

Appendix RF Test Data for BLE

FCC ID : 2BRMF-K1

Company : Shenzhen Hongtu Chuangzhan Industrial Co., LTD

EUT : Magnetic selfie screen

Model Number : K1

Report No. : CTA25072300501

Reviewed By : Eric Wang

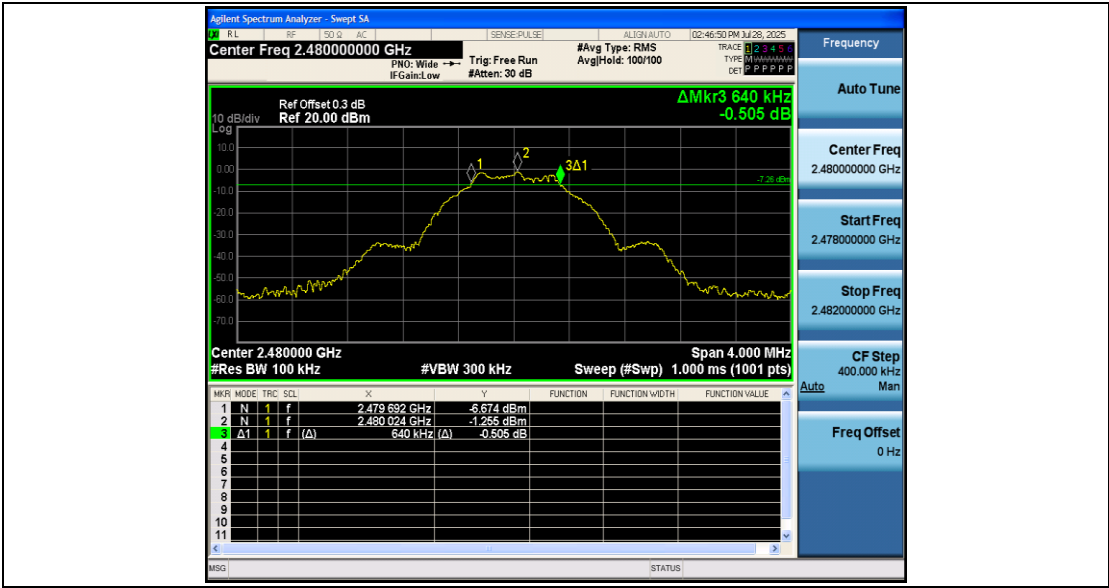
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.644	2401.688	2402.332	0.5	PASS
		2440	0.652	2439.684	2440.336	0.5	PASS
		2480	0.640	2479.692	2480.332	0.5	PASS

Test Graphs



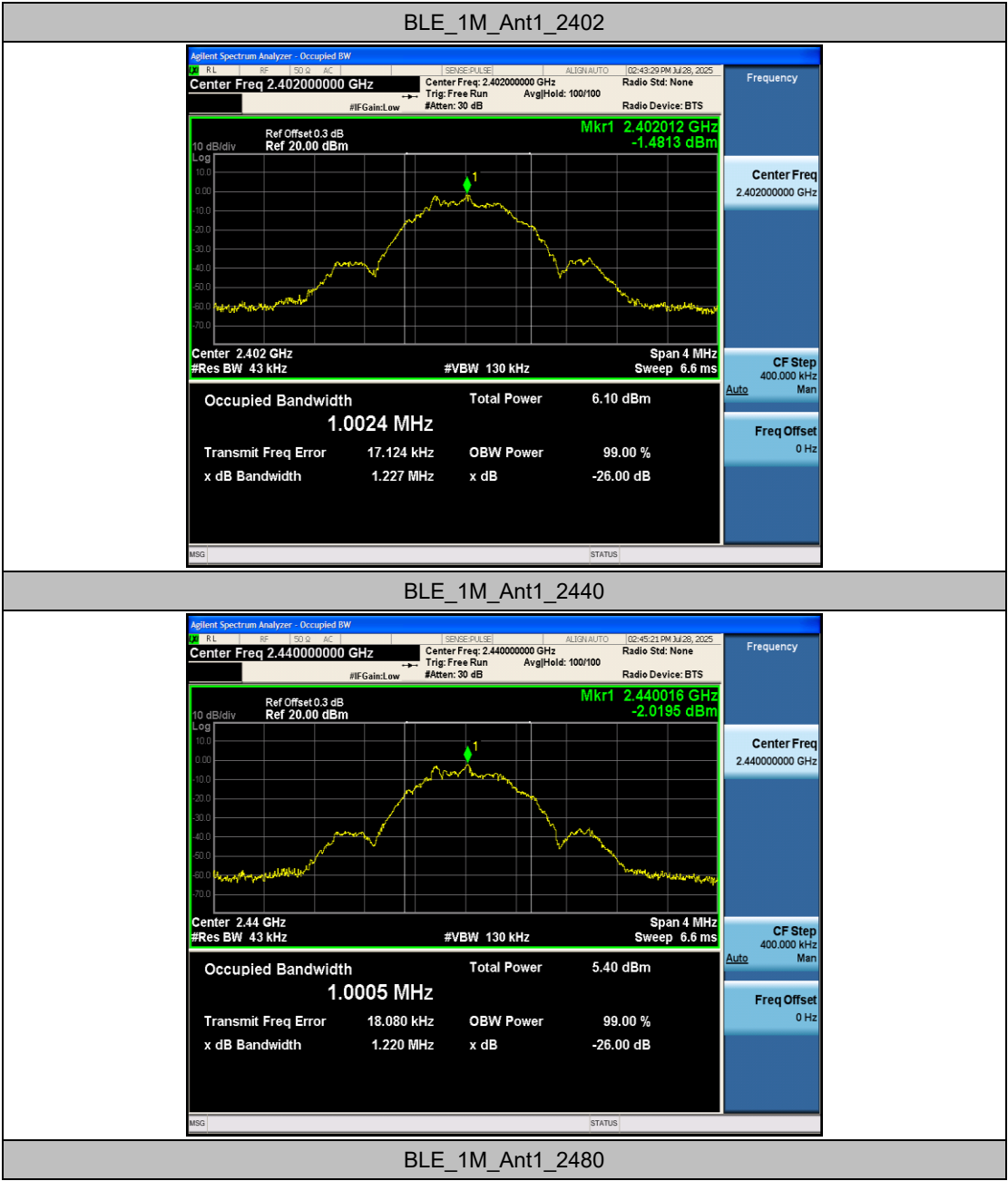


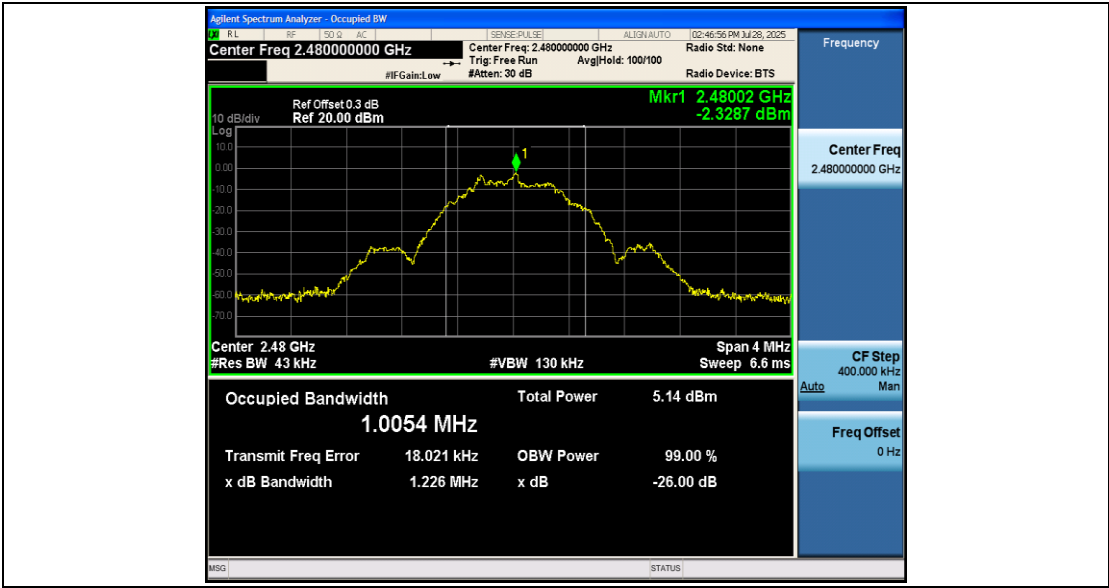
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0024	2401.5159	2402.5183	---	---
		2440	1.0005	2439.5178	2440.5183	---	---
		2480	1.0054	2479.5153	2480.5207	---	---

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	-0.13	≤30	PASS
		2440	-0.77	≤30	PASS
		2480	-1.07	≤30	PASS

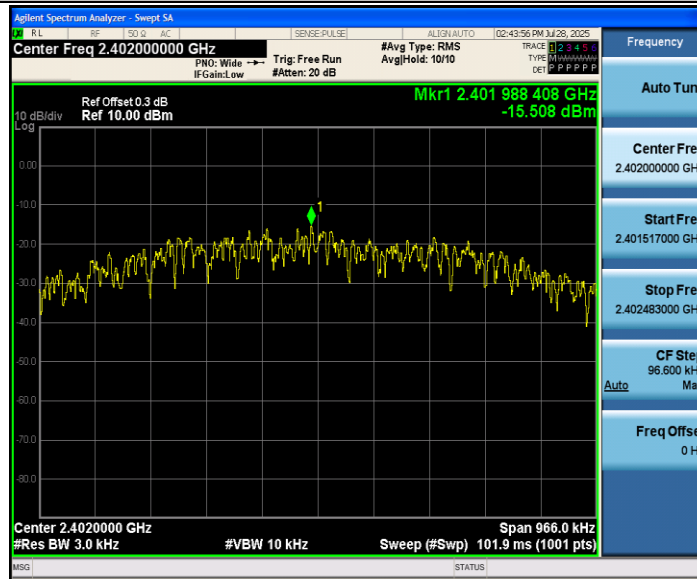
Appendix D: Maximum power spectral density

Test Result

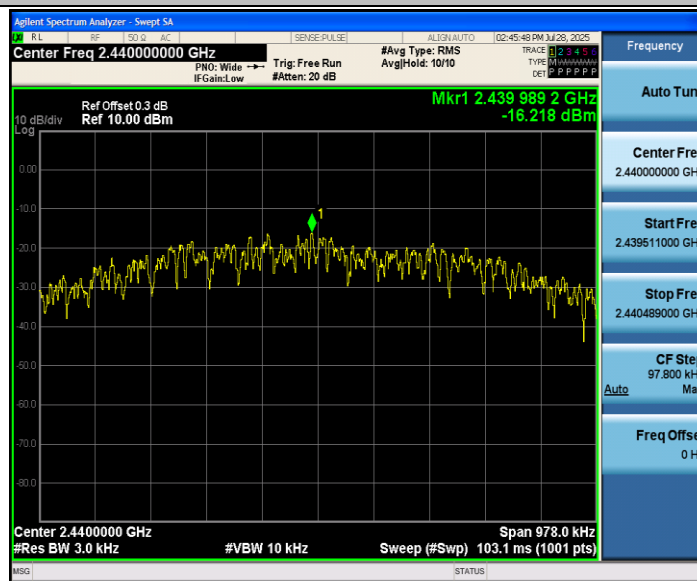
TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.51	≤8.00	PASS
		2440	-16.22	≤8.00	PASS
		2480	-16.55	≤8.00	PASS

Test Graphs

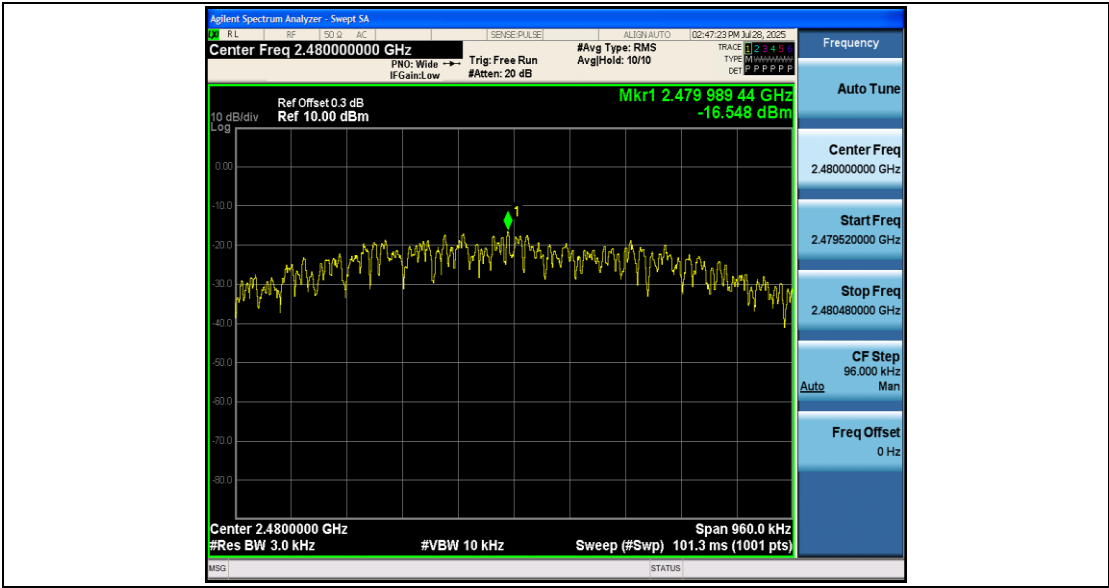
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



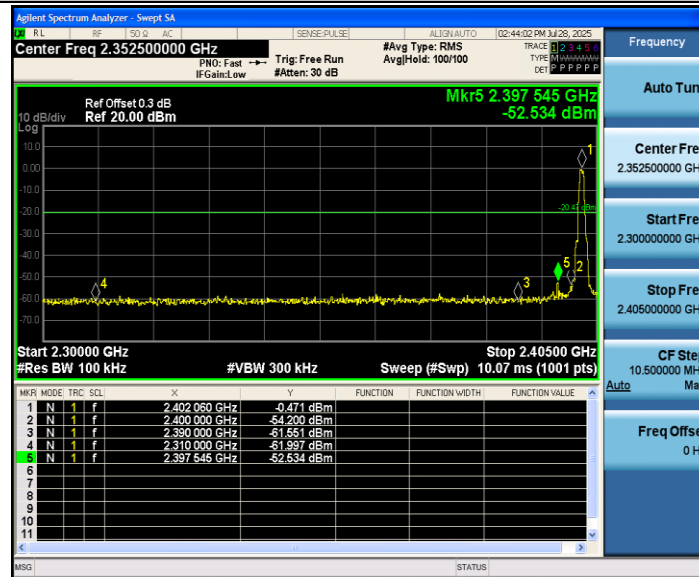
Appendix E: Band edge measurements

Test Result

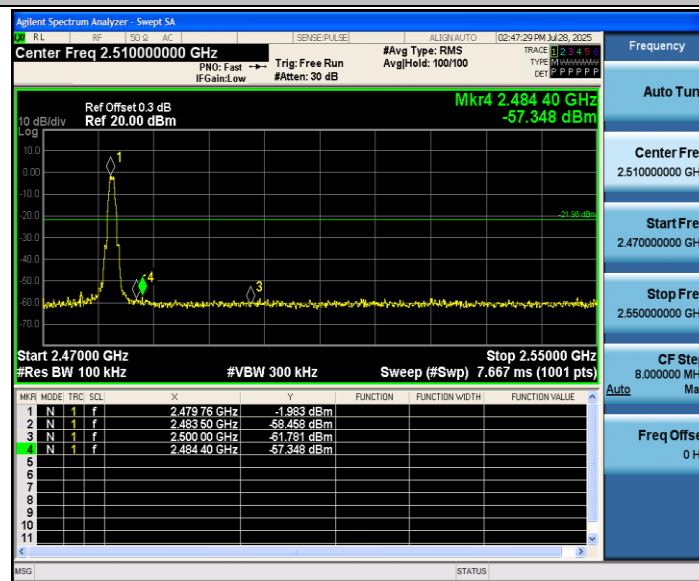
TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.47	-52.53	≤-20.47	PASS
		High	2480	-1.98	-57.35	≤-21.98	PASS

Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480

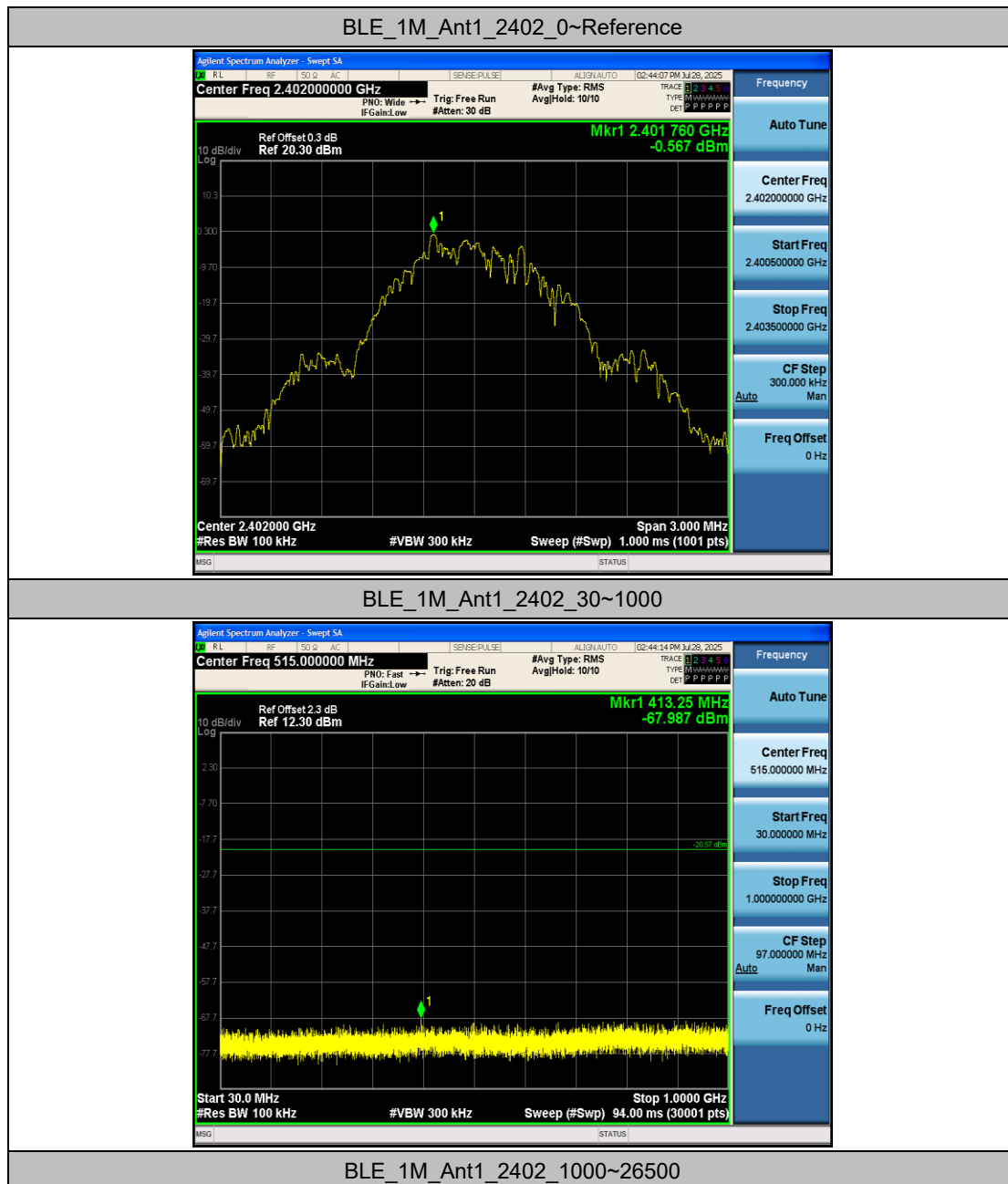


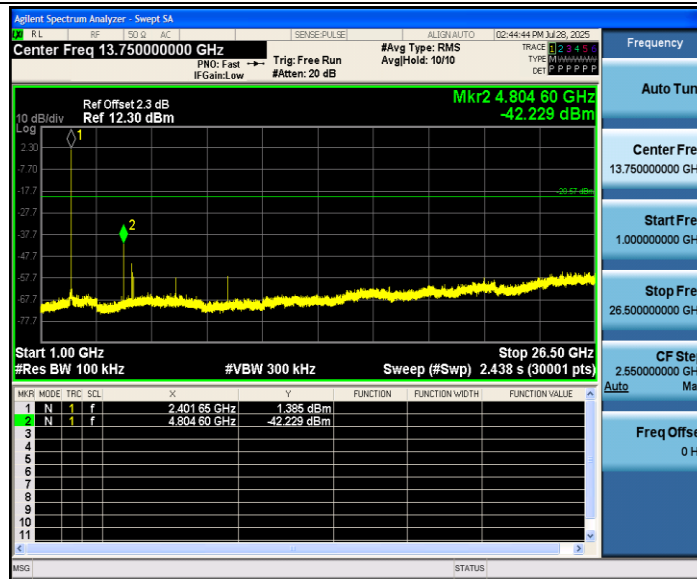
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-0.57	-0.57	---	PASS
			30~1000	-0.57	-67.99	≤-20.57	PASS
			1000~26500	-0.57	-42.23	≤-20.57	PASS
		2440	Reference	-0.94	-0.94	---	PASS
			30~1000	-0.94	-68.56	≤-20.94	PASS
			1000~26500	-0.94	-44.5	≤-20.94	PASS
		2480	Reference	-1.52	-1.52	---	PASS
			30~1000	-1.52	-67.77	≤-21.52	PASS
			1000~26500	-1.52	-43.66	≤-21.52	PASS

Test Graphs

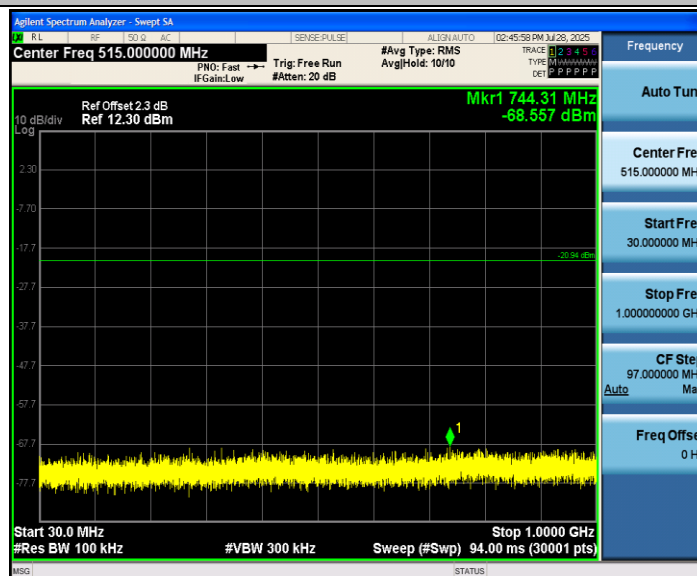




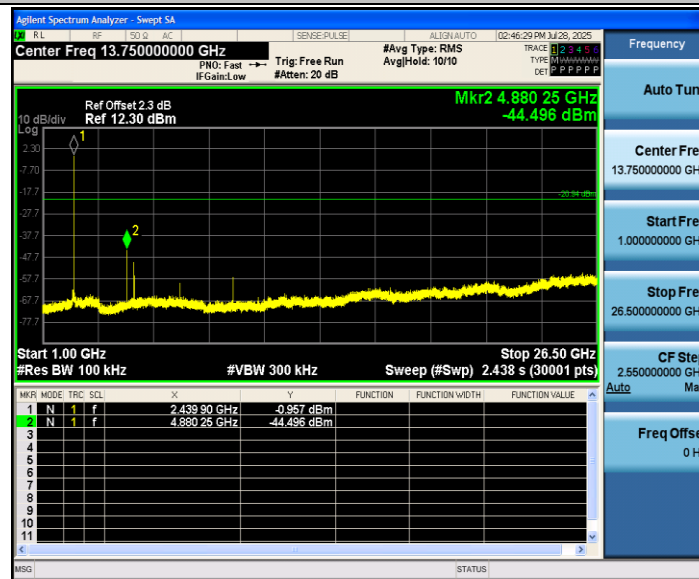
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



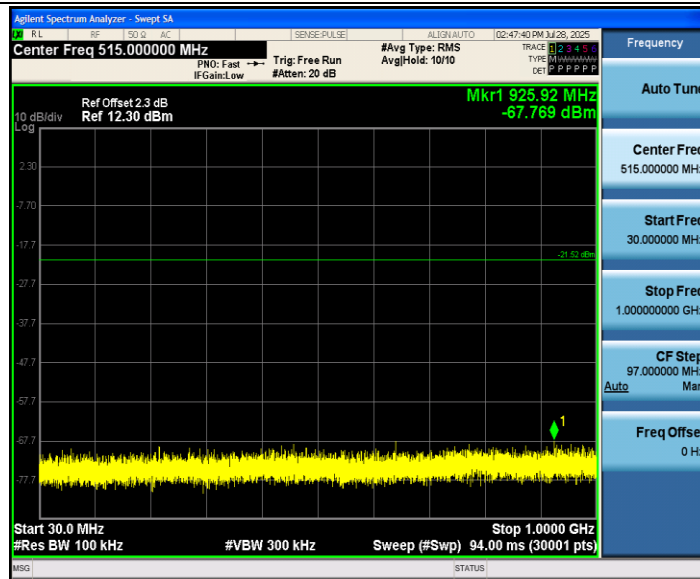
BLE_1M_Ant1_2440_1000~26500



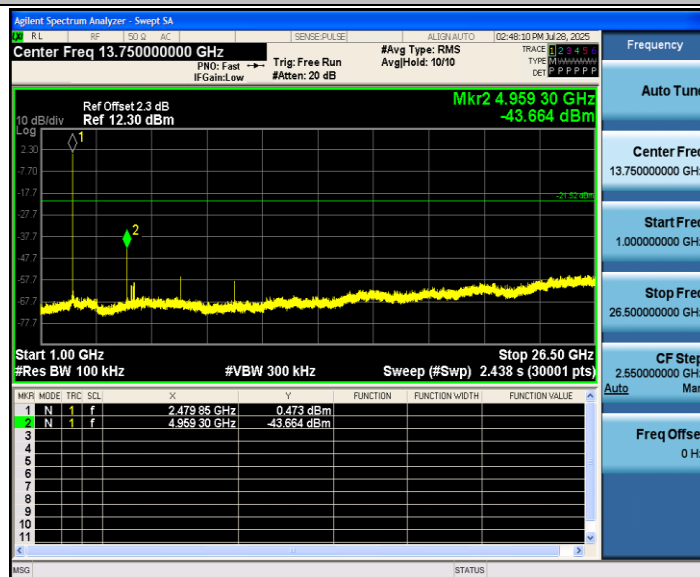
BLE_1M_Ant1_2480_0~Reference



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

