

FCC Appendix RF Test Data for BLE

FCC ID : 2BF2M-LINK-W67

Company : Beijing Dasung Tech Co., Ltd.

EUT : Electronic ink mobile phone display

Model Number : Link-w67

Report No. : CTA26051801501

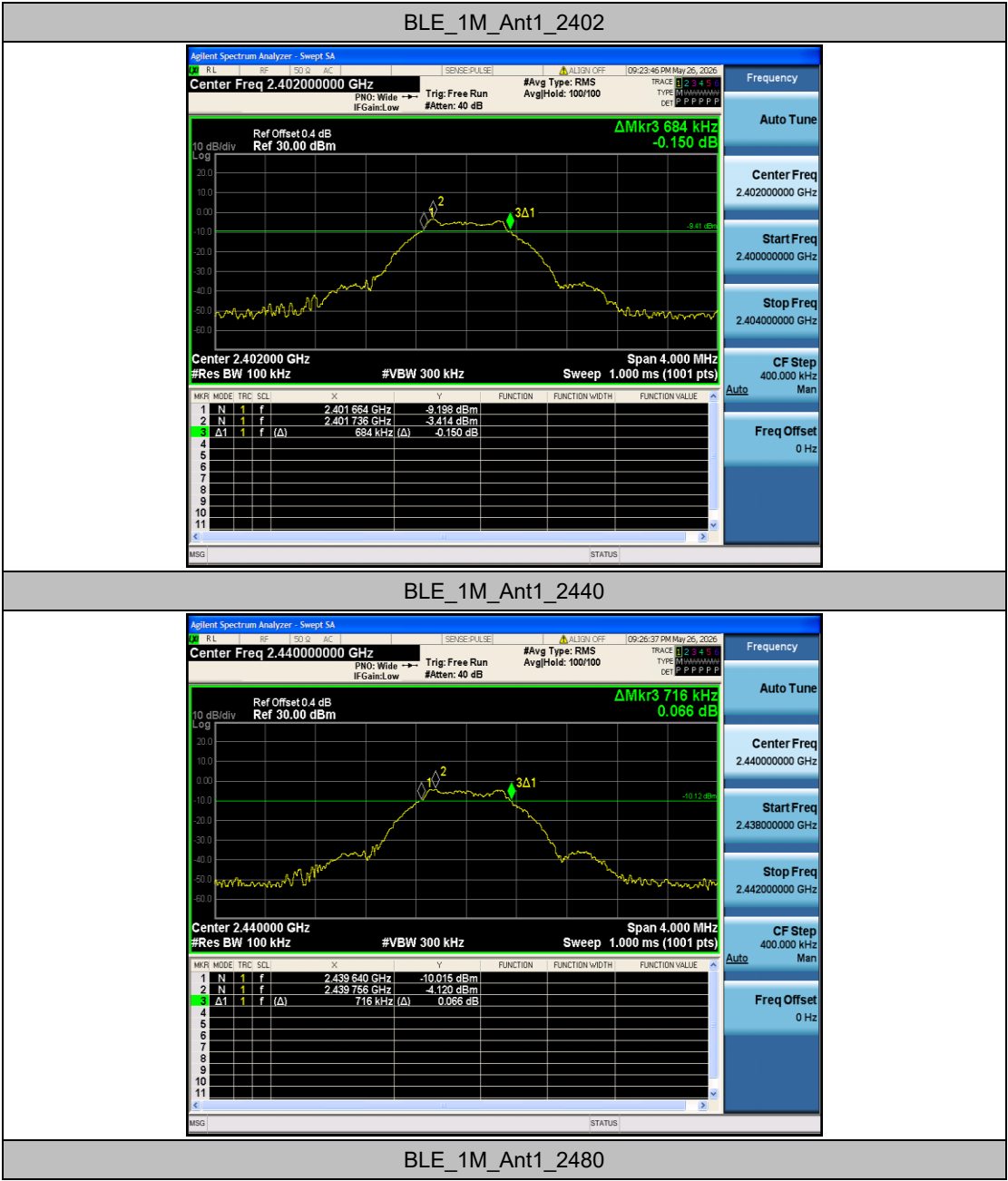
Reviewed By : Eric Wang

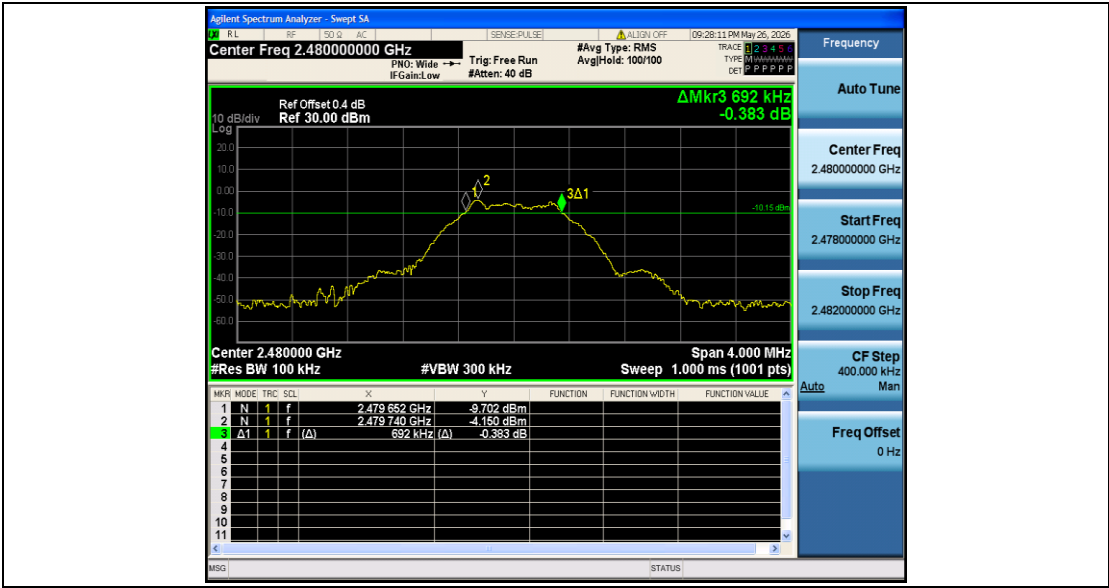
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.684	2401.664	2402.348	0.5	PASS
		2440	0.716	2439.640	2440.356	0.5	PASS
		2480	0.692	2479.652	2480.344	0.5	PASS

Test Graphs



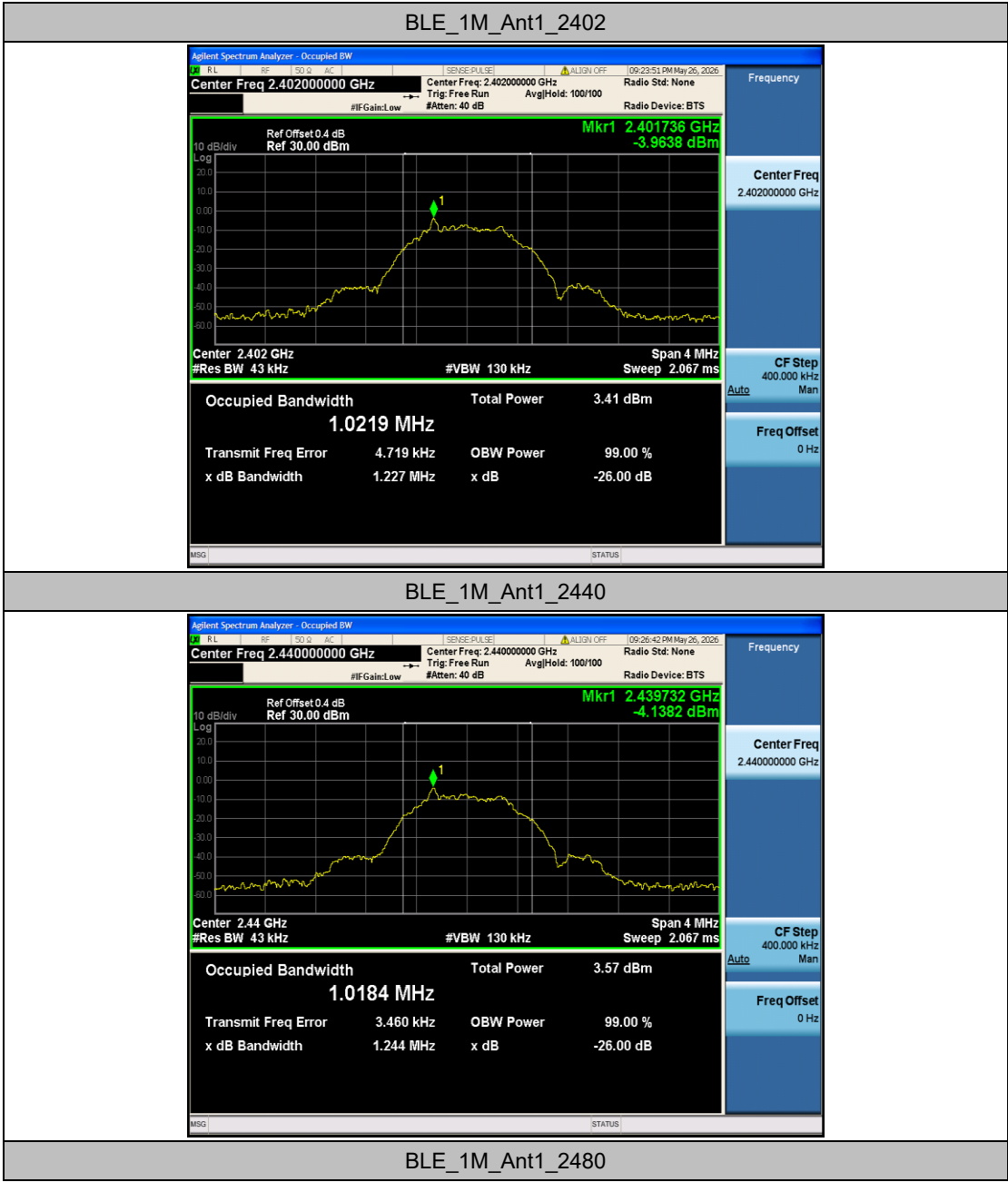


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0219	2401.4938	2402.5157	---	---
		2440	1.0184	2439.4943	2440.5127	---	---
		2480	1.0198	2479.4933	2480.5131	---	---

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	-3.14	≤30	PASS
		2440	-3.19	≤30	PASS
		2480	-3.77	≤30	PASS

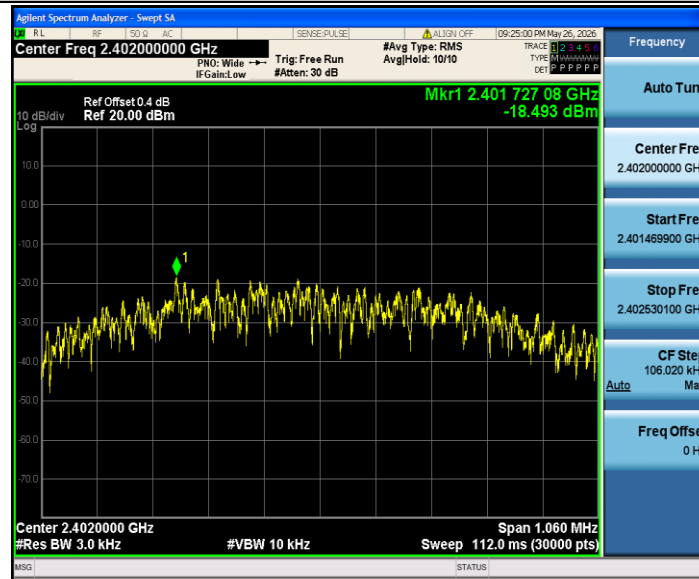
Appendix D: Maximum power spectral density

Test Result

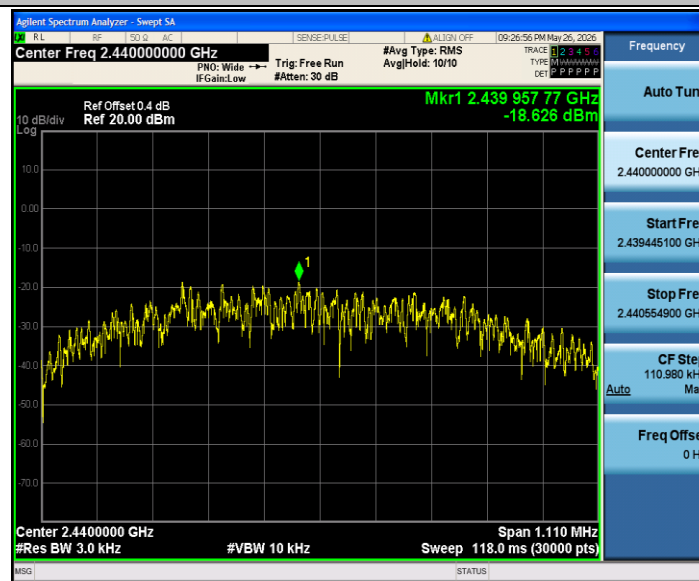
TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-18.49	≤8.00	PASS
		2440	-18.63	≤8.00	PASS
		2480	-19.03	≤8.00	PASS

Test Graphs

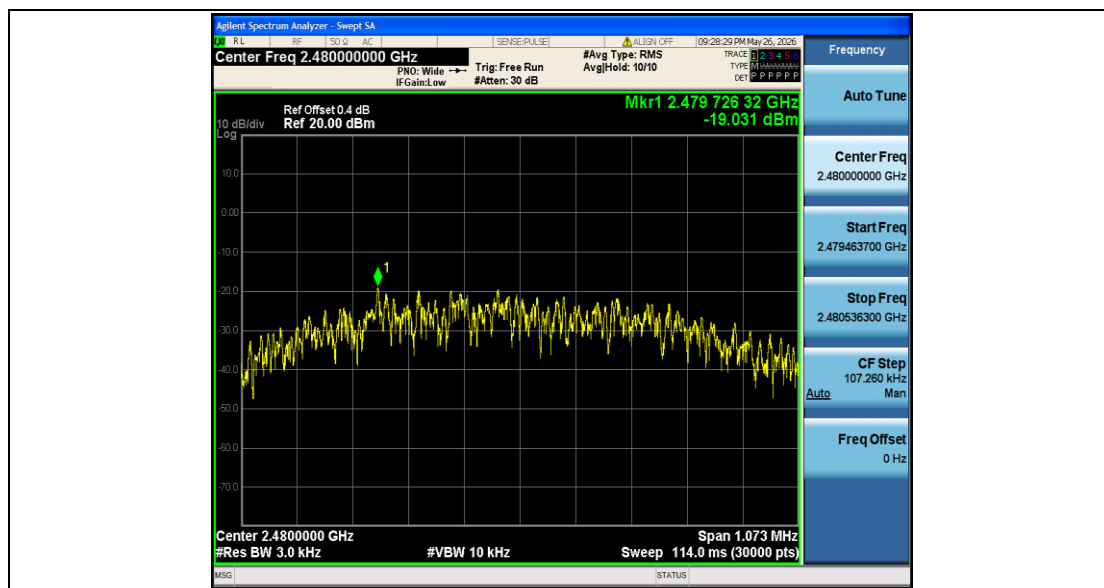
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

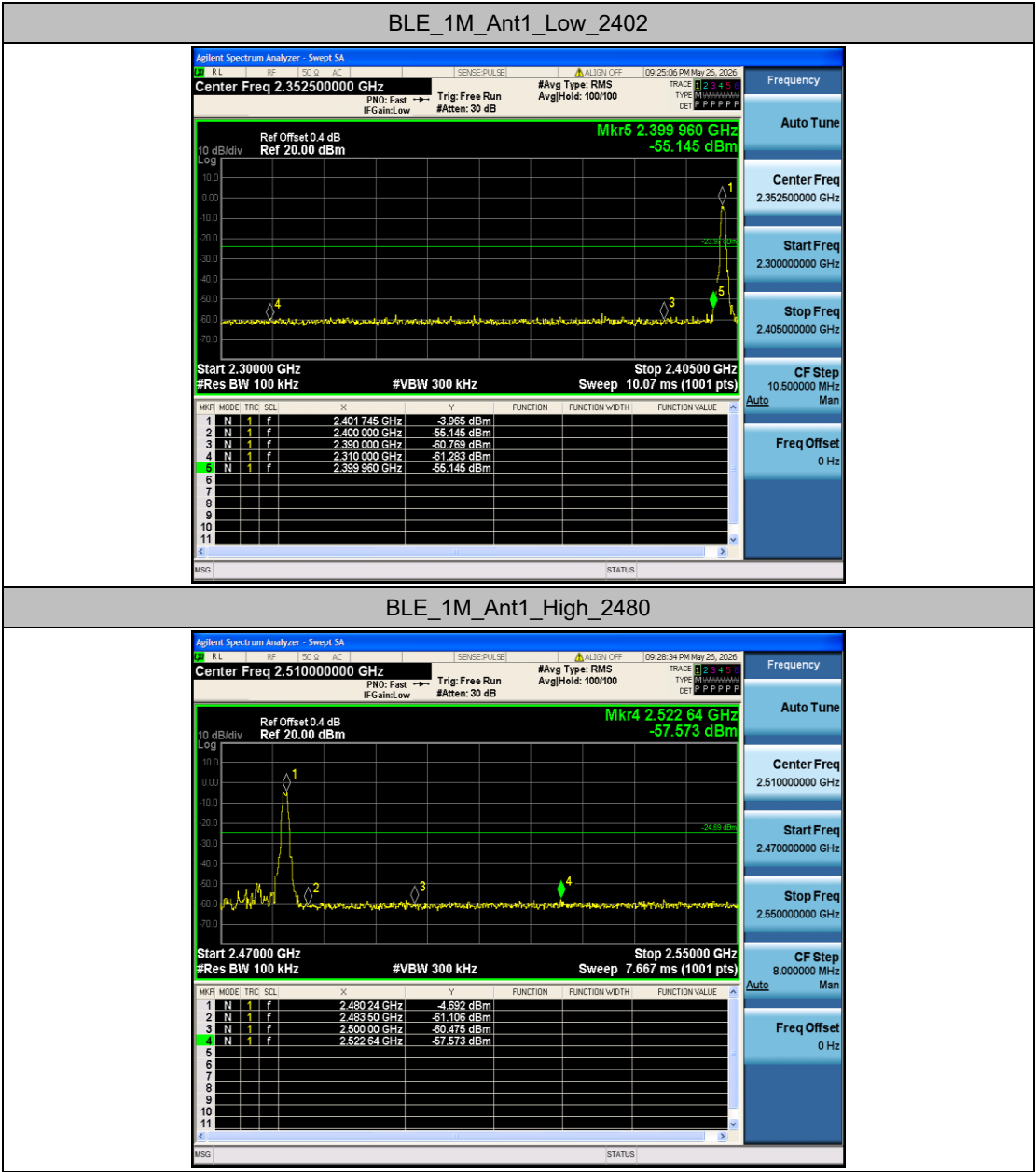


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-3.97	-55.15	≤-23.97	PASS
		High	2480	-4.69	-57.57	≤-24.69	PASS

Test Graphs

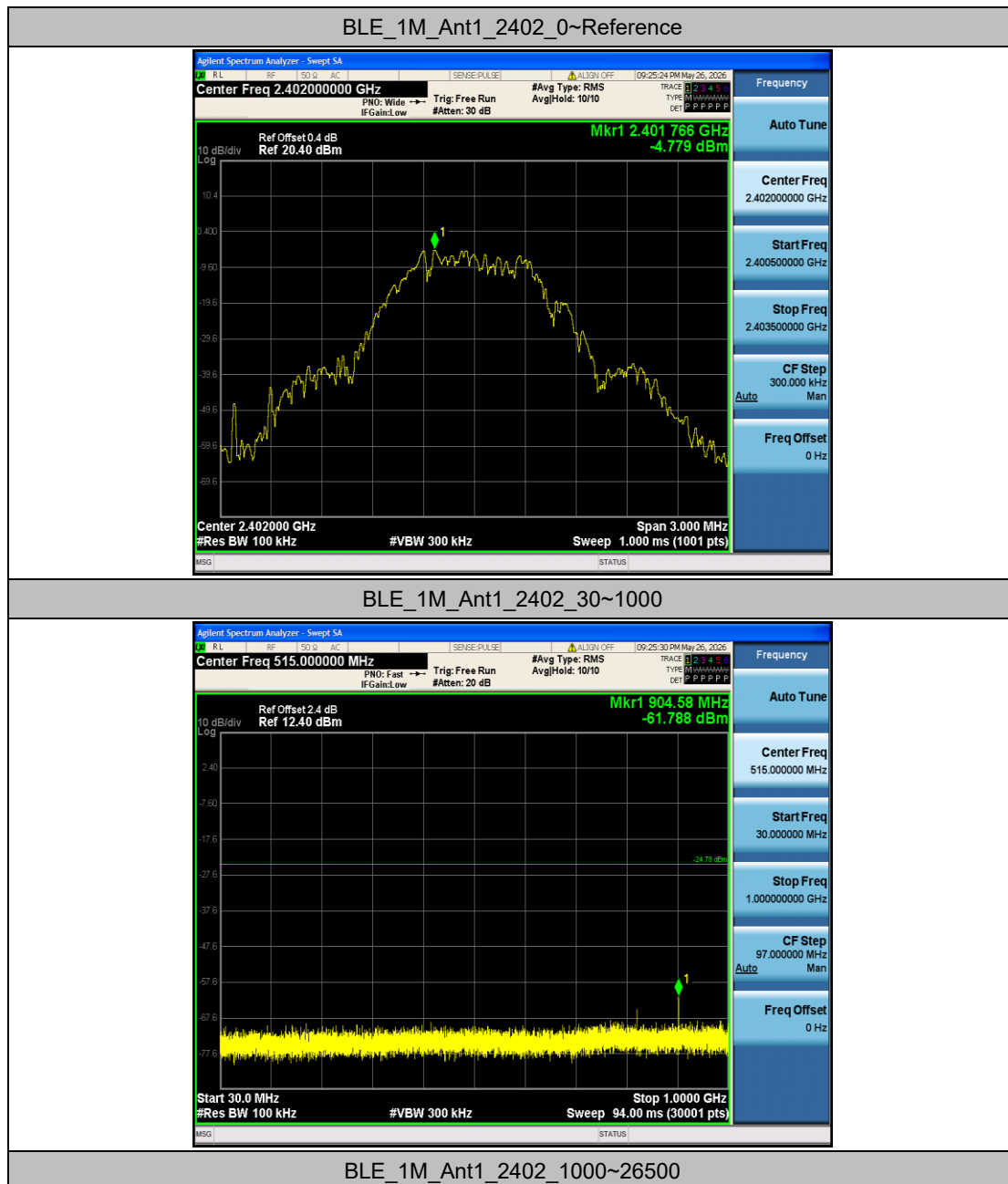


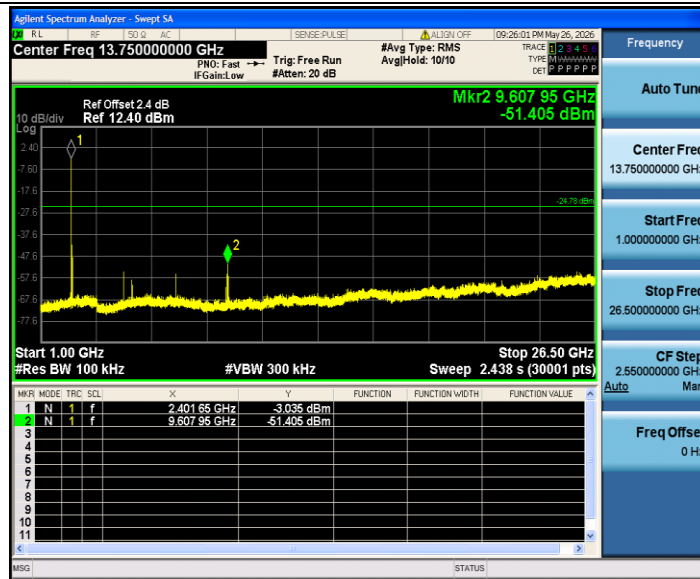
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-4.78	-4.78	---	PASS
			30~1000	-4.78	-61.79	≤-24.78	PASS
			1000~26500	-4.78	-51.41	≤-24.78	PASS
		2440	Reference	-4.13	-4.13	---	PASS
			30~1000	-4.13	-68.16	≤-24.13	PASS
			1000~26500	-4.13	-51.34	≤-24.13	PASS
		2480	Reference	-5.22	-5.22	---	PASS
			30~1000	-5.22	-67.65	≤-25.22	PASS
			1000~26500	-5.22	-52.42	≤-25.22	PASS

Test Graphs

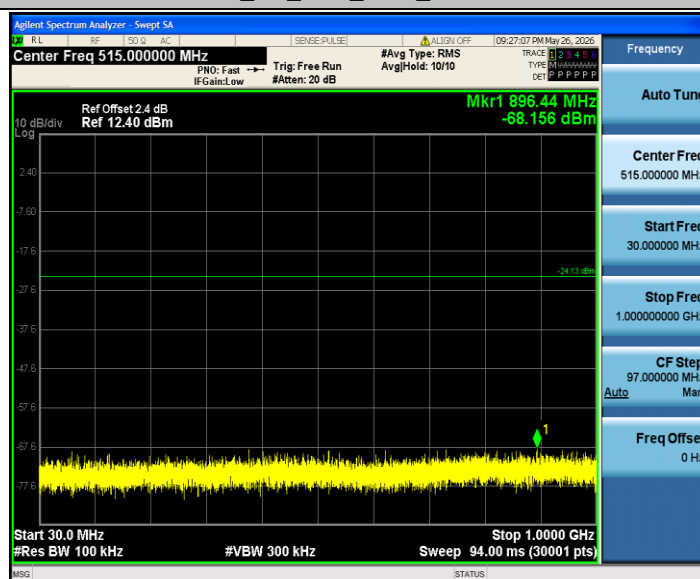




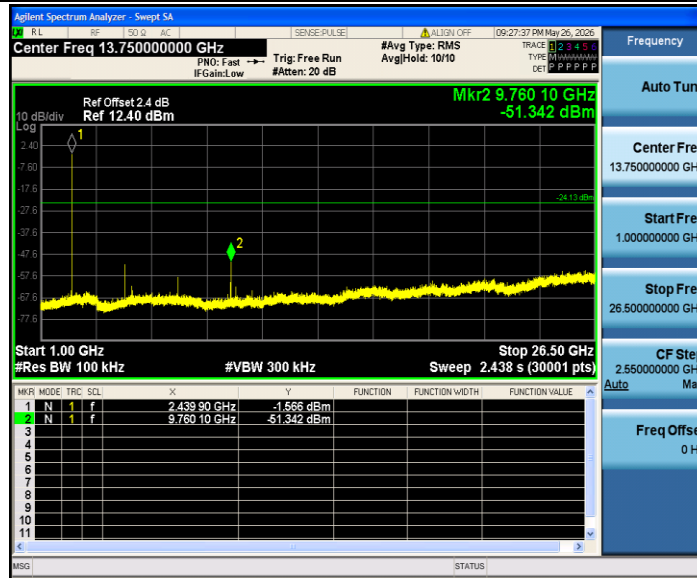
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



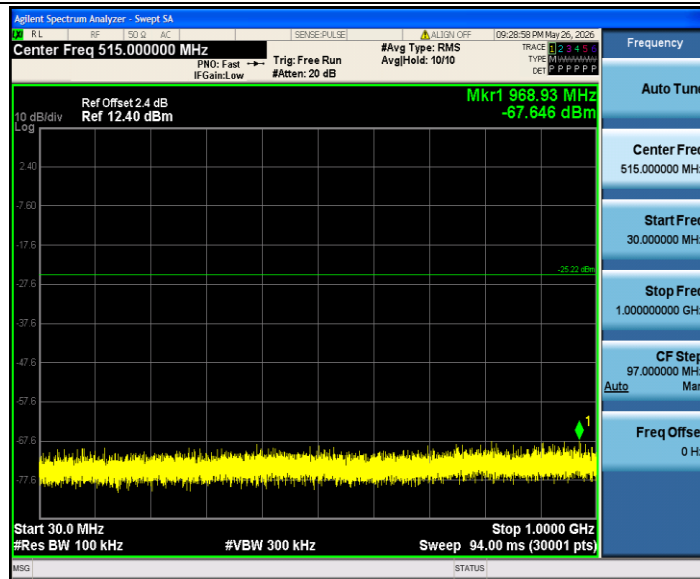
BLE_1M_Ant1_2440_1000~26500



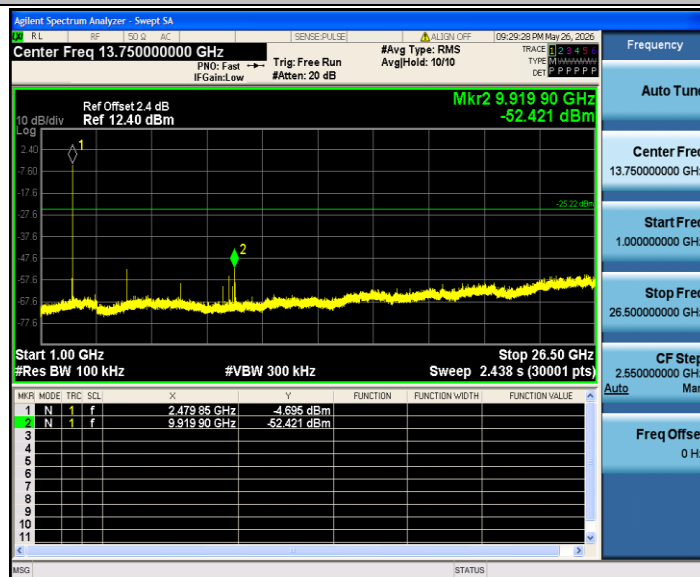
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

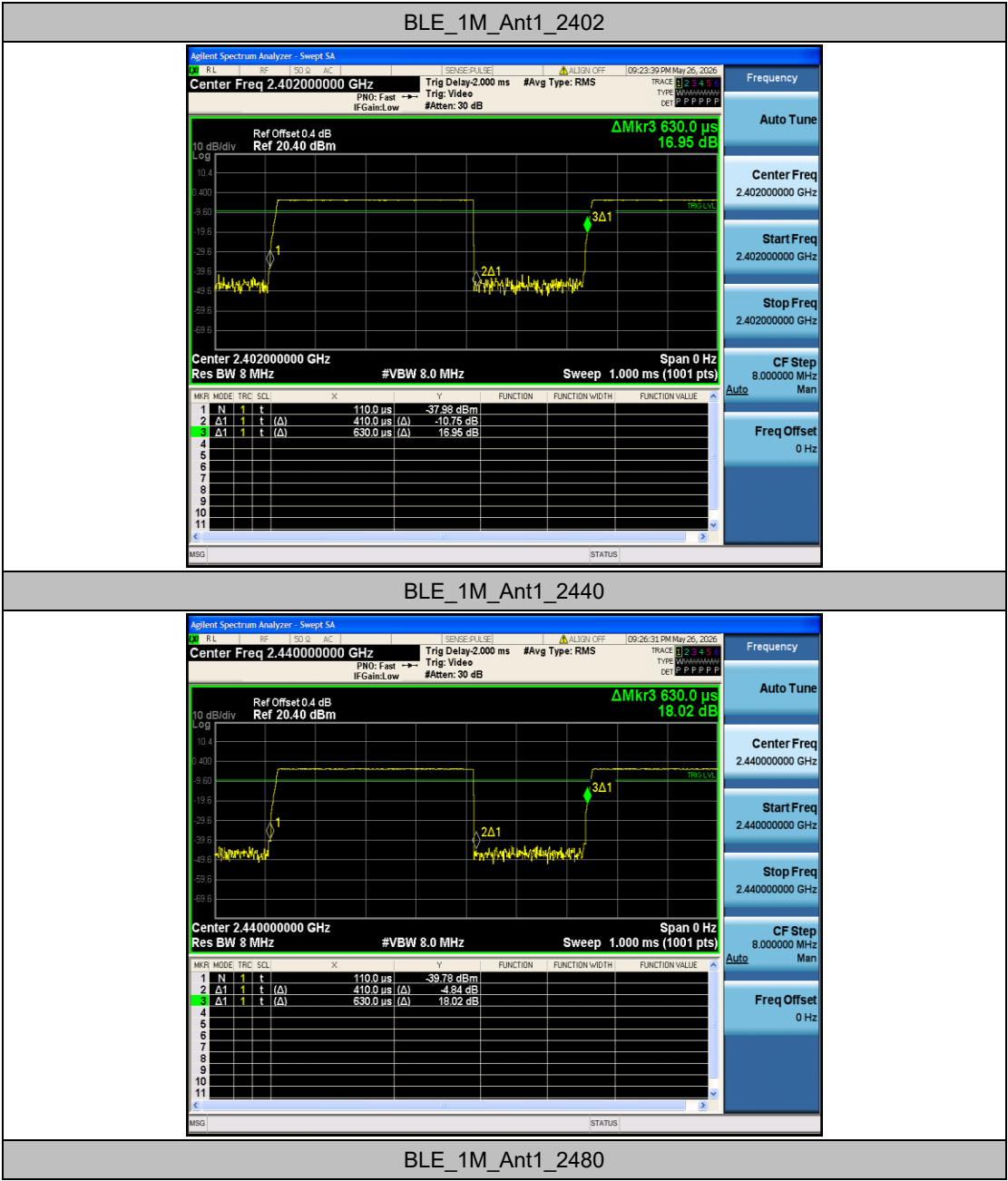


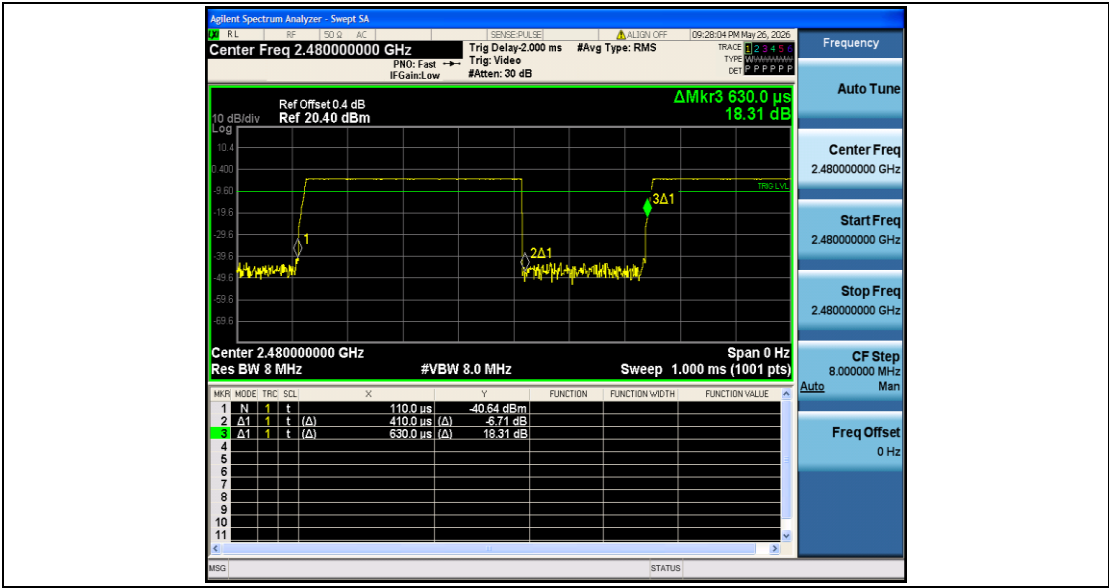
Appendix G: Duty Cycle

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





Appendix H: Emissions in Restricted Bands

Test Result

TestMode	Antenna	Channel	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Gain [dB]	DC Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-59.71	2.00	1.87	39.36	≤54	PASS
				AV	2376.860	-58.9	2.00	1.87	40.17	≤54	PASS
				AV	2390.000	-59.71	2.00	1.87	39.36	≤54	PASS
				Peak	2310.000	-51.34	2.00	0.00	45.86	≤74	PASS
				Peak	2354.495	-48.26	2.00	0.00	48.94	≤74	PASS
				Peak	2390.000	-51.75	2.00	0.00	45.45	≤74	PASS
		High	2480	AV	2483.500	-59.4	2.00	1.87	39.67	≤54	PASS
				AV	2495.920	-58.51	2.00	1.87	40.56	≤54	PASS
				AV	2500.000	-59.29	2.00	1.87	39.78	≤54	PASS
				Peak	2483.500	-50.09	2.00	0.00	47.11	≤74	PASS
				Peak	2498.320	-47.87	2.00	0.00	49.33	≤74	PASS
				Peak	2500.000	-52.31	2.00	0.00	44.89	≤74	PASS

Note:

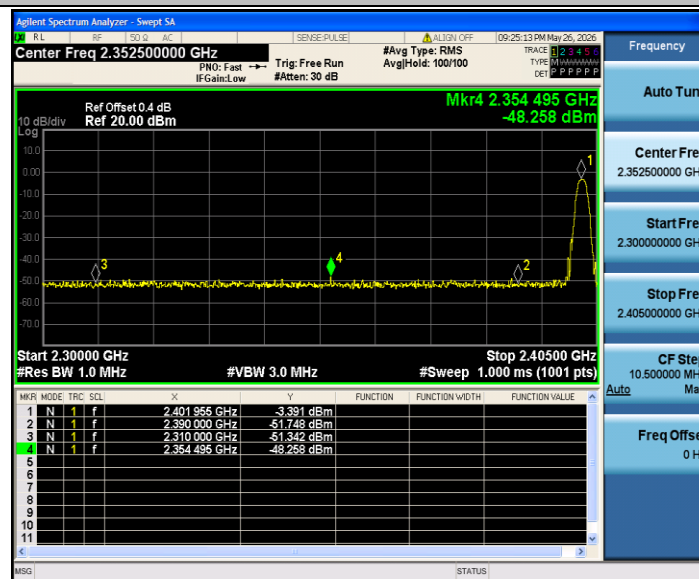
- The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

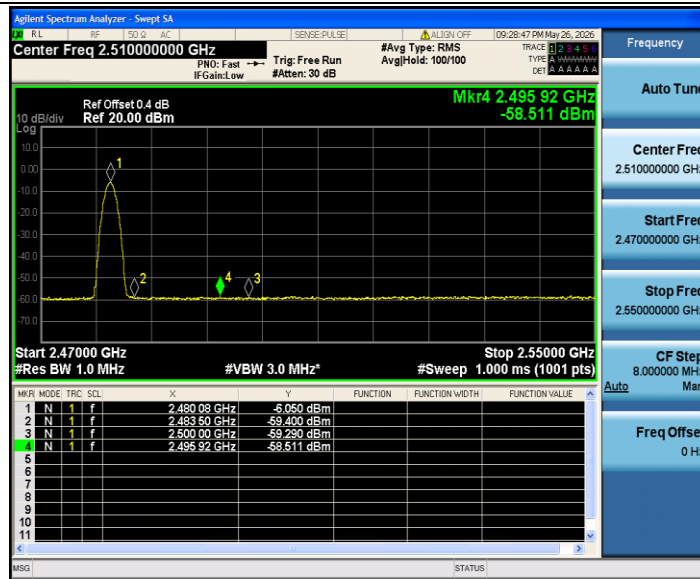
BLE_1M_Ant1_Low_2402_AV



BLE_1M_Ant1_Low_2402_Peak



BLE_1M_Ant1_High_2480_AV



BLE_1M_Ant1_High_2480_Peak

