

FCC Appendix RF Test Data for BLE

FCC ID : 2BR7M-F10

Company : Shenzhen Boda Acoustic Technology Co., LTD

EUT : Smart Tag FINDER

Model Number : F10

Report No. : CTA25090100101

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	0.700	2401.632	2402.332	0.5	PASS
		2440	0.636	2439.668	2440.304	0.5	PASS
		2480	0.640	2479.664	2480.304	0.5	PASS

Test Graphs



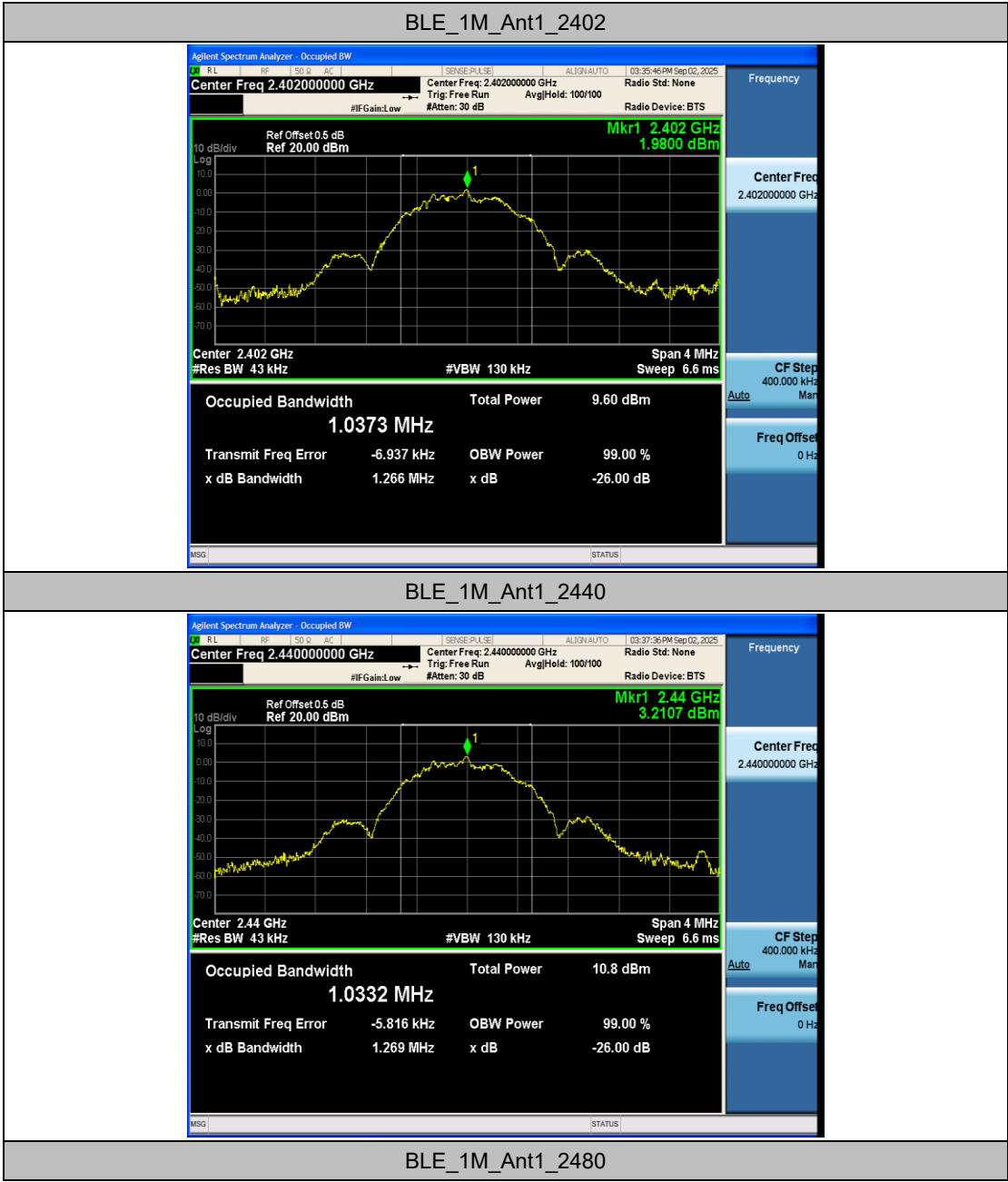


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0373	2401.4744	2402.5117	---	---
		2440	1.0332	2439.4776	2440.5108	---	---
		2480	1.0354	2479.4739	2480.5093	---	---

Test Graphs





Appendix C: Maximum conducted output power

Test Result Peak

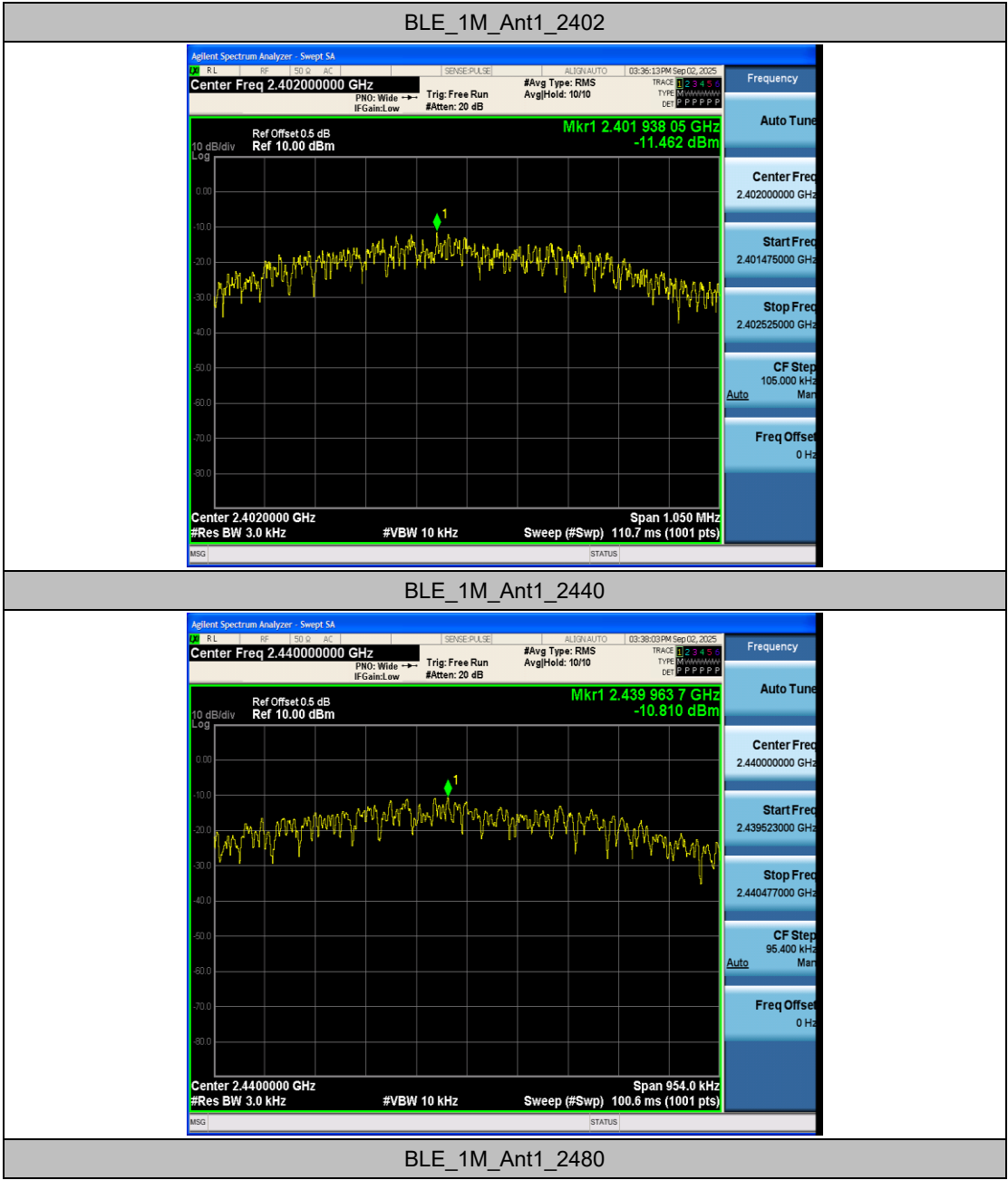
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	3.41	≤30	PASS
		2440	4.58	≤30	PASS
		2480	3.87	≤30	PASS

Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-11.46	≤8.00	PASS
		2440	-10.81	≤8.00	PASS
		2480	-11.84	≤8.00	PASS

Test Graphs

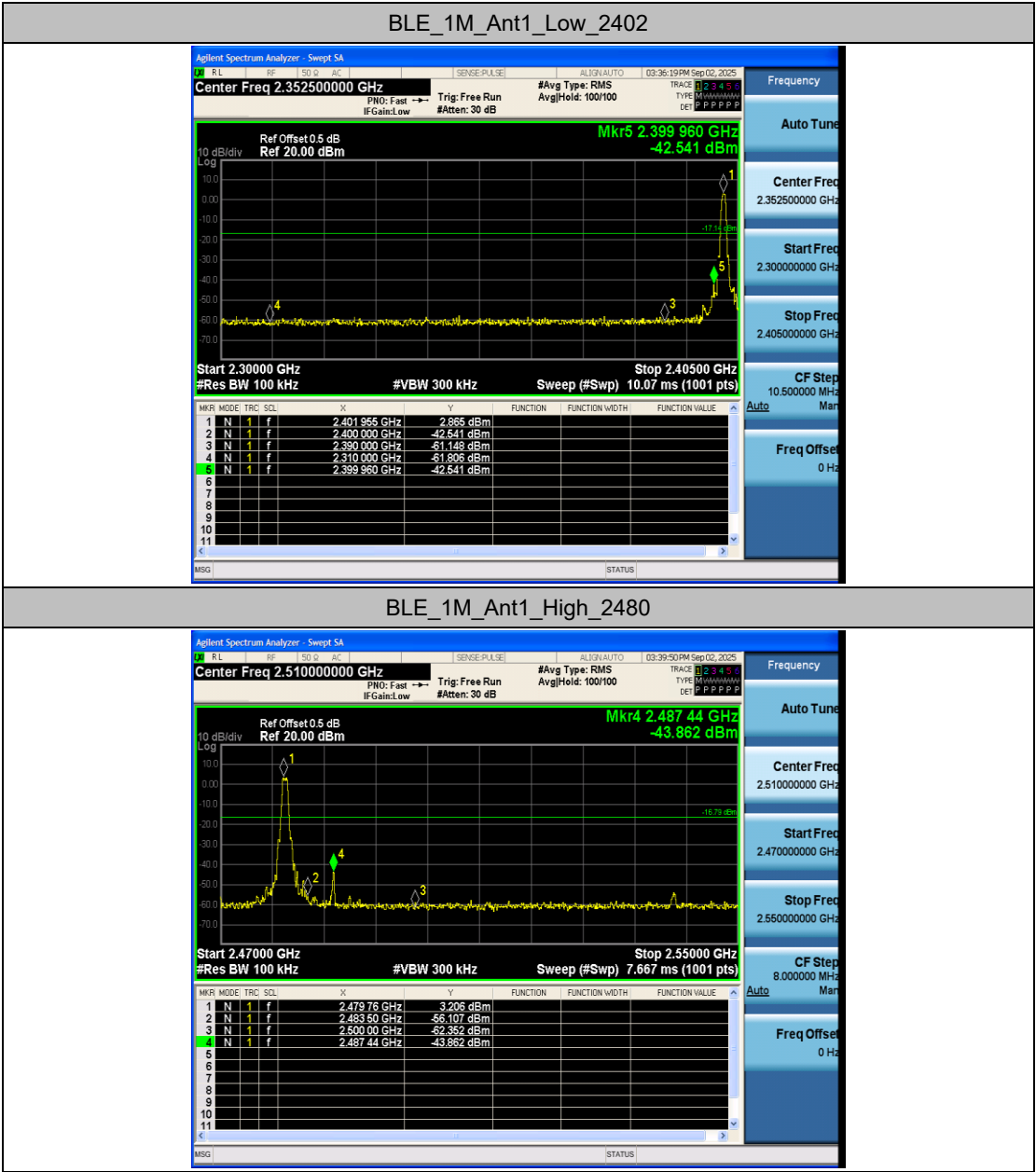


Appendix E: Band edge measurements

Test Result

TestMod e	Antenn a	ChNam e	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
BLE_1M	Ant1	Low	2402	2.87	-42.54	≤-17.14	PASS
		High	2480	3.21	-43.86	≤-16.79	PASS

Test Graphs

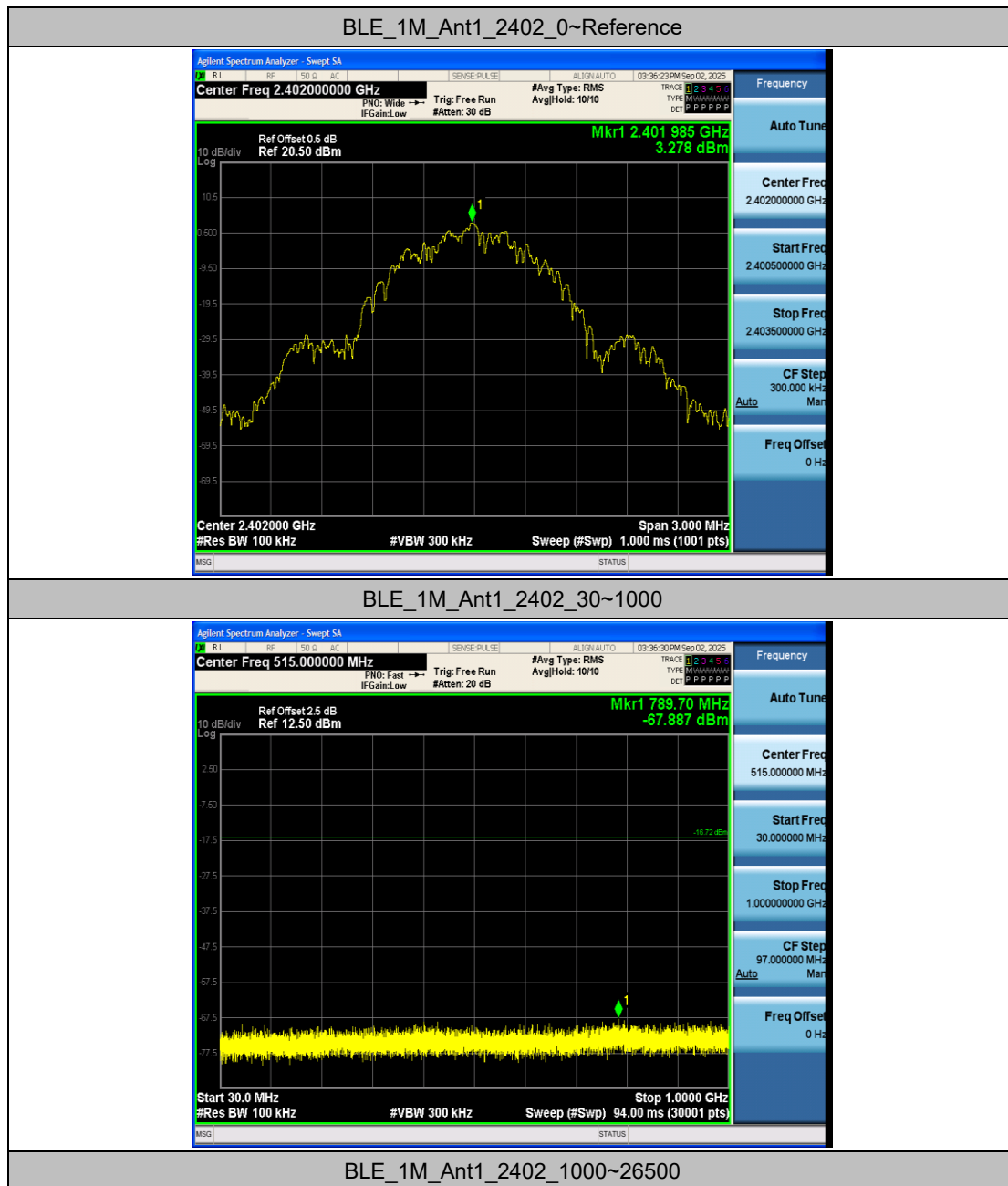


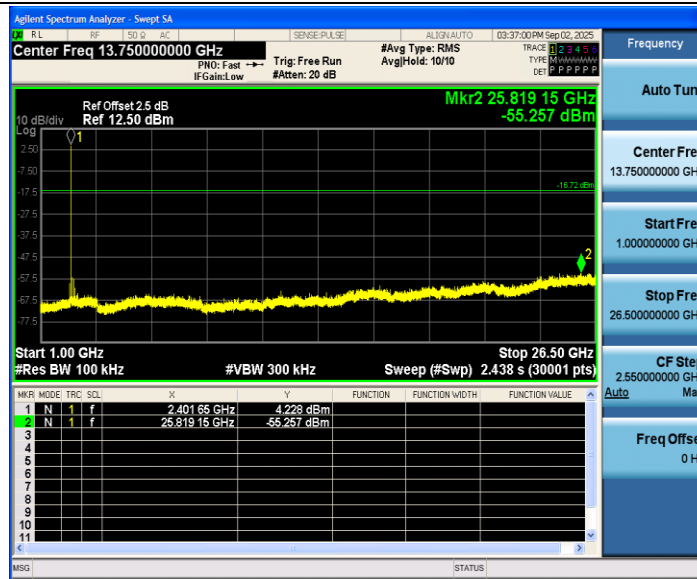
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	3.28	3.28	---	PASS
			30~1000	3.28	-67.89	≤-16.72	PASS
			1000~26500	3.28	-55.26	≤-16.72	PASS
		2440	Reference	3.19	3.19	---	PASS
			30~1000	3.19	-68.41	≤-16.81	PASS
			1000~26500	3.19	-54.46	≤-16.81	PASS
		2480	Reference	3.85	3.85	---	PASS
			30~1000	3.85	-68.01	≤-16.15	PASS
			1000~26500	3.85	-54.72	≤-16.15	PASS

Test Graphs

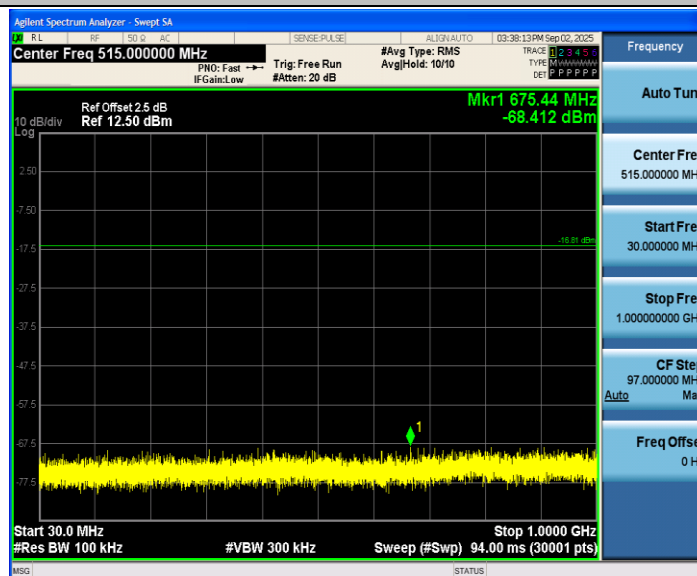




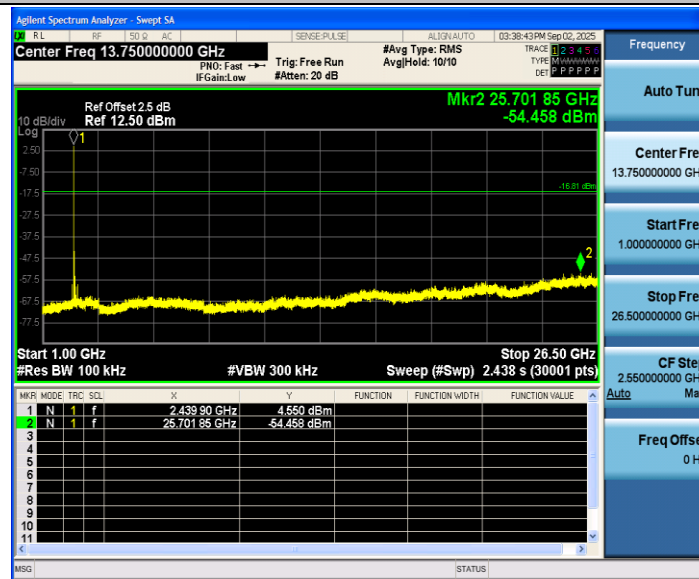
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



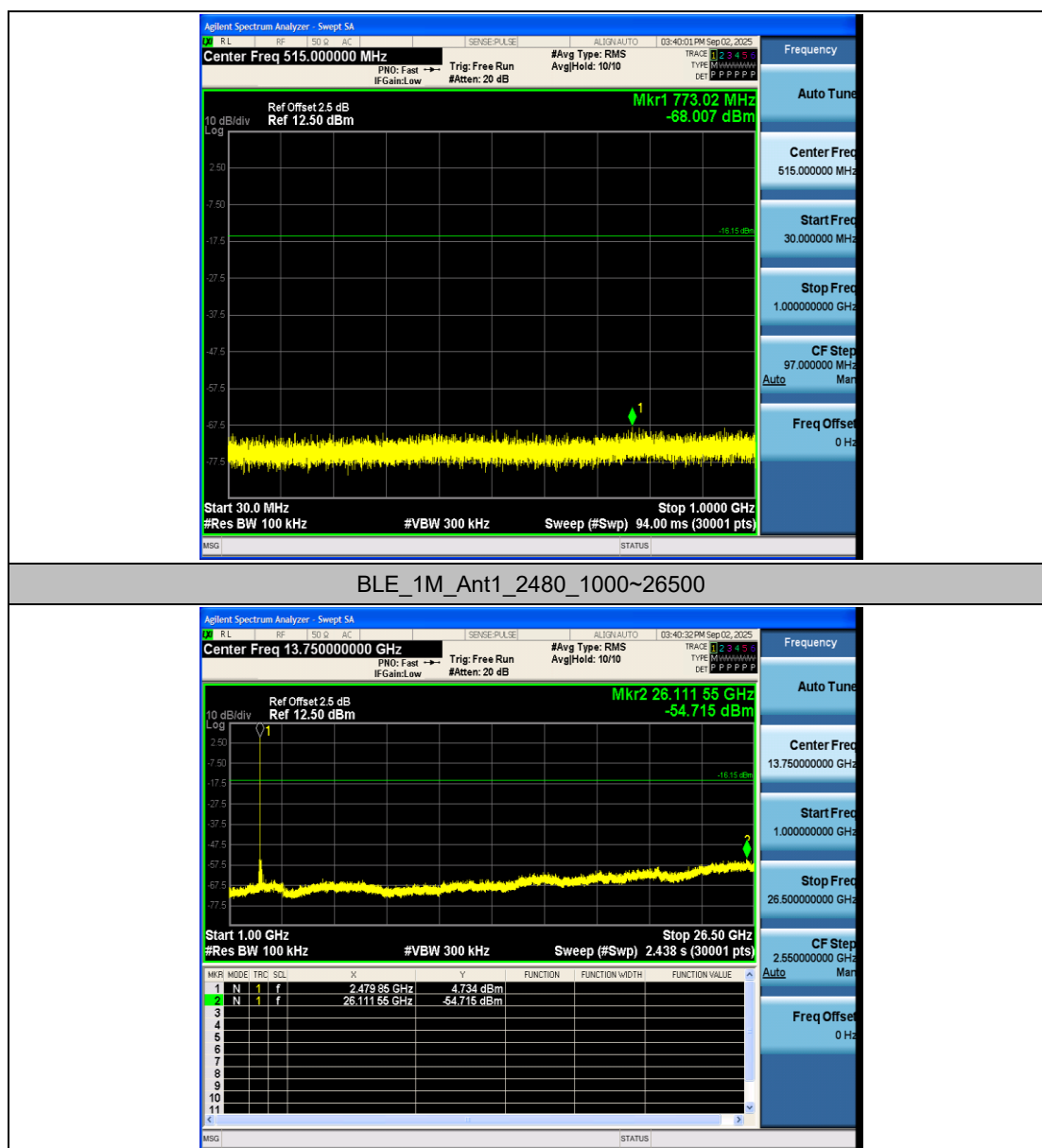
BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	0.39	0.62	0.6290	62.90	2.01	---	---
		2440	0.39	0.62	0.6290	62.90	2.01	---	---
		2480	0.39	0.62	0.6290	62.90	2.01	---	---

Test Graphs

