

Appendix RF Test Data for BLE

FCC ID : 2A5ZU-BTL307

Company : Shenzhen Baojia Battery Technology Co.,Ltd.

EUT : PLAYBULB FLOOR

Model Number : BTL307

Report No. : CTA25090200401

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	0.656	2401.656	2402.312	0.5	PASS
		2440	0.704	2439.628	2440.332	0.5	PASS
		2480	0.712	2479.620	2480.332	0.5	PASS

Test Graphs



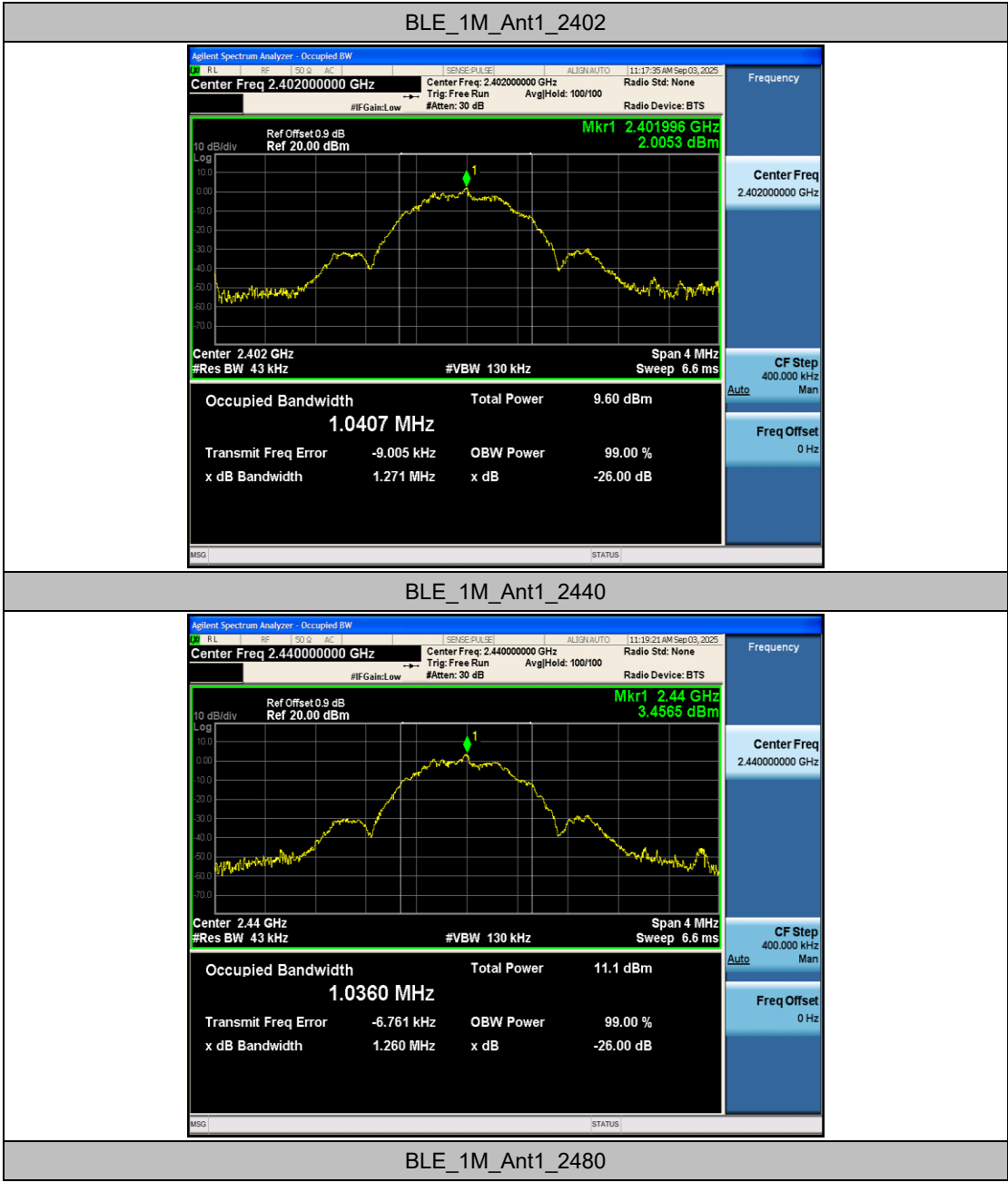


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0407	2401.4706	2402.5113	---	---
		2440	1.0360	2439.4752	2440.5112	---	---
		2480	1.0398	2479.4711	2480.5109	---	---

Test Graphs





Appendix C: Maximum conducted output power

Test Result Peak

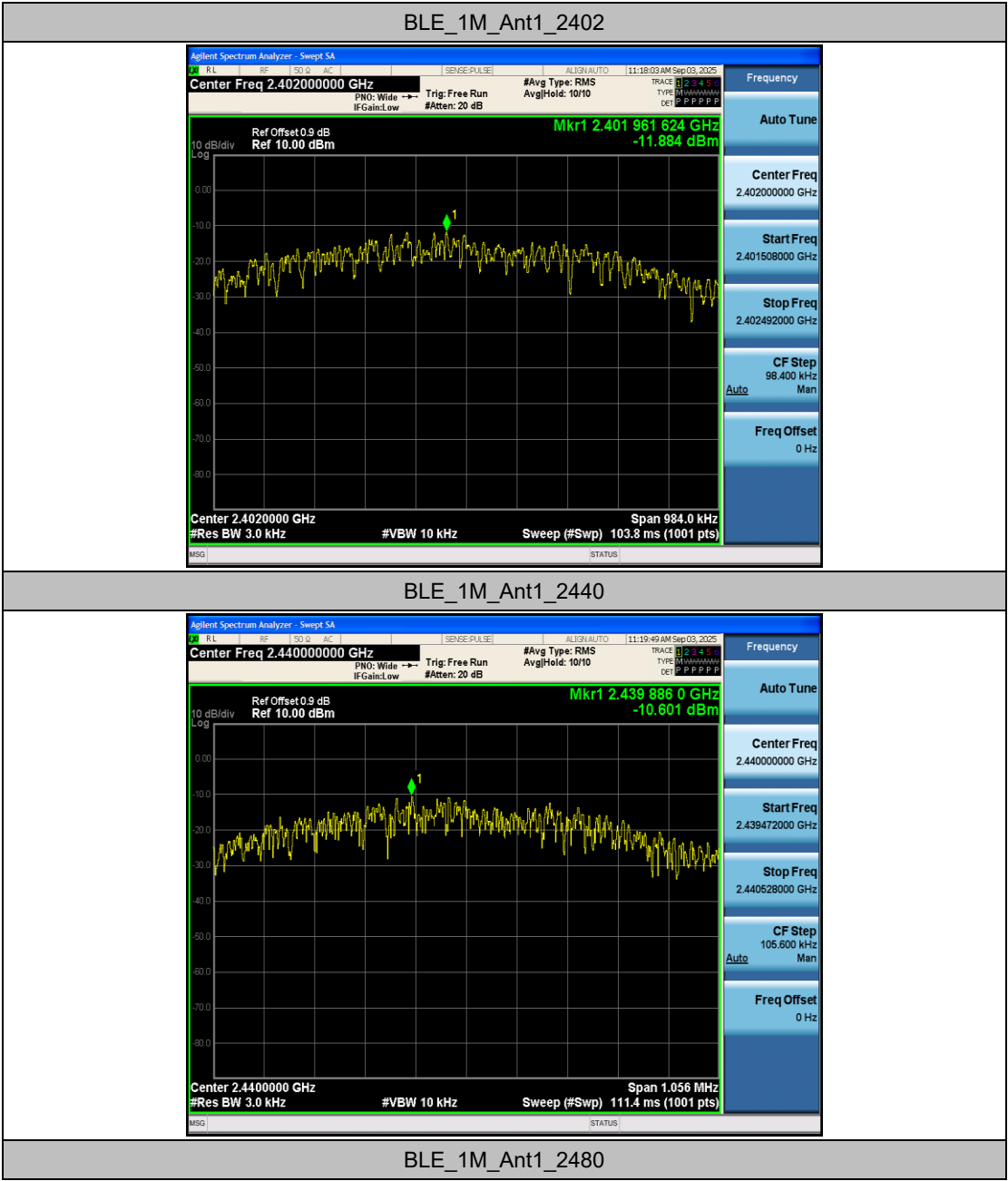
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	3.46	≤30	PASS
		2440	4.90	≤30	PASS
		2480	4.30	≤30	PASS

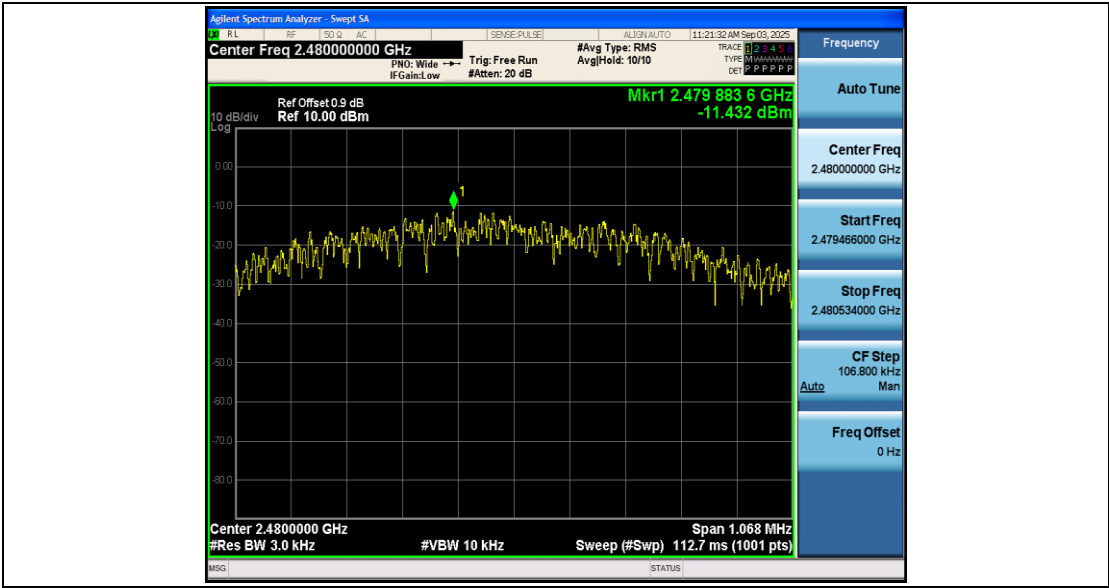
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-11.88	≤8.00	PASS
		2440	-10.60	≤8.00	PASS
		2480	-11.43	≤8.00	PASS

Test Graphs



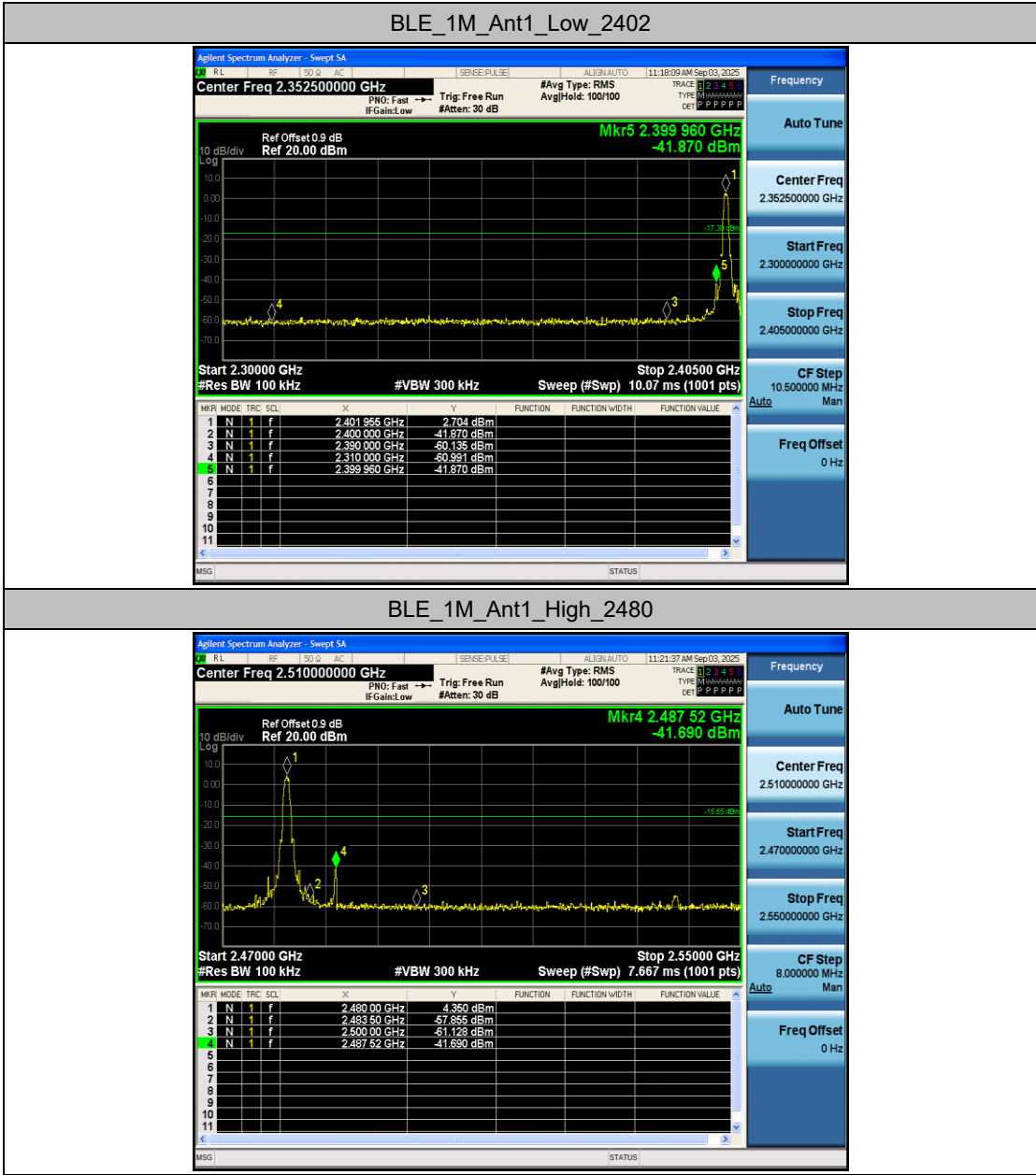


Appendix E: Band edge measurements

Test Result

TestMod e	Antenn a	ChNam e	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
BLE_1M	Ant1	Low	2402	2.70	-41.87	≤-17.3	PASS
		High	2480	4.35	-41.69	≤-15.65	PASS

Test Graphs

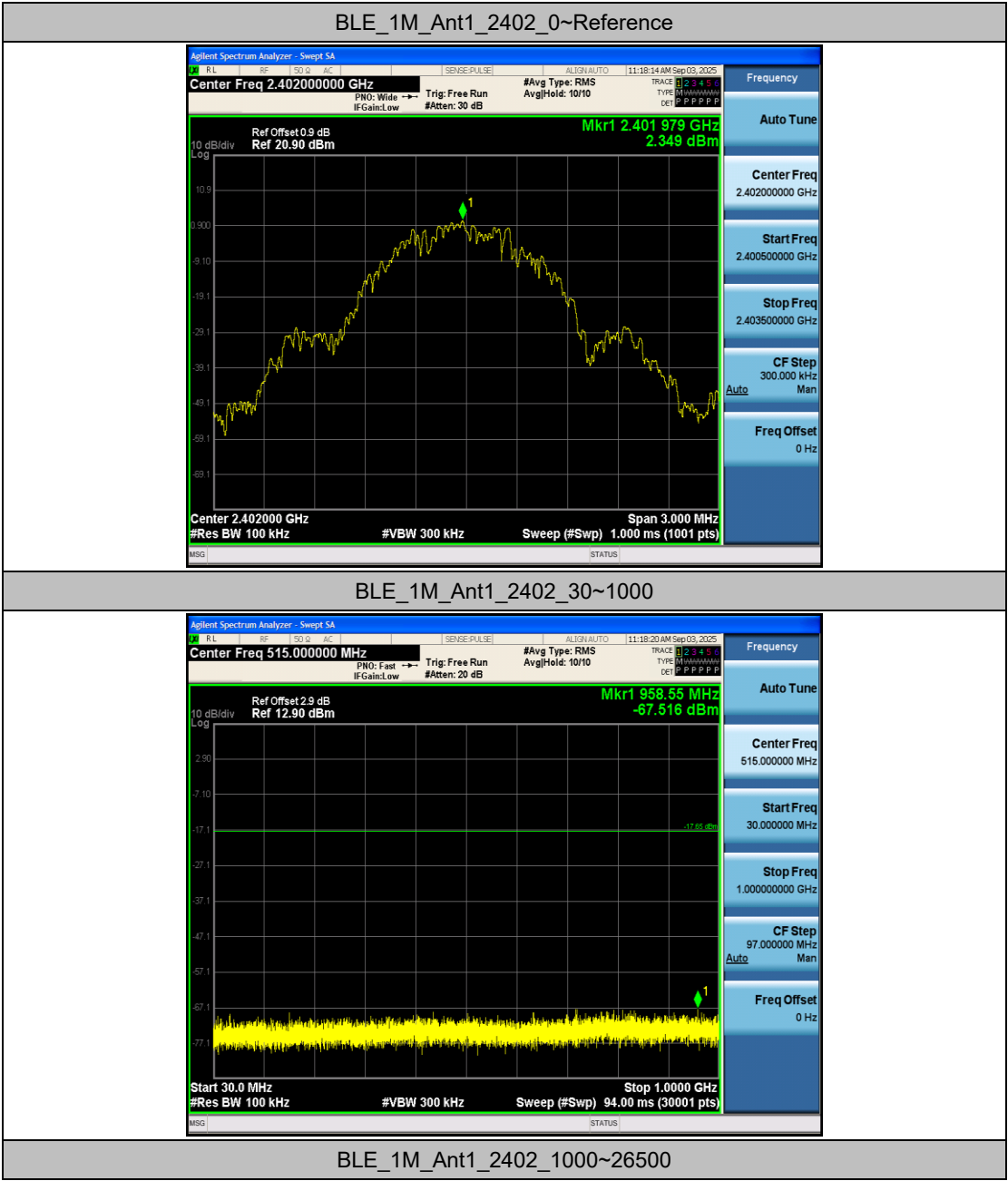


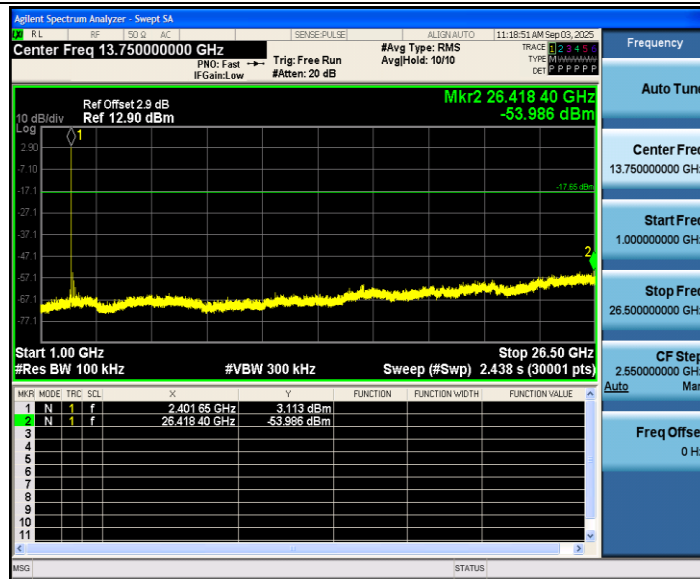
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	2.35	2.35	---	PASS
			30~1000	2.35	-67.52	≤-17.65	PASS
			1000~26500	2.35	-53.99	≤-17.65	PASS
		2440	Reference	2.99	2.99	---	PASS
			30~1000	2.99	-67.48	≤-17.01	PASS
			1000~26500	2.99	-54.57	≤-17.01	PASS
		2480	Reference	4.00	4.00	---	PASS
			30~1000	4.00	-67.66	≤-16	PASS
			1000~26500	4.00	-54.67	≤-16	PASS

Test Graphs

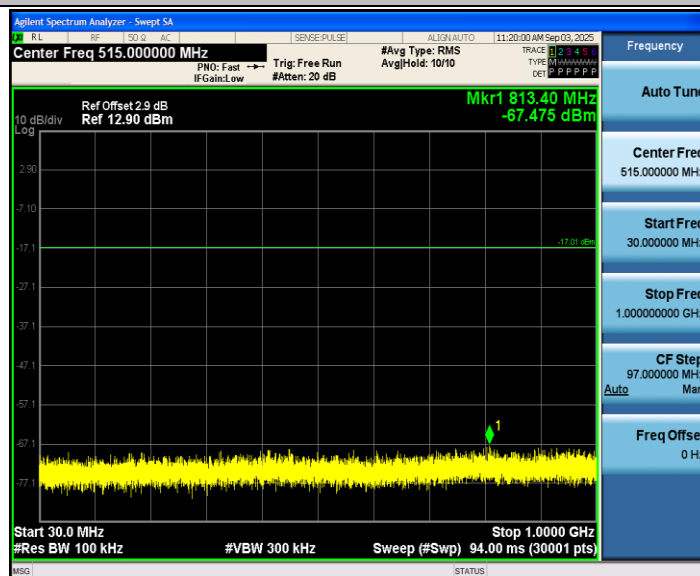




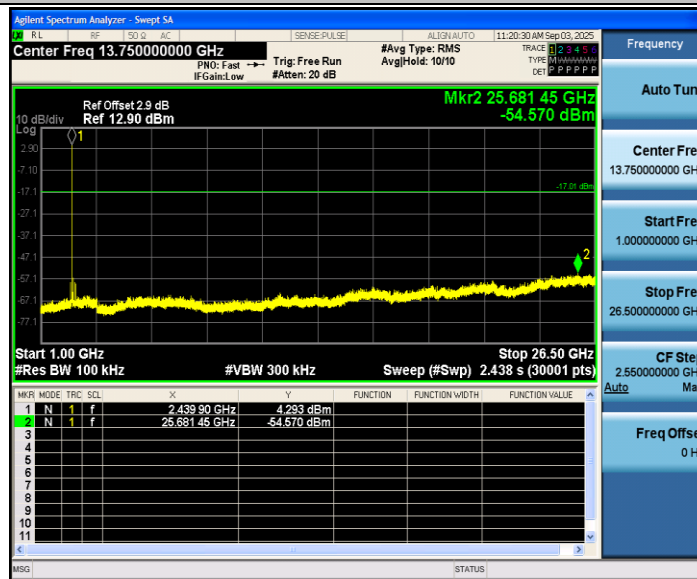
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



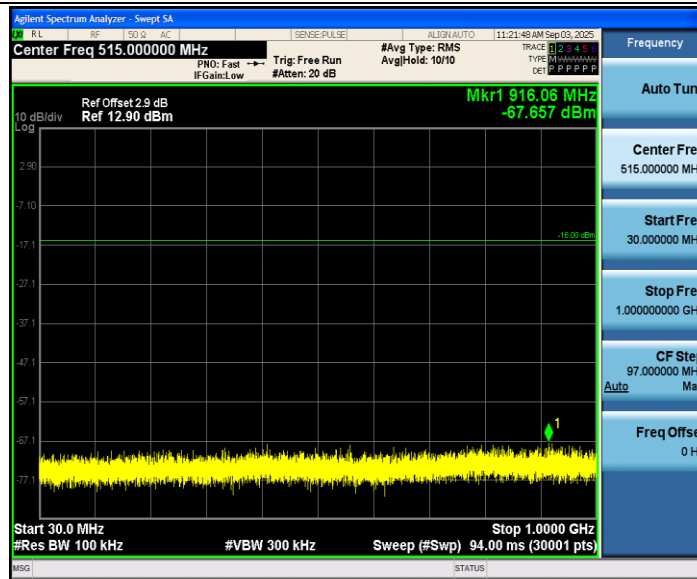
BLE_1M_Ant1_2440_1000~26500



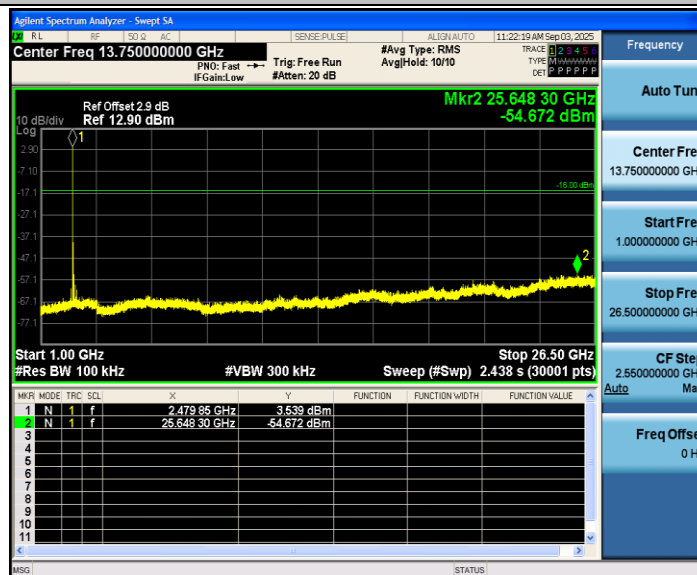
BLE_1M_Ant1_2480_0~Reference



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	0.39	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

