs

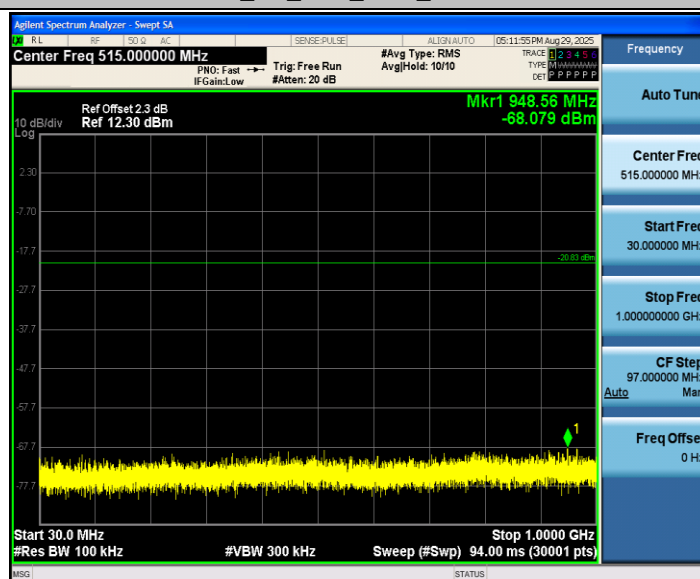




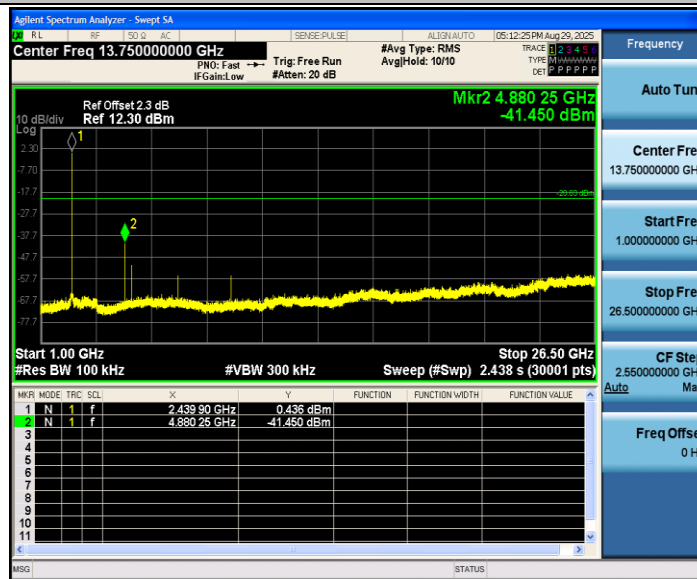
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



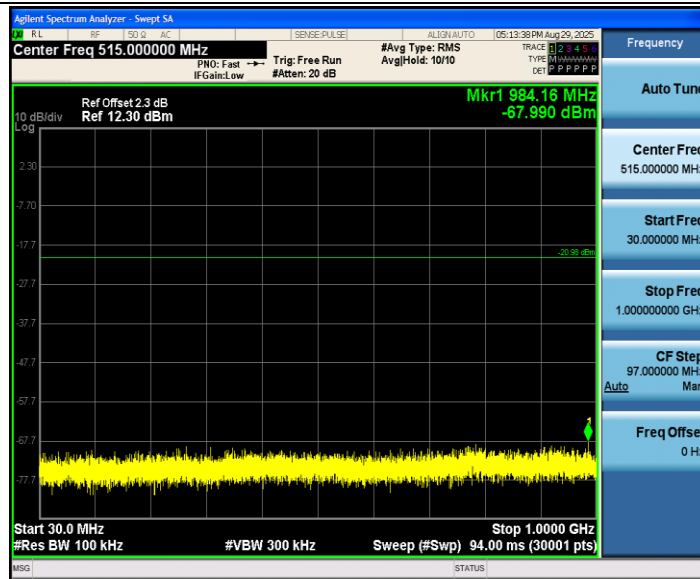
BLE_1M_Ant1_2440_1000~26500



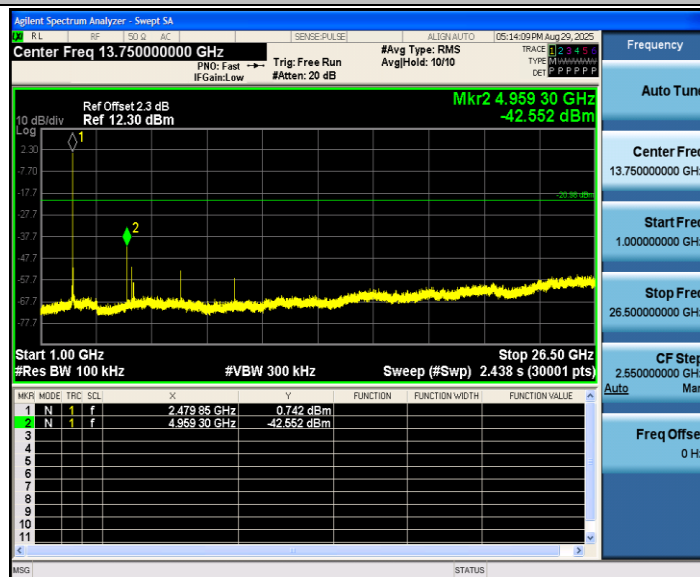
BLE_1M_Ant1_2480_0~Reference



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

