

Appendix RF Test Data for BLE

FCC ID : 2BRKO-WL868

Company : Wenzhou Mingchuang Electronic Co., Ltd

EUT : Vertical screen Bluetooth remote control amplifier for
mobile phones

Model Number : WL868

Report No. : CTA25072500301

Reviewed By : Eric Wang

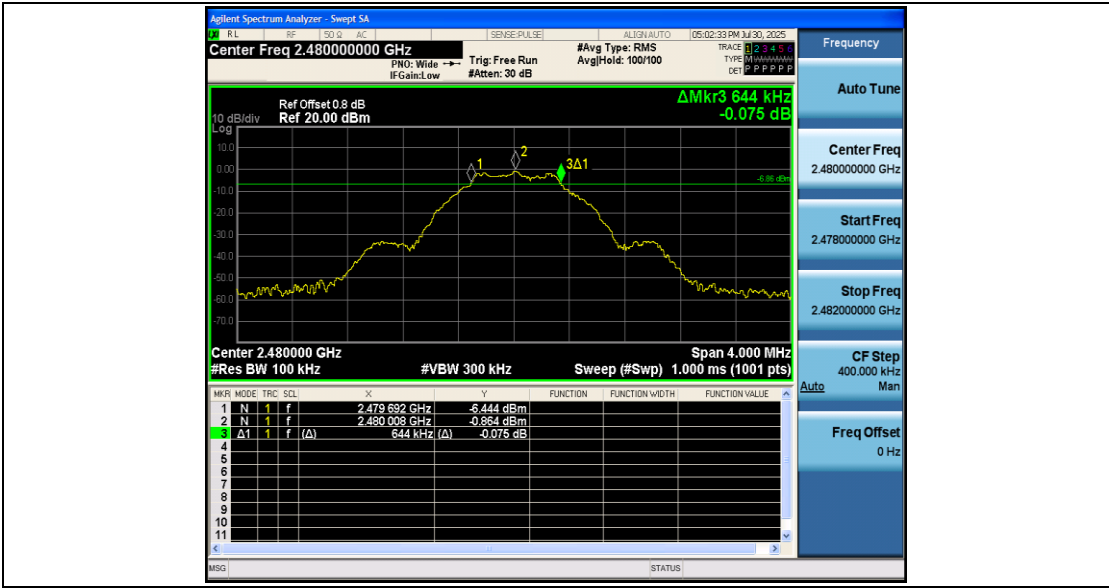
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.628	2401.692	2402.320	0.5	PASS
		2440	0.656	2439.680	2440.336	0.5	PASS
		2480	0.644	2479.692	2480.336	0.5	PASS

Test Graphs





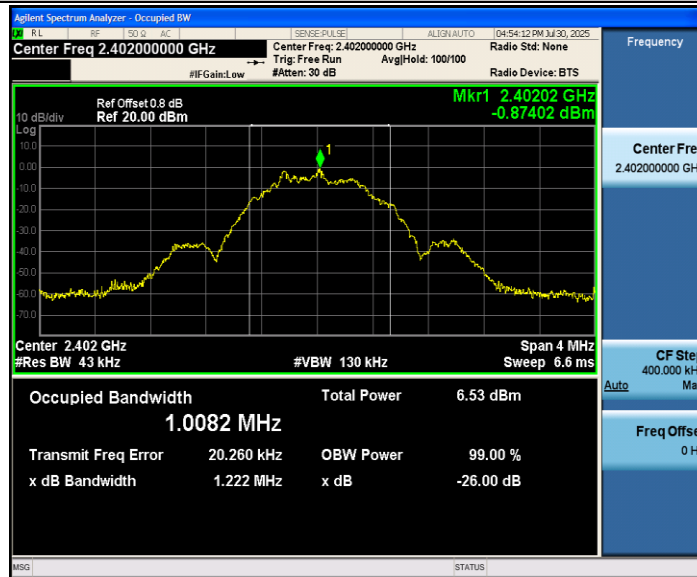
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0082	2401.5162	2402.5244	---	---
		2440	1.0056	2439.5145	2440.5201	---	---
		2480	0.99894	2479.5177	2480.5166	---	---

Test Graphs

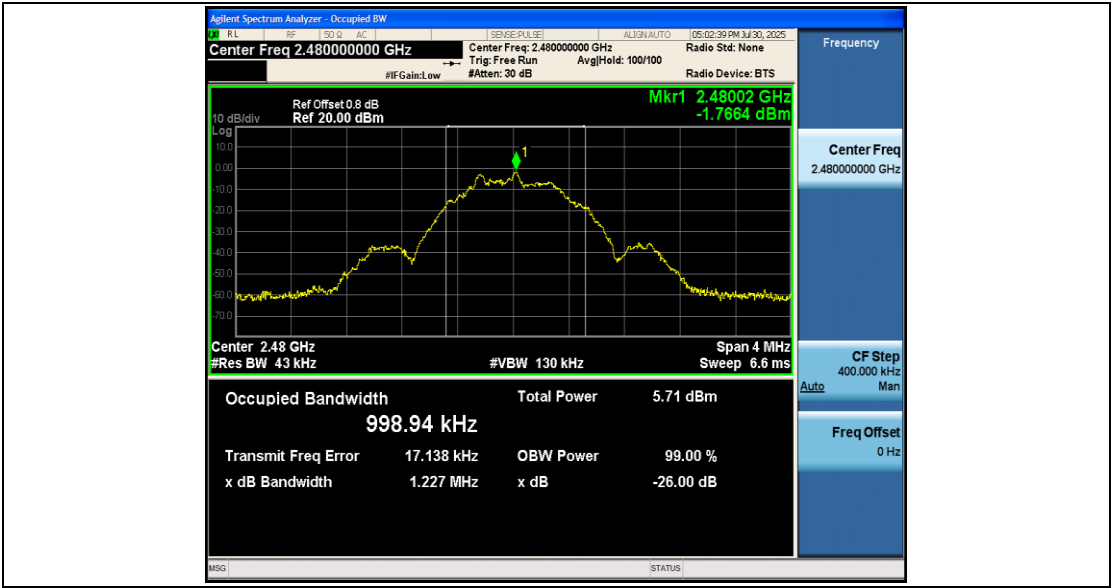
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



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	0.44	≤30	PASS
		2440	-0.25	≤30	PASS
		2480	-0.52	≤30	PASS

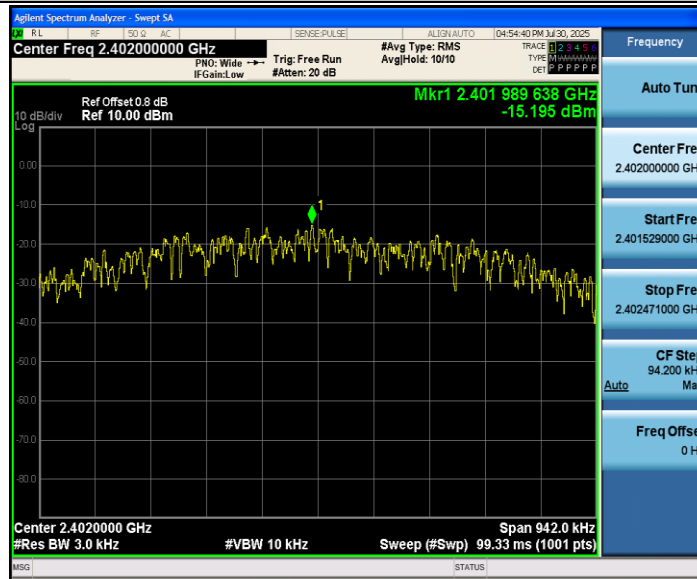
Appendix D: Maximum power spectral density

Test Result

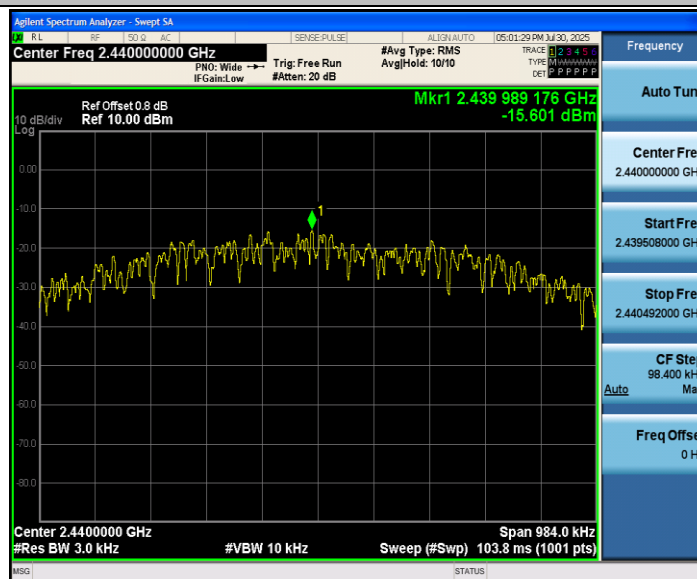
TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.20	≤8.00	PASS
		2440	-15.60	≤8.00	PASS
		2480	-15.98	≤8.00	PASS

Test Graphs

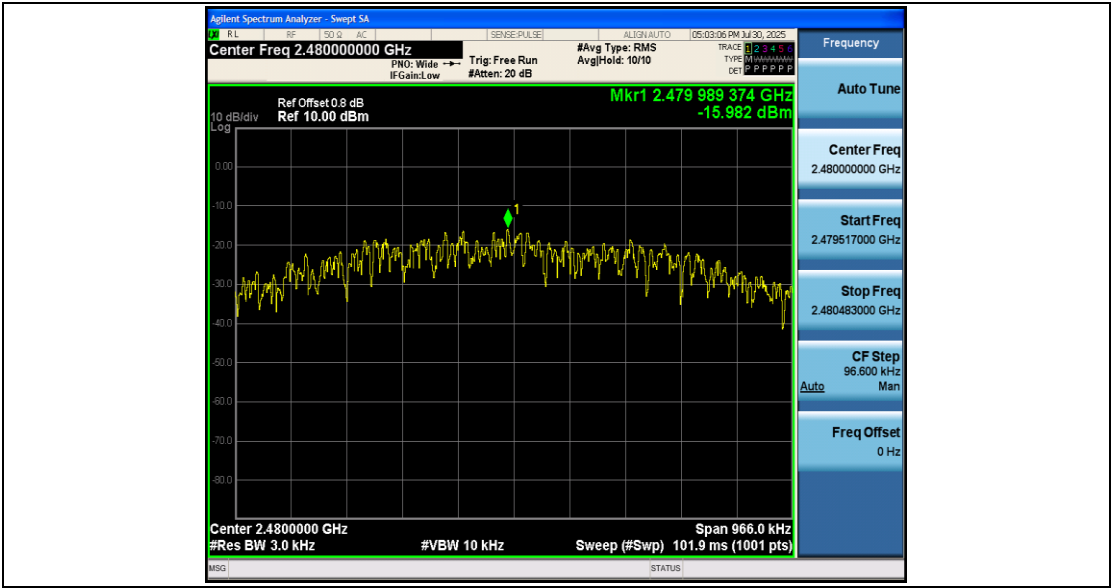
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

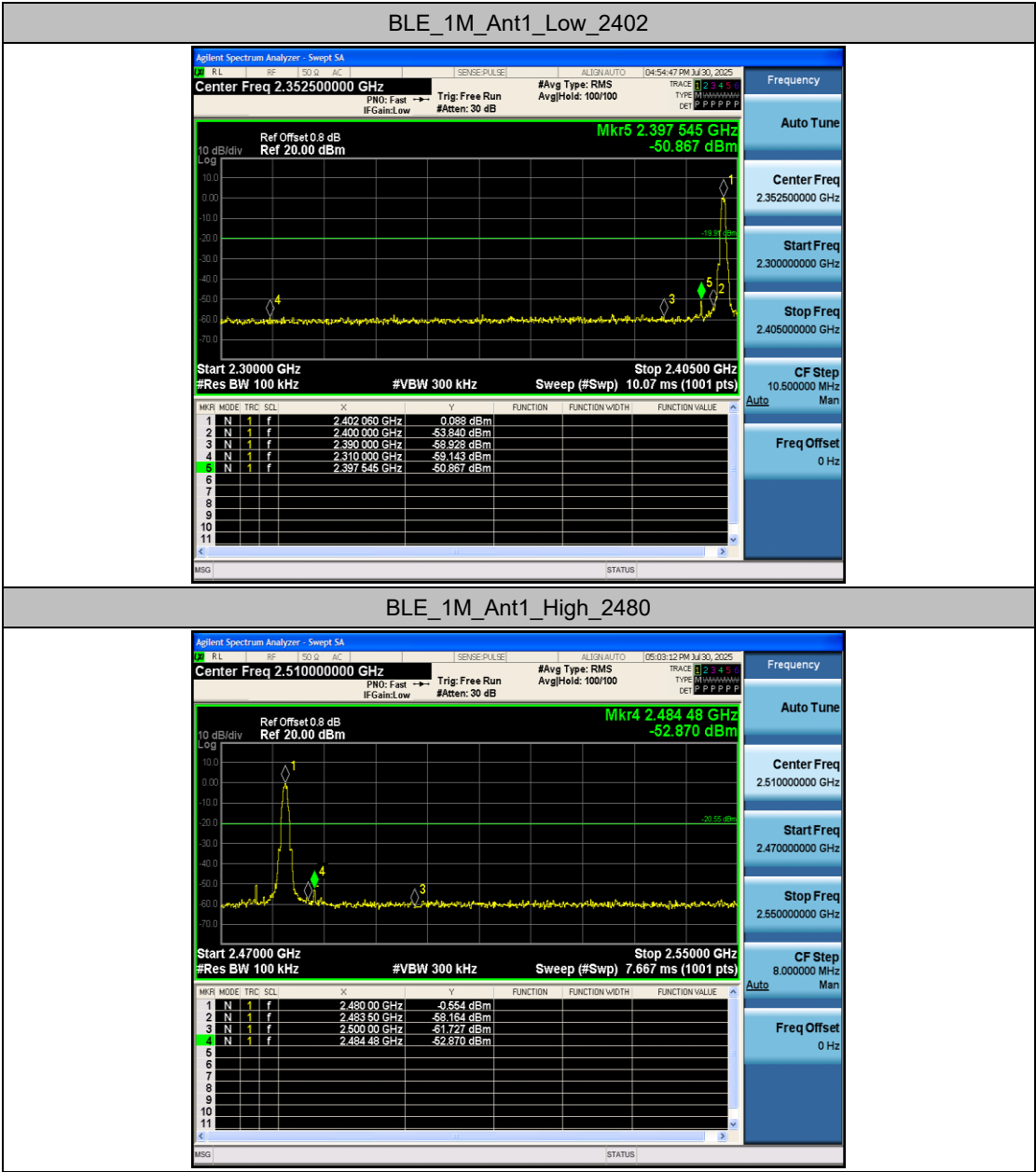


Appendix E: Band edge measurements

Test Result

TestMod e	Antenn a	ChNam e	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
BLE_1M	Ant1	Low	2402	0.09	-50.87	≤-19.91	PASS
		High	2480	-0.55	-52.87	≤-20.55	PASS

Test Graphs

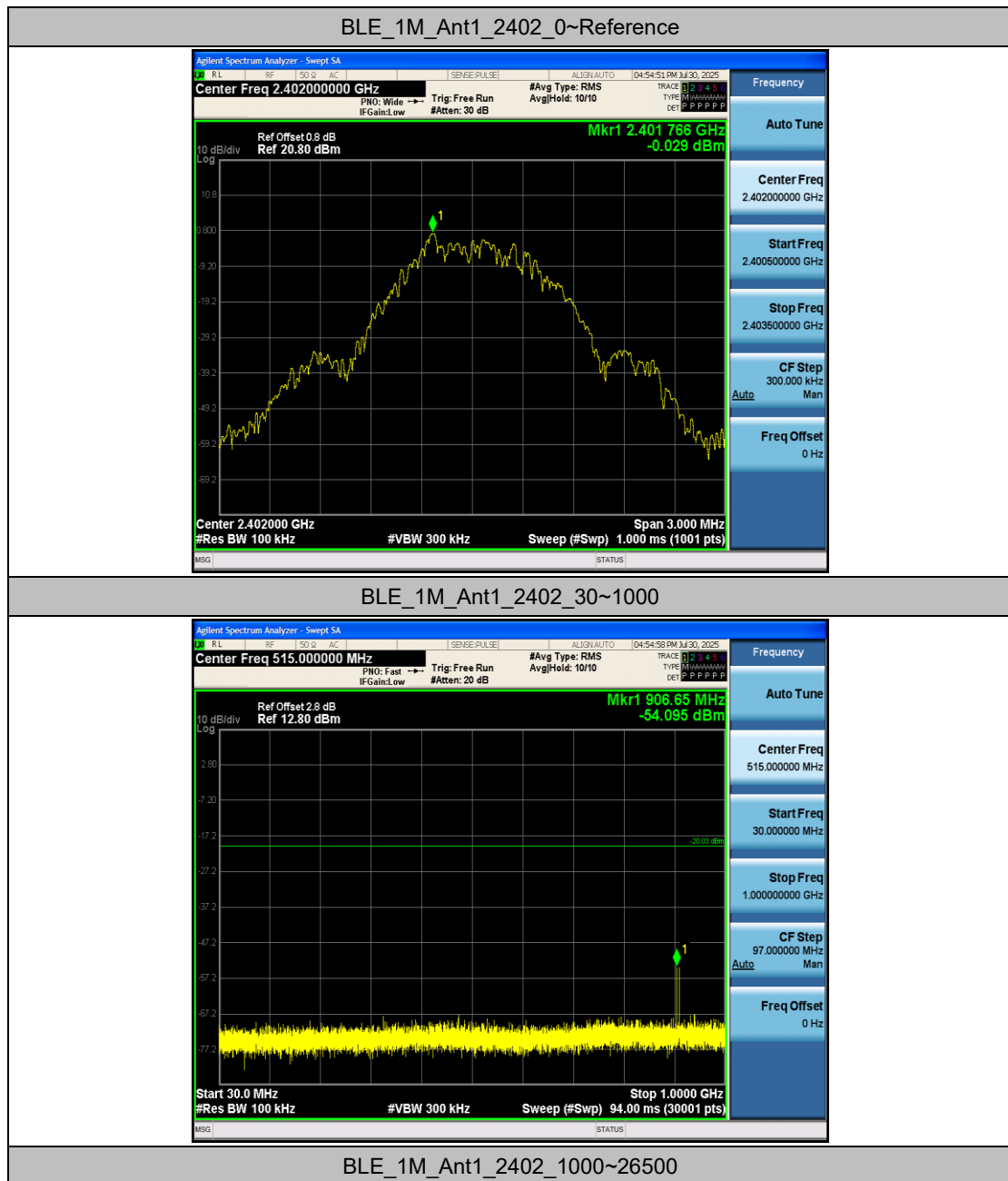


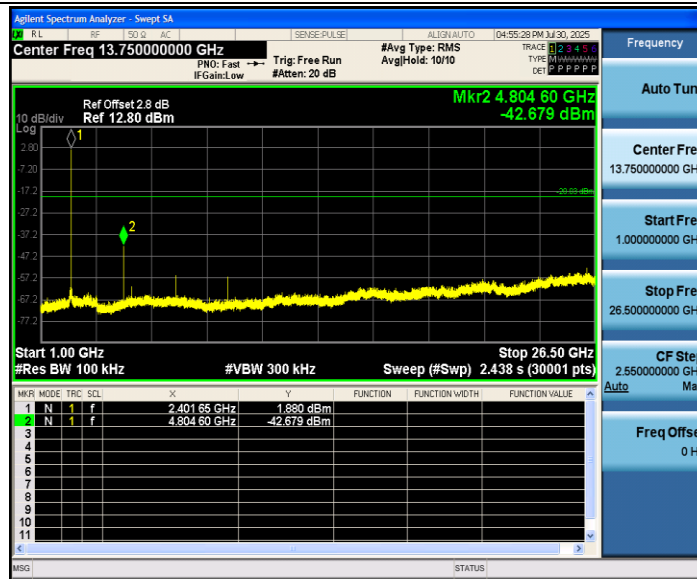
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-0.03	-0.03	---	PASS
			30~1000	-0.03	-54.1	≤-20.03	PASS
			1000~26500	-0.03	-42.68	≤-20.03	PASS
		2440	Reference	-0.84	-0.84	---	PASS
			30~1000	-0.84	-67.61	≤-20.84	PASS
			1000~26500	-0.84	-41.89	≤-20.84	PASS
		2480	Reference	-0.85	-0.85	---	PASS
			30~1000	-0.85	-66.86	≤-20.85	PASS
			1000~26500	-0.85	-40.9	≤-20.85	PASS

Test Graphs

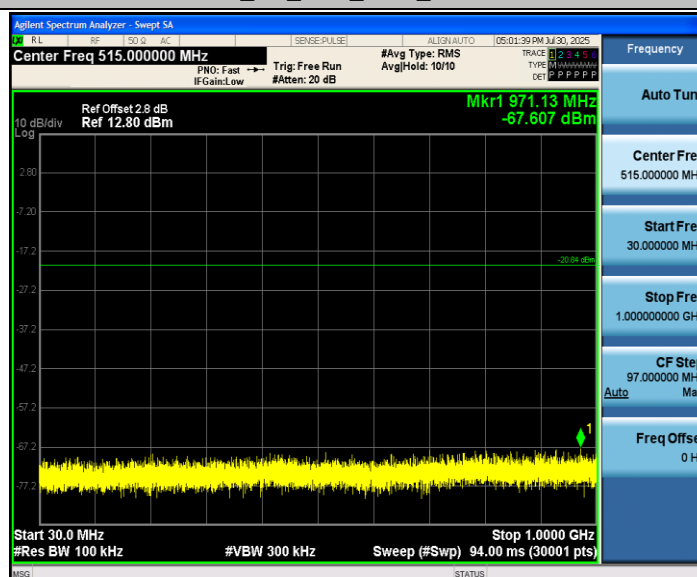




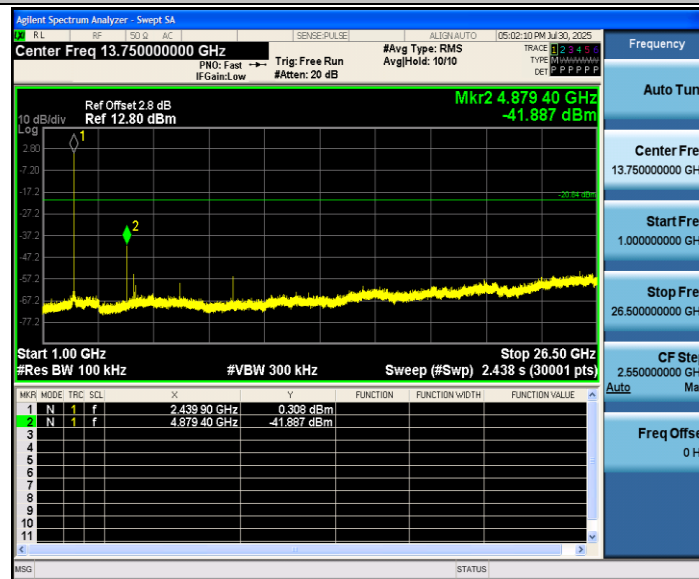
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



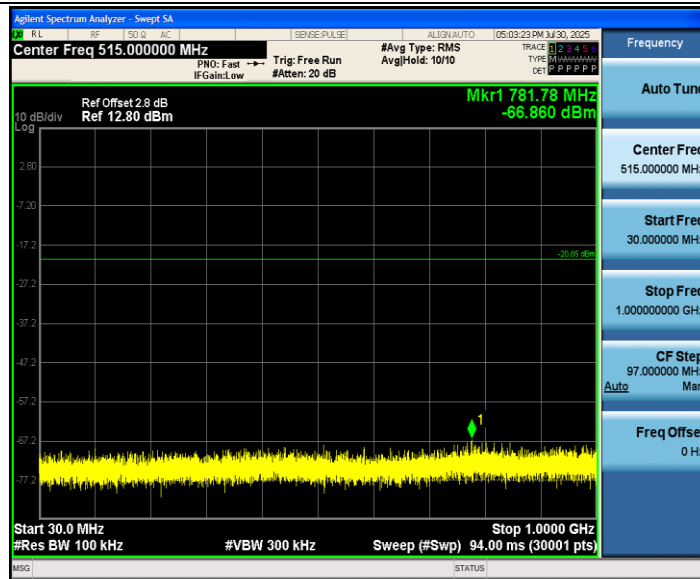
BLE_1M_Ant1_2440_1000~26500



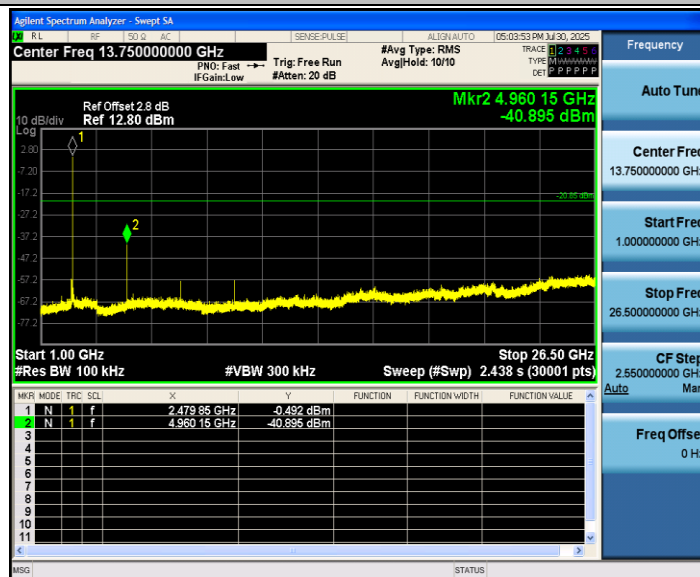
BLE_1M_Ant1_2480_0~Reference



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

