

FCC Appendix RF Test Data for BLE

FCC ID : 2AZW2G15MMINI

Company : Beijing Supvan Information Technology Co., Ltd.

EUT : Label Printer

Model Number : G15M Mini

Report No. : CTA26041605301

Reviewed By : Eric Wang

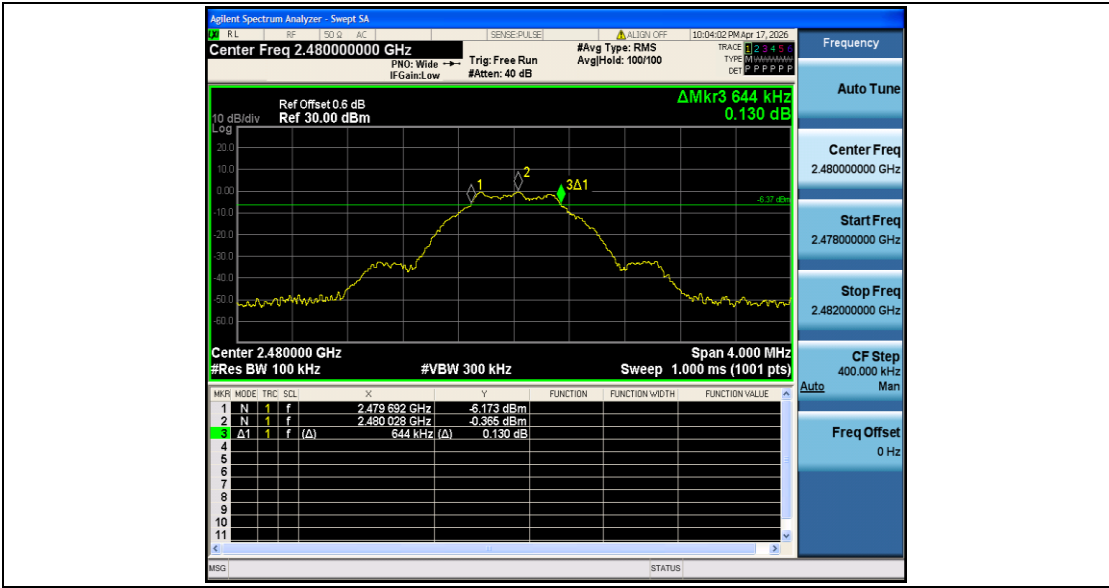
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.640	2401.692	2402.332	0.5	PASS
		2440	0.636	2439.696	2440.332	0.5	PASS
		2480	0.644	2479.692	2480.336	0.5	PASS

Test Graphs



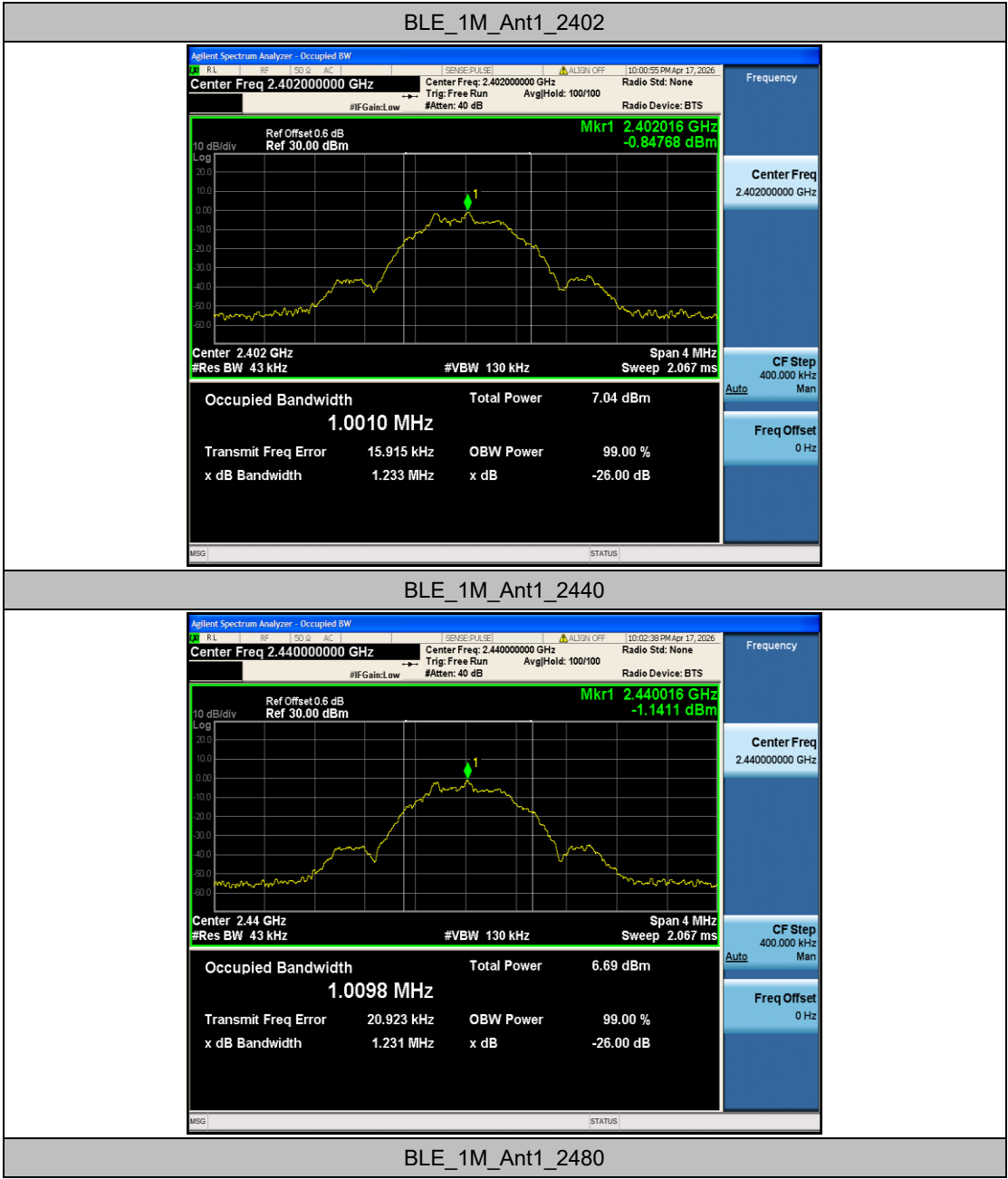


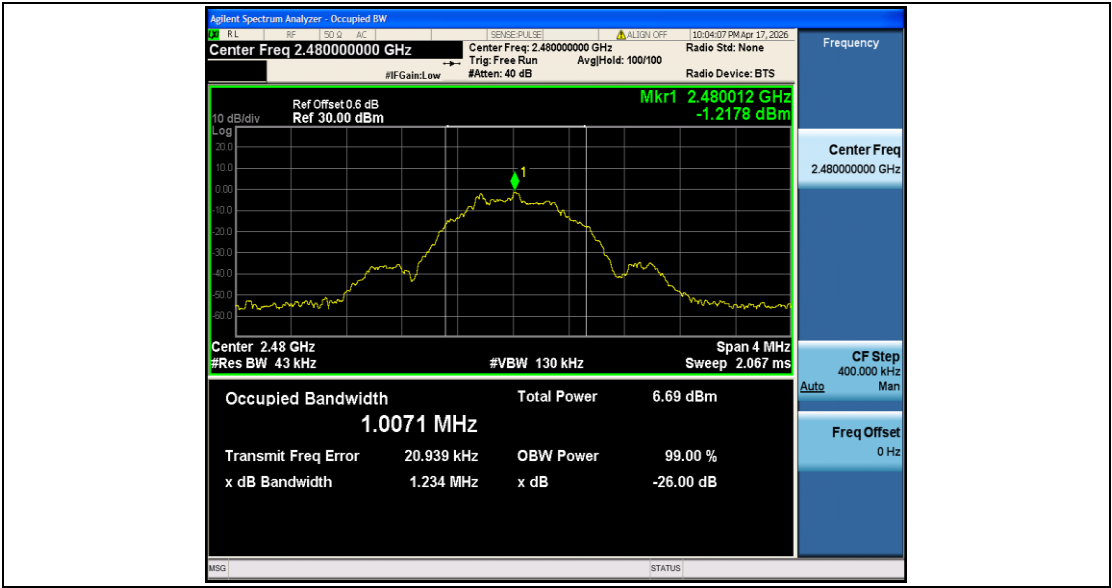
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0010	2401.5154	2402.5164	---	---
		2440	1.0098	2439.5160	2440.5258	---	---
		2480	1.0071	2479.5174	2480.5245	---	---

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	0.29	≤30	PASS
		2440	0.05	≤30	PASS
		2480	0.07	≤30	PASS

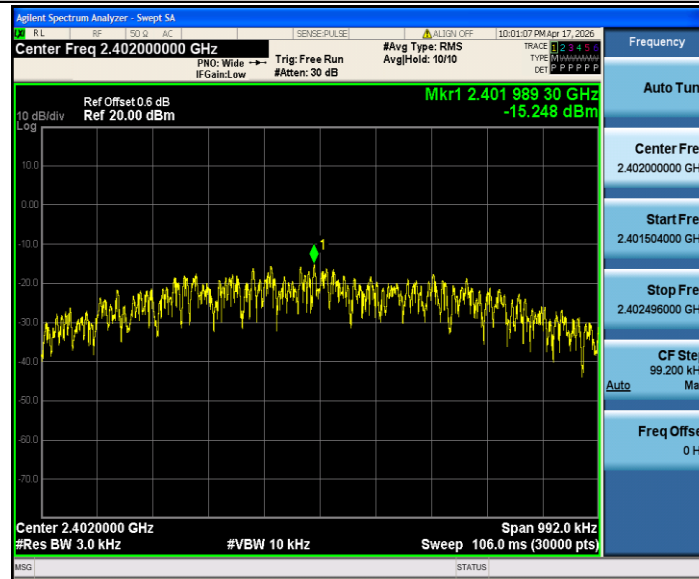
Appendix D: Maximum power spectral density

Test Result

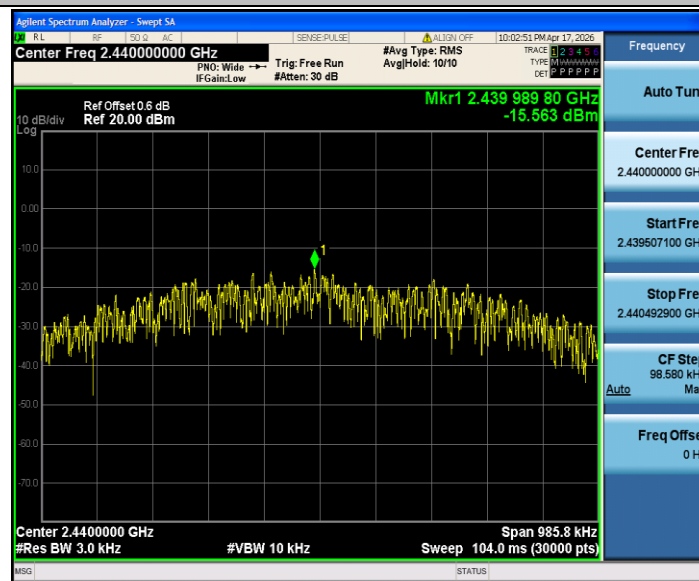
TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.25	≤8.00	PASS
		2440	-15.56	≤8.00	PASS
		2480	-15.48	≤8.00	PASS

Test Graphs

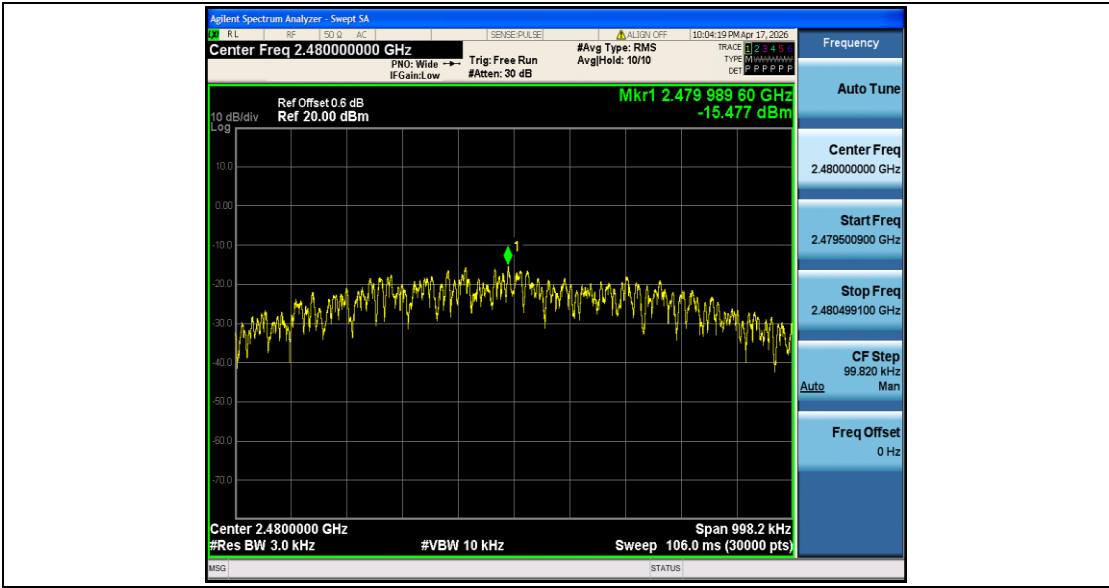
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

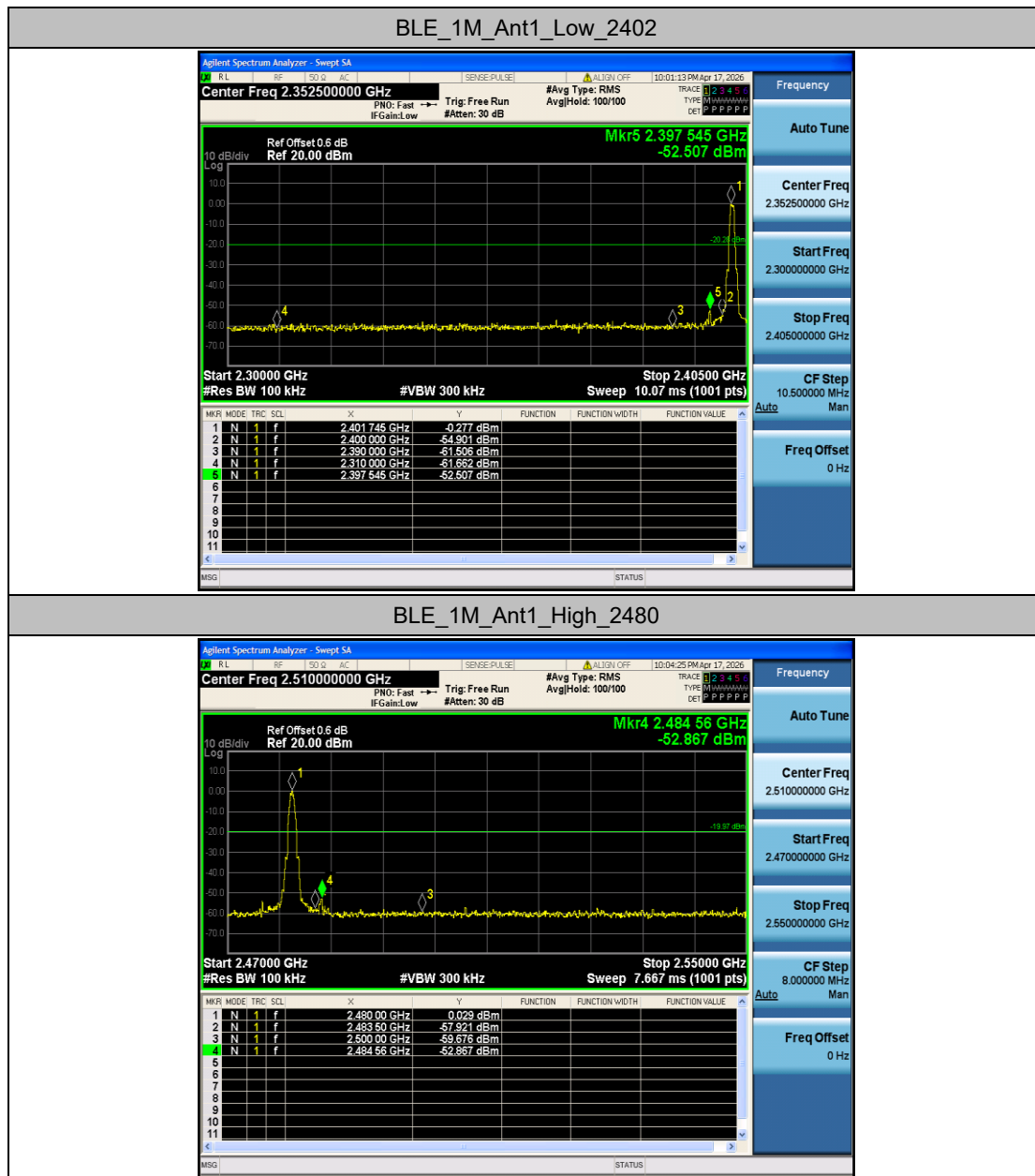


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.28	-52.51	≤-20.28	PASS
		High	2480	0.03	-52.87	≤-19.97	PASS

Test Graphs

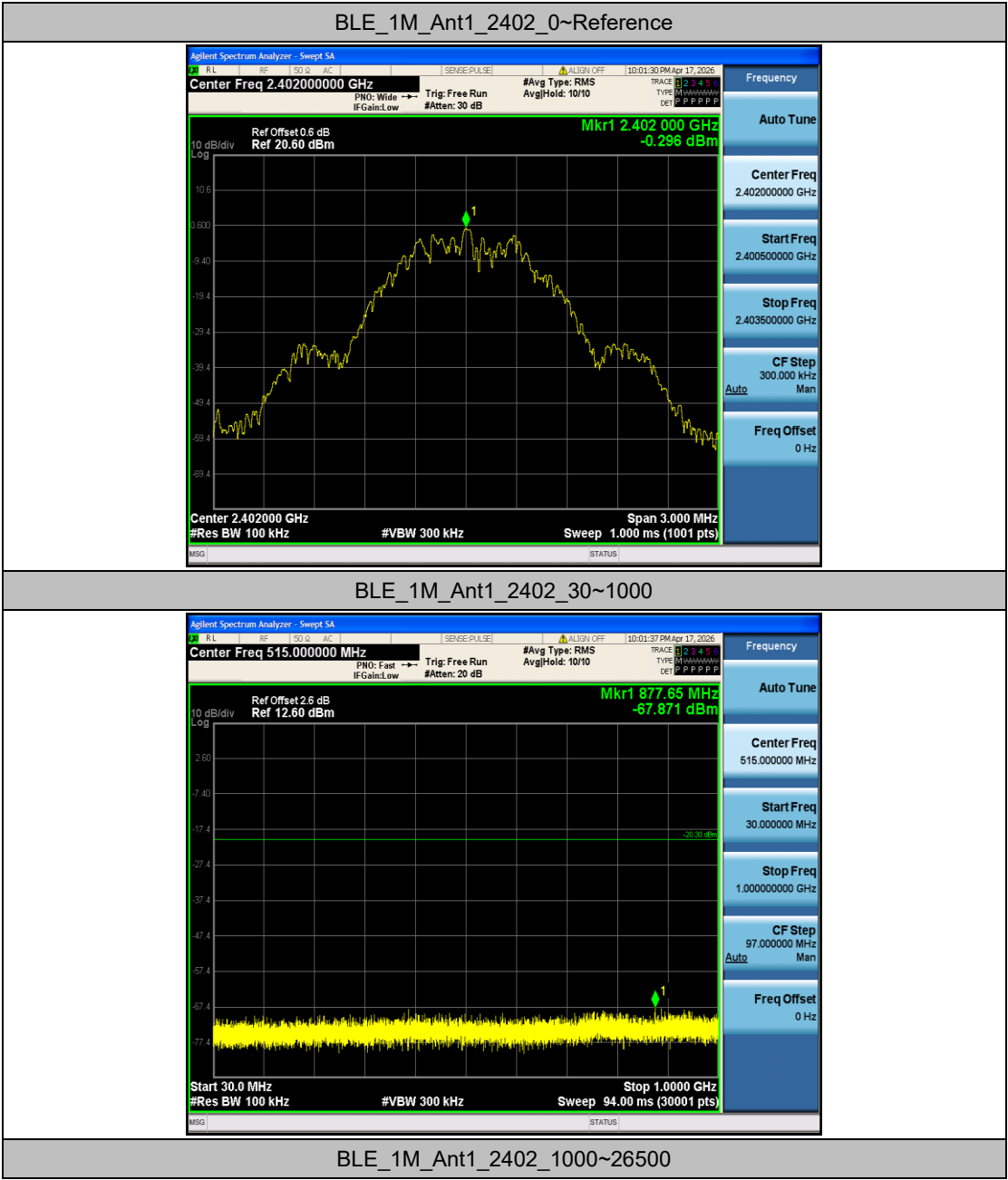


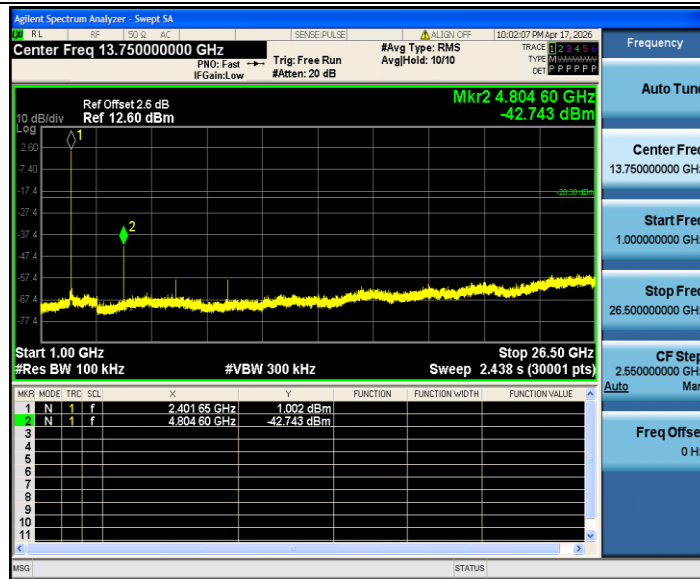
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-0.30	-0.30	---	PASS
			30~1000	-0.30	-67.87	≤-20.3	PASS
			1000~26500	-0.30	-42.74	≤-20.3	PASS
		2440	Reference	-0.29	-0.29	---	PASS
			30~1000	-0.29	-67.74	≤-20.29	PASS
			1000~26500	-0.29	-42.14	≤-20.29	PASS
		2480	Reference	-0.52	-0.52	---	PASS
			30~1000	-0.52	-66.74	≤-20.52	PASS
			1000~26500	-0.52	-43.93	≤-20.52	PASS

Test Graphs

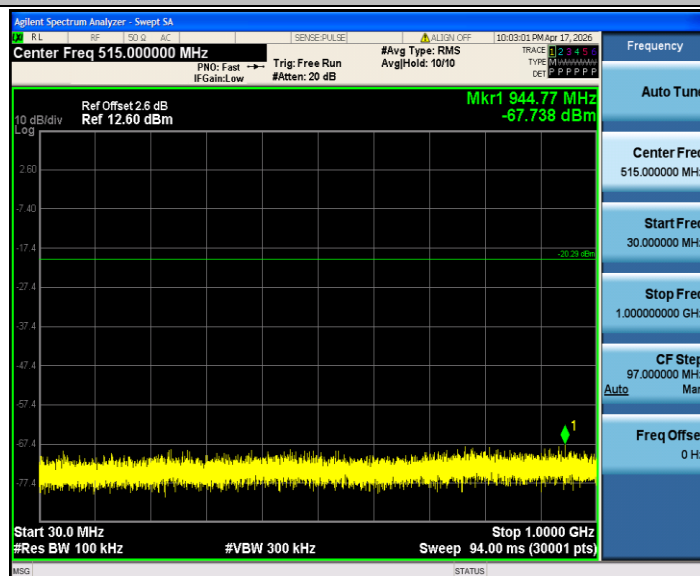




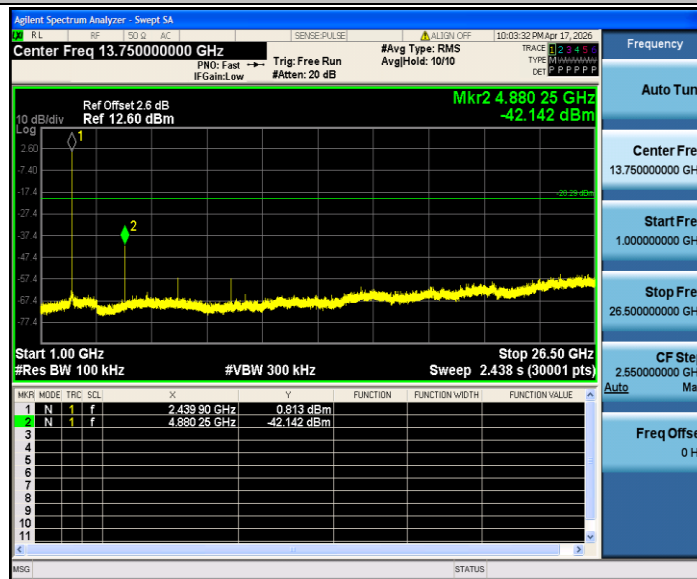
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



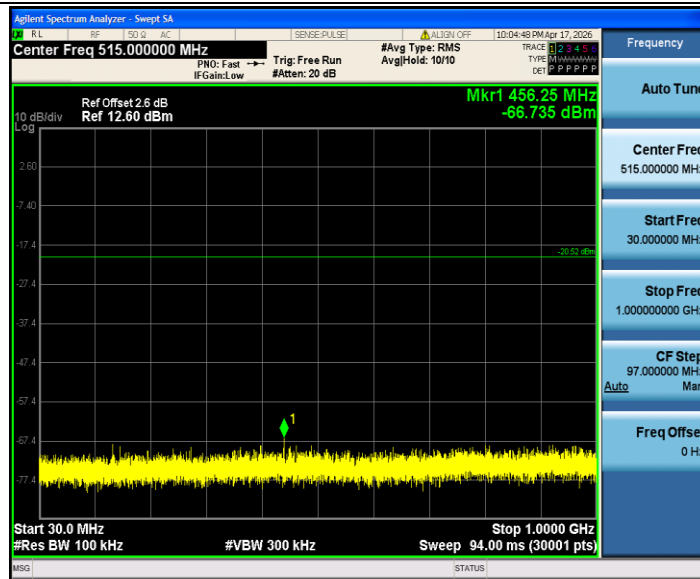
BLE_1M_Ant1_2440_1000~26500



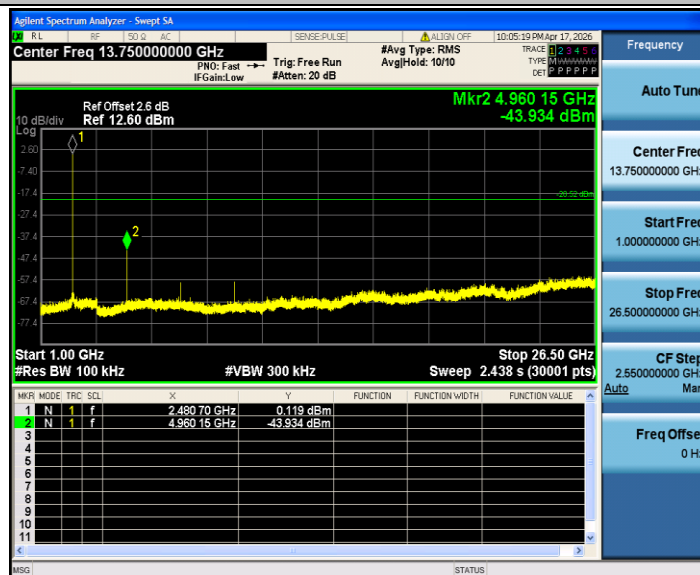
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

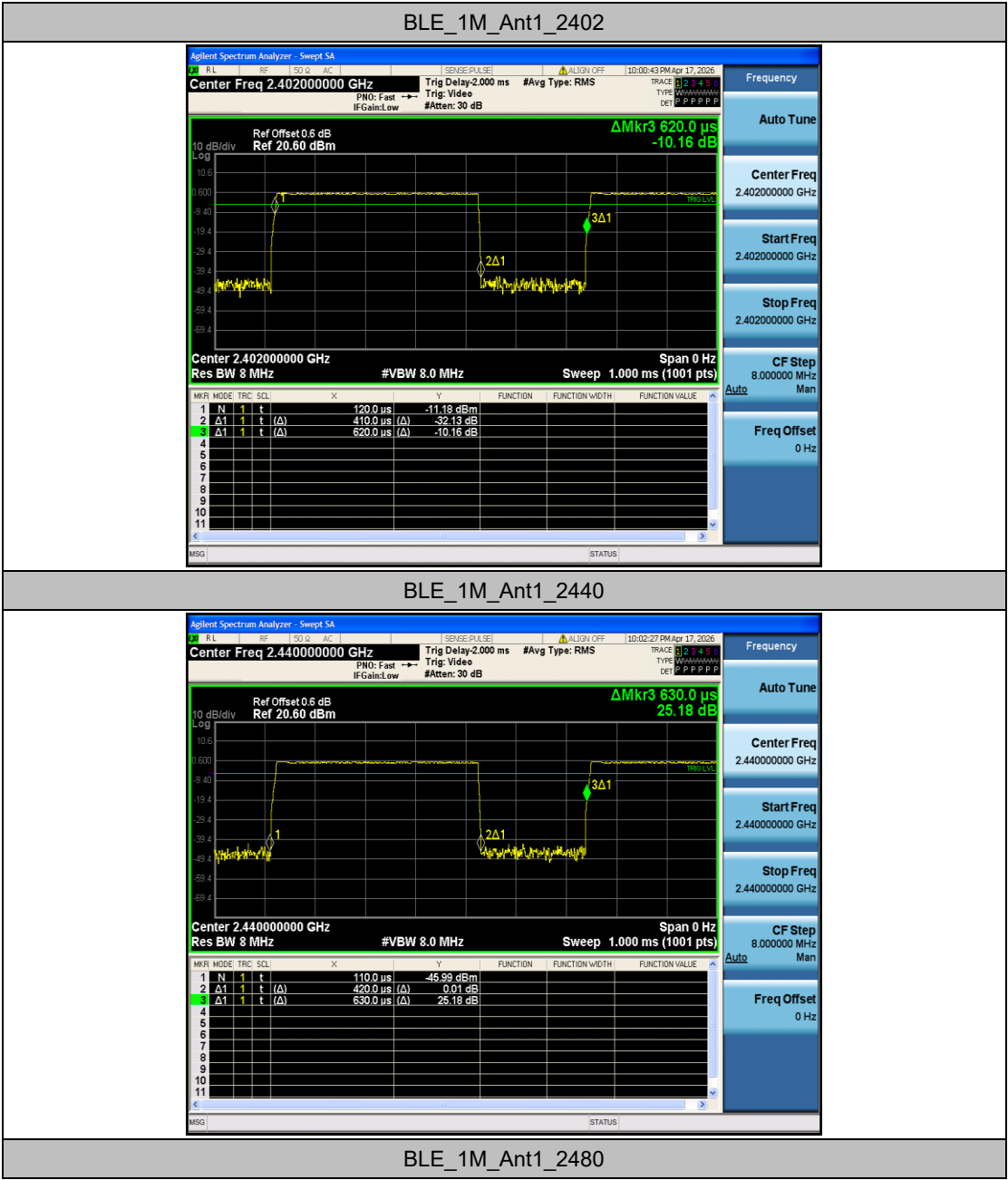


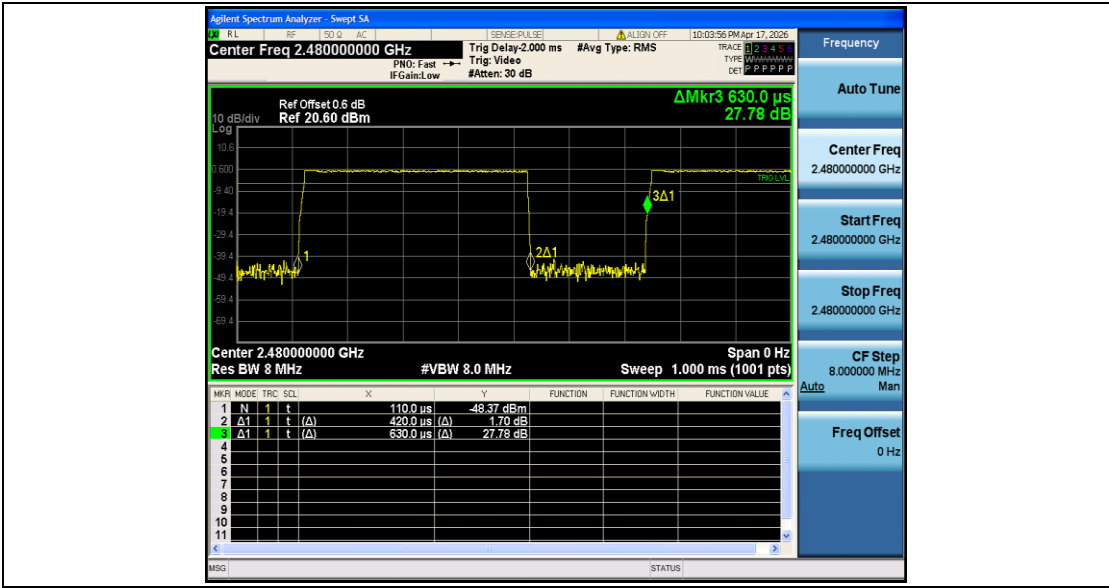
Appendix G: Duty Cycle

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	0.42	0.63	0.6667	66.67	1.76	---	---
		2480	0.42	0.63	0.6667	66.67	1.76	---	---

Test Graphs





Appendix H: Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	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	-59.24	2.00	1.80	39.76	≤54	PASS
				AV	2371.190	-58.27	2.00	1.80	40.73	≤54	PASS
				AV	2390.000	-59.16	2.00	1.80	39.84	≤54	PASS
				Peak	2310.000	-51.54	2.00	0.00	45.66	≤74	PASS
				Peak	2364.470	-48.34	2.00	0.00	48.86	≤74	PASS
				Peak	2390.000	-50.4	2.00	0.00	46.80	≤74	PASS
		High	2480	AV	2483.500	-57.63	2.00	1.76	41.33	≤54	PASS
				AV	2484.080	-57.1	2.00	1.76	41.86	≤54	PASS
				AV	2500.000	-58.64	2.00	1.76	40.32	≤54	PASS
				Peak	2483.500	-47.38	2.00	0.00	49.82	≤74	PASS
				Peak	2484.880	-43.72	2.00	0.00	53.48	≤74	PASS
				Peak	2500.000	-51.08	2.00	0.00	46.12	≤74	PASS

Note:

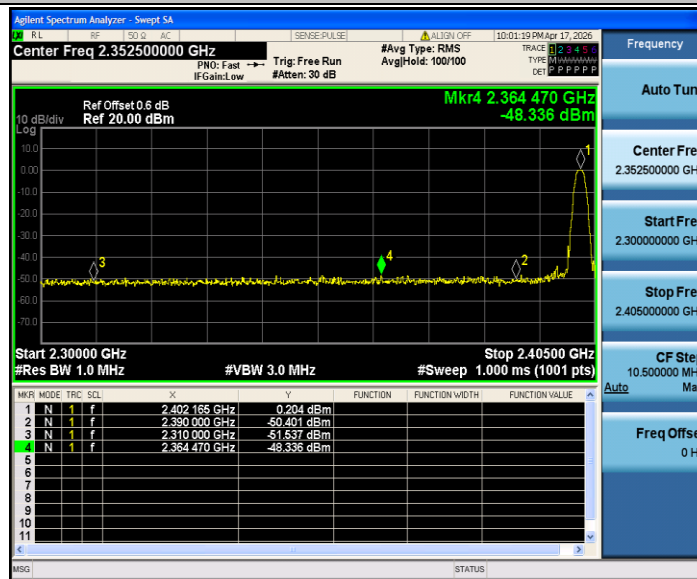
The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

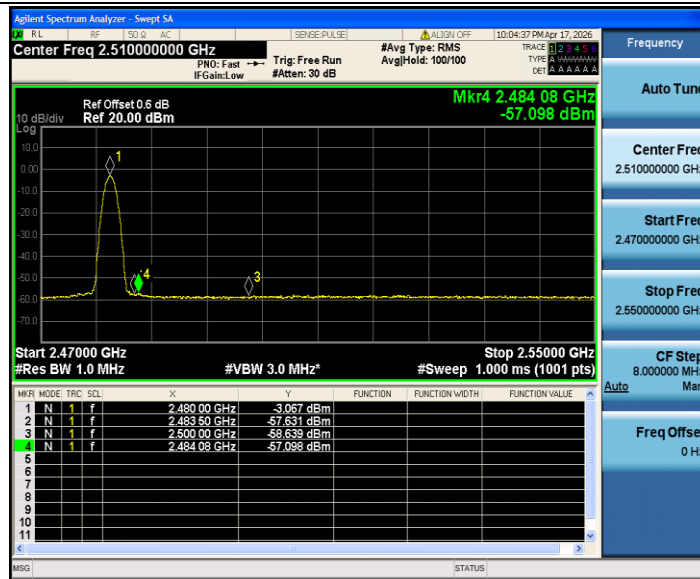
BLE_1M_Ant1_Low_2402_AV



BLE_1M_Ant1_Low_2402_Peak



BLE_1M_Ant1_High_2480_AV



BLE_1M_Ant1_High_2480_Peak

