

FCC Appendix RF Test Data for BLE

FCC ID : 2BYGR-AEGIS

Company : Dongying Cero Technology Co., Ltd.

EUT : Wireless Mouse

Model Number : AEGIS-C

Report No. : CTA26082001201

Reviewed By : Eric Wang

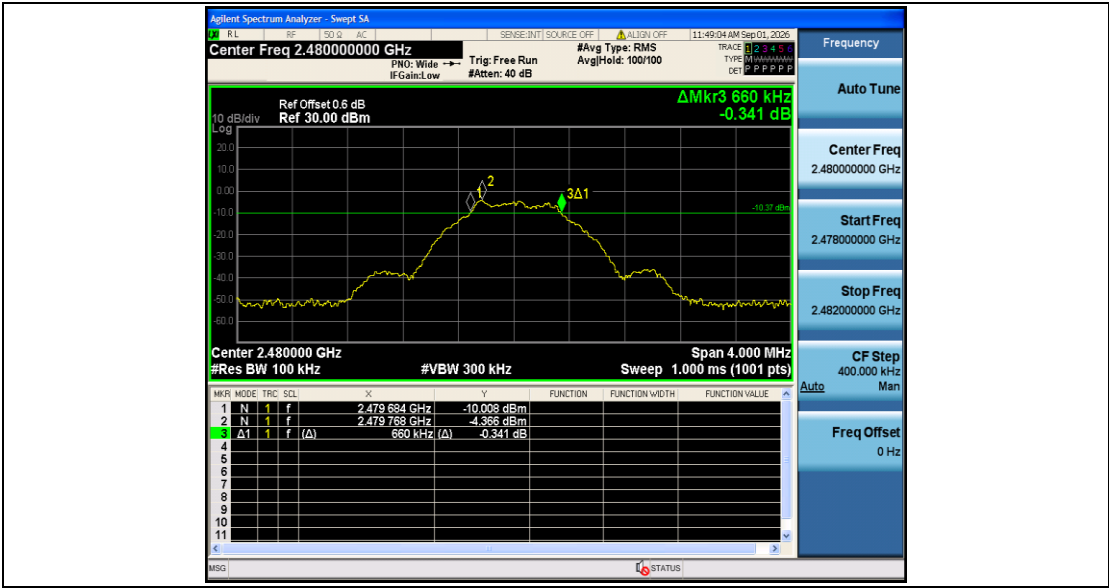
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.620	2401.700	2402.320	0.5	PASS
		2440	0.644	2439.688	2440.332	0.5	PASS
		2480	0.660	2479.684	2480.344	0.5	PASS

Test Graphs



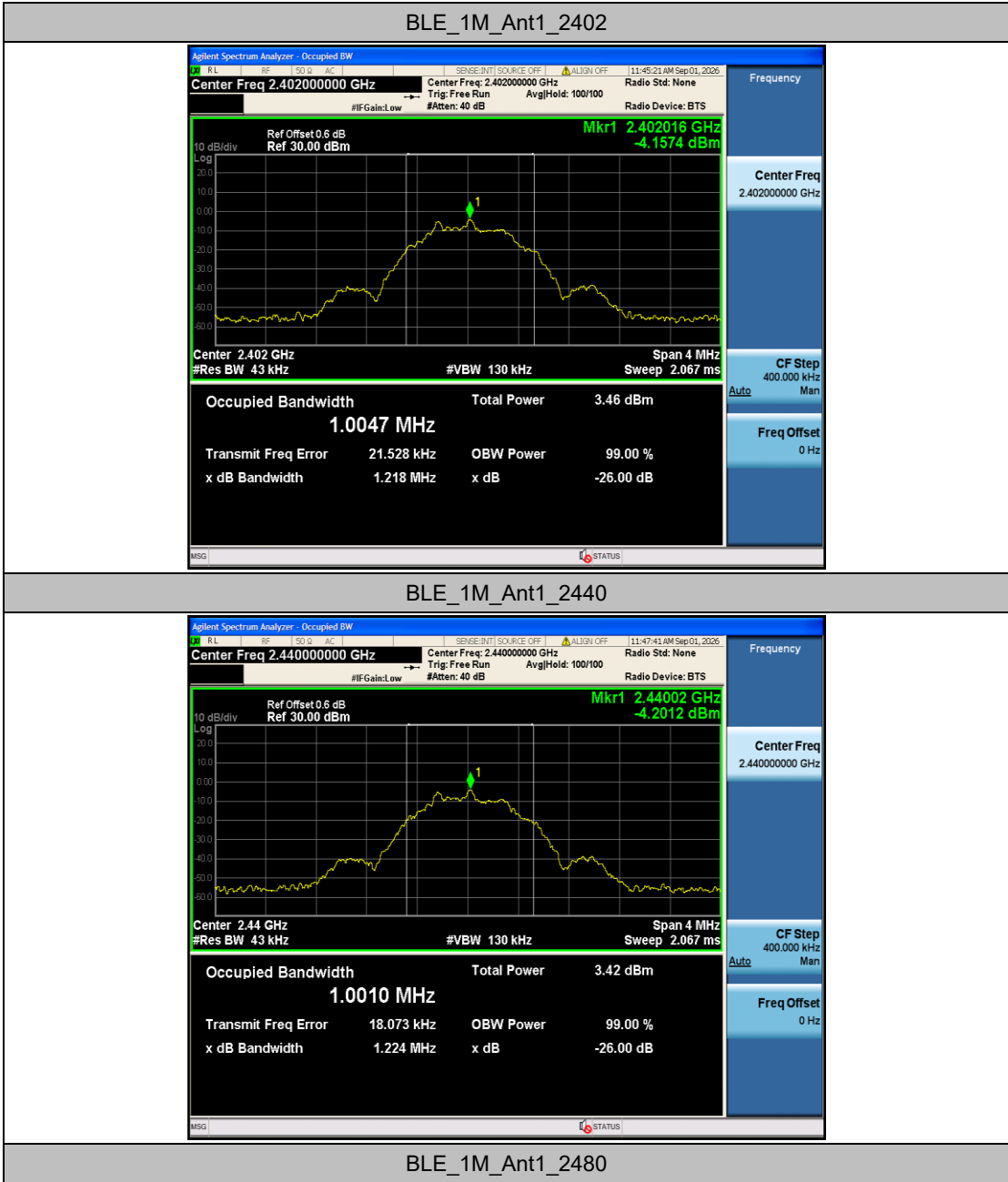


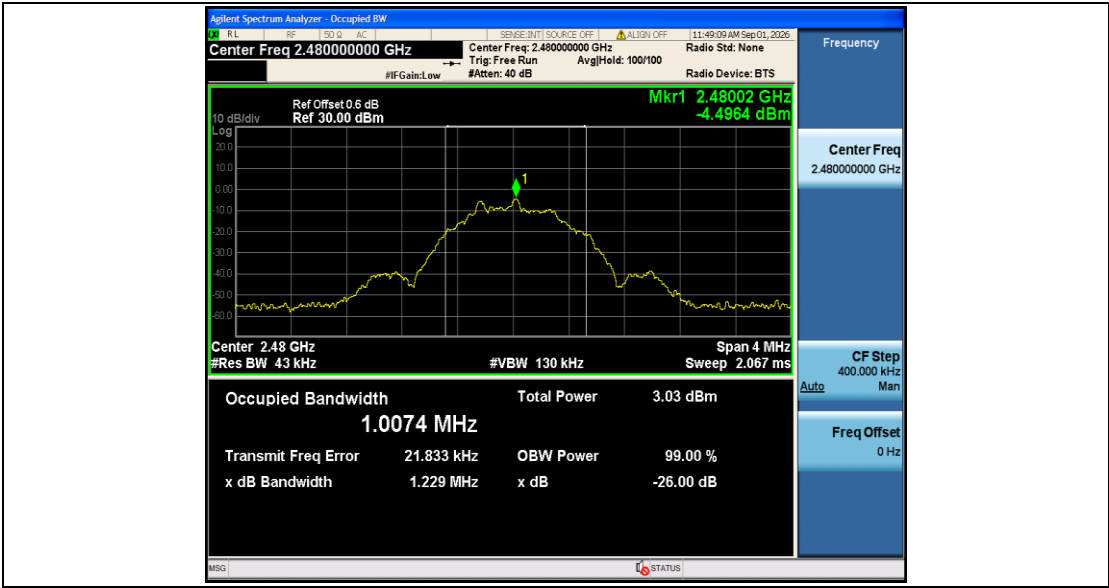
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0047	2401.5192	2402.5239	---	---
		2440	1.0010	2439.5176	2440.5186	---	---
		2480	1.0074	2479.5181	2480.5255	---	---

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	-3.36	≤30	PASS
		2440	-3.39	≤30	PASS
		2480	-3.69	≤30	PASS

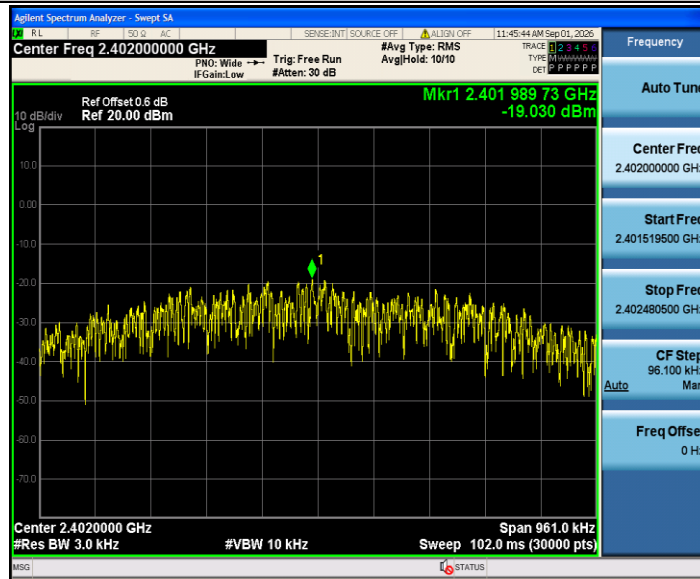
Appendix D: Maximum power spectral density

Test Result

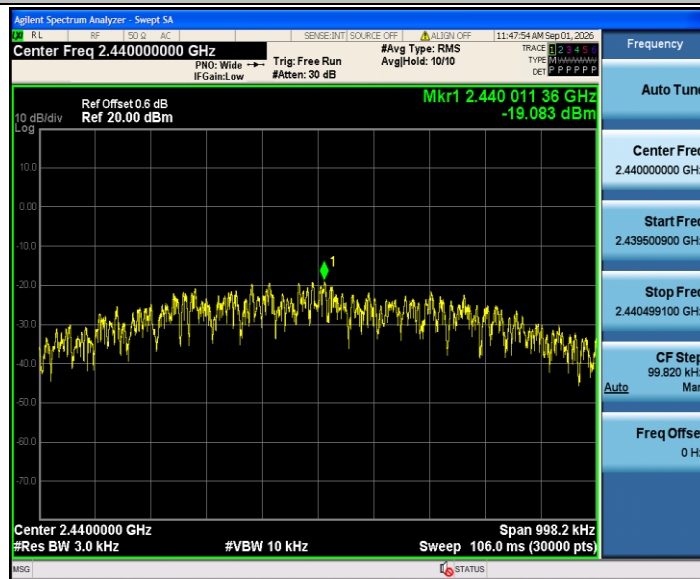
TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-19.03	≤8.00	PASS
		2440	-19.08	≤8.00	PASS
		2480	-19.52	≤8.00	PASS

Test Graphs

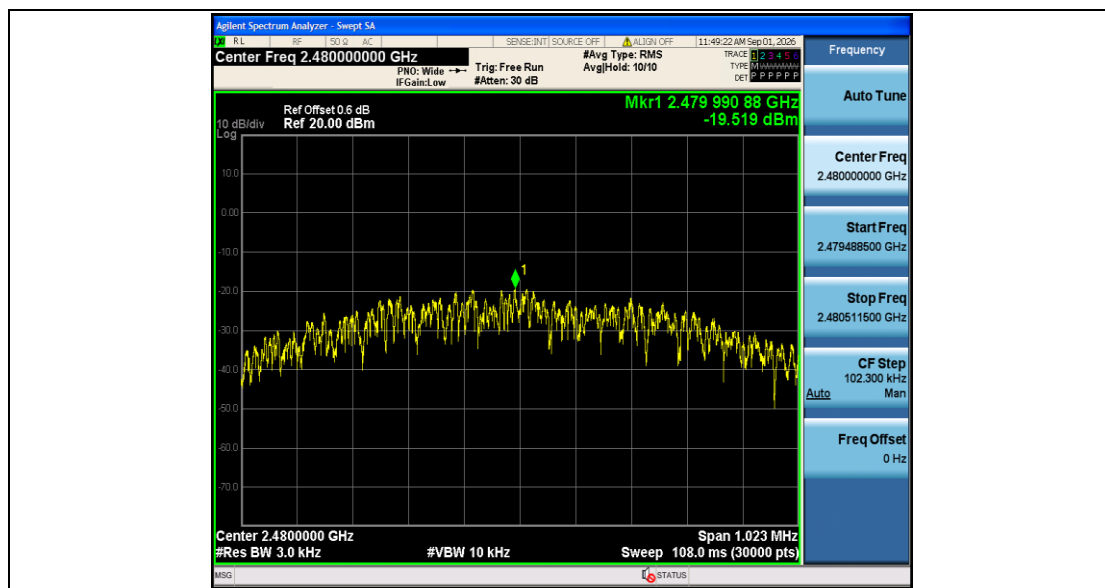
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

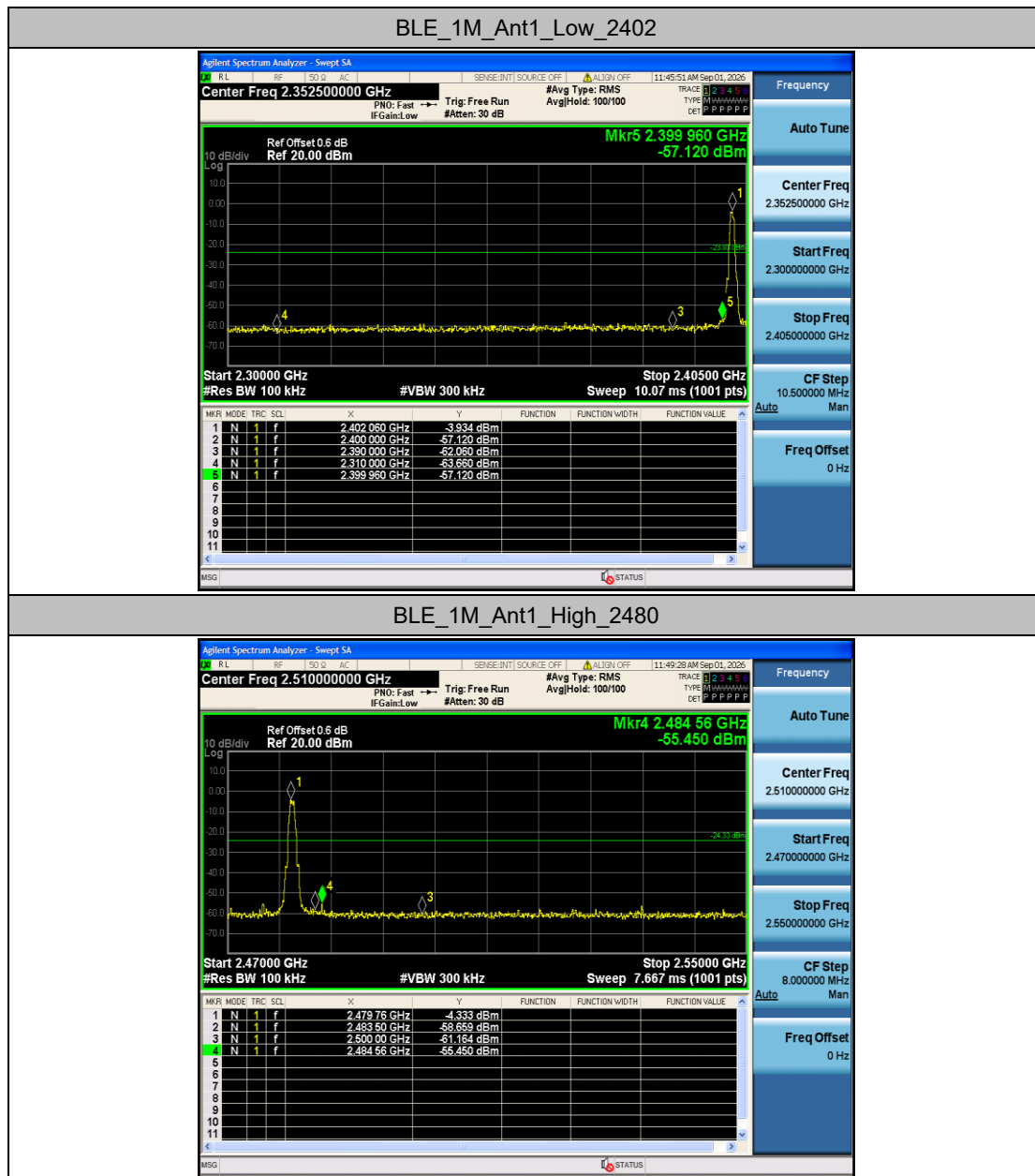


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-3.93	-57.12	≤-23.93	PASS
		High	2480	-4.33	-55.45	≤-24.33	PASS

Test Graphs

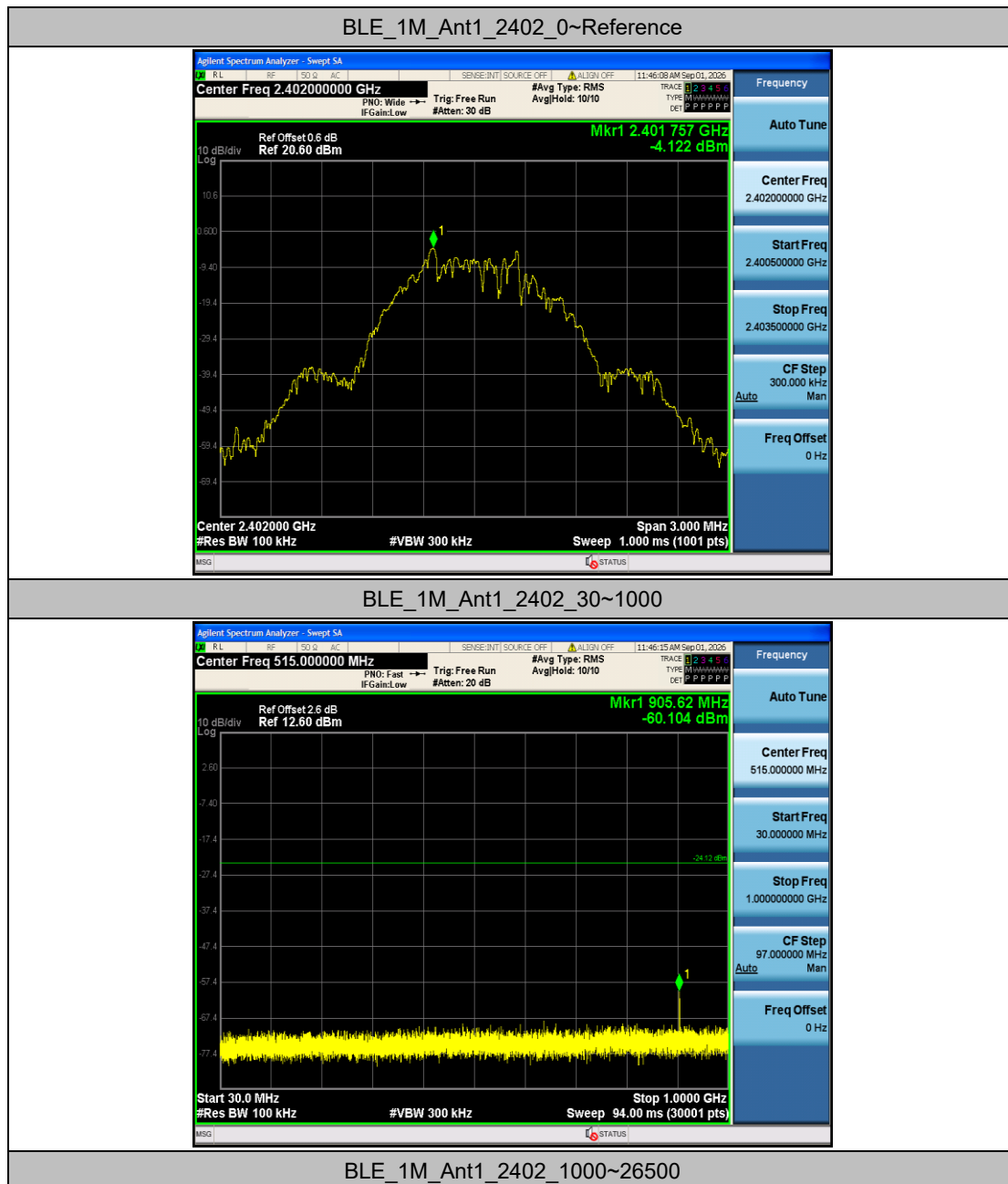


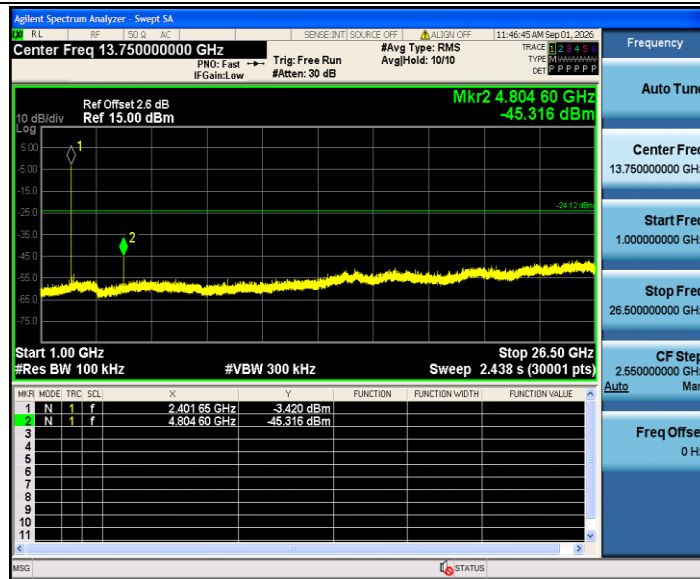
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-4.12	-4.12	---	PASS
			30~1000	-4.12	-60.1	≤-24.12	PASS
			1000~26500	-4.12	-45.32	≤-24.12	PASS
		2440	Reference	-4.30	-4.30	---	PASS
			30~1000	-4.30	-68.06	≤-24.3	PASS
			1000~26500	-4.30	-46.46	≤-24.3	PASS
		2480	Reference	-4.00	-4.00	---	PASS
			30~1000	-4.00	-49.93	≤-24	PASS
			1000~26500	-4.00	-46.46	≤-24	PASS

Test Graphs

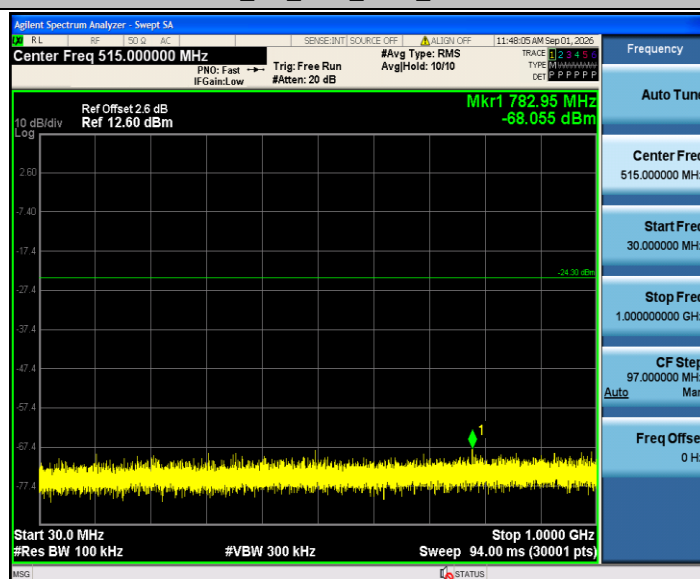




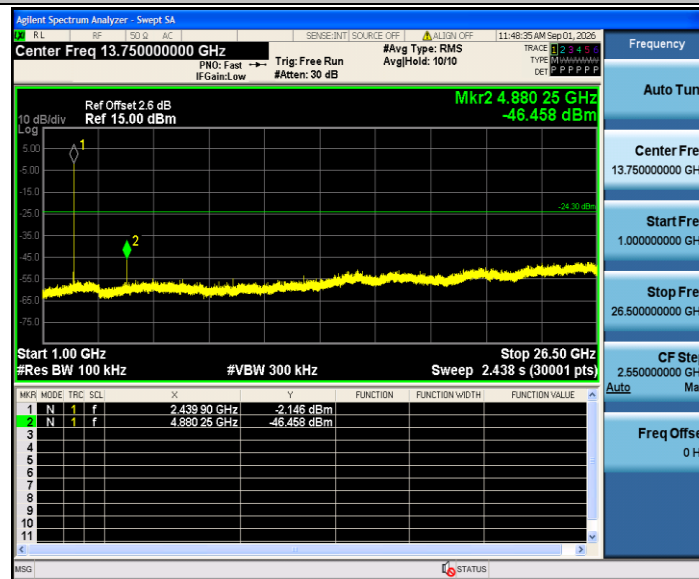
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



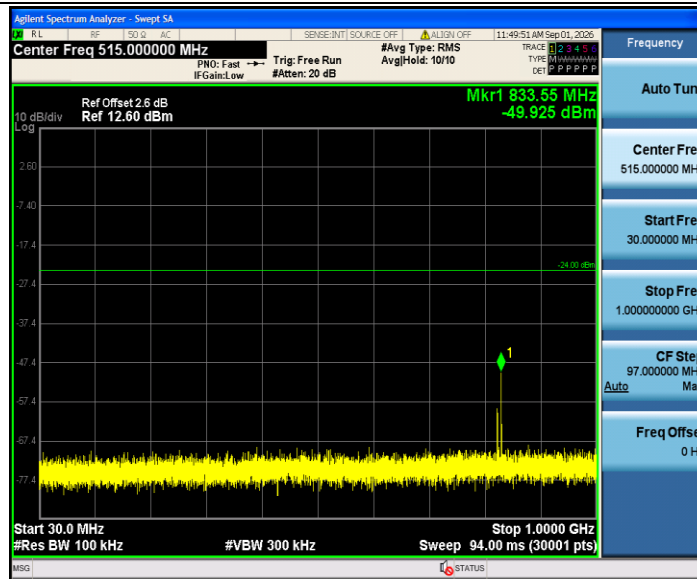
BLE_1M_Ant1_2440_1000~26500



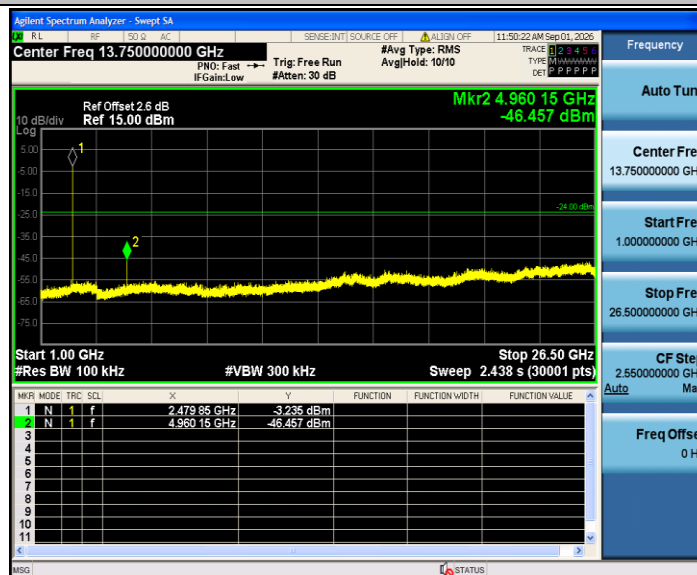
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

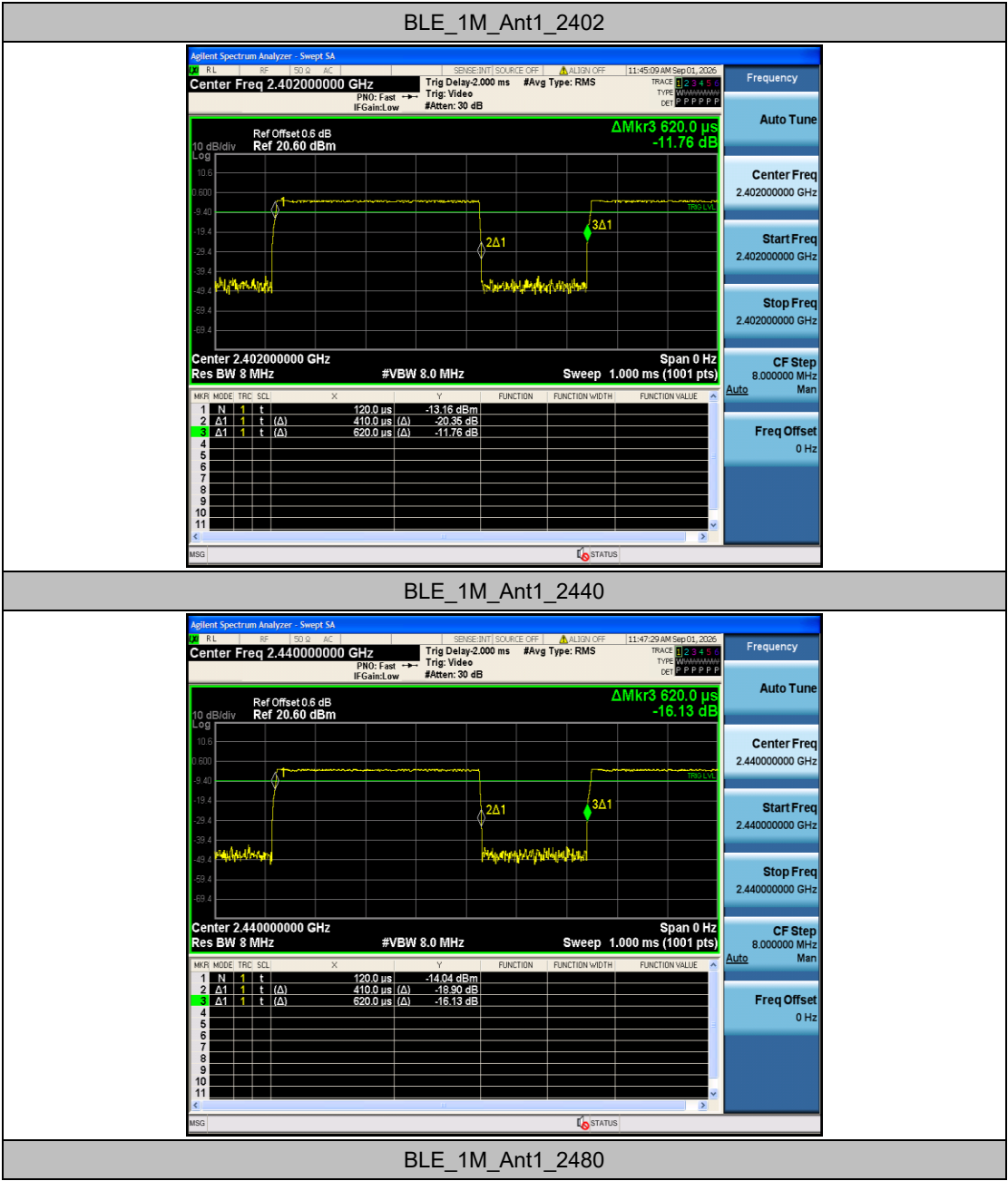


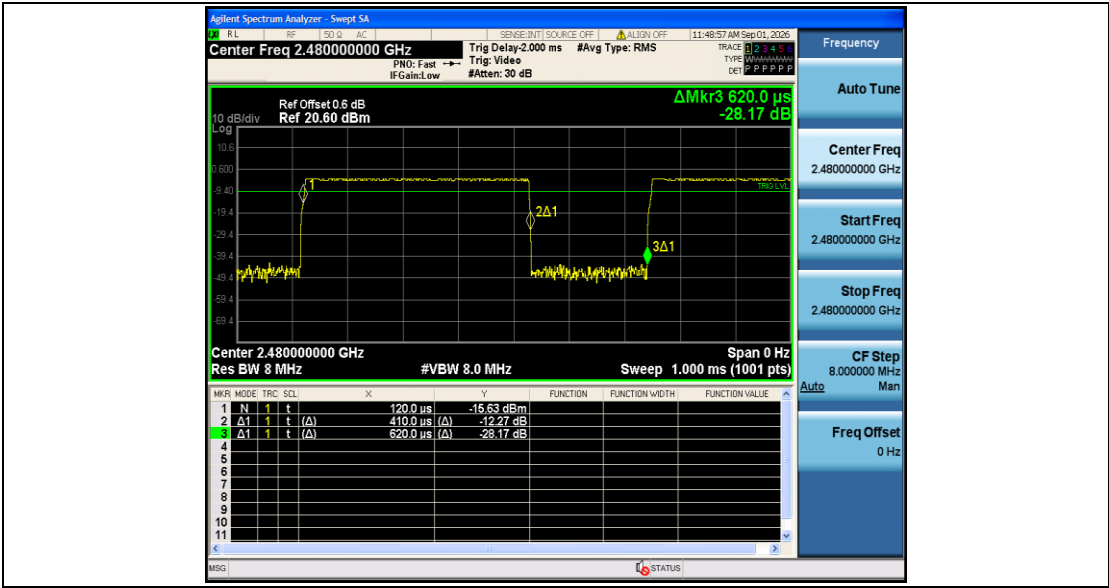
Appendix G: Duty Cycle

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





Appendix H: Emissions in Restricted Bands

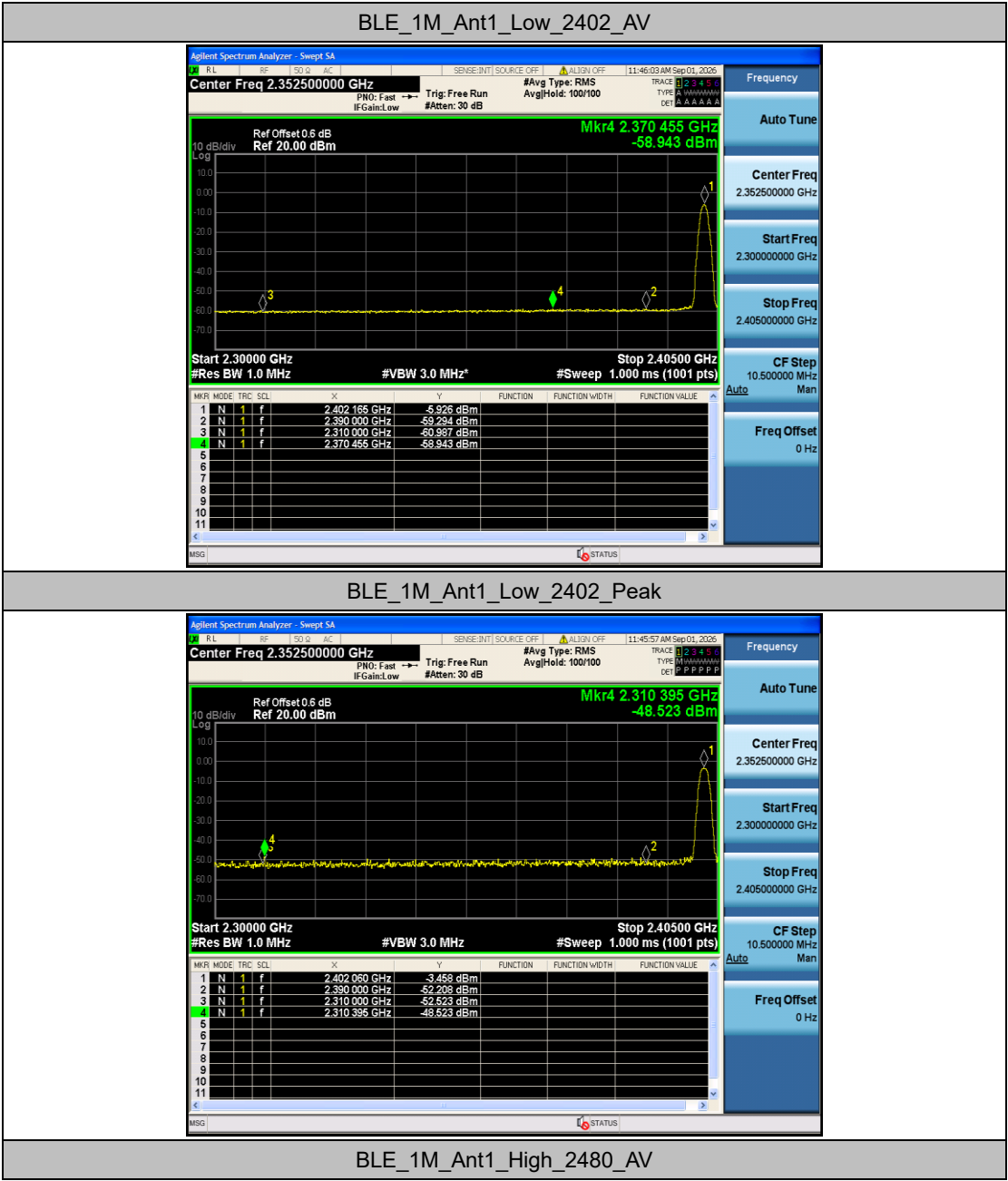
Test Result

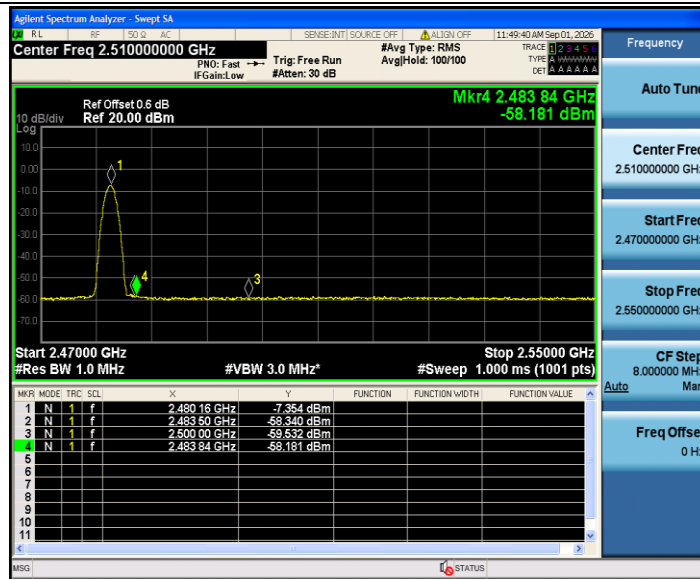
TestMod e	Antenn a	ChNam e	Freq(MH z)	Detector	Freq [MHz]	Result [dBm]	Gain [dB]	DC Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-60.99	2.24	1.80	38.25	≤54	PASS
				AV	2370.455	-58.94	2.24	1.80	40.3	≤54	PASS
				AV	2390.000	-59.29	2.24	1.80	39.95	≤54	PASS
				Peak	2310.000	-52.52	2.24	0.00	44.92	≤74	PASS
				Peak	2310.395	-48.52	2.24	0.00	48.92	≤74	PASS
				Peak	2390.000	-52.21	2.24	0.00	45.23	≤74	PASS
		High	2480	AV	2483.500	-58.34	2.24	1.80	40.9	≤54	PASS
				AV	2483.840	-58.18	2.24	1.80	41.06	≤54	PASS
				AV	2500.000	-59.53	2.24	1.80	39.71	≤54	PASS
				Peak	2483.500	-49.08	2.24	0.00	48.36	≤74	PASS
				Peak	2483.920	-47.44	2.24	0.00	50.0	≤74	PASS
				Peak	2500.000	-49.36	2.24	0.00	48.08	≤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_High_2480_Peak

