

FCC Appendix RF Test Data

FCC ID : 2BP5V-8SA8P

Company : Dong Guan Zhen Ke Technology Co., LTD

EUT : Weather Station

Model Number : SA8 Plus

Report No. : CTA25061800501

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	0.640	2439.696	2440.336	0.5	PASS
		2480	0.656	2479.684	2480.340	0.5	PASS

Test Graphs



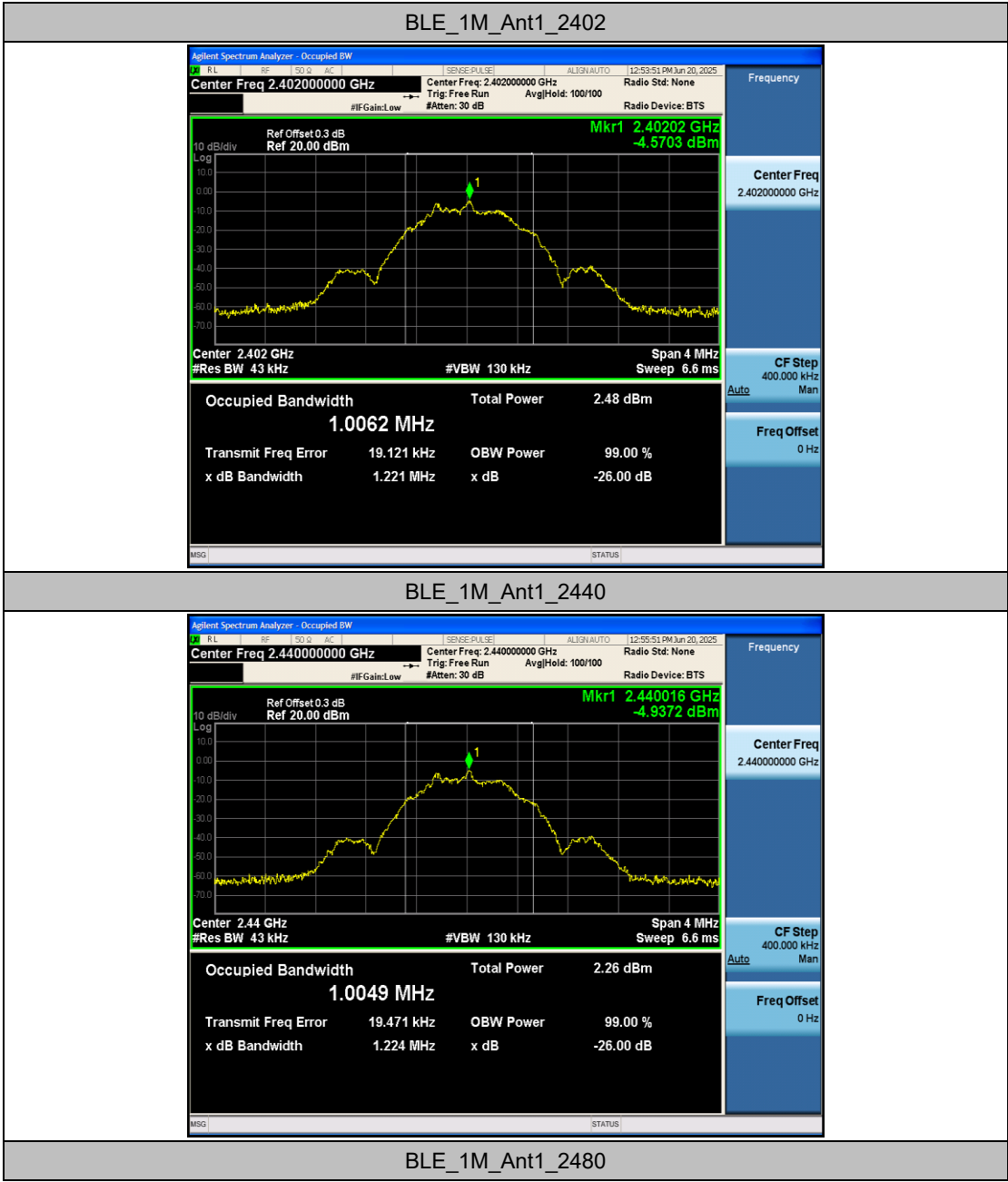


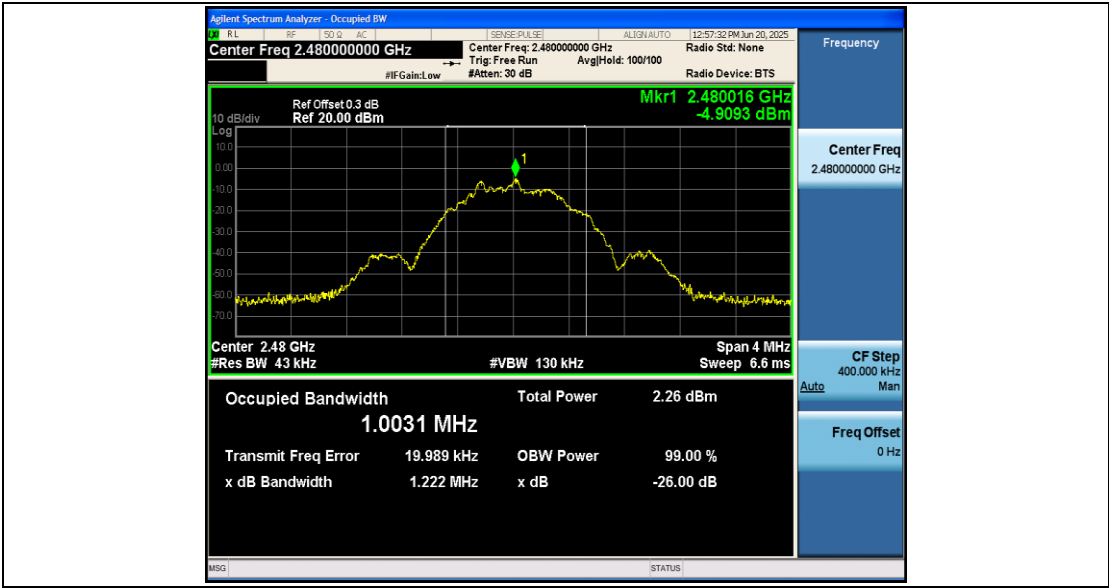
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0062	2401.5160	2402.5222	---	---
		2440	1.0049	2439.5170	2440.5219	---	---
		2480	1.0031	2479.5184	2480.5215	---	---

Test Graphs





Appendix C: Maximum conducted output power

Test Result Peak

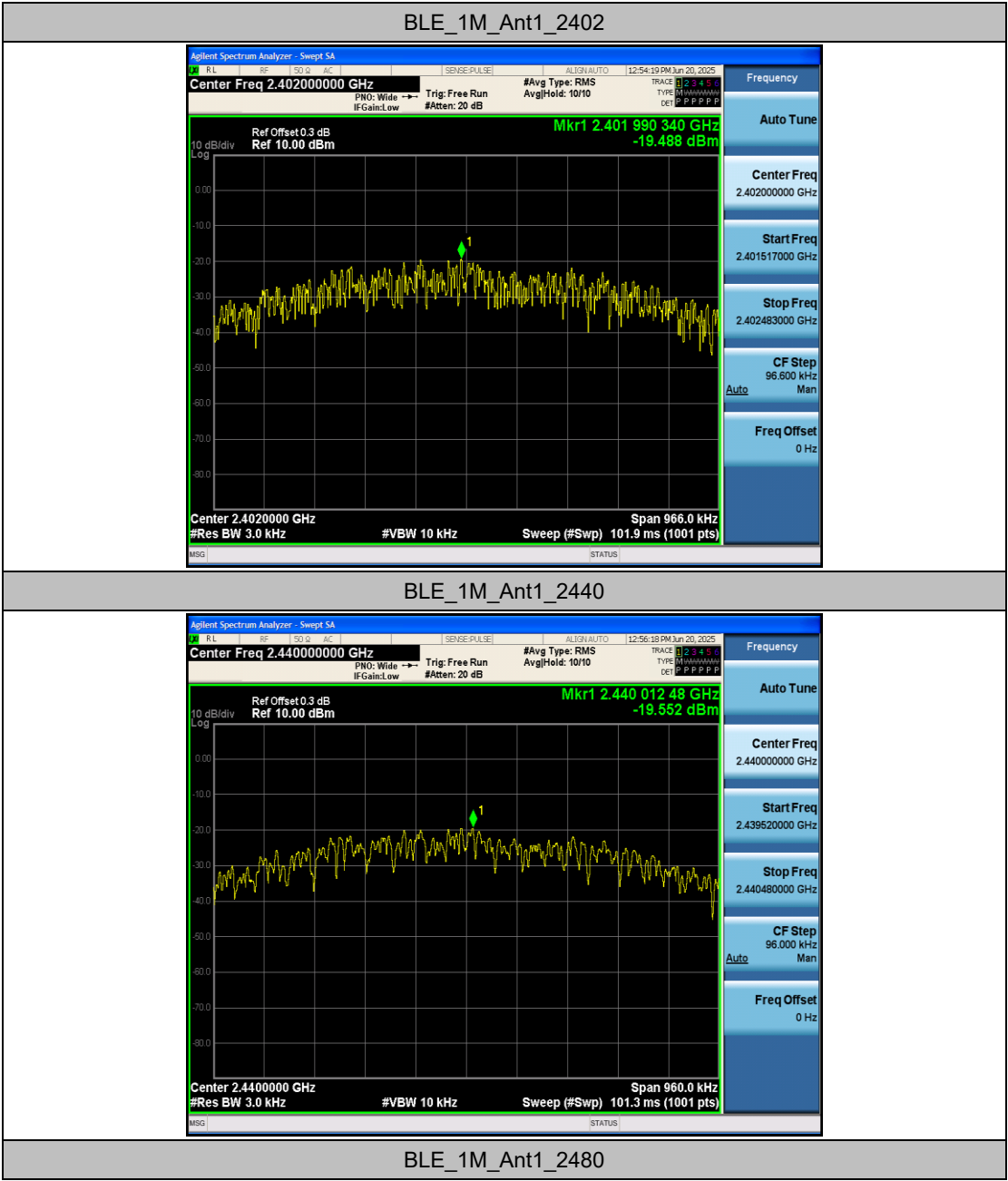
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-3.60	≤30	PASS
		2440	-3.86	≤30	PASS
		2480	-3.86	≤30	PASS

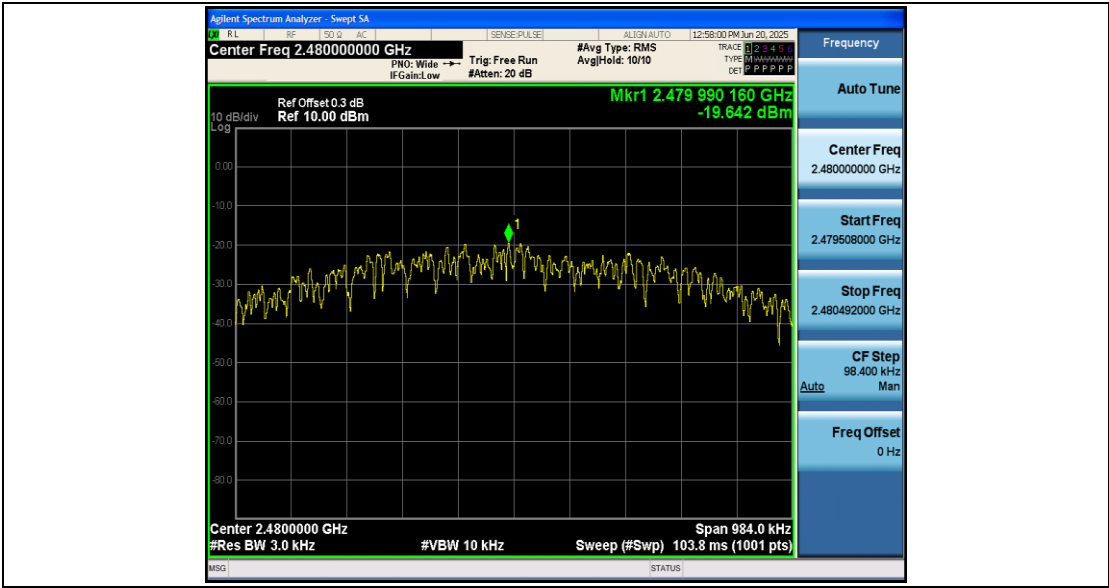
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-19.49	≤8.00	PASS
		2440	-19.55	≤8.00	PASS
		2480	-19.64	≤8.00	PASS

Test Graphs



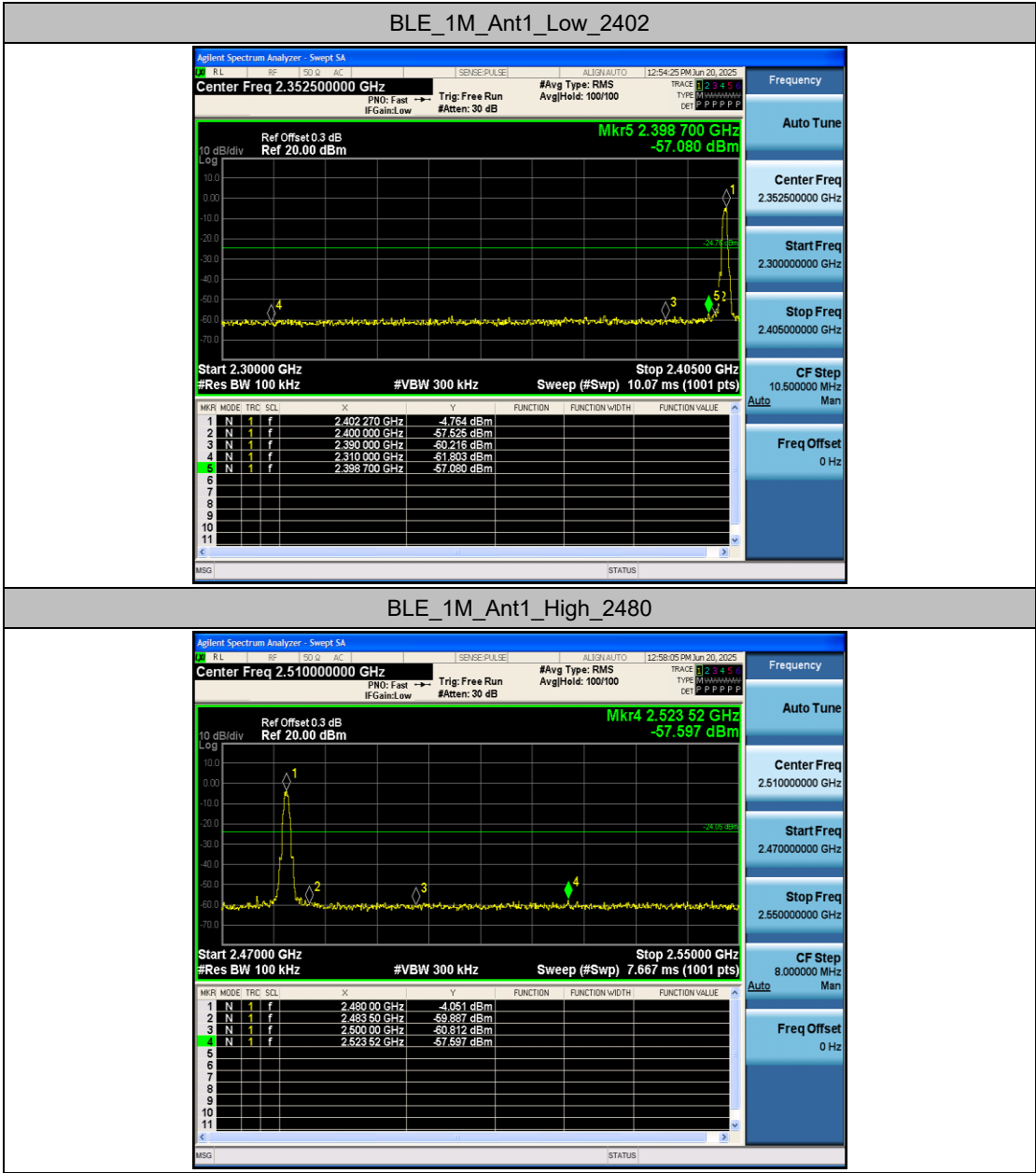


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-4.76	-57.08	≤-24.76	PASS
		High	2480	-4.05	-57.6	≤-24.05	PASS

Test Graphs

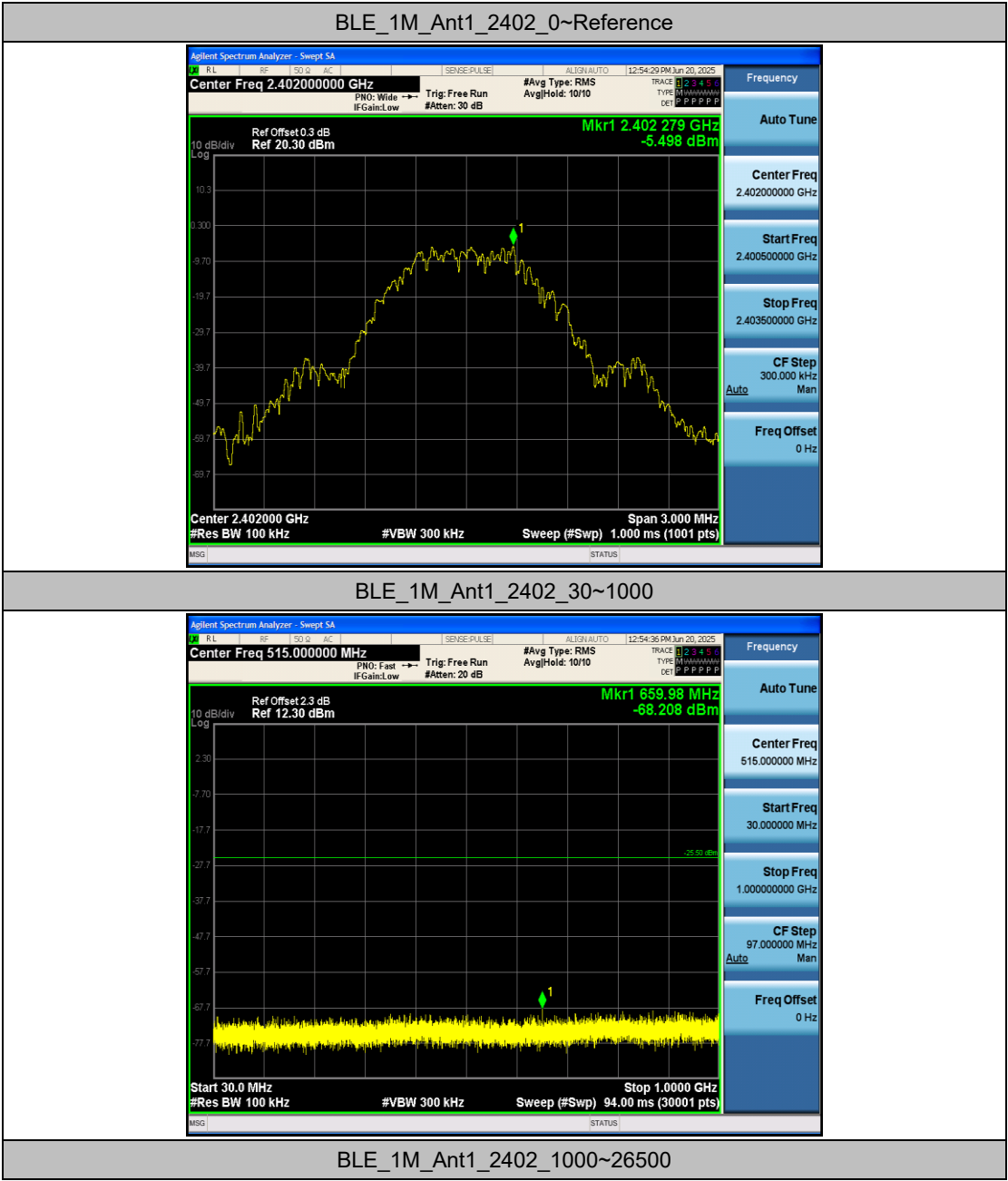


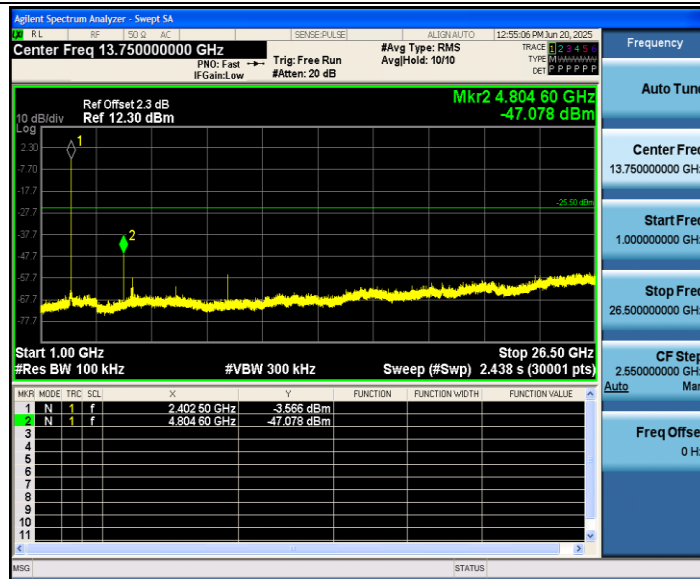
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-5.50	-5.50	---	PASS
			30~1000	-5.50	-68.21	≤-25.5	PASS
			1000~26500	-5.50	-47.08	≤-25.5	PASS
		2440	Reference	-5.75	-5.75	---	PASS
			30~1000	-5.75	-67.94	≤-25.75	PASS
			1000~26500	-5.75	-48.87	≤-25.75	PASS
		2480	Reference	-4.54	-4.54	---	PASS
			30~1000	-4.54	-67.96	≤-24.54	PASS
			1000~26500	-4.54	-47.56	≤-24.54	PASS

Test Graphs

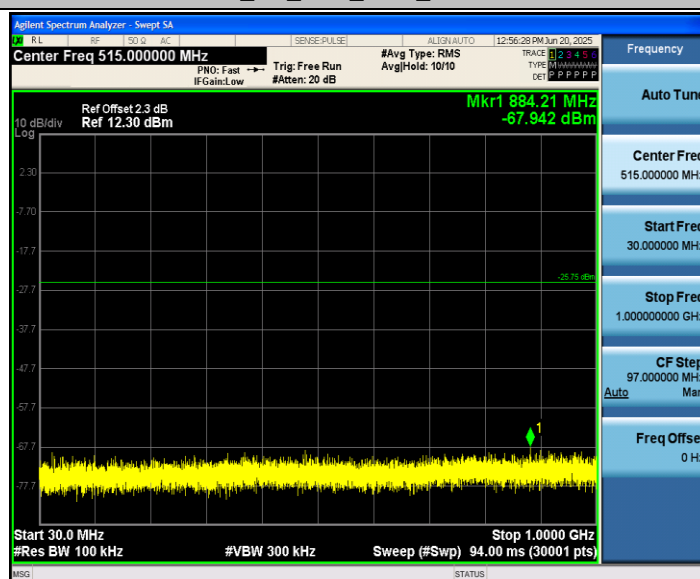




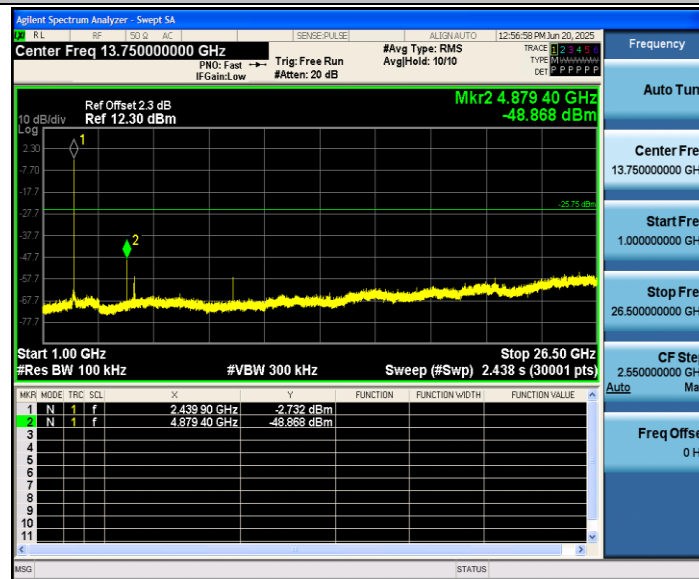
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



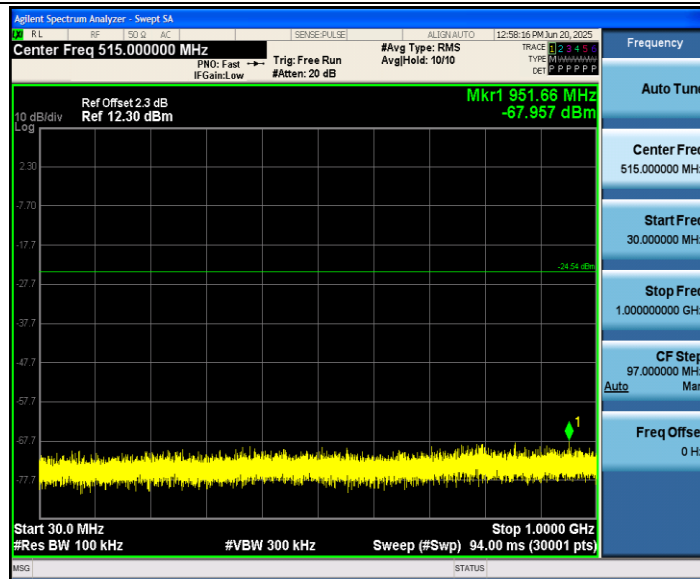
BLE_1M_Ant1_2440_1000~26500



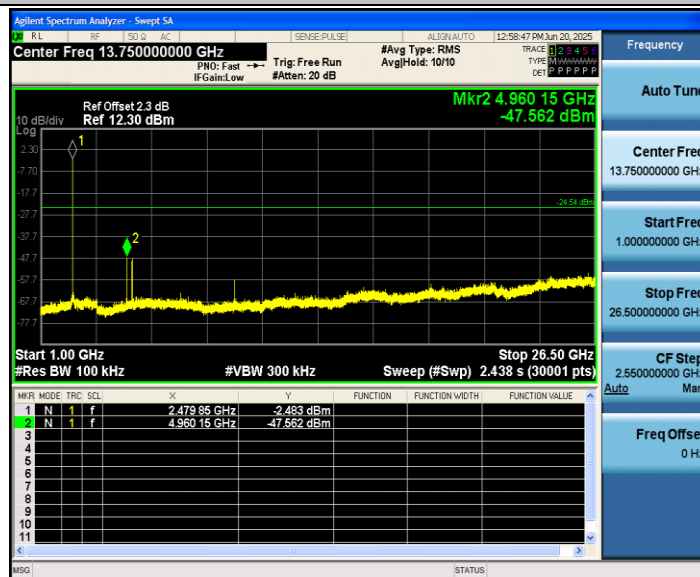
BLE_1M_Ant1_2480_0~Reference



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	0.63	0.6508	65.08	1.87	---	---
		2440	0.41	0.63	0.6508	65.08	1.87	---	---
		2480	0.41	0.63	0.6508	65.08	1.87	---	---

Test Graphs

