

FCC Appendix RF Test Data for BLE

FCC ID : 2BAS6-PANDAPWRV2

Company : Shenzhen BIQU Innovation Technology Co., Ltd.

EUT : Panda PWR

Model Number : BIQU Panda PWR V2

Report No. : CTA26050701901

Reviewed By : Eric Wang

Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.620	2401.696	2402.316	0.5	PASS
		2440	0.640	2439.696	2440.336	0.5	PASS
		2480	0.640	2479.696	2480.336	0.5	PASS

Test Graphs

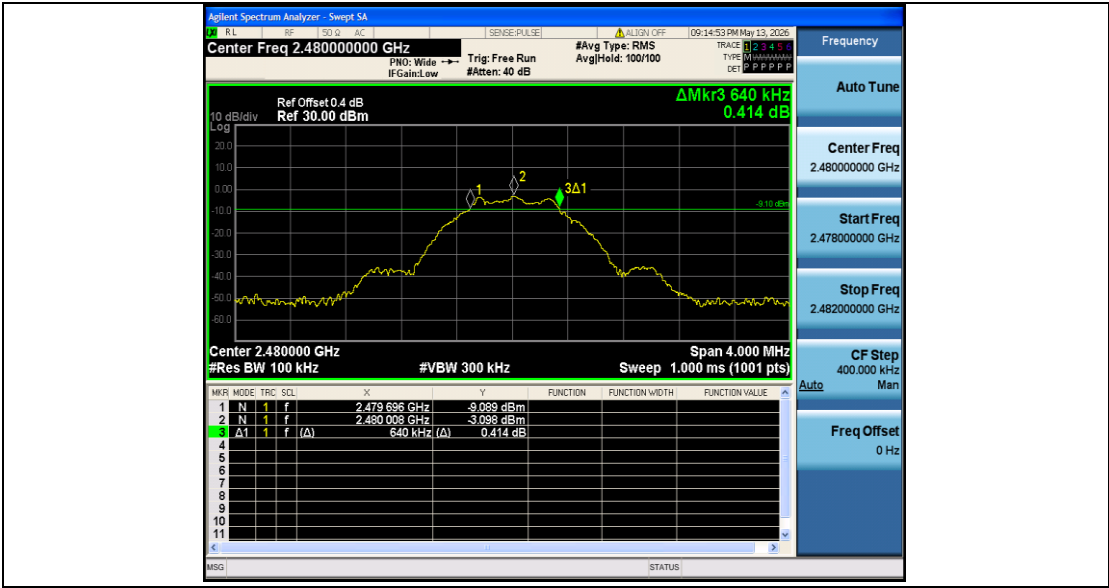
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



Appendix B: Occupied Channel Bandwidth

Test Result

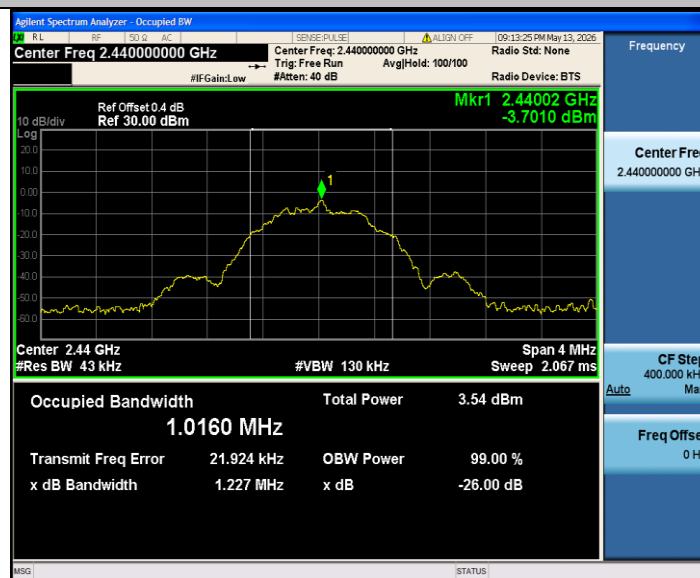
Test Mode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.99826	2401.5202	2402.5184	---	---
		2440	1.0160	2439.5139	2440.5299	---	---
		2480	1.0109	2479.5168	2480.5277	---	---

Test Graphs

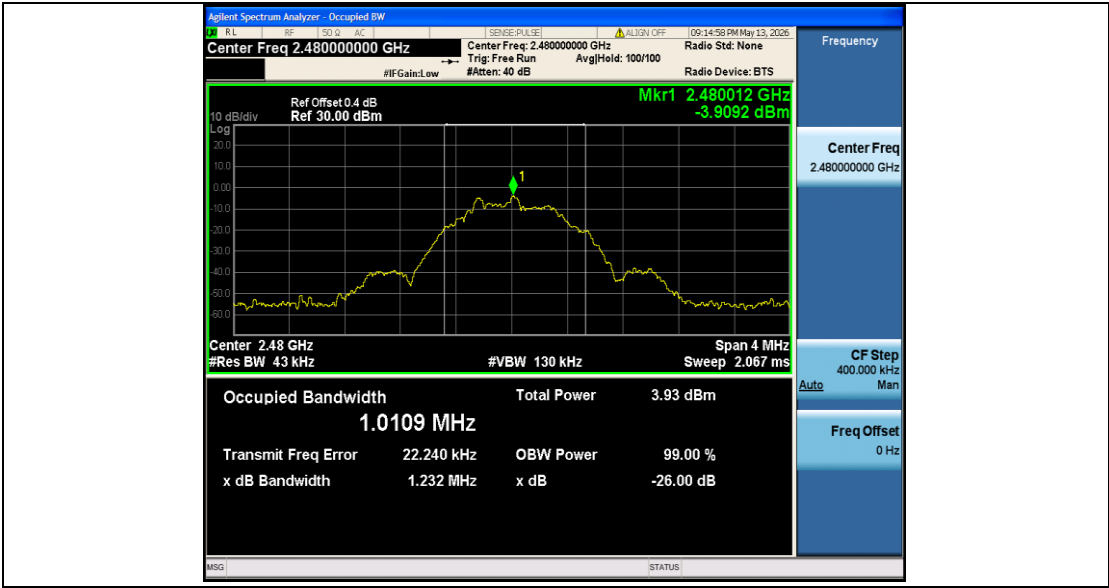
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

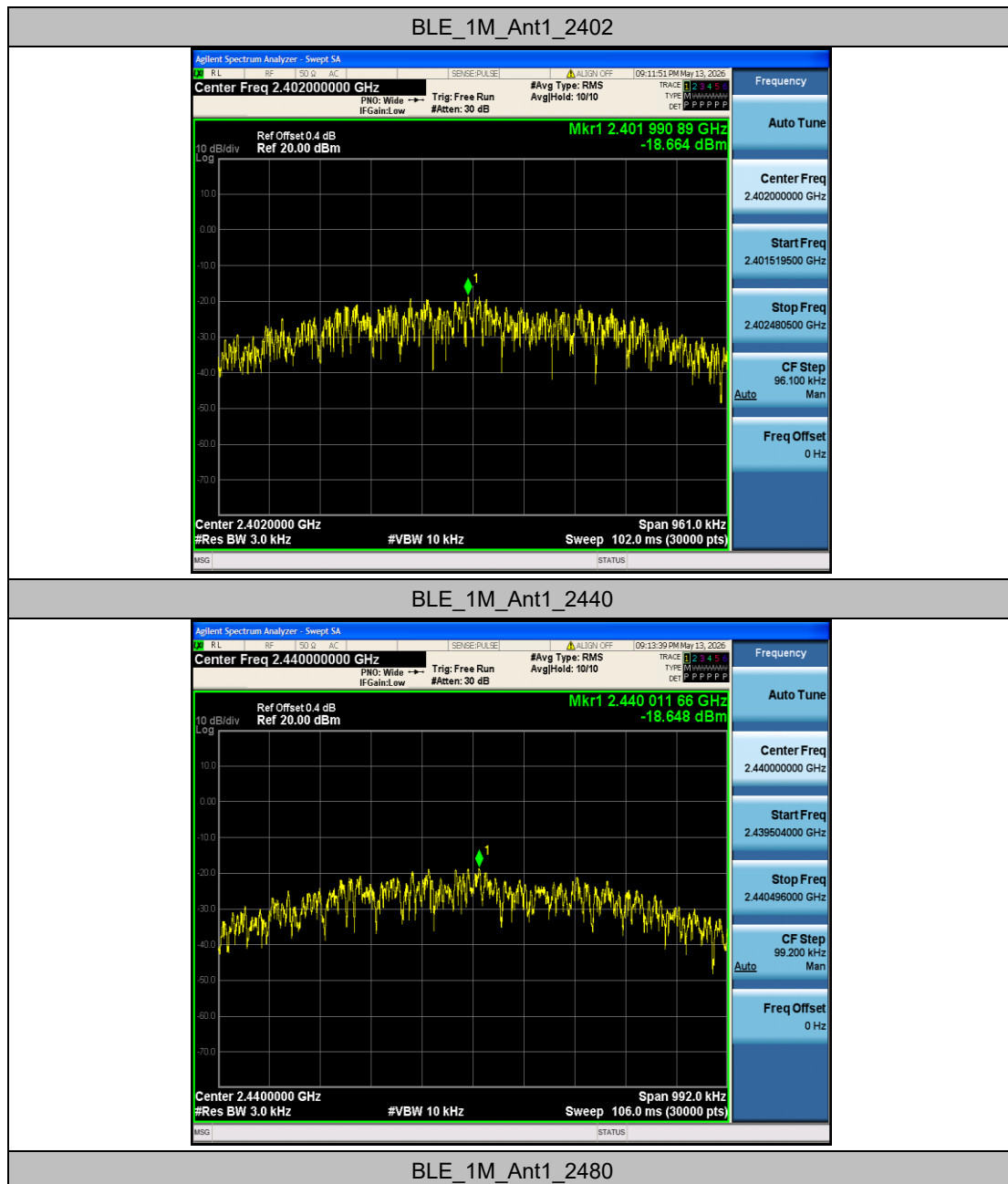
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-2.83	≤30	PASS
		2440	-2.88	≤30	PASS
		2480	-2.82	≤30	PASS

Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-18.66	≤8.00	PASS
		2440	-18.65	≤8.00	PASS
		2480	-18.45	≤8.00	PASS

Test Graphs



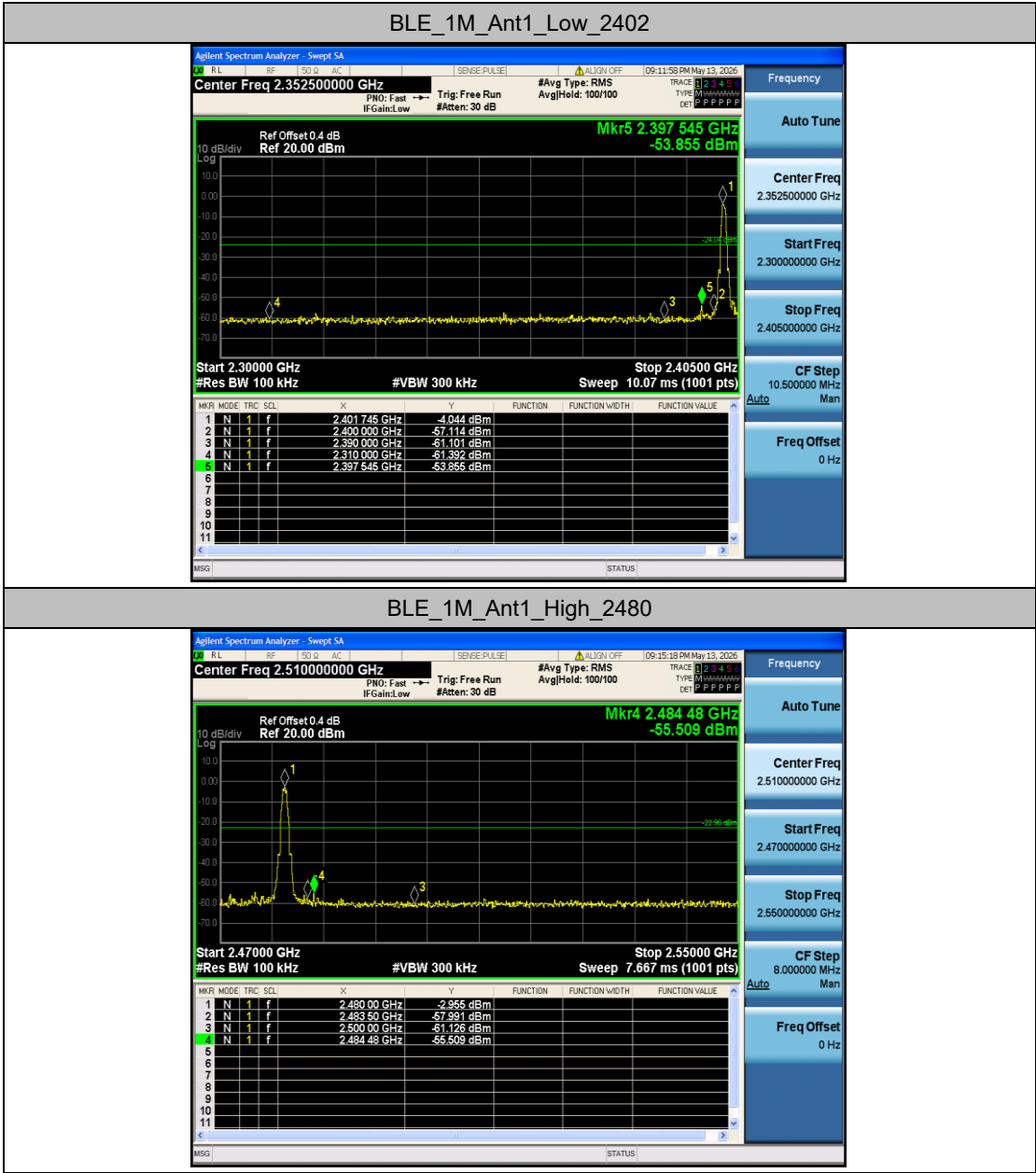


Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-4.04	-53.86	≤-24.04	PASS
		High	2480	-2.96	-55.51	≤-22.96	PASS

Test Graphs

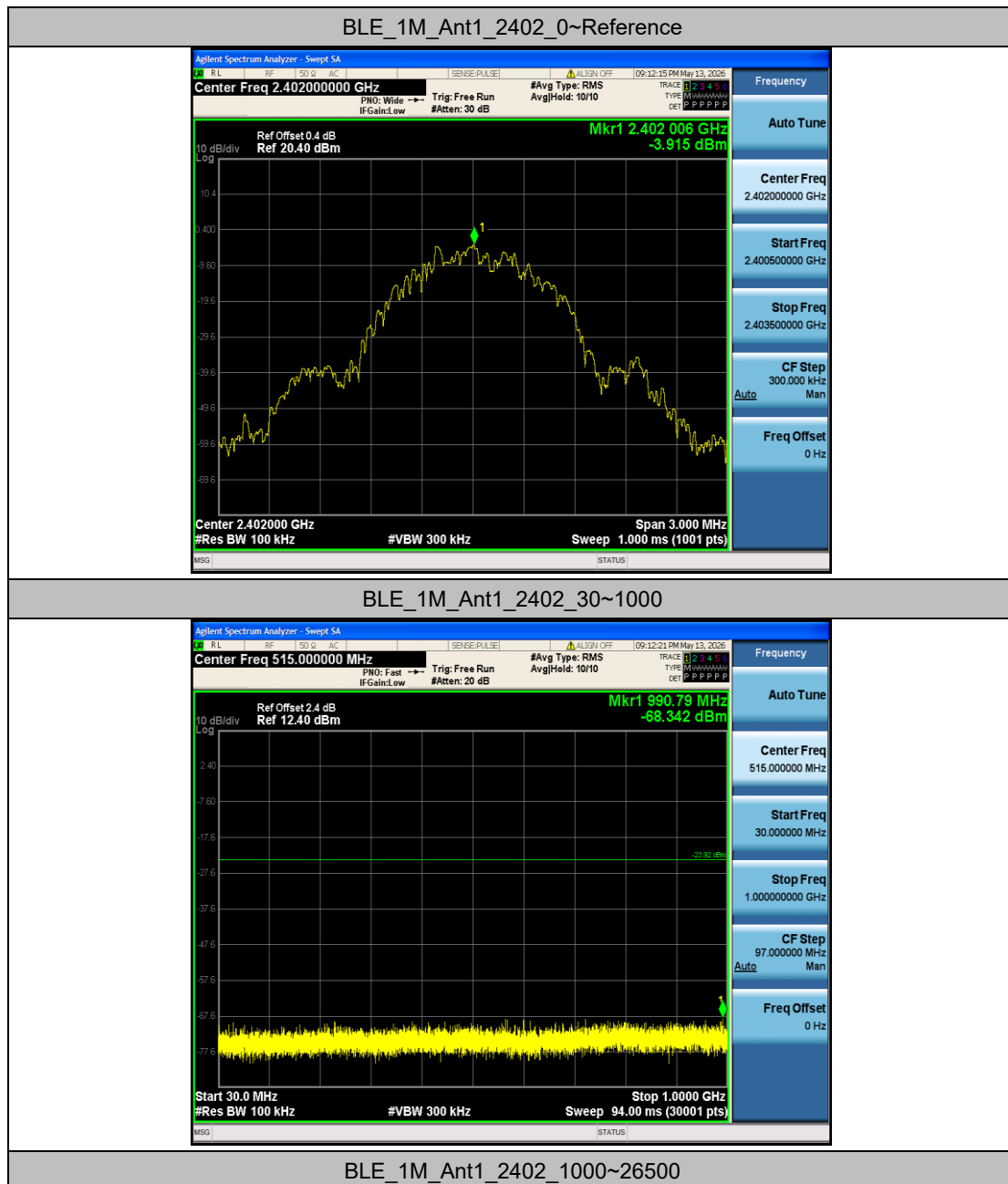


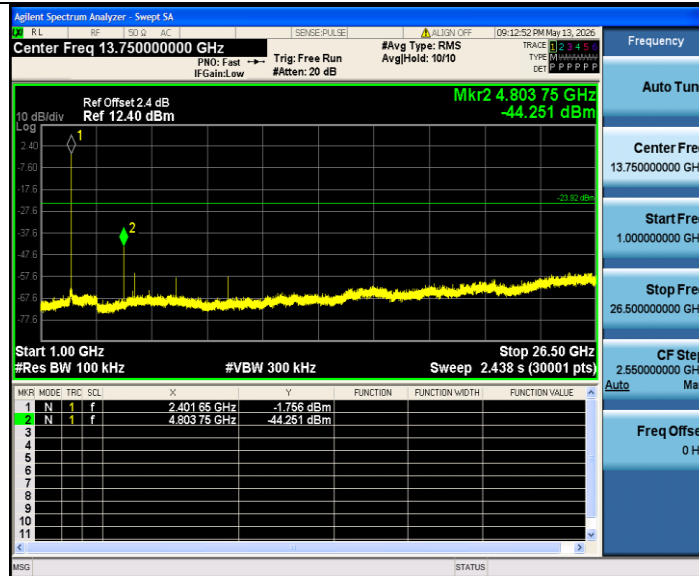
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-3.92	-3.92	---	PASS
			30~1000	-3.92	-68.34	≤-23.92	PASS
			1000~26500	-3.92	-44.25	≤-23.92	PASS
		2440	Reference	-3.74	-3.74	---	PASS
			30~1000	-3.74	-67.87	≤-23.74	PASS
			1000~26500	-3.74	-44.32	≤-23.74	PASS
		2480	Reference	-3.54	-3.54	---	PASS
			30~1000	-3.54	-68.24	≤-23.54	PASS
			1000~26500	-3.54	-47.25	≤-23.54	PASS

Test Graphs

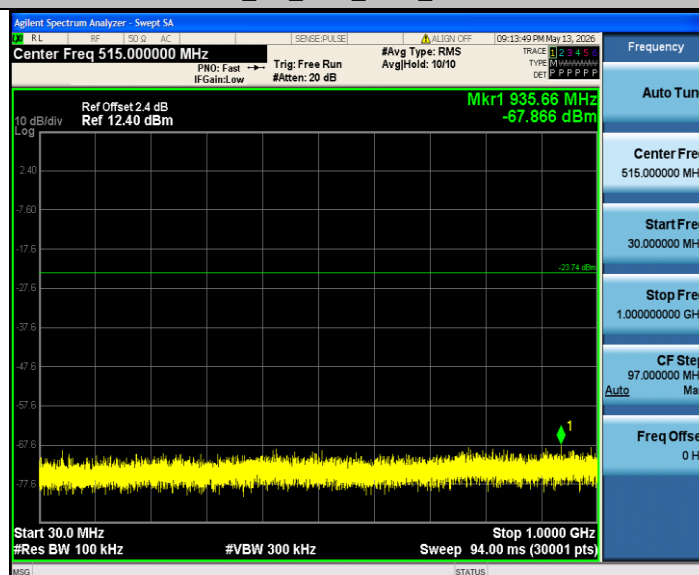




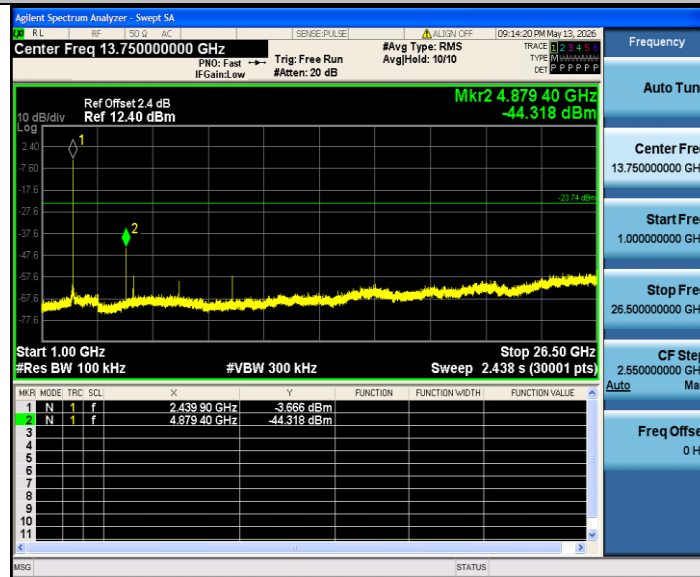
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



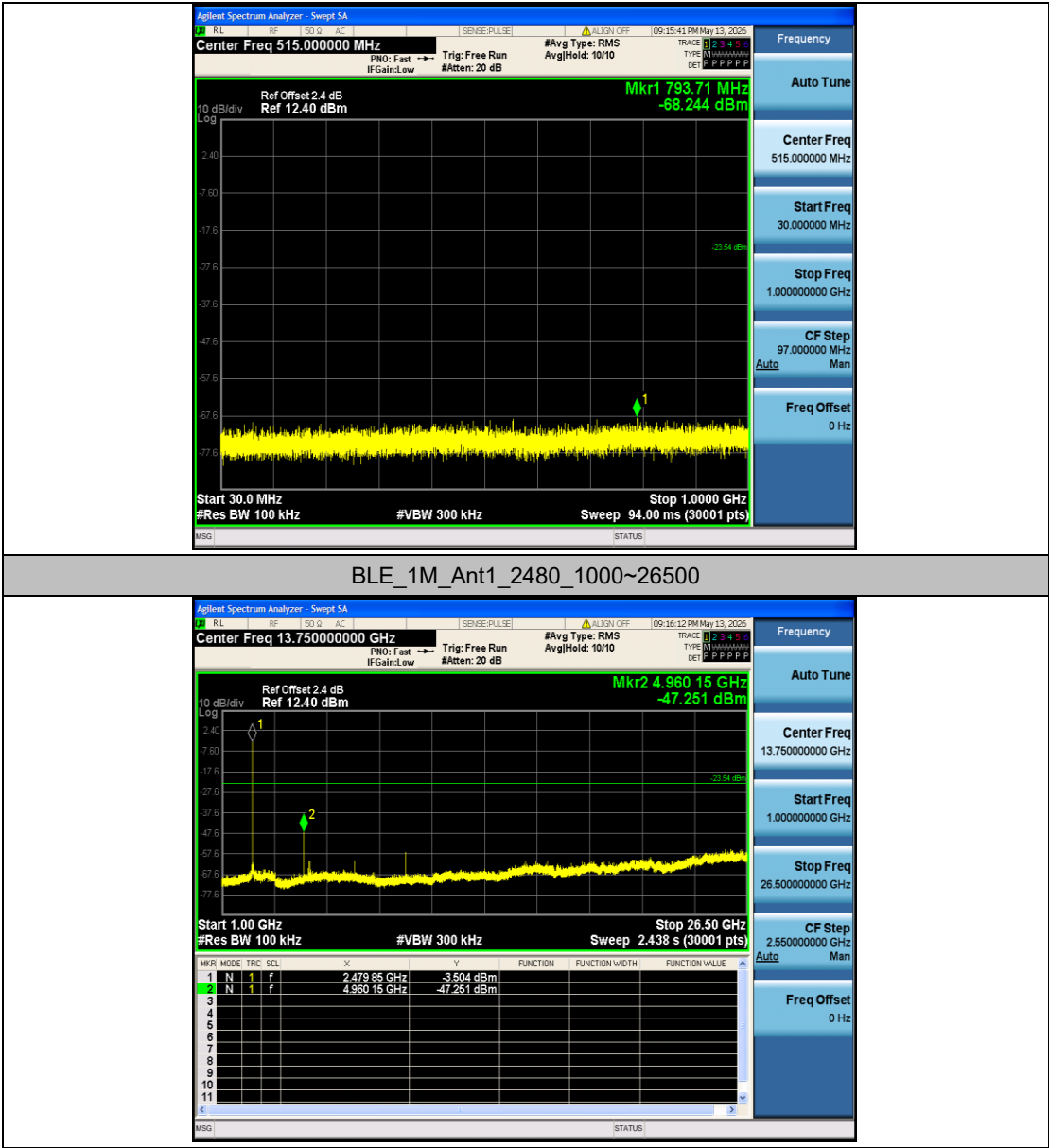
BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000

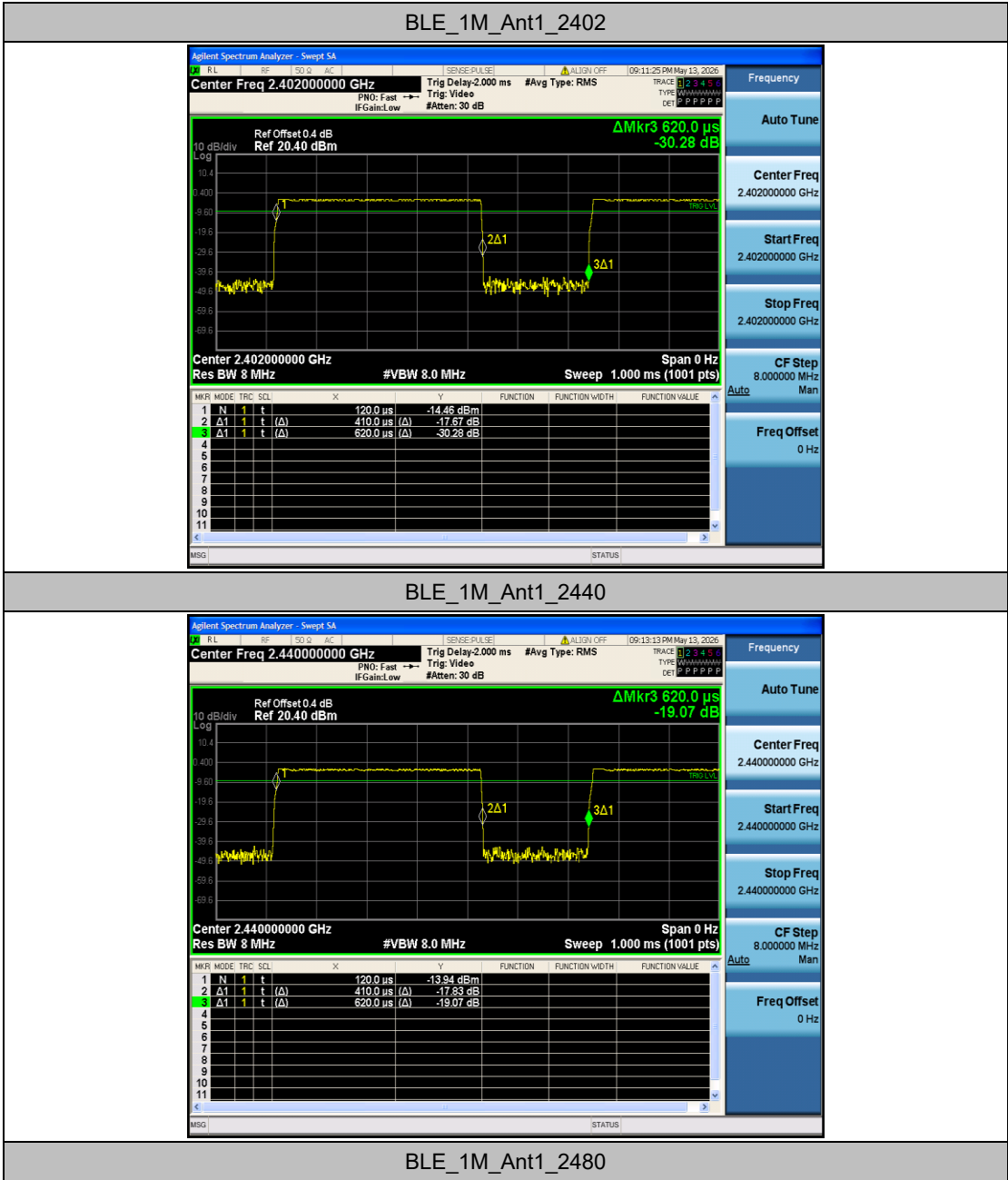


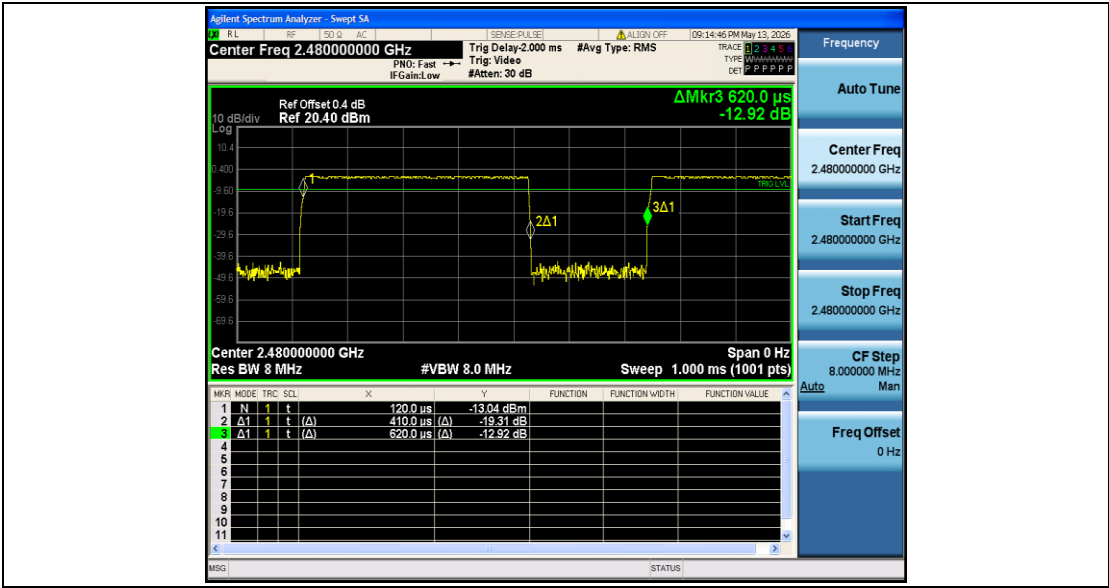
Appendix G: Duty Cycle

Test Result

Test Mode	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

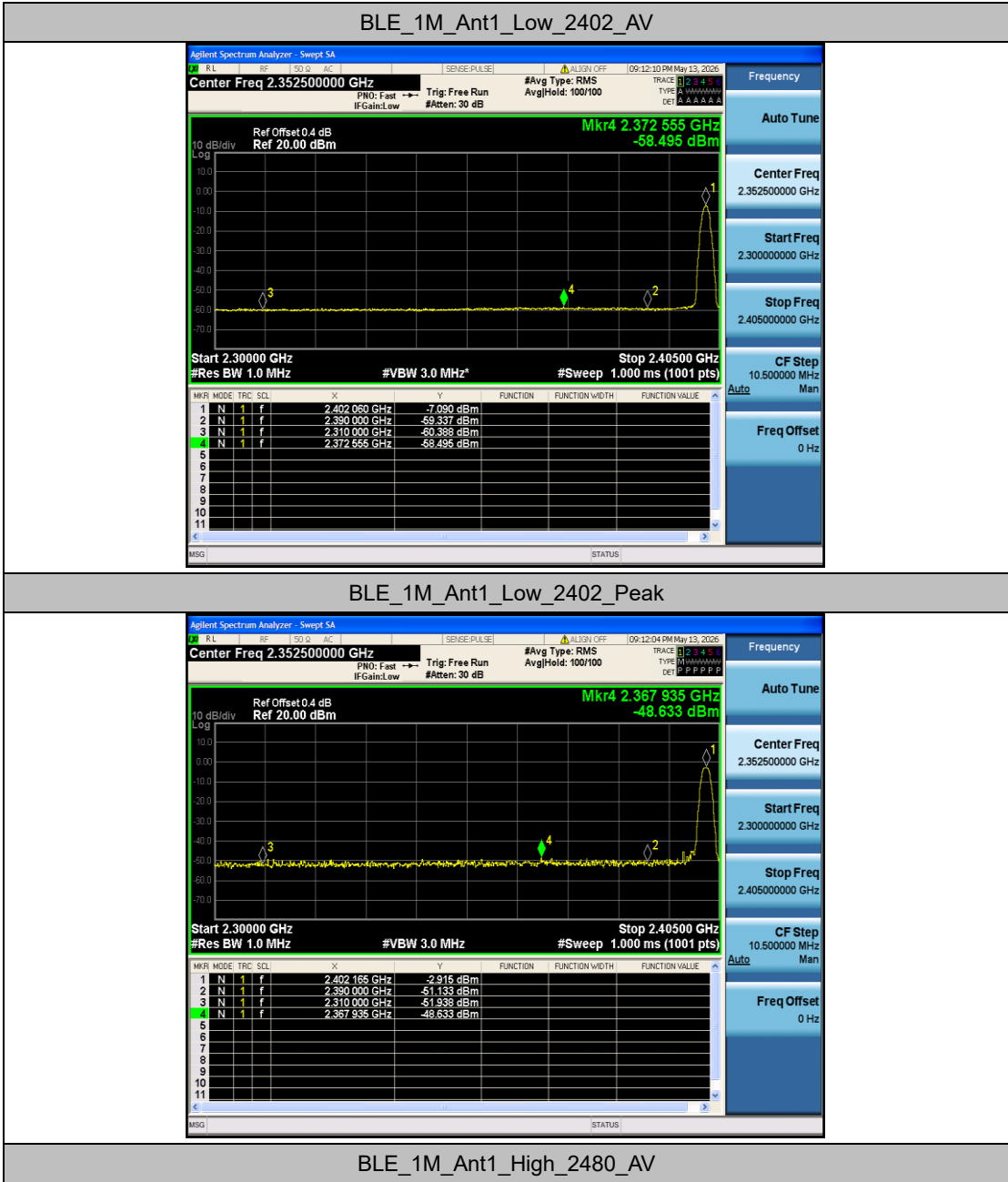
Test Result

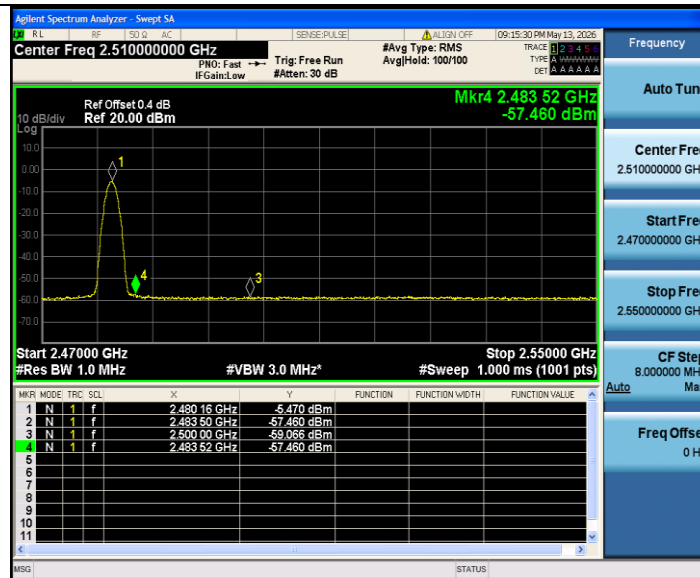
Test Mode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Gain [dB]	DC Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-60.39	3.0	1.80	39.61	≤54	PASS
				AV	2372.555	-58.5	3.0	1.80	41.5	≤54	PASS
				AV	2390.000	-59.34	3.0	1.80	40.66	≤54	PASS
				Peak	2310.000	-51.94	3.0	0.00	46.26	≤74	PASS
				Peak	2367.935	-48.63	3.0	0.00	49.57	≤74	PASS
				Peak	2390.000	-51.13	3.0	0.00	47.07	≤74	PASS
		High	2480	AV	2483.500	-57.46	3.0	1.80	42.54	≤54	PASS
				AV	2483.520	-57.46	3.0	1.80	42.54	≤54	PASS
				AV	2500.000	-59.07	3.0	1.80	40.93	≤54	PASS
				Peak	2483.500	-50.13	3.0	0.00	48.07	≤74	PASS
				Peak	2484.240	-45.51	3.0	0.00	52.69	≤74	PASS
				Peak	2500.000	-51.43	3.0	0.00	46.77	≤74	PASS

Note:

1. 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

